Customer Publication List - October, 2025

626	Q. Song, S. Stavrić, P. Barone, A. Droghetti, D.S. Antonenko, J.W.F. Venderbos, C.A. Occhialini, B. Ilyas, E. Ergeçen, N. Gedik, S.-W. Cheong, R.M. Fernandes, S. Picozzi, & R. Comin (2025). "Electrical switching of a *p*-wave magnet." *Nature* 642: 64-70.
625	S. Luyan, Q. Deyang, H. Xiaobo, C. Shaoqiang, & T. Jiahua (2025). "Utilizing methanol as a solvent auxiliary additive for the fabrication of high-efficiency Sb_2Se_3 solar cells." *Journal of Alloys and Compounds* 1010: 177967.
624	L. Shen, D. Qin, E. Nie, S. Chen, & J. Tao (2025). "Fluorine-Doped CdS Enables Oriented Growth and Defect Suppression in Sb_2Se_3 Solar Cells with High Conversion Efficiency." *Advanced Functional Materials* e15011.
623	Y. Guo, D. Wang, Z. Wang, R. Zhao, Z. Lv, Y. Li, & X.Yang (2025). "Magnetic properties and dielectric properties of CoFeB/NdFeB composite films at Terahertz." *Composites Communications* 53: 102242.
622	Y. Guo, D. Wang, R. Xing, Z. Xu, Y. Li, X. Yang, Z. Wang, & Z. Zhao (2025). "Magnetic properties and magnetoimpedance in FINEMET/NdFeB composite ribbons." *Materials Research Bulletin* 190: 113507.
621	Y. Guo, D. Wang, Z. Wang, Y. Li, X. Yang, R. Zhao, Z. Lv, & Z. Jiang (2025). "Structure and dielectric properties of WO_3 films at terahertz band." *Materials Technology* 40 (1).
620	I.L. Guedes, M.O.D. Nascimento, L.S. Dias, A.R. Araujo-Nobre, H.M. Barreto, É.A. Abi-Chacra, A.C.V. Fialho, G.C. Vale, & A.L.M. Carvalho (2025). "Lipid nanocarrier containing eugenol for denture hygiene: evaluation of efficacy against *Candida* biofilms." *Journal of Applied Oral Science* 33: e20240455.
619	A. Naguib, H. Hani, S. Tewfik, R. Ettouney, & M. El-Rifai (2025). "Investigations on The Effect of Selected Post-Treatment with Thermal and Oxidizing Agents on The Characteristics and Performance of Polysulfone Hemodialysis Hollow Fiber Membranes." *Egyptian Journal of Chemistry* 68 (13): 307-322.
618	S.M. Kheder, H.T. Hussein, & H.M. Alattar (2025). "Novel CdS/MWCNTs/CuO nanocomposite with high photocatalytic and antimicrobial activity." *Indian Journal of Physics* 99: 3805–3825.

Customer Publication List - October, 2025

617	A. Vidal-Montiel, D. Clark-Flores, E. Valentín-Gómez, J.P. Luna-Arias, E. Rosales-Cruz, C. Hernández-Rodríguez, L. Villa-Tanaca, & M. Juárez-Montiel (2025). “The GPI-Anchored Aspartyl Proteases Encoded by the *YPS1* and *YPS7* Genes of *Candidozyma auris* and Their Role Under Stress Conditions.” *Journal of Fungi* 11 (8): 573.
616	E.C. Silva, E.A.O. Farias, T.D.S. Araújo, A.R. Araújo, G.E. Almeida, L.C.C. Nunes, & C. Eiras (2025). “Gold nanoparticles based on polysaccharide from Amburana cearensis for organic dyes degradation.” *Polímeros: Ciência e Tecnologia* 35 (3): e20250029.
615	J. Queiroz, A. Figueredo, B.S. Sá, D.C. Moreira, J. Bueno Nunes, P. Eaton, J.R.S.A. Leite, & A.G. Vasconcelos (2025). “Antioxidant Activity and Cytotoxicity of Baru Nut Oil (*Dipteryx alata* Vogel) Nanoemulsion in Human Cells.” *Applied Nano* 6 (1): 3.
614	A. Mohamed, H. Hani, S. Tewfik, R. Ettouney, & M. El-Rifai (2025). “Effect of microwave treatment on morphological and separation characteristics of polysulfone hemodialysis hollow fiber membranes.” *Egyptian Journal of Chemistry* 68 (4): 447-461.
613	M. Cosma, T. Mocan, T. Pop, O. Mosteanu, R. Pop, F. Tabaran, & L. Mocan (2025). “Targeted photothermal therapy of hepatocellular carcinoma using gold nanoparticles functionalized with anti-cadherin and folic acid in a validated murine model.” *Medicine and Pharmacy Reports* 98 (4): 497-510.
612	E. Onofre-Bustamante, R.M. Lozano, M.L. Escudero, A.C. Espíndola-Flores, & S.E. Benito-Santiago (2025). “The Potential Application of AZ31-Mg$(OH)_2$/CeO_2 as Temporary Medical Implants: Evaluation of the Corrosion Resistance and Biocompatibility Properties.” *Coatings* 15 (4): 450.
611	C.E. Wade, S. Phan, K.E. Coffin, G.J. Paynter, T.J. Cawein, K.G. Eyink, A. Kogan, & J.P. Corbett (2025). “Polycrystalline morphology and anomalous Hall effect in RF-sputtered Co_2MnGa films.” *Journal of Vacuum Science & Technology A* 43 (4): 043412.
610	J. Gu, Y. Lu, S. Liu, X. Zhang, Y. Hu, Y. Gao, J. Wang, F. Zhu, Z. Zou, & Y. Zhang (2025). “Interaction effects of polysiloxane coating finishing process on the properties of bamboo pulp spunlace materials.” *The Journal of The Textile Institute* 1–9.

Customer Publication List - October, 2025

609	F.A. Batista, M.L.R. Maia, A.L.M.M. Filho, L.A. Filgueiras, J. Figueredo-Silva, A.R. de Araujo-Nobre, & A.N. Mendes (2025). “Composition of Sodium Alginate Films Containing Copper Oxide Nanoparticles Synthesized Using Aqueous Extract of Turnera subulata Sm and Evaluation of Their Healing Potential In Vivo.” *Journal of Polymer Science* 63: 178-191.
608	E.T. Salim, R.O. Mahdi, R.A. Abbas, S.C.B. Gopinath, & Z.J. Mohammed (2025). “Optimizing cuprous oxide thin films: enhancing structural and electrical properties through controlled hydrothermal synthesis and precursor variations.” *Journal of Materials Science: Materials in Electronics* 36: 1521.
607	S.A. Ameen, M.S. Karim, & A.H. Omran Alkhayatt, (2025). “Fabrication of Au/ZnO:Ga-polystyrene nanocomposite Schottky diodes for gamma radiation sensing and detection: impact of Ga dopant content.” *Journal of Nanoparticle Research* 27: 195.
606	S.A. Ameen, M.S. Karim, & A.H.O. Alkhayatt (2025). “The impact of gallium dopant on the structure, surface morphology, optical band gap and photoluminescence properties of ZnO-polystyrene nanocomposites.” *Journal of Sol-Gel Science and Technology* 115: 651-662.
605	L.F. Aguilera, L.O. Araujo, W.M. Facchinatto, R.G. Lima, M.D.S. Pontes, J.H.V. Pulcherio, C.S.A. Caires, K.T. de Oliveira, S.L. de Oliveira, & A.R.L. Caires (2025). “Blue-Light Photoactivated Curcumin-Loaded Chitosan Nanoparticles Prepared by Nanoprecipitation and Ionic Gelation: A Promising Approach for Antimicrobial Photodynamic Inactivation.” *ACS Applied Bio Materials* 8 (5): 4055-4064.
604	B.E. Watson, M.L. Waugh, N.J. Foreman, & M.A. Moss (2025). “Influence of Alzheimer’s associated Aβ oligomers and oxidative stress on blood–brain barrier dysfunction.” *Tissue Barriers* Available Online.
603	V. Gareyan, N. Margaryan, & Z. Gevorkian (2025). “Modern Theoretical Approach for Description of Antireflectivity.” *Physics of Particles and Nuclei* 56: 1439–1443.
602	R. Abbas, E. Salim, & R. Mahdi (2025). “Study based on micro and nanosized raw materials using the hydrothermal method.” *International Journal of Nanoelectronics and Materials* 18 (1): 141–149.

Customer Publication List - October, 2025

601	K. Gündoğan & D. Karaağaç (2025). “Multi-Walled Carbon Nanotube (MWCNT)-Reinforced Polystyrene (PS) Composites: Preparation, Structural Analysis, and Mechanical and Thermal Properties.” *Polymers* 17 (14): 1917.
600	R.R.M.B. Côrtes-Bogniotti, F.O.S. Ribeiro, M.G. Cardoso, B.S. Sá, J.P.F. Longo, D. da Silva Carvalho, D.C. de Oliveira-Neto, F.C.D.A. Lima, A. Batagin-Neto, D.D.R. Arcanjo, A. Durazzo, M. Lucarini, D.A. da Silva, A.G. Vasconcelos, & J.R.S.A. Leite (2025). “Green synthesis of silver nanoparticle composites with cashew gum and curcumin: Development of nano-structured products based on natural polymer for forensic human identification applications.” *International Journal of Biological Macromolecules* 321 (Pt 2): 146199.
599	B.S. Faris, B.H. Hamza, & A.N. Abd (2025). “Antimicrobial potential of polymer-based bio-nanocomposites using infrared thermography and molecular Insilico of SnO2 against pathogens.” *Applied Nanoscience* 15: 31.
598	M. Coplan, M. Gürsoy, E.S. Mercan, & M. Karaman (2025). “Pressure-sensitive adhesive thin films with tailored properties via solvent-free plasma deposition of EHA/AA copolymers.” *Applied Surface Science* 714: 164514.
597	H. Kim, S. Kim, & C. Park (2025). “Development of ceramic hollow-fiber nanofiltration membranes containing a functionalized MoS_2 nanomaterial for semiconductor wastewater treatment.” *Separation and Purification Technology* 374: 133702.
596	I. Barauskienė, M.A. Fendrich, M. Orlandi, A. Chesini, N. Bazzanella, A. Miotello, E. Valatka, & G. Laukaitis (2025). “Study on crystallinity of iron oxide coatings obtained by magnetron sputtering to form efficient thin-film catalysts for oxygen evolution.” *Ceramics International* Available Online.
595	J. Kim, D. Lee, S. Lee, J. Lee, Y. Choi, S. Lee, M.-H. Hwang, C. Boo, & Y. Kim (2025). “Isothermal membrane distillation using omniphobic membranes for enhanced ammonia recovery from anaerobic digestion sludge leachate.” *Separation and Purification Technology* 370: 133282.

Customer Publication List - October, 2025

594	K. Yılmaz, M. Gürsoy, & M. Karaman (2025). “Large-Area Deposition of Hydrophobic Poly(hexafluorobutyl Acrylate) Thin Films on Wetting-Sensitive and Flexible Substrates via Plasma-Enhanced Chemical Vapor Deposition.” *Polymers* 17 (6): 791.
593	K. Ozel, S. Gürakar, T. Serin, & A. Yildiz (2025). “Annealing Temperature-Driven Evolution of Structure, Morphology, and Optical Behavior in Cu-TiO_2 Composite Films.” *Silicon* Available Online.
592	S. Salas-Rodríguez, F.I. González-Moreno, R.M. Woo-García, A.L. Herrera-May, F. López-Huerta, & F. Caballero-Briones (2025). “Defect Tailoring in HfO_2/Si Films upon Post-Deposition Annealing and Ultraviolet Irradiation.” *Applied Sciences* 15 (3): 1573.
591	R.R.L. Rodrigues, J.M.S. de Sousa, A.L.S. Dos Santos, V.M.R. de Souza, Y.A.A. Machado, T.A. de Lima Nunes, M.V. da Silva, A.R. de Araújo-Nobre, R.S.A. de Araújo, F.J.B. Mendonça Junior, L.M.D.C. Veras, K.A.D.F. Rodrigues (2025). “Evaluation of SB-83, a 2-amino-thiophene derivative, against Leishmania species that cause visceral leishmaniasis.” *International Immunopharmacology* 148: 114106.
590	S. Ertosun, V. Aylanc, A.F. Peixoto, A. Santamaria-Echart, P. Russo-Almeida, C. Freire, & M. Vilas-Boas (2025). “Structural Characterization of Microcapsules from Common Bee Pollen for the Development of Delivery Systems.” *Journal of Polymers and the Environment* 33: 1171–1184.
589	B.S. Faris, A.N. Abd, & B.H. Hamza (2025). “Synthesis of tin (II) oxide nanoparticles using laser ablation in deionised water and their antimicrobial properties.” *Applied Nanoscience* 15: 16.
588	A. Shea, S. Oneida, K.V. Waynant, & M.T. Bernards (2025). “Polyampholyte Thin Film Hydrogels for the Prevention of Ralstonia pickettii Adhesion.” *Langmuir* 41 (37): 25454-25463.
587	F. Wang, D.K. Behera, K. Friedman, J. Lyu, S. Li, & M. Yu (2025). “Heterogeneous Facilitated Transport Membrane via Ionic Liquid-Mediated Interfacial Polymerization for CO_2 Separation.” *Advanced Functional Materials* 35 (36): 2422445.

Customer Publication List - October, 2025

586	Y. Tseng, C.A. Occhialini, Q. Song, P. Barone, S. Patel, M. Shankar, R. Acevedo-Esteves, J. Li, C. Nelson, S. Picozzi, R. Sutarto, & R. Comin (2025). “Shear-Mediated Stabilization of Spin Spiral Order in Multiferroic NiI_2.” *Advanced Materials* 37 (9): 2417434.
585	Z. Sui, W. Wang, Y. Huang, X. Pi, D. Yang, & W. Lu (2025). “Efficient polarity recognition in p-type 4H-SiC single crystals using pull-off force signatures.” *CrystEngComm* 27: 6949-6955.
584	R. Xue, X. Liu, Y. Yang, X. Zhu, & T. Li (2025). “The optical, dielectric and non-Ohmic properties of La-modified $CdCu_3Ti_4O_{12}$ thin films.” *Journal of Alloys and Compounds* 1036: 181738.
583	R.A. Al-Rawe, B. Alsheekhly, H.M. AL-Rammahi, A. Alhasan, & A. Ma’amor (2025). “Harnessing antarctic Krill for nano-fluorapatite synthesis: A novel biomimetic approach for dental applications.” *Journal of the Indian Chemical Society* 102 (8): 101845.
582	D. Regmi, S. Haque, M.R.U. Karim, A. Stanic, & D. Du (2025). “Inhibition of amyloid formation of prion fragment (106-128) by polyphenolic compounds.” *Biochimica et Biophysica Acta (BBA) - General Subjects* 1869 (5): 130778.
581	B. Del Angel-Hernández, R.D. Martínez-Orozco, R. García-Alamilla, A. I. R. d. l. Torre, E. Terrés, & U. Páramo-García (2025). “Synthesis of Titanium Dioxide Photoanodes by Anodization in a Sodium Chloride Electrolyte.” *Inorganics* 13 (5): 133.
580	F. Chen & C. Zheng. (2025). “Cost-effective, durable anti-smudge coatings via epoxy resins: Simplified formulation and exceptional durability.” *Materials Today Communications* 46: 112511.
579	V.M. Tena-Santafé, L. Kyriakou, M.D. Oliva, L. Sánchez, J.M. Fernández, Í. Navarro-Blasco, & J.I. Álvarez. (2025). “Durability and air-depolluting performance of lime-based mortars treated with water- and oil-repellent coatings Incorporating Nano-Zn_2TiO_4–ZnO and Nano-$Bi_{12}ZnO_{20}$–ZnO.” *Surfaces and Interfaces* 76: 107879.
578	L. Zhang, E. Zhu, A. Coronel-Zegarra, D.R. Somu, S. Dhar, V. Merk, X. Zhang, & R. Wang. (2025). “Development of a Ti_3C_2 MXene-AgNPs-based SERS platform for ionophore-based ion-selective detection.” *Sensors and Actuators B: Chemical* 433: 137524.

Customer Publication List - October, 2025

577	Z. Ma, T. Wu, Q. Li, K. Sun, C. Wu, X. Jiang, Z. Yu, & Z. Lan. (2025). “Dynamic magnetization resonance enhancement of Co-based soft magnetic thin films induced by two-step oblique angle deposition.” *Journal of Alloys and Compounds* 1043: 184227.
576	K.A.B. Nogueira, A.V.F. Reis, J.I.S. Miranda, A.D.S. Pereira, F.O.S. Ribeiro, A.R. de Araujo Nobre, J.O. Eloy, I.J. da Silva Júnior, R. Petrilli (2025). “Physical methods associated with liposomes and immunoliposomes improve the topical delivery of Chloroaluminum Phthalocyanine.” *Colloids and Surfaces B: Biointerfaces* 256 (Pt 1): 114978.
575	H. Mingjun, J. Shize, S. Yiren, & Z. Kai (2025). “Understanding the low-temperature fracture behavior of rejuvenated high viscosity modified asphalt utilizing a combined microstructure-component analysis.” *Construction and Building Materials* 471: 140717.
574	E. Beyazay, N. Şahin, Y. Karabul, M. Kılıç, & Z.G. Özdemir (2025). “The addition of Bi_2WO_6 nanoparticles to polyvinyl alcohol film: Improvements in optical, mechanical, and electrical properties.” *Physica B: Condensed Matter* 696: 416650.
573	X. Feng, L. Fu, J. Wei, C. Wu, H. Zhang, L. Chen, X. Yu, Y. Li, & X. Tang. (2025). “Germination-induced nanoarchitectonic assembly of quinoa protein at neutral pH and its aerogels for microplastic removal.” *Journal of Colloid and Interface Science* 703 (Pt 1): 139058.
572	R.-S. Zdrehus, T. Mocan, L.I. Sabau, C.T. Matea, F. Tăbăran, T. Pop, C. Delcea, O. Mosteanu, & L. Mocan (2025). “CEA-Functionalized Gold Nanoparticles as a Nanovaccine Platform: In Vitro Evaluation of Cytocompatibility, Cellular Uptake, and Antigen Processing.” *Vaccines* 13 (7): 668.
571	C. Lee, J. Park, & D. Choi (2025). “Highly thermostable and visibly transparent Cu-thin-film planar heaters.” *Applied Surface Science Advances* 27: 100747.
570	X. Zhang, X. Zhang, W. Zhou, M. Tang, T. Wang, K. Le, & W. Xi (2025). “Modified multilayered porous titanium scaffolds with silicon-doped coating surface-loaded BMP-2 prepared by microarc oxidation for bone defect repair.” *Surface and Coatings Technology* 495: 131570.

Customer Publication List - October, 2025

569	J. Yun, E. Jeong, G. Kang, J.-S. Bae, S.-G. Lee, S.M. Yu, J. Jo, C. Lee, G.-H. Lee, & D. Choi (2025). “Effects of ultrathin ZnO and ZnS interlayers on Ag wetting and adhesion behaviors.” *Surfaces and Interfaces* 74: 107700.
568	Y. So & C. Park (2025). “Innovative bismuth oxyiodide-coated tubular ceramic nanofiltration membrane for improved treatment of semiconductor wastewater.” *Separation and Purification Technology* 361 (Pt 3): 131553.
567	M.I. Hasan & S. Aggarwal (2025). “Matrix matters: How extracellular substances shape biofilm structure and mechanical properties.” *Colloids and Surfaces B: Biointerfaces* 246: 114341.
566	E.A.O. Farias, G.E. de Almeida, I.C.Araújo, A.R. de Araujo-Nobre, N.J.S. Furtado, L.C.C. Nunes, & C. Eiras (2025). “Screen-printed electrode modified with a composite based on Amburana cearensis gum, multi-walled carbon nanotubes, and gold nanoparticles for electrochemical determination of total isoflavones in soybean cultivars.” *Journal of Solid State Electrochemistry* 29: 1121–1137.
565	**Conference paper:** Z. Ma, T. Wu, Q. Li, K. Sun, C. Wu, X. Jiang, Z. Yu & Z. Lan (2025). “Origin of coercivity and high-frequency magnetic properties in patterned $Co_{90}Nb_{10}$ thin films.” *Journal of Physics: Conference Series, 10th International Conference on Mechanical Structures and Smart Materials (ICMSSM 2025)*, 3061: 012027
564	**Conference paper:** M. Deliorman, P. Sukumar, M. Meleties, A.L. Wang, J.K. Montclare, & M.A. Qasaimeh (2025). “Controlled AFM Stage Cooling Enables Nanomechanical Characterization of Intracellularly Assembled Coiled-Coil Hydrogels.” *International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS)*, West Lafayette, IN, USA, pp. 1-6.
563	**Book chapter**: B. Ilyas (2025). “Discovery of Monolayer van der Waals Multiferroic.” In: *Coherent Terahertz Control and Ultrafast Spectroscopy of Layered Antiferromagnets*. Springer Theses. Springer, Cham.
562	**Thesis:** L.R.P.D.M. Don (2025). “*Topological Surface States of Intrinsic Superlattice Bi_2-Bi_2Se_3 Under Ambient Conditions by Conducting Atomic Force Microscopy and Analysis of Optical Band Gap Energies of Bi_2Se_3/In_2Se_3 Superlattice*.” Miami University, Master's Thesis.

Customer Publication List - October, 2025

561	**Thesis:** N. Price (2025). "*Growth and characterization of α-ta thin films for superconducting qubit applications*." Miami University, Master's Thesis.
560	**Thesis:** E. Jaradat (2025). "*Microfluidic platforms for the production of nanoliposomes for cancer therapy*." Queen's University Belfast, Doctoral Thesis.
559	Y. Liu, Y.S. Kim, X. Xue, Y. Miao, N. Kobayashi, S. Sun, R.Z. Yan, Q. Yang, O. Pourquié, & J. Fu (2024). "A human pluripotent stem cell-based somitogenesis model using microfluidics." *Cell Stem Cell* 31 (8): 1113 - 1126.e6.
558	J. Lim, S.H. Joo, H. Kim, & D. Choi (2024). "Overcoming the Tradeoff of Visible Transparency and Electrical Conductance via Dual Smoothing of Dielectric/Metal Interfaces in Cu-Thin-Layer-Based Transparent Electrodes." *ACS Applied Materials & Interfaces* 16 (44): 61314–61321.
557	S. Cohen, I. Chajanovsky, & R.Y. Suckeveriene (2024). "Novel Preparation and Characterization of Zinc Ricinoleate Through Alkali Catalysis." *Polymers* 16 (21): 3016.
556	F.H. Mahdi & A.N. Al-Shadeedi (2024). "Effect of ZnO Doping on the Humidity Sensing Properties of the PVDF/PVA Polymeric Blend Films." *Semiconductors* 58: 882–893.
555	D.L.S. Oliveira, A.D. Leão, F.O.S. Ribeiro, A.R. Araújo, P.P.J.C.O. Silva, J.L. Soares-Sobrinho, E.S. Araújo, R.F.S. Santos, & K.A.S. Aquino (2024). "Magnesium layered double hydroxide nanofiller in PMMA exposed to gamma irradiation." *Polímeros: Ciência e Tecnologia* 34 (4): e20240043.
554	H. Lee, S. Lee, S. Cha, G. Anoop, & H. Shin (2024). "Nanoscale Electron Beam Patterning of PEDOT:PSS Free-Standing Films for Enhanced Thermoelectric Performance." *Energy & Environmental Materials* 8 (2): e12824.
553	Z. Jiang, L. Huang, H. Ma, S. Zhang, X. Le, Jinxing Song, S. Wang, Q. He, J. Lu, Y. Hou, X. Zhan, F. Gao, & Q. Zhang (2024). "Surface Microphase Separation and Water-Induced Reconstruction of Fluorinated Amphiphilic Copolymer Coatings for Soil Release Fabrics." *ACS Applied Polymer Materials* 6 (1): 1044–1054.

Customer Publication List - October, 2025

552	N. Lee, P. Pujar, & S. Hong (2024). “Low-Cost, High-Efficiency Aluminum Zinc Oxide Synaptic Transistors: Blue LED Stimulation for Enhanced Neuromorphic Computing Applications.” *Biomimetics* 9 (9): 547.
551	L. Yuan & H. Dehghanpour (2024). “Experimental Evidence on Nanoparticle Adsorption and Wettability Alteration for Enhancing Oil Recovery from Tight Rocks.” *Industrial & Engineering Chemistry Research* 63 (2): 1122–1137.
550	R.E. de Sá, G.S. Araújo, F.S. Machado, D.D. Araújo, R.E. da Silva, R.F. Santiago, L.T.G. de Almeida, J.D.B.M. Filho, A.R. de Araújo, M.H. Chaves, & A.J. Araújo (2024). “Chemical composition, antibacterial and cytotoxic activities of essential oil obtained from aerial parts of *Aeschynomene denticulata* Rudd.” *Biocatalysis and Agricultural Biotechnology* 54: 102908.
549	I. Barauskienė, G. Laukaitis, & E. Valatka (2024). “Stainless steel as an electrocatalyst for overall water splitting under alkaline and neutral conditions.” *Journal of Electroanalytical Chemistry* 950: 117880.
548	A.A. Kadhim, M.A. Al-Da’amy, S.H. Kadhim, & E.T. Kareem (2024). “Removing Basic Fuchsine Dye by Adsorption over $CuCo_2O_4$ Nanocomposite as an Active Adsorbent Surface.” *Baghdad Science Journal* 21 (7): 2275-22888.
547	N. Şahin, E. Beyazay, Y. Karabul, M. Kılıç, K. Esmer, & Z.G. Özdemir (2024). “LDPE/Bi_2O_3 nanocomposites: Enhanced mechanical, dielectric, and optical properties.” *Journal of Applied Polymer Science* 141 (12): e55126.
546	N. Zhao, Y. Sun, H. Zhang, W. Fan, & C. Wan (2024). “Reinforcement mechanisms of lignin nanoparticles in biodegradable cellulosic films for plastic replacements.” *Sustainable Materials and Technologies* 39: e00833.
545	E. Jaradat, A. Meziane, & D.A. Lamprou (2024). “Conventional *vs* PEGylated loaded liposomal formulations by microfluidics for delivering hydrophilic chemotherapy.” *International Journal of Pharmaceutics* 655: 124077.

Customer Publication List - October, 2025

544	X. Meng, C. Song, Z. Xing, M.J.L. Arias, J. Yan, Q. Ren, Y. Xiang, & L. Liang (2024). “ZIF-8/GO/PDMS modified cotton fabric to form a hierarchical-structure coating for fast oil/water separation.” *Journal of Water Process Engineering* 60: 105158.
543	H. Haddad, R. Mejri, & A. Zaïri (2024). “Evaluation of the Antibacterial Activity of New Dermaseptin Derivatives against *Acinetobacter baumannii*.” *Pharmaceuticals* 17 (2): 171.
542	T. Manutsyan, S. Blbulyan, A. Vassilian, T. Semashko, G. Kirakosyan, L. Gabrielyan, K. Trchounian, & A. Poladyan (2024). “Gold nanoparticles activate hydrogenase synthesis and improve heterotrophic growth of *Ralstonia eutropha* H16.” *FEMS Microbiology Letters* 371: fnad138.
541	A.A. Aguilar-Ruiz, R.G. Sánchez-Duarte, G.E. Dévora-Isiordia, Y. Villegas-Peralta, J. Álvarez-Sánchez, & V.M. Orozco-Carmona (2024). “Effectiveness of green coatings as a possible protection barrier against corrosion.” *MRS Advances* 9: 193–198.
540	A. Laventure, S. Brixi, G.C. Welch, & B.H. Lessard (2024). “Stability assessment of PTB7-Th and a quinoxaline-based polymer in both organic thin film transistors and in organic photovoltaic devices.” *The Canadian Journal of Chemical Engineering* 102 (12): 4129.
539	E. Jaradat, A. Meziane, & D.A. Lamprou (2025). “Paclitaxel-loaded elastic liposomes synthesised by microfluidics technique for enhance transdermal delivery.” *Drug Delivery and Translational Research* 15: 1265–1283.
538	J.N. Dias, F.A.H. Erazo, L.J. Bessa, P. Eaton, J.R.S.A. Leite, H.C. Paes, A.M. Nicola, I. Silva-Pereira, & P. Albuquerque (2024). “Synergic Effect of the Antimicrobial Peptide ToAP2 and Fluconazole on *Candida albicans* Biofilms.” *International Journal of Molecular Sciences* 25 (14): 7769.
537	L.R.M. de Lima, M.F.S. Silva, G.S. Araújo, F.O.S. Ribeiro, I.S. Ribeiro, C. Pessoa, R.N.C. Filho, J.D.B.M. Filho, A.J. Araújo, D.A. da Silva, J.P.A. Feitosa, & R.C.M. de Paula (2024). “Doxorubicin-galactomannan nanoconjugates for potential cancer treatment.” *Carbohydrate Polymers* 342: 122356.

Customer Publication List - October, 2025

536	J.M.N.A. Bezerra, A.C.J. Oliveira, A.D. Leão, F.O.S. Ribeiro, E.F.O. Borba, F. Hallwass, T.G. da Silva, D.A. da Silva, P.J. Rolim-Neto, E.C. Silva-Filho, M.F. de La Roca Soares, & J.L. Soares-Sobrinho (2024). "Phthalated cashew gum-based polyelectrolyte complex for oral insulin delivery." *Journal of Drug Delivery Science and Technology* 100: 106015.
535	Y. He, C. Guo, Y. Le, Y. Kai, L. Chen, & H. Yang (2024). "Preservation of shrimp quality using slightly acid electrolysed water combined with grape seed extract: Microbiological and quality analyses with proteomic insights." *Food Bioscience* 60: 104333.
534	L.S. Chaves, A.C.P. Oliveira, S.S. Pinho, G.C. Sousa, A.P. Oliveira, A.L.F. Lopes, G. Pacheco, I.R.S.G. Nolêto, L.A.D. Nicolau, F.O.S. Ribeiro, V.G. Sombra, T.D.S. Araújo, J.R.S.A. Leite, E.H.P. Alves, D.F.P. Vasconcelos, J.D.B.M. Filho, R.C.M. Paula, D.A. Silva, & J.V.R. Medeiros (2024). "Gastroprotective activity and physicochemical analysis of carboxymethylated gum from *Anadenanthera colubrina*." *International Journal of Biological Macromolecules* 260 (Pt 1): 129397.
533	P.S.A. Sousa, R.R.L. Rodrigues, V.M.R. de Souza, S.S..M. Araujo, M.S.C.R. Franco, L.B.P. dos Santos, F.O.S. Ribeiro, J.R.P. Junior, A.R. de Araujo-Nobre, K.A.F. Rodrigues, D.A. da Silva, J.P.A. Feitosa, M.L.G. Perfeito, L.M.C. Véras, J.A. Rocha (2024). "Antimicrobial activity of nanoparticles based on carboxymethylated cashew gum and epiisopiloturine: In vitro and in silico studies." *International Journal of Biological Macromolecules* 274 (Pt 2): 133048.
532	R.A. Milescu, C.R. McElroy, E.J. Taylor, P. Eaton, P.M. Williams, R. Phillips, T.J. Farmer, & J.H. Clark (2024). "Sustainable nanomaterials: the role of Cyrene in optimising carbon nanotubes dispersion and filtration efficiency." *Frontiers in Chemistry* 12: 1498279.
531	E.P.A. do Nascimento, F.O.S. Ribeiro, R.R.L. Rodrigues, K.A.F. Rodrigues, P.S.A. Sousa, J.A. Rocha, F.C.E. Oliveira, C. Pessoa, L.R.M. de Lima, C.R.N. Ferreira, R.C.M. de Paula, J.P.A. Feitosa, E.C.S. Filho, A.R. de Araujo-Nobre, D.A. da Silva (2024). "Synthesis and characterization of new quaternized galactomannan derivatives with antibacterial activity." *International Journal of Biological Macromolecules* 283 (Pt 2): 137693.

Customer Publication List - October, 2025

530	Y. He, C. Guo, Y. Le, Y. Kai, L. Chen, & H. Yang (2024). “Preservation of shrimp quality using slightly acid electrolysed water combined with grape seed extract: Microbiological and quality analyses with proteomic insights.” *Food Bioscience* 60: 104333.
529	Z. Jiang, H. Ma, S. Zhang, X. Le, F. Gao, L. Song, J. Song, S. Wang, B. Chen, H. Wang, X. Zhan, & Q. Zhang (2024). “Durable and soap-free fluorinated amphiphilic copolymer coatings for stainproof and soil release fabrics.” *Progress in Organic Coatings* 197: 108760.
528	A. Lobito, C. Colaço, J. Costa, J. Caldeira, L. Proença, & J.J. Mendes (2024). “In Vitro Evaluation of Surface Roughness and Color Variation after Two Brushing Protocols with Toothpastes Containing Different Whitening Technologies.” *Applied Sciences* 14 (10): 4053.
527	A.S. Abbood & I.J. Ibraheem (2024). “Polyaniline Nano Films Synthesis in One Step *via* Chemical Oxidative Polymerization.” *Baghdad Science Journal* 21 (2): 0401-0409.
526	Z. Wu, B.V.N. Sewwandi, X. Chen, G. Perera, L. Jayarathna, A.C.A. Jayasundara, & R. Weerasooriya (2024). “Forward osmosis membrane with lightweight functionalised multiwall carbon nanotube nanofillers.” *Environmental Technology* 46 (9): 1507–1518.
525	E.M.A. Braz, S.C.C.C. Silva, M.M.M. Alves, F.A.A. Carvalho, R. Magalhães, J.A. Osajima, D.A. Silva, A.L. Oliveira, E.C. Muniz, & E.C. Silva-Filho (2024). “Chitosan/collagen biomembrane loaded with 2,3-dihydrobenzofuran for the treatment of cutaneous Leishmaniasis.” *International Journal of Biological Macromolecules* 280 (Pt 4): 135995.
524	G.S. de Araújo, A.F. Moura, A.B. Barros, M.O. Moraes, C. Pessoa, C.N. Perez, M.R.C. de Castro, F.O.S. Ribeiro, D.A. da Silva, P.S.A. Sousa, J.A. Rocha, J.D.B.M. Filho, & A.J. Araujo (2024). “Sulfonamide-chalcone hybrid compound suppresses cellular adhesion and migration: Experimental and computational insight.” *Chemico-Biological Interactions* 398: 111115.
523	M. Liao, A. Cammarata, & T. Polcar (2024). “Charge-induced ultralow friction between graphite and atomically flat surfaces.” *Carbon* 223: 119036.

Customer Publication List - October, 2025

522	N. Lee, P. Pujar, & S. Hong (2024). “High-Efficiency Aluminum Zinc Oxide Synaptic Transistors: Blue LED Stimulation for Enhanced Neuromorphic Computing Applications.” *Biomimetics* 9 (9): 547.
521	S. Newacheck, N.U. Huynh, & G. Youssef (2024). “Mechano-electro-magneto-optical properties of giant PCBM crystals.” *Materials Research Innovations* 29 (4): 199–205.
520	C.E. Peñuela-Cruz, J.A.D. De la Peña, A. Márquez-Herrera, R. Mis-Fernández, F. Caballero-Briones, F.I. González-Moreno, J. Moreno-Palmerín, & E. Hernández-Rodríguez (2024). “Synthesis of composite coatings based on Mg and Ti oxides by PEO for modulation of Mg corrosion resistance.” *Journal of Materials Research and Technology* 33: 1801-1808.
519	S.H. Joo & D. Choi (2024). “Numerical evaluation of grain boundary electron scattering in molybdenum thin films: A critical analysis for advanced interconnects.” *Vacuum* 222: 113025.
518	M.L.V.A. Costa, M.C.S. Neto, P.H.S. Fialho, S.C.R. Costa, A.R. de Araújo-Nobre, A.P. Lopes, A.K.S. Meneses, S.G. de Lima, G.C. Vale, M.J.S. Soares, A.L.M. de Carvalho, & P.V. Quelemes (2024). “Effect of zinc oxide-eugenol endodontic paste on planktonic aggregates and biofilm of *Enterococcus faecalis* - An atomic force microscopy evaluation.” *Microbial Pathogenesis* 196: 106965.
517	B. Langa, I. Lainez, M. Marte, P. Johnson, N. Mehta, D. Kulkarni, M. Ghimire, D. Hensley, B. Srijanto, C. Sosolik, & K. Sardashti (2024). “Multiply-charged argon ion irradiation of microfabricated niobium wires.” *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 556: 165511.
516	F.I. González-Moreno, R.V. Tolentino-Hernández, & F.J. Espinosa-Faller (2024). “Optical, structural and morphology study of Cu_2O/Cu and GO/Cu_2O/Cu films prepared by pulsed electrodeposition and electrophoresis.” *Journal of Physics: Conference Series* 2699: 012017.
515	A. Nedelcu, T. Mocan, L.I. Sabau, C.T. Matea, F. Tabaran, T. Pop, C. Delcea, O. Mosteanu, & L. Mocan (2024). “In vitro photothermal therapy of pancreatic cancer mediated by immunoglobulin G-functionalized silver nanoparticles.” *Scientific Reports* 14: 14417.

Customer Publication List - October, 2025

514	N.Q. Mohammed & H.H. Murbat (2024). “Polymethyl methacrylate (PMMA) surface treatment by DBD cold atmospheric plasma in air.” *AIP Conference Proceedings* 3036 (1): 050022.
513	S. Newacheck, N.U. Huynh, & G. Youssef (2024). “Tunable and switchable magnetoresistance of P3HT:PCBM organic framework.” *Materials Letters* 363**:** 136258.
512	P. Correia, P. Araújo, A. Plácido, A.R. Pereira, L.J. Bessa, N. Mateus, V. de Freitas, J. Oliveira, & I. Fernandes (2024). “Light-activated amino-substituted dyes as dual-action antibacterial agents: Bio-efficacy and AFM evaluation.” *Dyes and Pigments* 224**:** 111975.
511	Y. Lee, J. Lee, Y. So, S. Kim, & C. Park (2024). “Mxene-based ceramic nanofiltration membranes for selective separation of primary contaminants in semiconductor wastewater.” *Separation and Purification Technology* 331**:** 125653.
510	D.R. Somu, M. Fuentes, L. Lou, A. Agarwal, M. Porter, & V. Merk, (2024). “Revealing chemistry-structure-function relationships in shark vertebrae across length scales.” *Acta Biomaterialia* 189: 377-387.
509	D. Pousty, B. Ma, C. Mathews, M. Halanur, H. Mamane, & K.G. Linden (2024). “Biofilm inactivation using LED systems emitting germicidal UV and antimicrobial blue light.” *Water Research* 267**:** 122449.
508	P. Gaso, D. Jandura, S. Bulatov, D. Pudis, & M. Goraus (2024). “Advancing Atomic Force Microscopy: Design of Innovative IP-Dip Polymer Cantilevers and Their Exemplary Fabrication via 3D Laser Microprinting.” *Coatings* 14 (7)**:** 841.
507	E. Khodabakhshi & S.O.R. Moheimani (2024). “Video-rate AFM Imaging Using Signal Transformation Technique for Raster Scanning.” *IFAC-PapersOnLine* 58 (28): 600-605.
506	R.S Rashed, M.A. Fakhri, A.A. Alwahib, M.A. Qaeed, & S.C.B. Gopinath (2024). “Physical Investigations of GaN/Porous Silicon at Different Laser Wavelengths.” *International Journal of Nanoelectronics and Materials* 17**:** 77-86.

Customer Publication List - October, 2025

505	N. Yu, W. Zuo, L. Ma, J. Yang, & H. Katas (2024). “Tailoring oleogel-in-hydrogel pickering emulsion fluid gels as an oral delivery system for different levels of dysphagia: From microstructure to rheological properties.” *Food Hydrocolloids* 156**:** 110265.
504	H.M. Talib, A.A. Yousif, & A.H.O. Alkhayatt (2024). “Structural, surface morphology and novel gas sensing properties of chemically deposited CdS-PVA nanocomposites; Impact of thiourea content.” *Chemical Physics Impact* 8**:** 100529.
503	R.A. Abbas, E.T. Salim, & R.O. Mahdi (2024). “Morphology transformation of Cu_2O thin film: different environmental temperatures employing chemical method.” *Journal of Materials Science: Materials in Electronics* 35: 1057.
502	K. Yu, C. Peng, L. Shang, & D. Tafti (2024). “Elastic-plastic collision mechanism of micron-sized particle impacting rough surfaces.” *Powder Technology* 442**:** 119903.
501	H.M. Talib, A.A. Yousif, & A.H.O. Alkhayatt (2024). “The impact of thiourea concentration on the Structural, surface morphologyand optical characterization of chemically deposited CdS-PVA nanocomposites thin films.” *Results in Optics* 15**:** 100641.
500	A.A. Al-allaq, J.S. Kashan, A. Abdal-Hay, & H. Fouad (2024). “Synthesis and characterization of nano-biocomposite (PMMA-hydroxyapatite - $CaZrO_3$) for bone tissue engineering.” *Polymer-Plastics Technology and Materials* 63 (11): 1464–1473.
499	N. Al Ansari, & M. Abid (2024). “Enhancing Presurgical Infant Orthopedic Appliances: Characterization, Mechanics, and Biofilm Inhibition of a Novel Chlorhexidine-Halloysite Nanotube-Modified PMMA.” *International Journal of Biomaterials* 6281972.
498	Z.S. Shakir, S.K. Yaseen, & A.A.R. Dhaigham (2024). “Comparison of Surface-Enhanced Raman Scattering in Colloidal Silver Nanostar and Colloidal Silver Nanocubes.” *Baghdad Science Journal* 21 (10): Article 13.
497	A. Mahdi & F.A. Al-Saymari (2024). “Enhancement of electrical and photo-electrical properties of P3HT:$CrCl_2$ thin films for photo sensing applications.” *Physica Scripta* 99 (8)**:** 085517.

Customer Publication List - October, 2025

496	P. Rachtanapun, S. Thanakkasaranee, P. Singjai, K. Jantanasakulwong, D. Boonyawan, N. Tanadchangsaeng, P.Worajittiphon, S. Photphroet, R. Panyathip, & G. Kasi (2024). “Water-resistant properties improvement of aluminium oxide nanoparticles treated kraft paper by sparking process.” *Materials Chemistry and Physics* 326**:** 129823.
495	E. Kutlu-Narin, P. Narin, B. Emre, & S.B. Lisesivdin (2024). “Influence of pH value of precursor on growth, structural, and optical properties of Cu_2O thin films grown in Mist-CVD.” *Physica B: Condensed Matter* 681**:** 415860.
494	B.G. Duersch, S.A. Soini, Y. Luo, X. Liu, S. Chen, & V.M. Merk (2024). “Nanoscale elemental and morphological imaging of nitrogen-fixing cyanobacteria.” *Metallomics* 16 (10): mfae040.
493	M. Coplan, M. Yorulmaz, M. Gürsoy, & M. Karaman (2024). “Synthesis and characterization of stretchable isoprene-acrylic acid copolymer thin films.” *Progress in Organic Coatings* 196**:** 108741.
492	X. Lou, W. Shu, Y. Wang, C. Guo, H. Liu, & H. Yang (2024). “Effect of slightly acidic electrolysed water against *Shewanella baltica* in phosphate-buffered saline and on golden pomfret sticks.” *Food Control* 156**:** 110131.
491	M.H. Mruthunjayappa, C. Shachar, A. Imbar, O.A. Menashe, & H. Mamane (2024). “Cellulose acetate and polycaprolactone based photoactive ultrafiltration membrane: A novel approach with UV-switchable photocatalytic activity.” *Separation and Purification Technology* 329**:** 125102.
490	M.T. Kareem & S.A. Hamdan (2024). “Study of the influence concentration difference in properties of cerium thin films.” *AIP Conference Proceedings* 2922: 240005.
489	E. Weaver, F. Sommonte, A. Hooker, N. Denora, S. Uddin, & D.A. Lamprou (2024). “Microfluidic encapsulation of enzymes and steroids within solid lipid nanoparticles.” *Drug Delivery and Translational Research* 14: 266–279.
488	V. Gareyan, N. Margaryan & Z. Gevorkian (2024). “Nanoroughness-induced antireflection and haze effects in opaque systems.” *Physical Review A* 110 (6): 063523.

Customer Publication List - October, 2025

487	T.V. Sviridova, L.Y. Sadovskaya, & D.V. Sviridov (2024). "Chemiluminescence Study of the Generation of Active Oxygen Species on the Surface of TiO2:MoO3 Charge-Accumulating Photocatalysts." *Journal of Applied Spectroscopy* 91: 984–988.
486	J. Álvarez-Sánchez, G.E. Dévora-Isiordia, C. Muro, Y. Villegas-Peralta, R.G. Sánchez-Duarte, P.G. Torres-Valenzuela, & S. Pérez-Sicairos (2024). "Improved Flux Performance in Brackish Water Reverse Osmosis Membranes by Modification with ZnO Nanoparticles and Interphase Polymerization." *Membranes (Basel)* 14 (10): 207.
485	R.A. Abbas, E.T. Salim, & R.O. Mahdi (2024). "Deposition time effect on copper oxide nano structures, an analysis study using chemical method." *Journal of Materials Science: Materials in Electronics* 35: 427.
484	**Conference paper:** V.R. Gareyan, N.B. Margaryan & Z.S. Gevorkian (2024). "Antireflectivity and diffuse scattering from rough surfaces." *International Conference on Microwave & THz Technologies, Wireless Communications and Optoelectronics (IRPhE 2024)*, Hybrid Conference, Yerevan, Armenia, pp. 1-5.
483	**Thesis:** C. Atkinson (2024). "*New Conjugated Materials for Clean Energy Applications*." University of Calgary, Master's Thesis.
482	**Thesis:** K. Wang (2024). "*Study of Zwitterionic Materials for Biomedical and Energy Storage Applications*." University of Illinois at Chicago, Doctoral Thesis.
481	**Thesis:** H.M. Nasrabadi (2024). "*Active Microcantilevers for Atomic Force Microscopy (AFM)*." The University of Texas at Dallas, Doctoral Thesis.
480	**Thesis:** B.J. Langa Junior (2024). "*Studying Superconducting Thin Films for Quantum Computing Applications*." Clemson University, Master's Thesis.
479	**Thesis:** Q. Song (2024). "*Spectroscopic study of emergent electronic phases in transition metal based compounds*." Massachusetts Institute of Technology, Doctoral Thesis.

Customer Publication List - October, 2025

478	G.O. Bozdag, D.A. Zamani-Dahaj, T.C. Day, P.C. Kahn, A.C. Burnetti, D.T. Lac, K. Tong, P.L. Conlin, A.H. Balwani, E.L. Dyer, P.J. Yunker, & W.C. Ratcliff (2023). “De novo evolution of macroscopic multicellularity.” *Nature* 617**:** 747–754.
477	K. George, M. Esmaeili, J. Wang, N. Taheri-Qazvini, A. Abbaspourrad, & M. Sadati (2023). “3D printing of responsive chiral photonic nanostructures.” *PNAS* 120 (12)**:** e2220032120.
476	H. He, Y. Yuan, Y. Wu, J. Lu, X. Yang, K. Lu, A. Liu, Z. Cao, M. Sun, M. Yu, & H. Wang (2023). “Exoskeleton Partial-Coated Stem Cells for Infarcted Myocardium Restoring.” *Advanced Materials* 35 (52)**:** 2307169.
475	S. Ishii, M.-W. Yu, K.-P. Chen, & T. Nagao (2023). “Observation of Plasmoelectric Effect in Plasmonic Zirconium Nitride.” *Advanced Materials Interfaces* 10 (1)**:** 2201751.
474	D. Son, H. Park, W.-G. Lim, S. Baek, S.H. Kang, J.-C. Lee, T. Maiyalagan, Y.-G. Lee, S. Park, & J. Lee (2023). “Ultrathin Mixed Ionic–Electronic Conducting Interlayer via the Solution Shearing Technique for High-Performance Lithium–Sulfur Batteries.” *ACS Nano* 17 (24)**:** 25507–25518.
473	V. Suthar, M.A. Asare, P. Sahu, & R.K. Gupta (2023). “Sunflower oil-based polyurethane/graphene composite: Synthesis and properties.” *Journal of Thermoplastic Composite Materials* 37 (5): 1667-1689.
472	V.M. Tena-Santafé, J.M. Fernández, C. Fernández-Acevedo, T. Oroz-Mateo, Í. Navarro-Blasco, & J.I. Álvarez. (2023). “Development of Photocatalytic Coatings for Building Materials with Bi_2O_3-ZnO Nanoparticles.” *Catalysts* 13 (11): 1412.
471	K.C.B.F. Oliveira, E.A.O. Farias, P.R.S. Teixeira, V.S. Brandão, R.M. Sábio, A.R. de Araújo, P. Eaton, L.C. Bertolino, M.P. Bemquerer, H.S. Barud, J.R.S.A. Leite, & Carla Eiras (2023). “Development of a Nanostructured Film Containing Palygorskite and Dermaseptin 01 Peptide for Biotechnological Applications.” *Clays and Clay Minerals* 71 (5): 600-615.

Customer Publication List - October, 2025

470	K. Miyazaki, A. Yamaguchi, H. Kusaka, N. Watanabe, A.C. Wardhana, S. Ishii, A. Yamamoto, M. Miyakawa, T. Taniguchi, T. Kondo & M. Miyauchi (2023). “Rhombohedral boron monosulfide as a metal-free photocatalyst.” *Scientific Reports* 13**:** 19540.
469	T. Srisantirut & T. Phetchakul (2023). “Electron cyclotron resonance chemical vapor deposited diamond-like carbon thin films with various acetylene flow rates for heterojunction solar cells with anti-reflective coating.” *Materials Today: Proceedings* Available online.
468	U.P. Agarwal, R.S. Reiner, C. Baez, & S.A. Ralph (2023). “Native state of wood cellulose: evidence that further supports its non-crystalline nature.” *Holzforschung* 77 (5)**:** 305–317.
467	M. Jalali-Mousavi, S.K.S. Cheng, & J. Sheng (2023). “Synthesis of Wrinkle-Free Metallic Thin Films in Polymer by Interfacial Instability Suppression with Nanoparticles.” *Nanomaterials* 13 (6): 1044.
466	M.M. Ghareeb & M.S. Mohammed (2023). “Topical Nanoemulsion-Based Gel Of Isoconazole Nitrate.” *Al Mustansiriyah Journal of Pharmaceutical Sciences* 23 (4): 378-396.
465	J. Ryu, J.-S. Jo, J.-H. Choi, D.-Y. Kim, J. Kim, D.H. Park, & J.-W. Jang (2023). “Aluminum Hydroxide Nano- and Microstructures Fabricated Using Scanning Probe Lithography with KOH Ink.” *ACS Omega* 8 (11): 10439–10448.
464	A.A. Aguilar-Ruiz, G.E. Dévora-Isiordia, R.G. Sánchez-Duarte, Y. Villegas-Peralta, V.M. Orozco-Carmona, & J. Álvarez-Sánchez (2023). “Chitosan-Based Sustainable Coatings for Corrosion Inhibition of Aluminum in Seawater.” *Coatings* 13 (9): 1615.
463	J. Kim, L. Tijing, H.K. Shon, & S. Hong (2023). “Electrically conductive membrane distillation via an alternating current operation for zero liquid discharge.” *Water Research* 244: 120510.

Customer Publication List - October, 2025

462	A.G. Coêlho, J.O.C.S. de Almeida, A.A. dos Santos, W.R.P. dos Santos, L.R. Sousa, N.R. Viana, F.A. Batista, M.S.B. Neta, A.S. Santos, S.W. da Silva, P.E.N. de Souza, A.R. de Araújo-Nobre, J.S. Lima-Neto, A.M.G.L. Citó, F.A.A. Carvalho, M.M.M. Alves, M. Lucarini, A. Durazzo, A.N. Mendes, & D.D.R. Arcanjo (2023). "Solid Lipid Nanoparticles from *Platonia insignis* Seeds, a Brazilian Amazon Fruit: Characterization, In Vitro and In Vivo Toxicological and Antioxidant Activities." *Journal of Composites Science* 7 (9): 368.
461	A. Elniski, P. Dongre, & B.M. Bujanovic (2023). "Lignin Use in Enhancing the Properties of Willow Pellets." *Forests* 14 (10): 2041.
460	J. Disley, G. Gil-Ramírez, P. Eaton, & J. Gonzalez-Rodriguez (2023). "A smart chitosan-graphite molecular imprinted composite for the effective trapping and sensing of dimethyl methylphosphonate based on changes in resistance." *Analyst* 148: 5012-5021.
459	D. Regmi, F. Shen, A. Stanic, M. Islam, & D. Du (2023). "Effect of phospholipid liposomes on prion fragment (106–128) amyloid formation." *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1865 (7): 184199.
458	J. Ghodke, S.I. Ekonomou, E. Weaver, D. Lamprou, O. Doran, & A.C. Stratakos (2023). "The Manufacturing and Characterisation of Eugenol-Enclosed Liposomes Produced by Microfluidic Method." *Foods* 12 (15): 2940.
457	T.H. Mgheer, A.A. Kadhim, Z.A. Hussein, Z.K. Kadhim, M.A.A. Al-Da'amy, A.J. Atiyah, S.H. Kadhim, & S.J. Abbas (2023). "Adsorption of Malachite Green Oxalate Dye by $CuCo_2O_4$/MgO Spinel Oxide Nanocomposite." *Indonesian Journal of Chemistry* 23 (5): 1352-1360.
456	Z.S. Shakir, A.A.R. Dhaigham, & S.K. Yaseen (2023). "Silver Nanoflowers as an Interfacial Liquid-State Surface Enhanced Raman Spectroscopy (SERS) Sensor for Water Pollution." *Iraqi Journal of Laser* 22 (2): 35–43.
455	I.M. Oliveira, I.B. Gomes, A. Plácido, L.C. Simões, P. Eaton, & M. Simões (2023). "The impact of potassium peroxymonosulphate and chlorinated cyanurates on biofilms of *Stenotrophomonas maltophilia*: effects on biofilm control, regrowth, and mechanical properties." *Biofouling* 39 (7): 691-705.

Customer Publication List - October, 2025

454	A.A. Rageh, A.K. Hussein, & L.K. Abbas (2023). “Effect of laser energy and substrate temperature on the optical and structural characteristics of ZnO: Cu thin film.” *AIP Conference Proceedings* 2830: 030019.
453	I.M. Germaine, M.B. Huttel, M.P. Alderman, & L. McElwee-White (2023). “Aerosol-Assisted Chemical Vapor Deposition of MoS_2 with a Thiourea Sulfur Source: Single-Source Precursors vs Coreactant Mixtures.” *ACS Applied Materials & Interfaces* 15 (31): 37764-37774.
452	M.A. de Oliveira, A.B. Barros, G.S. de Araújo, A.R. de Araújo, M. José Dos Santos Soares, D.F. de Oliveira, F.C.D.A. Lima, A. Batagin-Neto, J.R.S.A. Leite, H.P.S.F. Cesário, O.D.L. Pessoa, J.D.B.M. Filho, & A.J. Araújo (2023). “Natural cordiaquinones as strategies to inhibit the growth and biofilm formation of methicillin-sensitive and methicillin-resistant *Staphylococcus* spp.” *Journal of Applied Microbiology* 134 (8): lxad162.
451	F.K. Al-Zuhairi, R.A. Azeez, & Z.M. Shakor (2023). “Biosynthesis of Fe_3O_4 MNPs from *Vicia faba L.* peels: promising catalyst for enhanced biogas production from wheat straw.” *Biomass Conversion and Biorefinery* 14: 30015–30027.
450	Z. Fang, Lv B, J. Zhan, X. Xing, C. Ding, J. Liu, L. Wang, X. Zou, & X. Qiu (2023). “Flexible Conductive Decellularized Fish Skin Matrix as a Functional Scaffold for Myocardial Infarction Repair.” *Macromolecular Bioscience* 23 (12): 2300207.
449	S.A. Muhammed & N.K. Abass (2023). “Biosynthesis and Characterization of CdO: Ag NPs using *Moringa* Leaves Extract for Use as Anti-microbial Activity.” *International Journal of Drug Delivery Technology* 13 (1): 75-80.
448	R.M. Aljarrah, A.M. Naamah, & A.H.O. Alkhayatt (2023). “Concentration of Spraying Solution Effect on the Structural, Morphological and Optical Properties of NiO Thin Films.” *Al-Bahir Journal for Engineering and Pure Sciences* 3 (2): 103-111.
447	J.M.S. de Sousa, T.A.L. Nunes, R.R.L. Rodrigues, J.P.A. de Sousa, M.C.A. Val, F.A.R. Coelho, A.L.S. dos Santos, N.B. Maciel, V.M.R. de Souza, Y.A.A. Machado, P.S.A. Sousa, A.R. de Araújo, J.A. Rocha, D.P. de Sousa, M.V. da Silva, D.D.R. Arcanjo, & K.A.F. Rodrigues (2023). “Cytotoxic and Antileishmanial Effects of the Monoterpene β-Ocimene.” *Pharmaceuticals* 16 (2): 183.

Customer Publication List - October, 2025

446	K. Wang, H. Seol, A. Cheng, N. McKeague, M. Carlson, W. Degraff, S. Huang, & S. Kim (2023). “Simple Bioparticle Filtration Device Based on an Ultralow-Fouling Zwitterionic Polyurethane Membrane for Rapid Large-Volume Separation of Plasma and Viruses from Whole Blood.” *Membranes* 13 (5): 524.
445	N. Azam & M. Mahjouri-Samani (2023). “Time-Resolved Growth of 2D WSe_2 Monolayer Crystals.” *ACS Nano* 17 (13): 12519–12529
444	S.H. Kim, C. Sun, M.A. Saeed, H.-J. Kwon, T.H. Kim, S.-K. Kwon, Y-H. Kim, & J.W. Shim (2023). “Fine-tuning of the inner sidechain of donor polymers for efficient indoor organic photovoltaics.” *Journal of Materials Chemistry A* 11 (23): 12130-12139.
443	D. Wang, B. Jin, S. Chen, Y. Ren, Y. Hou, X. Gao, Q. He, X. Zhan, & Q. Zhang (2023). “Ionic liquid modified carbon nanotubes doped gel polymer electrolyte for fast charging lithium metal batteries.” *Journal of Power Sources* 564: 232847.
442	C. Xu, J. Ding, H. Chen, & X. Wang (2023). “Plasma etched Ag nanospheres for large increases of ZnO fluorescence emission: A combined theoretical-experimental study.” *Ceramics International* 49 (8): 13208-13215.
441	M.A. Atiya, A.K. Hassan, & Z.A. Mahmoud (2023). “Fenton-like degradation of direct blue dye using green synthesised Fe/Cu bimetallic nanoparticles.” *Journal of Environmental Engineering and Science* 18 (1): 43-58.
440	B.M. Kurji & A.S. Abbas (2023). “MCM-48 from rice husk ash as a novel heterogeneous catalyst for esterification of glycerol with oleic acid: Catalyst preparation, characterization, and activity.” *Case Studies in Chemical and Environmental Engineering* 8: 100382.
439	H.T. Al Qaysi, T.I. Hamad, & T.L. Al Zubaidy (2023). “Characterization of niobium carbide film deposited on commercially pure titanium by low-temperature plasma glow discharge.” *Bulletin of Materials Science* 46: 135.
438	P. Patil & C. Jones (2023). “Reducing Uncertainties in Nanoindentation Experiments for Cementitious Materials.” *Transportation Research Record* 2677 (1): 669–681.

Customer Publication List - October, 2025

437	H.D. Jabbar, M.A. Fakhri, M.J. Abdul Razzaq, O.S. Dahham, E.T. Salim, F.H. Alsultany, & U. Hashim (2023). “Effect of Different Etching Time on Fabrication of an Optoelectronic Device Based on GaN/Psi.” *Journal of Renewable Materials* 11 (3): 1101-1122.
436	L. Wei, H. Bian, U.P. Agarwal, R.C. Sabo, L.M. Matuana, & N.M. Stark (2023). “Correlation between morphology and performance of cellulose nanofibril-based films.” *Current Research in Green and Sustainable Chemistry* 6: 100363.
435	R. Xue, L. Zhao, Z. Chen, B. Cao, C. Yuan, & Y. Xiao (2023). “Improved Optical, Dielectric, and Nonlinear Properties of $CaCu_3Ti_4O_{12}$ Thin Films by Chromium Doping.” *Thin Solid Films* 779: 139940.
434	Y. Hyeon, S. Kim, E. Ok, & C. Park (2023). “A fluid imaging flow cytometry for rapid characterization and realistic evaluation of microplastic fiber transport in ceramic membranes for laundry wastewater treatment.” *Chemical Engineering Journal* 454 (1): 140028.
433	M.A. Santos, F.L. Silva, B.O.V. Lira, J.L. Cardozo Fh, A.G. Vasconcelos, A.R. Araujo, A.M. Murad, A.V. Garay, S.M. Freitas, J.R.S.A. Leite, C. Bloch, M.H.S. Ramada, A.L. de Oliveira, & G.D. Brand (2023). “Probing human proteins for short encrypted antimicrobial peptides reveals Hs10, a peptide with selective activity for gram-negative bacteria.” *Biochimica et Biophysica Acta (BBA) - General Subjects* 1867 (1): 130265.
432	H. Ye, T. Wan, X. Li, C. Li, K. He, & Y. Guo (2023). “Rapid detection of kanamycin using cooperative recognition split aptamer and graphene oxide nanosheets.” *Journal of Food Measurement and Characterization* 17: 2144–2151.
431	A.C.J. Oliveira, E.B. Silva, T.C. de Oliveira, F.O.S. Ribeiro, D. Nadvorny, J.W.F. Oliveira, A. Borrego-Sánchez, K.A.F. Rodrigues, M.S. Silva, P.J. Rolim-Neto, C. Viseras, E.C. Silva-Filho, D.A. da Silva, L.L. Chaves, M.F. de La Roca Soares, & J.L. Soares-Sobrinho (2023). “pH-responsive phthalate cashew gum nanoparticles for improving drugs delivery and anti-*Trypanosoma cruzi* efficacy.” *International Journal of Biological Macromolecules* 230: 123272.

Customer Publication List - October, 2025

430	M. Lowe, B. Glezer, B. Toulan, & B. Hess (2023). “Atomic Force Microscopy Measurements and Model of DNA Bending Caused by Binding of AraC Protein.” *Journal of Molecular Recognition* 36 (1): e2993.
429	K.S. Mohammed, J.M.M. Al-Zanganawee, & A.A. Kamil (2023). “An investigation of (Co + Zn) co-doping effect on certain physical features of nano-structured (CdO) thin films deposited by sol-gel spin coating technique.” *AIP Conference Proceedings* 2475 (1): 090004.
428	G.Y. Senguler, E.K. Narin, S.B. Lisesivdin, & T. Serin (2023). “Effect of sulfur concentration on structural, optical and electrical properties of Cu_2CoSnS_4 absorber film for photovoltaic devices.” *Physica B: Condensed Matter* 648: 414424.
427	T. Han, E. Kutlu-Narin, P. Narin, B. Sarikavak-Lisesivdin, & S.B. Lisesivdin (2023). “Structural and optical properties of mist-CVD grown MgZnO: Effect of precursor solution composition.” *Physica B: Condensed Matter* 659: 414854.
426	M.S. Badri, M.H. Suhail, & M.A. Abood (2023). “Characterization of chemically synthesized polypyrrole and controlling on morphological properties of its thin films.” *Journal of Survey in Fisheries Sciences* 10 (1): 2011-2020.
425	A.F. Rauuf & K.A. Aadim (2023). “Effect of Annealing Times on the Structural and Optical Properties of PbO Thin Films Prepared by D.C Sputtering.” *Iraqi Journal of Science* 64 (6): 2877-2888.
424	Z.M. Al-Fadhily, & M. Abdul-Hadi (2023). “A Novel Coating of Orthodontic Archwires with Chlorhexidine Hexametaphosphate Nanoparticles.” *International Journal of Biomaterials* 2023: 9981603.
423	C.E. Peñuela-Cruz, A. Márquez-Herrera, E. Aguilera-Gómez, A. Saldaña-Robles, R. Mis-Fernández, J.L. Peña, F. Caballero-Briones, M. Loeza-Poot, & E. Hernández-Rodríguez (2023). “The effects of sandblasting on the surface properties of magnesium sheets: a statistical study.” *Journal of Materials Research and Technology* 23: 1321-1331.

Customer Publication List - October, 2025

422	T.S. Moreira, A.D.O. Silva, B.R.F. Vasconcelos, E.S. Santos, A.C.C. de Sousa, J.V.B. de Freitas, Y.S. de Oliveira, L.M.T. Vidal, F.O.S. Ribeiro, A.R. de Araújo, J.B.V. Neto, C.O. Pessoa, R. Petrilli, & J.O. Eloy (2023). "DOPE/CHEMS-Based EGFR-Targeted Immunoliposomes for Docetaxel Delivery: Formulation Development, Physicochemical Characterization and Biological Evaluation on Prostate Cancer Cells." *Pharmaceutics* 15 (3): 915.
421	A. Dahal (2023). "Enhanced photocatalytic activity of liquid phase exfoliated WS_2 nanosheets." *Journal of Applied Physics* 133 (23): 234302.
420	**Conference paper:** M. Deliorman, T. Gjorgjieva, X. Xie, P. Percipalle, & M.A. Qasaimeh (2023). "Manipulation and Probing of Cell Nucleus at the Micro- and Nanoscale Uncovers a Potential Role of β-Actin in Nuclear Biomechanics." *2023 International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS)*, Abu Dhabi, United Arab Emirates, pp. 1-6.
419	**Book chapter**: M. Deliorman, A. Glia, & M.A. Qasaimeh (2023). "Affinity-Based Microfluidics Combined with Atomic Force Microscopy for Isolation and Nanomechanical Characterization of Circulating Tumor Cells." In: J.L. Garcia-Cordero, A. Revzin (eds). Microfluidic Systems for Cancer Diagnosis *Methods in Molecular Biology*, vol 2679. Humana, New York, NY.
418	**Thesis:** P. Patil (2023). "*Aging Viscoelastic Properties of Cement Paste*." Kansas State University, Doctoral Thesis.
417	**Thesis:** S. Au-Yong (2023). "*Thermoelectric Properties of Organic Thin Films Fabricated by Thermal Sublimation and Solution Self-Assembly*." Lancaster University, Doctoral Thesis.
416	**Thesis:** A. Chaudhari, (2023). "*Sunflower Oil-Based Wood Adhesive With High Mechanical Strength And Enhanced Bonding By Introducing Fillers*." Pittsburg State University, Master's Thesis.
415	**Thesis:** V. Suthar, (2023). "*Effect Of Graphene-Based Fillers On The Properties Of Sunflower-Based Polyurethane*." Pittsburg State University, Master's Thesis.

Customer Publication List - October, 2025

414	**Thesis:** I.M. Germaine, (2023). "*Single Source Precursors for the CVD of Group 6 Transition Metal Disulfide Thin Films*." University of Florida, Doctoral Thesis.
413	**Thesis:** Md. Hadiuzzaman, (2023). "An Investigation of Physicochemical Processes that Influence Heavy Metals Fate within Plastic Materials." *The University of Memphis* Doctoral Thesis.
412	Q. Song, C.A. Occhialini, E. Ergeçen, B. Ilyas, D. Amoroso, P. Barone, J. Kapeghian, K. Watanabe, T. Taniguchi, A.S. Botana, S. Picozzi, N. Gedik, & R. Comin (2022). "Evidence for a single-layer van der Waals multiferroic." *Nature* 602**:** 601–605.
411	N. Mondal, N. Azam, Y.N. Gartstein, M. Mahjouri-Samani, & A.V. Malko (2022). "Photoexcitation Dynamics and Long-Lived Excitons in Strain-Engineered Transition Metal Dichalcogenides." *Advanced Materials* 34 (23)**:** 2110568.
410	X. Lin, H. Su, S. He, Y. Song, Y. Wang, Z. Qin, Y. Wu, X. Yang, Q. Han, J. Fang, Y. Zhang, H. Segawa, M. Grätzel, & L. Han (2022). "In situ growth of graphene on both sides of a Cu–Ni alloy electrode for perovskite solar cells with improved stability." *Nature Energy* 7: 520–527.
409	N. Azam, M.G. Boebinger, S. Jaiswal, R.R. Unocic, P. Fathi-Hafshejani, & M. Mahjouri-Samani (2022). "Laser-Assisted Synthesis of Monolayer 2D MoSe2 Crystals with Tunable Vacancy Concentrations: Implications for Gas and Biosensing." *ACS Applied Nano Materials* 5 (7)**:** 9129-9139.
408	A. Pendse, S. Cetindag, K. Wang, D. Li, R.J. Castellano, D.-C. Yang, T. Wang, J.W. Shan, & S. Kim (2022). "Intrinsic ion transport of highly charged sub-3-nm boron nitride nanotubes." *Materials Today* 60: 79-90
407	M.R. Niazi, R. Munir, R.M. D'Souza, T.L. Kelly, & G.C. Welch (2022). "Scalable Non-Halogenated Co-solvent System for Large-Area, Four-Layer Slot-Die-Coated Organic Photovoltaics." *ACS Applied Materials & Interfaces* 14 (51): 57055–57063
406	S. Shoji, A.S.B.M. Najib, M.-W. Yu, T. Yamamoto, S. Yasuhara, A. Yamaguchi, X. Peng, S. Matsumura, S. Ishii, Y. Cho, T. Fujita, S. Ueda, K.-P. Chen, H. Abe, & M. Miyauchi (2022). "Charge partitioning by intertwined metal-oxide nano-architectural networks for the photocatalytic dry reforming of methane." *Chem Catalysis* 2 (2): 321-329

Customer Publication List - October, 2025

405	H.A.A. Abdul Amir, M.A. Fakhri, A.A. Alwahib, E.T. Salim, F.H. Alsultany, & U. Hashim (2022). “Synthesis of gallium nitride nanostructure using pulsed laser ablation in liquid for photoelectric detector.” *Materials Science in Semiconductor Processing* 150**:** 106911.
404	M. Lungu, D. Cristea, F. Baiasu, C. Staicu, A. Marin, O.G. Pompilian, B. Butoi, C. Locovei, & C. Porosnicu (2022). “Surface, Structural, and Mechanical Properties Enhancement of Cr_2O_3 and SiO_2 Co-Deposited Coatings with W or Be.” *Nanomaterials* 12**:** 2870.
403	Z.S. Ghazi, M.R. Mohammad, M.A. Abbood, & A.A. Hussein (2022). “Antibacterial Studying of Silver Nanoparticles Synthesized by Chemical Reduction Method Using Different Stabilized Concentrations.” *Journal of Applied Sciences and Nanotechnology* 2 (3): 106-114.
402	E. Jaradat, E. Weaver, A. Meziane, & D.A. Lamprou (2022). “Microfluidic paclitaxel-loaded lipid nanoparticle formulations for chemotherapy.” *International Journal of Pharmaceutics* 628**:** 122320.
401	R. Peyronnet, A. Desai, J.-C. Edelmann, B.A. Cameron, R. Emig, P. Kohl, & D. Dean (2022). “Simultaneous assessment of radial and axial myocyte mechanics by combining atomic force microscopy and carbon fibre techniques.” *Philosophical Transactions of the Royal Society B* 377 (1864): 20210326.
400	S.W.A. Shah, M.u. Rehman, A. Hayat, R. Tahseen, S. Bajwa, E. Islam, S.N.H. Naqvi, G. Shabir, S. Iqbal, M. Afzal, & N.K. Niazi (2022). “Enhanced Degradation of Ciprofloxacin in Floating Treatment Wetlands Augmented with Bacterial Cells Immobilized on Iron Oxide Nanoparticles.” *Sustainability* 14 (22)**:** 14997.
399	L.C.C.F. Crisóstomo, G.S.G. Carvalho, L.K.A.M. Leal, T.G. de Araújo, K.A.B. Nogueira, D.A. da Silva, F.O.S. Ribeiro, R. Petrilli, & J.O. Eloy (2022). “Sorbitan Monolaurate–Containing Liposomes Enhance Skin Cancer Cell Cytotoxicity and in Association with Microneedling Increase the Skin Penetration of 5-Fluorouracil.” *AAPS PharmSciTech* 23: 212.
398	Y.O. Mostafa, K.A. Abed, N.A. El Mahallawy, M.H. Sorour, & M.A. El-Bayoumi (2022). “The Effect of Microwave Irradiation on Morphological and Mechanical Characteristics of Nano Silica Loaded PVDF Hollow Fiber Membranes.” *Egyptian Journal of Chemistry* 65 (132): 735-744.

Customer Publication List - October, 2025

397	Y. Singh, D. Regmi, D. Ormaza, R. Ayyalasomayajula, N. Vela, G. Mundim, D. Du, D. Minond, & M. Cudic (2022). “Mucin-Type *O*-Glycosylation Proximal to β-Secretase Cleavage Site Affects APP Processing and Aggregation Fate.” *Frontiers in Chemistry* 10: 859822.
396	I. Negut, C. Ristoscu, T. Tozar, M. Dinu, A.C. Parau, V. Grumezescu, C. Hapenciuc, M. Popa, M.S. Stan, L. Marutescu, I.N. Mihailescu, & M.C. Chifiriuc (2022). “Implant Surfaces Containing Bioglasses and Ciprofloxacin as Platforms for Bone Repair and Improved Resistance to Microbial Colonization.” *Pharmaceutics* 14 (6): 1175.
395	A. Kumar, M. Shkir, H.H. Somaily, K.L. Singh, B.C. Choudhary, & S.K. Tripathi (2022). “A simple, low-cost modified drop-casting method to develop high-quality $CH_3NH_3PbI_3$ perovskite thin films.” *Physica B: Condensed Matter* 630: 413678.
394	H.D. Jabbar, M.A. Fakhri, & M.J. AbdulRazzaq (2022). “Synthesis Gallium Nitride on Porous Silicon Nano-Structure for Optoelectronics Devices.” *Silicon* 14: 12837–12853.
393	M. Shamsaiee, S.G. Holagh, M.A. Abdous, & H. Saffari (2022). “Experimental investigation of surface finishing technique impact on subcooled flow boiling heat transfer enhancement: sandpapering and sandblasting.” *Heat and Mass Transfer* 58: 1785–1810.
392	H. Kook & C. Park (2022). “Engineered Approaches to Facile Identification of Tiny Microplastics in Polymeric and Ceramic Membrane Filtrations for Wastewater Treatment.” *Membranes* 12 (6): 565.
391	M.M. Armendáriz-Ontiveros, Y. Villegas-Peralta, J.E. Madueño-Moreno, J. Álvarez-Sánchez, G.E. Dévora-Isiordia, R.G. Sánchez-Duarte, & T.J. Madera-Santana (2022). “Modification of Thin Film Composite Membrane by Chitosan–Silver Particles to Improve Desalination and Anti-Biofouling Performance.” *Membranes* 12 (9): 851.
390	R.M. Woo-García, I. Rodríguez-Ibarra, E. Osorio-de-la-Rosa, C. Guarneros-Aguilar, F. Caballero-Briones, R. Agustín-Serrano, A.L. Herrera-May, & F. López-Huerta (2022). “Automated Instrument for the Deposition of Thin Films Using Successive Ionic Layer Adsorption and Reaction.” *Processes* 10 (3): 492.

Customer Publication List - October, 2025

389	S. Shuyong, Z. Zhengguo, & L. Hai (2022). “Effect of Optical Absorption Layer Thickness on Photovoltaic Performance of Carbon Electrode Perovskite Solar Cells.” *Journal of Synthetic Crystals* 51 (11): 1936-1943.
388	A. Ilgaz (2022). “Material performance characterization of carbon nanotubes and BYK 8003 organic compounds reinforced GFRP composites.” *The European Physical Journal Applied Physics* 97: 10.
387	C.O. Erdogan, R. Capan, Y. Acikbas, M. Ozmen, & M. Bayrakci (2022). “Sensor application of pyridine modified calix[4]arene Langmuir-Blodgett thin film.” *Optik* 265: 169492.
386	F.J. Moaen, H.R. Humud, & F.G. Hamzah (2022). “Development of Effectual Substrates for SERS by Nanostructurs-Coated Porous Silicon.” *Karbala International Journal of Modern Science* 8 (1): 114-125.
385	M.A. Fakhri, A.A. Alwahib, E.T. Salim, H.A.A. Abdul Amir, F.H. Alsultany, & U. Hashim (2022). “Synthesis and characterization of GaN/quartz nanostructure using pulsed laser ablation in liquid.” *Physica Scripta* 97 (11): 115813.
384	H.M. Nasrabadi, M. Mahdavi, M. Soleymaniha, & S.O.R. Moheimani (2022). “High resolution atomic force microscopy with an active piezoelectric microcantilever.” *Review of Scientific Instruments* 93: 073706.
383	G.D. Tetik, F. Yilmaz, & G. Celep (2022). “Sound absorption characteristics of nanofibre web coated foams.” *Indian Journal of Fibre & Textile Research* 47: 334-343.
382	Z.S. Al Hachim, A.M. Ridha, M.N. AL-Baiati, Q.F. Alsalhy, & H.S. Majdi (2022). “Sustainable Modification of Polyethersulfone Membrane with Poly(Maleic Anhydride-Co-Glycerol) as Novel Copolymer.” *Water* 14 (8): 1207.
381	A.A.A. Aljanabi, N.E. Mousa, M.M. Aljumaily, H.S. Majdi, A.A. Yahya, M.N. Al-Baiati, N, Hashim, K.T. Rashid, S. Al-Saadi, & Q.F. Alsalhy (2022). “Modification of Polyethersulfone Ultrafiltration Membrane Using Poly(terephthalic acid-co-glycerol-g-maleic anhydride) as Novel Pore Former.” *Polymers* 14 (16): 3408.

Customer Publication List - October, 2025

380	P. Manimaran, V. Vignesh, A. Khan, G.P. Pillai, K.J. Nagarajan, M. Prithiviraj, A.N. Al-Romaizan, M.A. Hussein, M. Puttegowda, & A.M. Asiri (2022). “Extraction and characterization of natural lignocellulosic fibres from *Typha angustata* grass.” *International Journal of Biological Macromolecules* 222 (Pt B): 1840-1851.
379	Y.O. Mostafa, K.A. Abed, N.A. El Mahallawy, M.H. Sorour, & M.A. El Bayoumi (2022). “Investigations on the Effect of Silica Nanoparticles on Polyamide Coated PVDF Hollow FiberMembranes.” *International Journal of Research in Engineering and Science (IJRES)* 10 (9): 483-492.
378	Q. Rao, Z. Tong, L. Song, A. Ali, Y. Hou, Q. He, J. Lu, X. Gao, X. Zhan, & Q. Zhang (2022). “NIR-driven fast construction of patterned-wettability on slippery lubricant infused surface for droplet manipulation.” *Chemical Engineering Journal* 428: 131141.
377	R.S. Ahmed & A.I. Saleem (2022). “Evaluation of the Effect of Natural and Industrial Orange Juices and Beverage on Surface Roughness of Orthodontic Bonding Composite: An In Vitro Study.” *Dental Hypotheses* 13: 107-110.
376	A.K. Hassan, M.A. Atiya, & I.M. Luaibi (2022). “A Green Synthesis of Iron/Copper Nanoparticles as a Catalytic of Fenton-like Reactions for Removal of Orange G Dye.” *Baghdad Science Journal* 19 (6): 1249-1264.
375	G.E. Shiyi, Y. Yao, H. Zhengliang, S. Jingyuan, W. Jingdai, & Y. Yongrong (2022). “Analyzing particle growth and morphology evolution of polyethylene based on electrostatic separation.” *CIESC Journal* 73 (4): 1585-1596.
374	Y. Liu, P. Zhou, R. Bidthanapally, J. Zhang, W. Zhang, M.R. Page, T. Zhang, & G. Srinivasan. (2022). “Strain Control of Magnetic Anisotropy in Yttrium Iron Garnet Films in a Composite Structure with Yttrium Aluminum Garnet Substrate.” *Journal of Composites Science* 6 (7): 203.
373	M.E. Farahat, M.A. Anderson, M. Martell, E.L. Ratcliff, & G.C. Welch (2022). “New Perylene Diimide Ink for Interlayer Formation in Air-Processed Conventional Organic Photovoltaic Devices.” *ACS Applied Materials & Interfaces* 14 (38): 43558-43567.

Customer Publication List - October, 2025

372	S. Cohen, I. Chejanovsky, & R.Y. Suckeveriene (2022). “Grafting of Poly(ethylene imine) to Silica Nanoparticles for Odor Removal from Recycled Materials.” *Nanomaterials* 12 (13): 2237.
371	Z. Fan, X. Guo, F. Liu, Y. Li, L. Zhang, & Z. Jin, (2022). “S-scheme heterojunction of polyfluorene derivatives coupled with $Zn_xCd_{1-x}S$ nanoparticles for efficient and stable photocatalytic hydrogen evolution.” *Applied Materials Today* 29: 101637.
370	S.G. Silva, M. Pinheiro, R. Pereira, A.R. Dias, R. Ferraz, C. Prudêncio, P.J. Eaton, S. Reis, & M.L.C. do Vale (2022). “Serine-based surfactants as effective antimicrobial agents against multiresistant bacteria.” *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1864 (9): 183969.
369	S.I. Ekonomou, P.A. Thanekar, D.A. Lamprou, E. Weaver, O. Doran, & A.C. Stratakos (2022). “Development of Geraniol-Loaded Liposomal Nanoformulations against Salmonella Colonization in the Pig Gut.” *Journal of Agricultural and Food Chemistry* 70 (23): 7004-7014.
368	P. Narin, E. Kutlu-Narin, S. Kayral, R. Tulek, S. Gokden, A. Teke, & S.B. Lisesivdin (2022). “Morphological and optical characterizations of different ZnO nanostructures grown by mist-CVD.” *Journal of Luminescence* 251: 119158.
367	L. Zhao, H. Li, K. Wang, X. Li, C. Guo, & H. Yang (2022). “Effects of electrolysed water and levulinic acid combination on microbial safety and polysaccharide nanostructure of organic strawberry.” *Food Chemistry* 394: 133533.
366	V.N.C. da Silva, E.A.O. Farias, A.R. Araújo, F.E.X. Magalhães, J.R.N. Fernandes, J.M.T. Souza, C. Eiras, D.A. da Silva, V.H.V. Bastos, & S.S. Teixeira (2022). “Rapid and selective detection of dopamine in human serum using an electrochemical sensor based on zinc oxide nanoparticles, nickel phthalocyanines, and carbon nanotubes.” *Biosensors and Bioelectronics* 210: 114211.
365	Y. Acikbas (2022). “The pillar[5]arene-based spun thin films: preparation, characterization, development of optical and mass sensitive sensors for swelling dynamics and gas sensing abilities.” *Research on Chemical Intermediates* 48**:** 1863–1875.

Customer Publication List - October, 2025

364	Y. Wang, K. Qin, F. Chen, L. Jiang, H. Zhou, S. Ding, & R. Wang (2022). "Texture improvement of fermented minced pepper under vacuum impregnation with pectin methylesterase and $CaCl_2$ during fermentation." *International Journal of Food Science & Technology* 57 (6): 3477-3489.
363	M. Hadiuzzaman, M. Salehi, & T. Fujiwara (2022). "Plastic litter fate and contaminant transport within the urban environment, photodegradation, fragmentation, and heavy metal uptake from storm runoff." *Environmental Research* 212 (Pt A)**:** 113183.
362	D. Wang, Y. Wang, G. Dong, Y. Shang, Y. Lyu, F. Li, C. Zhang, & X. Yu (2022). "The chemical composition analysis of dwarf saltwort (*Salicornia bigelovii* Torr.) and its preservative effects on snakehead fish fillets." *Journal of Food Processing and Preservation* 46 (4)**:** e16433.
361	M. Deliorman, A. Glia, & M.A. Qasaimeh (2022). "Characterizing circulating tumor cells using affinity-based microfluidic capture and AFM-based biomechanics." *STAR Protocols* 3 (2)**:** 101433.
360	Y. Lee, M. Cha, Y. So, I.-H. Song, & C. Park (2022). "Functionalized boron nitride ceramic nanofiltration membranes for semiconductor wastewater treatment." *Separation and Purification Technology* 300**:** 121945.
359	F. Shen, D. Regmi, M. Islam, D.R. Somu, V. Merk, & D. Du (2022). "Effects of zinc and carnosine on aggregation kinetics of Amyloid-β40 peptide." *Biochemistry and Biophysics Reports* 32**:** 101333.
358	T. Wang, J. Lee, X. Wang, K. Wang, C. Bae, & S. Kim (2022). "Surface-engineered Nafion/CNTs nanocomposite membrane with improved voltage efficiency for vanadium redox flow battery." *Journal of Applied Polymer Science* 139 (7): 51628.
357	R.V. Tolentino-Hernandez, F.A. Garcia-Pastor, H. Baez-Medina, E. Jimenez-Melero, & F. Caballero-Briones (2022). "Structural damage in graphene oxide coatings onto Nb substrates upon laser irradiation." *Surface and Coatings Technology* 431: 128013.
356	A. Hoff, M.E. Farahat, M. Pahlevani, & G.C. Welch (2022). "Tin Oxide Electron Transport Layers for Air-/Solution-Processed Conventional Organic Solar Cells." *ACS Applied Materials & Interfaces* 14 (1): 1568–1577.

Customer Publication List - October, 2025

355	B.A. Humphries, M. Aliabouzar, C. Quesada, A. Bevoor, K.K.Y. Ho, A. Farfel, J.M. Buschhaus, S. Rajendran, M.L. Fabiilli, & G.D. Luker (2022). "Ultrasound-Induced Mechanical Compaction in Acoustically Responsive Scaffolds Promotes Spatiotemporally Modulated Signaling in Triple Negative Breast Cancer." *Advanced Healthcare Materials* 11 (10): 2101672.
354	S.H. Kim, C.H. Park, M.A. Saeed, D.-H. Ko, J.-H. Lee, & J.W. Shim (2022). "*β*-cyclodextrin–polyacryloyl hydrazide-based surface modification for efficient electron-collecting electrodes of indoor organic photovoltaics." *Journal of Materials Research and Technology* 16**:** 1659-1666.
353	N.U. Huynh, C. Gamez, & G. Youssef (2022). "Spectro-Microscopic Characterization of Elastomers Subjected to Laser-Induced Shock Waves." *Macromolecular Materials and Engineering* 307 (2)**:** 2100506.
352	S. Newacheck, A. Singh, & G. Youssef (2022). "On the magnetoelectric performance of multiferroic particulate composite materials." *Smart Materials and Structures* 31**:** 015022.
351	A.C. Wardhana, S. Yasuhara, M.-W. Yu, A. Yamaguchi, T. Nagao, S. Ishii, & M. Miyauchi (2022). "Direct imaging of visible-light-induced one-step charge separation at the chromium(III) oxide– strontium titanate interface." *Journal of Materials Chemistry A* 10 (2): 752-761.
350	E. Farrell, M. Aliabouzar, C. Quesada, B.M. Baker, R.T. Franceschi, A.J. Putnam, & M.L. Fabiilli (2022). "Spatiotemporal control of myofibroblast activation in acoustically-responsive scaffolds via ultrasound-induced matrix stiffening." *Acta Biomaterialia* 138**:** 133-143.
349	K. Soyoun & P. Chanhyuk (2022). "Fouling Behavior and Cleaning Strategies of Ceramic Ultrafiltration Membranes for the Treatment and Reuse of Laundry Wastewater." *Journal of Water Process Engineering* 48**:** 102840.
348	H.M. Nasrabadi, M. Mahdavi, & S.O.R. Moheimani (2022). "Q Control of an AFM Microcantilever With Double-Stack AlN Sensors and Actuators." *IEEE Sensors Journal* 22 (5)**:** 3957-3964.

Customer Publication List - October, 2025

347	E. Weaver, E. O'Connor, D.K. Cole, A. Hooker, S. Uddin, & D.A. Lamprou (2022). "Microfluidic-mediated self-assembly of phospholipids for the delivery of biologic molecules." *International Journal of Pharmaceutics* 611: 121347.
346	J. G. Pontes-Neto, T.R.F. Silva, F.O.S. Ribeiro, D.A. Silva, M.F.R. Soares, & J.L. Soares-Sobrinho (2022). "Reconstitution as an alternative method for 5-aminosalicylic acid intercalation in layered double hydroxide for drug delivery." *Journal of Thermal Analysis and Calorimetry* 147: 3141–3149.
345	C. Yang, Y.B. Guo, B.Y. Long, C.L. Jia, X. Li, W.H. Xie, & Z.J. Zhao (2022). "Enhanced giant magnetoimpedance effect in FINEMET/TiO_2 composite ribbons." *Journal of Materials Science: Materials in Electronics* 33: 2744–2752.
344	J.A. Osajima, L.A.L. Silva, A.A.L. Silva, M.A.S. Rios, T.A.F. De Carvalho, A.R. Araújo, D.A. Silva, J.L. Magalhães, J.M.E. Matos, & E.C. Silva-Filho (2022). "Facile synthesis of H-$CoMoO_4$ nanosheets for antibacterial approaches." *Chemical Papers* 76: 1085–1095.
343	S. Do, J. Canilao, S. Stepp, & G. Youssef (2022). "Thermomechanical investigations of polyurea microspheres." *Polymer Bulletin* 79: 1081–1095.
342	L. Chen, Q. Liu, X. Zhao, H. Zhang, X. Pang, & H. Yang (2022). "Inactivation efficacies of lactic acid and mild heat treatments against *Escherichia coli* strains in organic broccoli sprouts." *Food Control* 133 (Pt A): 108577.
341	M. Cha, C. Boo, I.-H. Song, & C. Park (2022). "Investigating the potential of ammonium retention by graphene oxide ceramic nanofiltration membranes for the treatment of semiconductor wastewater." *Chemosphere* 286 (Pt 2): 131745.
340	M. Gürsoy, E. Çıtak, & M. Karaman (2022). "Uniform deposition of large-area graphene films on copper using low-pressure chemical vapor deposition technique." *Carbon Letters* 32: 781–787.

Customer Publication List - October, 2025

339	A. Laventure, S. Stanzel, A.-J. Payne, B.H. Lessard, & G.C. Welch (2022). "*N*-Annulated perylene diimide dimers and tetramer non-fullerene acceptors: impact of solvent processing additive on their thin film formation behavior." *Journal of Chemical Technology and Biotechnology* 97 (4): 844-851.
338	M. Prithiviraj & R. Muralikannan (2022). "Investigation of Optimal Alkali-treated Perotis indica Plant Fibers on Physical, Chemical, and Morphological Properties." *Journal of Natural Fibers* 19 (7): 2730-2743.
337	**Book chapter**: F. Ruiz-Perez, R.V. Tolentino-Hernandez, J.A. Barón-Miranda, & F. Caballero-Briones (2022). "Scanning Probe Microscopy: Tipping the Path Toward Atomic Visions." In: S.K. Kamaraj, A. Thirumurugan, S.S. Dhanabalan, S.A. Hevia (eds) *Microscopic Techniques for the Non-Expert*, Springer, Cham.
336	**Conference paper:** J. Liu, N. Ovitigala, B. Comeau, E. Welsh, & N. Fang (2022). "Low-Cost Haptics and Visualization to Learn the Atomic Force Microscope Force-Distance Curve." *2022 ASEE Annual Conference & Exposition, Minneapolis, MN.*
335	**Thesis:** C.R.A. Harding (2022). "*Green solvent processable, solvent resistant, printed organic semiconducting films*." University of Calgary, Master's Thesis.
334	**Thesis:** N.U. Huynh (2022). "*Multiscale In-Situ Spatiotemporal Characterization of Polymers*." San Diego State University, Doctoral Thesis.
333	**Technical Report:** S.O.R. Moheimani (2022). "A Platform Technology for High-throughput Atomically Precise Manufacturing: Mechatronics at the Atomic Scale." *U.S. DOE Advanced Manufacturing Office Program Review Meeting.*
332	J.-O. Kim, W.-T. Koo, H. Kim, C. Park, T. Lee, C.A. Hutomo, S.Q. Choi, D.S. Kim, I.-D. Kim, & S. Park (2021). "Large-area synthesis of nanoscopic catalyst-decorated conductive MOF film using microfluidic-based solution shearing." *Nature Communications* 12: 4294.

Customer Publication List - October, 2025

331	P.E.F Stricker, D.S. Dobuchak, A.C. Irioda, B.F. Mogharbel, C.R.C. Franco, J.R.S.A. Leite, A.R. de Araújo, F.A. Borges, R.D. Herculano, C.F.O. Graeff, J.C. Chachques, & K.A.T. de Carvalho (2021). "Human Mesenchymal Stem Cells Seeded on the Natural Membrane to Neurospheres for Cholinergic-like Neurons." *Membranes* 11 (8): 598.
330	E. Kutlu-Narin, P. Narin, S.B. Lisesivdin, & B. Sarikavak-Lisesivdin (2021). "Investigation of Structural and Optical Properties of ZnO Thin Films Grown on Different Substrates by Mist-CVD Enhanced with Ozone Gas Produced by Corona Discharge Plasma." *Advances in Condensed Matter Physics* 1130829.
329	L.V. Amorim, D.L. Moreira, M.M.M. Alves, Y.J. Ramos, E.P.C. Sobrinho, D.D.R. Arcanjo, A.R. de Araújo, J.R.S.A. Leite, F.C.P. de Andrade, A.N. Mendes, & F.A.A. Carvalho (2021). "Anti-Leishmania activity of extracts from *Piper cabralanum* C.DC. (Piperaceae)." *Zeitschrift für Naturforschung C* 76 (5-6): 229-241.
328	Y.B.G. Patriota, I.E.S. Arruda, A.C.J. Oliveira, T.C. de Oliveira, E.L.V. Silva, L.L. Chaves, F.O.S. Ribeiro, D.A. da Silva, M.F. de La Roca Soares, & J.L. Soares-Sobrinho (2021). "Synthesis of Eudragit® L100-coated chitosan-based nanoparticles for oral enoxaparin delivery." *International Journal of Biological Macromolecules* 193 (Pt A): 450-456.
327	B. Iles, I.R.S.G. Nolêto, F.F. Dourado, F.O.S. Ribeiro, A.R. de Araújo, T.M. de Oliveira, J.M.T. Souza, A.B. Barros, G.C. Sousa, A.C.J. Oliveira, C.S. Martins, M.O.V. Veras, R.F.C. Leitão, J.R.S.A. Leite, D.A. da Silva, & J.V.R. Medeiros (2021). "Alendronate sodium-polymeric nanoparticles display low toxicity in gastric mucosal of rats and Ofcol II cells." *NanoImpact* 24: 100355.
326	K. Wang, H. Seol, X. Liu, H. Wang, G. Cheng, & S. Kim (2021). "Ultralow-Fouling Zwitterionic Polyurethane-Modified Membranes for Rapid Separation of Plasma from Whole Blood." *Langmuir* 37: 10115−10125.
325	B. Soltabayev, A.O. Çağırtekin, A. Mentbayeva, M.A. Yıldırım, & S. Acar (2021). "Investigation of indium insertion effects on morphological, optical, electrical impedance and modulus properties of ZnO thin films." *Thin Solid Films* 734: 138846.

Customer Publication List - October, 2025

324	D.-H. Youn, K.-S. Lee, S.-K. Jung, & M. Kang (2021). “Fabrication of a Simultaneous Highly Transparent and Highly Hydrophobic Fibrous Films.” *Applied Sciences* 11 (12): 5565.
323	M.J.M. Carneiro, C.B.A. Paula, I.S. Ribeiro, L.R.M. de Lima, F.O.S. Ribeiro, D.A. Silva, G.S. Araújo, J.D.B.M. Filho, A.J. Araújo, R.S. Freire, J.P.A. Feitosa, & R.C.M. de Paula (2021). “Dual responsive dextran-*graft*-poly (N-isopropylacrylamide)/doxorubicin prodrug via Schiff base reaction.” *International Journal of Biological Macromolecules* 185: 390-402.
322	A. Daghrery, J.A. Ferreira, I.J. de Souza Araújo, B.H. Clarkson, G.J. Eckert, S.B. Bhaduri, J. Malda, & M.C. Bottino (2021). “A Highly Ordered, Nanostructured Fluorinated CaP-Coated Melt Electrowritten Scaffold for Periodontal Tissue Regeneration.” *Advanced Healthcare Materials* 10 (21): 2101152.
321	T. Wang, X. Wang, A. Pendse, Y. Gao, K. Wang, C. Bae, & S. Kim (2021). “High-efficient multifunctional electrochemical membrane for lithium polysulfide redox flow batteries.” *Journal of Membrane Science* 636: 119539.
320	T.D.S. Araujo, J.M.A.R. da Costa, F.O.S. Ribeiro, A.C.J. Oliveira, J.N. Dias, A.R. de Araujo, A.B. Barros, M.P. Brito, T.M. de Oliveira, M.P. de Almeida, K.N.C. Castro, F.H.S. Fogaça, D.A. da Silva, & B.W.S. de Souza (2021). “Nanoemulsion of cashew gum and clove essential oil (*Ocimum gratissimum* Linn) potentiating antioxidant and antimicrobial activity.” *International Journal of Biological Macromolecules* 193 (Pt A): 100-108.
319	M. Takada, K. Inoue, H. Sugimoto, & M. Fujii (2021). “Solution-processed silicon quantum dot photocathode for hydrogen evolution.” *Nanotechnology* 32 (48): 485709.
318	T. Wu, S. Li, Y. Huang, Z. He, Y. Zheng, A. Stalin, Q. Shao, & D. Lin (2021). “Structure and pharmacological activities of polysaccharides from *Anoectochilus roxburghii* (Wall.) Lindl.” *Journal of Functional Foods* 87: 104815.
317	A. Alipour, M.B. Coskun, & S.O.R. Moheimani (2021). “A MEMS Nanopositioner With Integrated Tip for Scanning Tunneling Microscopy.” *Journal of Microelectromechanical Systems* 30 (2): 271-280.

Customer Publication List - October, 2025

316	T.C. de Oliveira, A.C.J. Oliveira, Y.B.G. Patriota, L.L. Chaves, F.O.S. Ribeiro, R.C.M. de Paula, E.C. Silva-Filho, D.A. da Silva, M.F. de La Roca Soares, & J.L. Soares-Sobrinho (2021). "Eco-friendly synthesis of phthalate angico gum towards nanoparticles engineering using Quality by Design (QbD) approach." *International Journal of Biological Macromolecules* 190: 801-809.
315	H. Ramamoorthy, K. Buapan, T. Chiawchan, K. Thamkrongart, & R. Somphonsane (2021). "Exploration of the temperature-dependent correlations present in the structural, morphological and electrical properties of thermally reduced free-standing graphene oxide papers." *Journal of Materials Science* 56: 15134–15150.
314	C. Lima, D. Andrade, G. Moreira, Â. Sousa, A. Leal, J. Figuerêdo, P. Furtado, C. Feitosa, A. Araujo, I. Andrade, J. Miranda, A. Lima, C. Rocha, T. Silva, A.C. Mengarda, J. de Moraes, & J. Rocha (2021). "Antibacterial, Antibiofilm, and Antischistosomal Activity of *Montrichardia linifera* (Arruda) Schott (Araceae) Leaf Extracts." *Scientia Pharmaceutica* 89 (3): 31.
313	Z. Ren, Z. Chen, Y. Zhang, X. Lin, Z. Li, W. Weng, H. Yang, & B. Li (2021). "Effect of heat-treated tea water-insoluble protein nanoparticles on the characteristics of Pickering emulsions." *LWT* 149: 111999.
312	A. Dematei, J.B. Nunes, D.C. Moreira, J.A. Jesus, M.D. Laurenti, A.C.A. Mengarda, M.S. Vieira, C. Pais do Amaral, M.M. Domingues, J. de Moraes, L.F.D. Passero, G. Brand, L.J. Bessa, R. Wimmer, S.A.S. Kuckelhaus, A.M. Tomás, N.C. Santos, A. Plácido, P. Eaton, & J.R.S.A. Leite (2021). "Mechanistic Insights into the Leishmanicidal and Bactericidal Activities of Batroxicidin, a Cathelicidin-Related Peptide from a South American Viper (Bothrops atrox)." *Journal of Natural Products* 84 (6): 1787-1798.
311	F. Xia, J. Quigley, X. Zhang, C. Yang, Y. Wang, & K. Youcef-Toumi (2021). "A modular low-cost atomic force microscope for precision mechatronics education." *Mechatronics* 76: 102550.

Customer Publication List - October, 2025

310	E.O. de Andrades, J.M.A.R. da Costa, F.E.M.L. Neto, A.R. de Araujo, F.O.S. Ribeiro, A.G. Vasconcelos, A.C.J. Oliveira, J.L. Soares Sobrinho, M.P. de Almeida, A.P. Carvalho, J.N. Dias, I.G.M. Silva, P. Albuquerque, I.S. Pereira, D.A. Rabello, A.G.N. Amorim, J.R.S.A. Leite, & D.A. da Silva (2021). "Acetylated cashew gum and fucan for incorporation of lycopene rich extract from red guava (*Psidium guajava* L.) in nanostructured systems: Antioxidant and antitumor capacity." *International Journal of Biological Macromolecules* 191: 1026-1037.
309	C. Su, K. Hirth, Z. Liu, Y. Cao, & J.Y. Zhu (2021). "Maleic acid hydrotropic fractionation of wheat straw to facilitate value-added multi-product biorefinery at atmospheric pressure." *GCB Bioenergy: Bioproducts for a Sustainable Bioeconomy* 13 (9): 1407-1424.
308	M.M. Nelson, J.D. Hoff, M.L. Zeese, & G. Corfas (2021). "Poly (ADP-Ribose) Polymerase 1 Regulates Cajal–Retzius Cell Development and Neural Precursor Cell Adhesion." *Frontiers in Cell and Developmental Biology* 9: 693595.
307	M.H. Sorour, H.A. Hani, H.F. Shaalan, & M. El-Toukhy (2021). "Fabrication and Characterization of Hydrophobic PVDF-based Hollow Fiber Membranes for Vacuum Membrane Distillation of Seawater and Desalination Brine." *Egyptian Journal of Chemistry* 64 (9): 4889-4899.
306	T.A.L. Nunes, M.M. Santos, M.S. de Oliveira, J.M.S. de Sousa, R.R.L. Rodrigues, P.S.A. Sousa, A.R. de Araújo, A.C.T.C. Pereira, G.P. Ferreira, J.A. Rocha, V.R. Junior, M.V. da Silva, & K.A.F. Rodrigues (2021). "Curzerene antileishmania activity: Effects on *Leishmania amazonensis* and possible action mechanisms." *International Immunopharmacology* 100: 108130.
305	P. Fathi-Hafshejani, N. Azam, L. Wang, M.A. Kuroda, M.C. Hamilton, S.Hasim, & M. Mahjouri-Samani (2021). "Two-Dimensional-Material-Based Field-Effect Transistor Biosensor for Detecting COVID-19 Virus (SARS-CoV-2)." *ACS Nano* 15 (7): 11461–11469.
304	X. Wang, S. Tang, S. Chai, P. Wang, J. Qin, W. Pei, H. Bian, Q. Jiang, & C. Huang (2021). "Preparing printable bacterial cellulose based gelatin gel to promote *in vivo* bone regeneration." *Carbohydrate Polymers* 270: 118342.

Customer Publication List - October, 2025

303	N. Chilukoti, T.B. Sil, B. Sahoo, S. Deepa, S. Cherakara, M. Maddheshiya, & K. Garai (2021). “Hsp70 Inhibits Aggregation of IAPP by Binding to the Heterogeneous Prenucleation Oligomers.” *Biophysical Journal* 120 (3): 476-488.
302	D.D. Baciu, R. Bîrjega, V. Mărăscu, R. Zăvoianu, A. Matei, A. Vlad, A. Cojocaru, & T. Visan (2021). “Enhanced voltammetric response of monosodium glutamate on screen-printed electrodes modified with NiAl layered double hydroxide films.” *Surfaces and Interfaces* 24: 101055.
301	L.V. Rebouças, F.C.E. Oliveira, D.P. Pinheiro, M.F.S. Silva, V.P.G. Ferreira, R. Nicolete, A.C.A. Oliveira, R.G. Almeida, E.N. da Silva Júnior, M.S. Rizzo, M.P. Costa, G. Zocolo, F.O.S. Ribeiro, D.A. da Silva, & C. Pessoa (2021). “Liposomes containing 3-arylamino-nor-β-lapachone derivative: Development, characterization, and in vitro evaluation of the cytotoxic activity.” *Journal of Drug Delivery Science and Technology* 62: 102348.
300	L.A.L. Silva, A.A.L. Silva, M.A.S. Rios, M.P. Brito, A.R. Araújo, D.A. Silva, R.R. Peña-Garcia, E.C. Silva-Filho, J.L. Magalhães, J.M.E. Matos, J.A. Osajima, & E.R. Triboni (2021). “Insights into the Antimicrobial Activity of Hydrated Cobaltmolybdate Doped with Copper.” *Molecules* 26 (5): 1267.
299	R. Ridhi, Neeru, S. Gautam, G.S.S. Saini, S.K.Tripathi, J.S. Rawat, & P. Jha (2021). “Study of the effect of orbital on interaction behaviour of SWCNT-metal phthalocyanines composites with ammonia gas.” *Sensors and Actuators B: Chemical* 337: 129767.
298	P. Narin, E. Kutlu-Narin, & S.B. Lisesivdin (2021). “Growth dynamics of mist-CVD grown ZnO nanoplatelets.” *Physica B: Condensed Matter* 614: 413028.
297	M. Sopronyi, C. Nita, J.M. Le Meins, L. Vidal, F. Jipa, E. Axente, C.M. Ghimbeu, & F. Sima (2021). “Laser-assisted synthesis of carbon coatings with cobalt oxide nanoparticles embedded in gradient of composition and sizes.” *Surface and Coatings Technology* 419: 127301.
296	H. Wang, X. Tang, M.A. Arvanitis, V. Yang, N. Stark, C. Liu, J.M. Considine, & J.Y. Zhu (2021). “Colloidal lignin nanoparticles from acid hydrotropic fractionation for producing tough, biodegradable, and UV blocking PVA nanocomposite.” *Industrial Crops and Products* 168: 113584.

Customer Publication List - October, 2025

295	G. Pacheco, A.P. Oliveira, I.R.S.G. Noleto, A.K. Araújo, A.L.F. Lopes, F.B.M. Sousa, L.S. Chaves, E.H.P. Alves, D.F.P. Vasconcelos, A.R. Araujo, L.A.D. Nicolau, M. Magierowski, & J.V.R. Medeiros (2021). "Activation of transient receptor potential vanilloid channel 4 contributes to the development of ethanol-induced gastric injury in mice." *European Journal of Pharmacology* 902: 174113.
294	I.S. Ribeiro, F.J.G. Pontes, M.J.M. Carneiro, N.A. Sousa, V.P.T. Pinto, F.O.S. Ribeiro, D.A. Silva, G.S. Araújo, J.D.B.M. Filho, A.J. Araújo, H.C.B. Paula, J.P.A. Feitosa, & R.C.M. de Paula (2021). "Poly(ε-caprolactone) grafted cashew gum nanoparticles as an epirubicin delivery system." *International Journal of Biological Macromolecules* 179: 314-323.
293	A. Blourchian, A.M. Shaik, N.U. Huynh, & G. Youssef (2021). "Segmental evolution of ultraviolet weathered polyurea." *Journal of Polymer Research* 28: 117.
292	E. Kutlu-Narin, P. Narin, A. Yildiz, & S.B. Lisesivdin (2021). "Effect of magnesium content and growth temperature on structural and optical properties of USCVD-grown MgZnO films." *Applied Physics A* 127: 367.
291	M.A.A. Al.amery & A.R.N.A. Dahham (2021). "Plasma-Assisted Growth of MnO_2 Nanostructures for Sensing Application." *Journal of Physics: Conference Series* 1963: 012025.
290	S.R. Tewfik, M.H. Sorour, H.F. Shaalan, H.A. Hani, A.M.G. Abulnour, & E.S. Sayed (2021). "Assessment of interfacial polymerization modalities on the performance of polyaniline doped polyethersulphone hollow fiber membranes." *Journal of Applied Polymer Science* 138 (21): 50485.
289	A.M. Hadi, M.A. Ismael, & H.A. Alhattab (2021). "Experimental investigation of thermal performance of the graphene-coated Al heat sink." *Materials Today: Proceedings* 42 (Pt 5): 2779-2784.
288	E. Airton de Oliveira Farias, N.J.S. Furtado, I.Y. Lopes de Macêdo, Eric de Souza Gil, F.F. Guimarães, R.S. Bastos, J.A. Rocha, L.C.C. Nunes, R.A. de Sousa Luz, & C. Eiras (2021). "Poly(Alizarin Red S) on pyrolytic graphite electrodes as a new multi-electronic system for sensing oxandrolone in urine." *Biosensors and Bioelectronics* 185: 113234.

Customer Publication List - October, 2025

287	D. Stengel, J.B. Addison, D. Onofrei, N.U. Huynh, G. Youssef, & G.P. Holland (2021). “Hydration-Induced β-Sheet Crosslinking of α-Helical-Rich Spider Prey-Wrapping Silk.” *Advanced Functional Materials* 31: 2007161.
286	R.R.L. Rodrigues, T. A.L. Nunes, A. Rodrigues de Araújo, J.D.B.M. Filho, M.V. Silva, F. Aécio de Amorim Carvalho, O.D.L. Pessoa, H.P.S. Freitas, K. Antonio da Franca Rodrigues, & A.J. Araújo (2021). “Antileishmanial activity of cordiaquinone E towards *Leishmania* (*Leishmania*) *amazonensis*.” *International Immunopharmacology* 90: 107124.
285	N. Li, H. Bian, J.Y. Zhu, P.N. Ciesielski, & X. Pan (2021). “Tailorable cellulose II nanocrystals (CNC II) prepared in mildly acidic lithium bromide trihydrate (MALBTH).” *Green Chemistry* 23: 2778–2791.
284	Y. He, X. Zhao, L. Chen, L. Zhao, & H. Yang (2021). “Effect of electrolysed water generated by sodium chloride combined with sodium bicarbonate solution against *Listeria innocua* in broth and on shrimp.” *Food Control* 127: 108134.
283	M.W. Yu, S. Ishii, S. Li, J.R. Ku, J.H. Yang, K.L. Su, T. Taniguchi, T. Nagao & K.P. Chen (2021). “Quantifying photoinduced carriers transport in exciton–polariton coupling of MoS2 monolayers.” *npj 2D Materials and Applications* 5 (47).
282	F. Freitas, T. Pinheiro de Melo, A. HS Delgado, P. Monteiro, J. Rua, L. Proença, J. Caldeira, A.M. Azul, & J.J. Mendes (2021). “Varying the Polishing Protocol Influences the Color Stability and Surface Roughness of Bulk-Fill Resin-Based Composites.” *Journal of Functional Biomaterials* 12 (1).
281	S.L. Shinde, H.D. Ngo, T.D. Ngo, S. Ishii, & T. Nagao (2021). “Solar-active titanium-based oxide photocatalysts loaded on TiN array absorbers for enhanced broadband photocurrent generation.” *Journal of Applied Physics* 129 (2): 023103.
280	K. Aghilinasrollahabadi, M. Salehi, & T. Fujiwara (2021). “Investigate the influence of microplastics weathering on their heavy metals uptake in stormwater.” *Journal of Hazardous Materials* 408: 124439.

Customer Publication List - October, 2025

279	Z. Ren, Z. Li, Z. Chen, Y. Zhang, X. Lin, W. Weng, H. Yang, & B. Li (2021). “Characteristics and application of fish oil-in-water pickering emulsions structured with tea water-insoluble proteins/κ-carrageenan complexes.” *Food Hydrocolloids* 114: 106562.
278	G.H. Mariano, L.G. Gomes de Sá, E.M. Carmo da Silva, M.A. Santos, J.L. Cardozo Fh, B.O.V. Lira, E.A. Barbosa, A.R. Araujo, J.R.S.A. Leite, M.H.S. Ramada, C. Bloch Jr., A.L. Oliveira, J.A. Chaker, & G.D. Brand (2021). “Characterization of novel human intragenic antimicrobial peptides, incorporation and release studies from ureasil-polyether hybrid matrix.” *Materials Science and Engineering: C* 119: 111581.
277	C. Su, K. Hirth, Z. Liu, Y. Cao, & J.Y. Zhu (2021). “Acid hydrotropic fractionation of switchgrass at atmospheric pressure using maleic acid in comparison with *p*-TsOH: Advantages of lignin esterification.” *Industrial Crops & Products* 159: 113017.
276	Y. Li, B. Jiang, W. Li, J. Wang, & Y. Yang (2021). “The chain microstructure and condensed structure of polyethylene resin used for Biaxially stretched film.” *Journal of Applied Polymer Science* 138 (2): 49652.
275	A.C.J. Oliveira, L.L. Chaves, F.O.S. Ribeiro, L.R.M. de Lima, T.C. Oliveira, F. García-Villén, C. Viseras, R.C.M. de Paula, P.J. Rolim-Neto, F. Hallwass, E.C. Silva-Filho, D.A. da Silva, J.L. Soares-Sobrinho, & M.F.R. Soares (2021). “Microwave-initiated rapid synthesis of phthalated cashew gum for drug delivery systems.” *Carbohydrate Polymers* 254: 117226.
274	A.D. Leão, L.A. da Silva, F.O.S. Ribeiro, D.A. da Silva, E.J. de França, K.A.S. Aquino, & J.L. Soares-Sobrinho (2021). “Influence of Nonmodified Layered Double Hydroxide (LDH) Metal Constituents in PMMA/LDH Nanocomposites.” *Journal of Inorganic and Organometallic Polymers and Materials* 31: 836-850.
273	N. Nikooienejad, M. Maroufi, & R. Moheimani (2021). “Iterative Learning Control for Video-rate Atomic Force Microscopy.” *IEEE/ASME Transactions on Mechatronics* 26 (4): 2127-2138.

Customer Publication List - October, 2025

272	**Book chapter**: Lee S. & Kim J.K (2021). “Label-Free Raman Spectroscopic Techniques with Morphological and Optical Characterization for Cancer Cell Analysis”. In: Kim J.K., Kim J.K., Pack CG. (eds) Advanced Imaging and Bio Techniques for Convergence Science. *Advances in Experimental Medicine and Biology*, vol 1310. Springer, Singapore.
271	**Conference paper:** Cheirdaris D.G. (2021). “Force Spectroscopy in Mechanical Protein Domains Unfolding.” In: Vlamos P. (eds) *GeNeDis 2020* Advances in Experimental Medicine and Biology, vol 1339. Springer, Cham.
270	C. Ozkaya , R. Capan , M. Erdogan , M. Bayrakci , M. Ozmen, & Y. Acikbas (2020). “Fabrication of picoline amide-based calix[4]arene Langmuir-Blodgett thin film for volatile organic vapor sensing application.” *Molecular Crystals and Liquid Crystals* 710 (1): 49-65.
269	M. Ferreira, L.J. Bessa, C.F. Sousa, P. Eaton, D. Bongiorno, S. Stefani, F. Campanile, & P. Gameiro (2020). “Fluoroquinolone Metalloantibiotics: A Promising Approach against Methicillin-Resistant *Staphylococcus aureus*.” *International Journal of Environmental Research and Public Health* 17 (9): 3127.
268	S. Do, S. Stepp, & G. Youssef (2020). “Quasi-static and dynamic characterization of polyurea microspheres reinforced polyurea matrix composite.” *Materials Today Communications* 25: 101464.
267	C. Cai, J. Li, K. Hirth, G.W. Huber, H. Lou, & J. Y. Zhu (2020). “Comparison of Two Acid Hydrotropes for Sustainable Fractionation of Birch Wood.” *ChemSusChem* 13: 4649–4659.
266	M.W. Yu, S. Ishii, S.L. Shinde, N.K. Tanjaya, K.P. Chen, & T. Nagao (2020). “Direct Observation of Photoinduced Charge Separation at Transition-Metal Nitride–Semiconductor Interfaces.” *ACS Applied Materials & Interfaces* 12 (50): 56562-56567.
265	Q. Lin, Y. Yan, X. Liu, B. He, X. Wang, X. Wang, C. Liu, & J. Ren (2020). “Production of Xylooligosaccharide, Nanolignin, and Nanocellulose through a Fractionation Strategy of Corncob for Biomass Valorization.” *Industrial & Engineering Chemistry Research* 59 (39): 17429–17439.

Customer Publication List - October, 2025

264	L.E. Sima, G. Chiritoiu, I. Negut, V. Grumezescu, S. Orobeti, C.V.A. Munteanu, F. Sima, & E. Axente (2020). “Functionalized Graphene Oxide Thin Films for Anti-tumor Drug Delivery to Melanoma Cells.” *Frontiers in Chemistry* 8: 184.
263	A.M.V. Fonseca, G.H.L Sampaio, W.P. Araujo, R.E. da Silva, F.O.S. Ribeiro, M.P. Brito, F.B.M. Sousa, A.A. Torres, A.R. Araújo, & A.S.B. Pinto (2020). “Photodynamic Therapy With Propolis: Antibacterial Effects on *Staphylococcus aureus, Streptococcus mutans* and Escherichia coli Analysed by Atomic Force Microscopy.” *Journal of Lasers in Medical Sciences* 11 (Suppl 1): S107-S112.
262	T. Paul, C. Zhang, B. Boesl, & A. Agarwal (2020). “Correlations to Predict Microstructure and Mechanical Properties of Ultrasonically Cast Metal Matrix Nanocomposites as a Function of Treatment Time.” *Advanced Engineering Materials* 22: 2000413.
261	M.S. Brandão, J.R. Jesus, A.R. de Araújo, J.G. de Carvalho, M. Peixoto, A. Plácido, P. Eaton, R.M. Barros, S.A.S. Kuckelhaus, F.C.D.A. Lima, A. Batagin-Neto, D.A. da Silva, J.R.S.A. Leite, & E. Montagna (2020). “Acetylated cashew-gum-based silver nanoparticles for the development of latent fingerprints on porous surfaces.” *Environmental Nanotechnology, Monitoring & Management* 14: 100383.
260	N. Bonatt, J. Carlin, F. Chen, Y. Tian, & Y. Zheng (2020). “A Novel Probe-to-Probe Method for Measuring Thermal Conductivity of Individual Electrospun Nanofibers.” *Materials* 13 (22): 5220.
259	F.O.S. Ribeiro, G.S. de Araújo, M.G.A. Mendes, T.C. Daboit, L.M. Brito, C. Pessoa, L.R.M. de Lima, R.C.M. de Paula, R.S. Bastos, J.A. Rocha, E.B. Sa, T. C. de Oliveira, A.C.J. Oliveira, J.L. Soares-Sobrinho J.R.S.A. Leite, A.R. de Araújo, & D.A. da Silva (2020). “Structural characterization, antifungal and cytotoxic profiles of quaternized heteropolysaccharide from *Anadenanthera colubrina*.” *International Journal of Biological Macromolecules* 165 (Pt A): 279-290.
258	E.Kutlu-Narin, P. Narin, A.Yildiz, & S.B.Lisesivdin (2020). “Effects of annealing under different atmospheres on structural and optical properties of USCVD grown ZnO nanostructures.” *Materials Science and Engineering: B* 254: 114506.

Customer Publication List - October, 2025

257	I. Khmelinskii & V.I. Makarov (2020). “Superluminescence and Macroscopic Exciton Propagation in Freestanding ZnO thin films.” *Journal of Physics and Chemistry of Solids* 146: 109568.
256	R. Sharma, T.C. Asmara, K.R. Sahoo, S.L. Grage, R. Zhang, J. Sun, S. Das, A.S. Ulrich, A. Rusydi, S. Aryasomayajula, R. Paulmurugan, D. Liepmann, D.S. Kumar, P. Somasundaran, V. Renugopalakrishnan, & T.N. Narayanan (2020). “Structural and Electronic Transport Properties of Fluorographene Directly Grown on Silicates for Possible Biosensor Applications.” *ACS Applied Nano Materials* 3 (6): 5399–5409.
255	J.N. Dias, C.S. Silva, A.R. de Araújo, J.M.T. Souza, P.H.H.V. Júnior, W.F. Cabral, M.G. da Silva, P. Eaton, J.R.S.A. Leite, A.M. Nicola, P. Albuquerque, & I. Silva-Pereira (2020). “Mechanisms of action of antimicrobial peptides ToAP2 and NDBP-5.7 against *Candida albicans* planktonic and biofilm cells.” *Scientific Reports* 10: 10327.
254	M. Deliorman, F.K. Janahi, P. Sukumar, A. Glia, R. Alnemari, S. Fadl, W. Chen, & M.A. Qasaimeh (2020). “AFM-compatible microfluidic platform for affinity-based capture and nanomechanical characterization of circulating tumor cells.” *Microsystems & Nanoengineering* 6: 20.
253	S. Liu, R. Kishen, R. Krishnan, D. Dahal, & B. Lüssem (2020). “Analytic Device Model of Organic Field-Effect Transistors with Doped Channels.” *ACS Applied Materials & Interfaces* 12 (44): 49857–49865.
252	M.E. Farahat, A. Laventure, M.A. Anderson, M. Mainville, F. Tintori, M. Leclerc, E.L. Ratcliff, & G.C. Welch (2020). “Slot-Die-Coated Ternary Organic Photovoltaics for Indoor Light Recycling.” *ACS Applied Materials & Interfaces* 12 (39): 43684– 43693.
251	P. Peng & A.A. Park (2020). “Supercritical CO2-induced alteration of a polymer–metal matrix and selective extraction of valuable metals from waste printed circuit boards.” *Green Chemistry* 22: 7080-7092.
250	T. Turiv, J. Krieger, G. Babakhanova, H. Yu, S.V. Shiyanovskii, Q. Wei, M. Kim, & O.D. Lavrentovich (2020). “Topology control of human fibroblast cells monolayer by liquid crystal elastomer.” *Science Advances* 6 (20): eaaz6485.

Customer Publication List - October, 2025

249	R.E. da Silva, F.O.S. Ribeiro, A.M.A. de Carvalho, T.C. Daboit, J.D.B. Marinho- Filho, T.S. Matos, O.D.L. Pessoa, J.R.S.A.Leite, A.R. de Araújo, & M.J. dos Santos Soares (2020). "Antimicrobial and antibiofilm activity of the benzoquinone oncocalyxone A." *Microbial Pathogenesis* 149: 104513.
248	H. Wang, J.J. Zhu, Q. Ma, U.P. Agarwal, R. Gleisner, R. Reiner, C. Baez, & J.Y. Zhu (2020). "Pilot-Scale Production of Cellulosic Nanowhiskers With Similar Morphology to Cellulose Nanocrystals." *Frontiers in Bioengineering and Biotechnology* 8: 565084.
247	L.E. Sima, G. Chiritoiu, I. Negut, V. Grumezescu, S. Orobeti, C.V.A. Munteanu, F. Sima, & E. Axente (2020). "Functionalized Graphene Oxide Thin Films for Anti-tumor Drug Delivery to Melanoma Cells." *Frontiers in Chemistry* 8: 184.
246	M.W. Yu, S. Ishii, J.R. Ku. J.H. Yang, C.H. Huang, T.C. Lu, T.R. Lin, T. Nagao, & K.P. Chen (2020). "Graphene-Loaded Plasmonic Zirconium Nitride and Gold Nanogroove Arrays for Surface-Charge Modifications." *ACS Applied Nano Materials* 3 (6): 5002-5007.
245	M. Mahdavi, M.B. Coskun, & S.O.R. Moheimani (2020). "High Dynamic Range AFM Cantilever With a Collocated Piezoelectric Actuator-Sensor Pair." *Journal of Microelectromechanical Systems* 29 (2): 260-267.
244	M. Mahdavi, N. Nikooienejad, & S.O.R. Moheimani (2020). "AFM Microcantilever With a Collocated AlN Sensor-Actuator Pair: Enabling Efficient Q-Control for Dynamic Imaging." *Journal of Microelectromechanical Systems* 29 (5): 661-668.
243	A. Sonawane, M.A. Mujawar, & S. Bhansali (2020). "Effects of cold atmospheric plasma treatment on the morphological and optical properties of plasmonic silver nanoparticles." *Nanotechnology* 31 (36): 365706.
242	A.M.A. Abouelata, S.M.A. Abdallah, M.H. Sorour, N.A. Shawky, & M.A. Abdel-Fatah (2020). "Modification and ionic stimulation of hollow fiber membrane by electric field for water treatment." *Journal of Applied Polymer Science* 137 (39): 49190.

Customer Publication List - October, 2025

241	F.O.S. Ribeiro, F.F. Dourado, M.F.S. Silva, L.M. Brito, C. Pessoa, L.R.M. de Lima, R.C.M. de Paula, J.R.S.A. Leite, A.R. de Araújo, & D.A. da Silva (2020). "Anti-proliferative profile of *Anacardium occidentale* polysaccharide and characterization by AFM." *International Journal of Biological Macromolecules* 156: 981-987.
240	K. You, K. Kim, S. Han, & S. Kwon (2020). "Direct measurement of interaction force between solid surface and air bubble: Relationship between interaction force and contact angle." *Minerals Engineering* 152: 106358.
239	S. Do, S. Stepp, & G. Youssef (2020). "Quasi-static and dynamic characterization of polyurea microspheresreinforced polyurea matrix composite." *Materials Today Communications* 25: 101464.
238	P.S. Marqués, F. Tintori, J.M.A. Castán, P. Josse, C. Dalinot, M. Allain, G. Welch, P. Blanchard, & C. Cabanetos (2020). "Indeno[1,2-*b*]thiophene End-capped Perylene Diimide: Should the 1,6-Regioisomers be systematically considered as a byproduct?" *Scientific Reports* 10: 3262.
237	Md. Abdul Momin, & A.H. Bhuiyan (2020). "Topological properties and direct current electrical charge transport mechanism of plasma polymerized cyclohexane thin films." *Thin Solid Films* 704: 138014.
236	L.J. Bessa, M.P. de Almeida, P. Eaton, E. Pereira, & P. Gameiro (2020). "Silver Nanostars-Coated Surfaces with Potent Biocidal Properties." *International Journal of Environmental Research and Public Health* 17 (21): 7891.
235	S. Kim, M.A. Saeed, S.H. Kim, & J.W. Shim (2020). "Enhanced hole selecting behavior of WO3 interlayers for efficient indoor organic photovoltaics with high fill-factor." *Applied Surface Science* 527: 146840.
234	S. Shoji, X. Peng, A. Yamaguchi, R. Watanabe, C. Fukuhara, Y. Cho, T. Yamamoto, S. Matsumura, M.W. Yu, S. Ishii, T. Fujita, H. Abe, & M. Miyauchi (2020). "Photocatalytic uphill conversion of natural gas beyond the limitation of thermal reaction systems." *Nature Catalysis* 3: 148-153.

Customer Publication List - October, 2025

233	F.M. Sombra, A.R. Richter, A.R. de Araújo, F.O.S. Ribeiro, J.F.S. Mendes, R.O. Dos Santos Fontenelle, D.A. da Silva, H.C.B. Paula, J.P.A. Feitosa, F.M. Goycoolea, & R.C.M. de Paula (2020). "Development of amphotericin B-loaded propionate *Sterculia striata* polysaccharide nanocarrier." *International Journal of Biological Macromolecules* 146: 1133-1141.
232	I.S. Sene, V. Costa, D.C. Braz, E.A.O. Farias, G.E. Nunes, I.H. Bechtold, L.C.C. Nunes, C. Eiras, & C.H.N. Costa (2020). "A Point of Care Lateral Flow Assay for Rapid and Colorimetric Detection of Interleukin 6 and Perspectives in Bedside Diagnostics." *Journal of Clinical Medicine Research* 2 (3): 1-17.
231	C. Cai, K. Hirth, R. Gleisner, H. Lou, X. Qiu, & J.Y. Zhu (2020). "Maleic acid as a dicarboxylic acid hydrotrope for sustainable fractionation of wood at atmospheric pressure and ≤100 °C: mode and utility of lignin esterification." *Green Chemistry* 22: 1605-1617.
230	N.U. Huynh, S. Kassegne, & G. Youssef (2020). "Comparative study of tuning of microfabrication parameters for improving electrochemical performance of platinum and glassy carbon microelectrodes in neural prosthetics." *Microsystem Technologies* 26: 775–785.
229	G.L. Caneppele, D.D. Reis, A.-M. B. Goncalves, G.C. Da Silva, & C.A. Martins (2020). "Active Porous Electrodes Prepared by Ultrasonic-bath and their Application in Glucose/O_2 Electrochemical Reactions." *Electroanalysis* 32: 1-10.
228	M. Rahmati, S.V. Dayneko, M. Pahlevani, & G.C. Welch (2020). "Interlayer Engineering of Flexible and Large-Area Red Organic-Light-Emitting Diodes Based on an N-Annulated Perylene Diimide Dimer." *ACS Applied Electronic Materials* 2: 48-55.
227	S.V. Dayneko, M. Rahmati, M. Pahlevani, & G.C. Welch (2020). "Solution processed red organic light-emitting-diodes using an N-annulated perylene diimide fluorophore." *Journal of Materials Chemistry C* 8: 2314-2319.
226	L. Chen, X. Zhao, J. Wu, Q. Liu, X. Pang, & H. Yang (2020). "Metabolic characterisation of eight Escherichia coli strains including "Big Six" and acidic responses of selected strains revealed by NMR spectroscopy." *Food Microbiology* 88: 103399.

Customer Publication List - October, 2025

225	A.M. Shaik, N.U. Huynh, & G. Youssef (2020). “Micromechanical behavior of ultraviolet-exposed polyurea.” *Mechanics of Materials* 140: 103244.
224	F.B. Araruna, F.O.S. Araruna, L.P.L.A. Pereira, M.C.A Brito, P.V. Quelemes, A.R. de Araújo-Nobre, T.M. de Oliveira, D.A. da Silva, J.R.S.A. Leite, D.R. Coutinho, M.O. da Rocha Borges, & A.C.R. Borges (2020). “Green syntheses of silver nanoparticles using babassu mesocarp starch (Attalea speciosa Mart. ex Spreng.) and their antimicrobial applications.” *Environmental Nanotechnology, Monitoring & Management* 13: 100281.
223	F.A. Batista, S.B.C. Fontele, L.K.B. Santos, L.A. Filgueiras, S.Q. Nascimento, J.M. de Castro e Sousa, J.C.R. Gonçalves, & A.N. Mendes (2020). “Synthesis, characterization of α-terpineol-loaded PMMA nanoparticles as proposed of therapy for melanoma.” *Materials Today Communications* 22: 100762.
222	A.K.A. de Sousa, F.O.S. Ribeiro, T.M. de Oliveira, A.R. de Araújo, J.N. Dias, P. Albuquerque, I. Silva-Pereira, A.C.J. Oliveira, P.V. Quelemes, J.R.S.A. Leite, & D.A. da Silva (2020). “Quaternization of angico gum and evaluation of anti-staphylococcal effect and toxicity of their derivatives.” *International Journal of Biological Macromolecules* 150: 1175-1183.
221	**Conference paper:** M. Mahdavi, M.B. Coskun, H.M. Nasrabadi, & S.O.R. Moheimani (2020). “A High Dynamic Range AFM Probe with Collocated Piezoelectric Transducer Pairs.” *2020 IEEE 33rd International Conference on Micro Electro Mechanical Systems (MEMS)* pp. 50-53.
220	**Conference paper:** O. Kaveh, M.B. Coskun, M. Mahdavi, & S.O.R. Moheimani (2020). “FPGA-Based Characterization and Q-Control of an Active AFM Cantilever.” *2020 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM)* pp. 2062-2067
219	**Conference paper:** T. Srisantirut, W. Pengchan, & T. Phetchakul (2020). “Diamond-like Carbon Thin Film Coating for Application on Heterojunction Solar Cells by ECR-CVD System.” *IOP Conf. Series: Materials Science and Engineering* 855: 012009.

Customer Publication List - October, 2025

218	**Thesis:** A. Sonawane (2020). "*Understanding the Effects of Plasma Assisted Nanoparticle Deposition for the Enhancement of Optical and Electrochemical Response*." Florida International University Doctoral Thesis.
217	H.R.S. Lima, E.A.O. Farias, P.R.S. Teixeira, C. Eiras, & L.C.C. Nunes (2019). "Blend films based on biopolymers extracted from babassu mesocarp (Orbignya phalerata) for the electrochemical detection of methotrexate antineoplastic drug." *Journal of Solid State Electrochemistry* 23: 3153–3164.
216	Y. Li, K. Khivantsev, Y. Tang, L. Nguyen, M. Fathizadeh, J. Liu, M. Yu, & F. Tao (2019). "Synthesis of Na@nanoFAU Zeolite Catalyst and Catalysis for Production of Formic Acid with Na@nanoFAU." *Catalysis Letters* 149: 1965-1974.
215	S. Han, K. You, K. Kim, & J. Park (2019). "Measurement of the Attachment Force between an Air Bubble and a Mineral Surface: Relationship between the Attachment Force and Flotation Kinetics." *Langmuir* 35: 9364-9373.
214	C. Canugovi, M.D. Stevenson, A.E. Vendrov, T. Hayami, J. Robidoux, H. Xiao, Y.-Y. Zhang, D.T. Eitzman, M.S. Runge, & N.R. Madamanchi (2019). "Increased mitochondrial NADPH oxidase 4 (NOX4) expression in aging is a causative factor in aortic stiffening." *Redox Biology* 26: 101288.
213	A.R. de Araújo, J. Ramos-Jesus, T.M. de Oliveira, A.M.A. de Carvalho, P.H.M. Nunes, T.C. Daboit, A.P. Carvalho, M.F. Barroso, M.P. de Almeida, A. Plácido, A. Rodrigues, C.C. Portugal, R. Socodato, J.B. Relvas, C. Delerue-Matos, D.A. da Silva, P. Eaton, & J.R.S.A. Leite (2019). "Identification of Eschweilenol C in derivative of *Terminalia fagifolia* Mart. and green synthesis of bioactive and biocompatible silver nanoparticles." *Industrial Crops and Products* 137: 52-65.
212	Y. Yu, B. Jin, M.I. Jamil, D. Cheng, Q. Zhang, X. Zhan, & F. Chen (2019). "Highly Stable Amphiphilic Organogel with Exceptional Anti-icing Performance." *ACS Applied Materials & Interfaces* 11: 12838-12845.
211	N. Nikooienejad, M. Maroufi, & S.O.R. Moheimani (2019). "Rosette-scan video-rate atomic force microscopy: Trajectory patterning and control design." *Review of Scientific Instruments* 90: 073702.

Customer Publication List - October, 2025

210	I.R.S.G. Nolêto, B. Iles, M.S. Alencar, A.L.F. Lopes, A.P. Oliveira, G. Pacheco, F.B.M. Sousa, A.R. Araújo, E.H.P. Alves, D.F.P. Vasconcelos, L.K.A.M. Leal, A.J. Araújo, J.D.B.M. Filho, & J.V.R. Medeiros (2019). "Alendronate-induced gastric damage in normoglycemic and hyperglycemic rats is reversed by metformin." *European Journal of Pharmacology* 856: 172410.
209	X. Zhao, Y. Zhou, L. Zhao, L. Chen, Y. He, & H. Yang (2019). "Vacuum impregnation of fish gelatin combined with grape seed extract inhibits protein oxidation and degradation of chilled tilapia fillets." *Food Chemistry* 294: 316-325.
208	A.R. de Araujo, B. Iles, K. de Melo Nogueira, J.N. Dias, A. Plácido, A. Rodrigues, P. Albuquerque, I. Silva-Pereira, R. Socodato, C.C. Portugal, J.B. Relvas, L.M.C. Véras, F.C.D.A. Lima, A. Batagin-Neto, J.V.R. Medeiros, P.H.M. Nunes, P. Eaton, & J.R.S.A. Leite (2019). "Antifungal and anti-inflammatory potential of eschweilenol C-rich fraction derived from *Terminalia fagifolia* Mart." *Journal of Ethnopharmacology* 240: 111941.
207	J.B. Morales-Cuevas, S. Pérez-Sicairos, S.W. Lin, & M.I. Salazar-Gastélum (2019). "Evaluation of a modified spray-applied interfacial polymerization method for preparation of nanofiltration membranes." *Journal of Applied Polymer Science* 136 (42): 48129.
206	Y.-J. You, C.E. Song, Q.V. Hoang, Y. Kang, J.S. Goo, D.-H. Ko, J.-J. Lee, W.S. Shin, & J.W. Shim (2019). "Highly Efficient Indoor Organic Photovoltaics with Spectrally Matched Fluorinated Phenylene-Alkoxybenzothiadiazole-Based Wide Bandgap Polymers." *Advanced Functional Materials* 29: 1901171.
205	M. Rahmati, S. Dayneko, M. Pahlevani, & Y. Shi (2019). "Highly Efficient Quantum Dot Light-Emitting Diodes by Inserting Multiple Poly(methyl methacrylate) as Electron-Blocking Layers." *Advanced Functional Materials* 29: 1906742.
204	Q. Liu, X. Jin, X. Feng, H. Yang, & C. Fu (2019). "Inactivation kinetics of Escherichia coli O157:H7 and Salmonella Typhimurium on organic carrot (Daucus carota L.) treated with low concentration electrolyzed water combined with short-time heat treatment." *Food Control* 106: 106702.

Customer Publication List - October, 2025

203	M. Fathizadeh, W.L. Xu, M.Shen, E.Jeng, F. Zhou, Q. Dong, D. Behera, Z. Song, L. Wang, A. Shakouri, K. Khivantsev, & M. Yu (2019). “Antifouling UV-treated GO/ PES hollow fiber membranes in a membrane bioreactor (MBR).” *Environmental Science: Water Research & Technology* 5: 1244-1252.
202	S.-C. Shin, Y.-J. You, J.S. Goo, & J.W. Shim (2019). “In-depth interfacial engineering for efficient indoor organic photovoltaics.” *Applied Surface Science* 495: 143556.
201	G. Youssef, G. Pessoa, & S. Nacy (2019). “Effect of elevated operating temperature on the dynamic mechanical performance of E-glass/epoxy composite.” *Composites Part B: Engineering* 173: 106937.
200	N.D. Dionisio, E.A.d. Farias, T.A. Marques, P.V. Quelemes, A.R. de Araujo, F.M. Fonseca, L.N. Costa, J.M.E. Matos, J.R.S.A. Leite, P. Eaton, & C. Eiras (2019). “Layer-by-layer films based on polyaniline, titanate nanotubes, and cetyl trimethyl ammonium bromide for antifungal coatings.” *Journal of Coatings Technology and Research* 16 (5): 1253–1262.
199	J. Li, Q. Yan, X. Zhang, J. Zhang, & Z. Cai (2019). “Efficient Conversion of Lignin Waste to High Value Bio-Graphene Oxide Nanomaterials.” *Polymers* 11 (4): 623.
198	F. Shadnoush, R. Arjmand, F. Rahim, & J. Saki (2019). “Study of Ethinyl Estradiol Activity Against Promastigotes, Axenic and Macrophage-Dwelling Amastigotes of *Leishmania infantum* by Using Atomic Force Microscopy and Methyl Thiazolyl Tetrazolium Methods.” *Jundishapur Journal of Microbiology* 12 (8): e90857.
197	S.S. Nogueira, A.R. de Araujo-Nobre, A.C. Mafud, M.A. Guimarães, M.M.M. Alves, A. Plácido, F.A.A. Carvalho, D.D.R. Arcanjo, Y. Mascarenhas, F.G. Costa, P. Albuquerque, P. Eaton, J.R.S.A. Leite, D.A. da Silva, & V.S. Cardoso (2019). “Silver nanoparticle stabilized by hydrolyzed collagen and natural polymers: Synthesis, characterization and antibacterial-antifungal evaluation.” *International Journal of Biological Macromolecules* 135: 808-814.
196	M. Hamer, R.M. Caraballo, P.J. Eaton, & C. Medforth (2019). “Nanoparticles as template for porphyrin nanostructure growth.” *Journal of Porphyrins and Phthalocyanines* 23 (04n05): 526-533.

Customer Publication List - October, 2025

195	Y. Cai, X. Piao, X. Yao, E. Nie, Z. Zhang, & Z. Sun (2019). “A facile method to prepare silver nanowire transparent conductive film for heaters.” *Nanotechnology* 249: 66-69.
194	M.B. Coskun, M.Baan, A. Alipour, & S.O.R. Moheimani (2019). “Design, Fabrication, and Characterization of a Piezoelectric AFM Cantilever Array.” *IEEE Conference on Control Technology and Applications (CCTA)* 19240106.
193	F.B. Araruna, T.M. de Oliveira, P.V. Quelemes, A.R. de Araújo-Nobre, A. Plácido, A.G. Vasconcelos, R.C.M. de Paula, A.C. Mafud, M.P. de Almeida, C. Delerue-Matos, Y.P. Mascarenhas, P. Eaton, J.R.S.A. Leite, & D.A. da Silva (2019). “Antibacterial application of natural and carboxymethylated cashew gum-based silver nanoparticles produced by microwave-assisted synthesis.” *Carbohydrate Polymers* 115260.
192	A. Amorim, A.C. Mafud, S. Nogueira, J. Ramos-Jesus, A.R. de Araujo, A. Plácido, M.B. Neta, M.M.M. Alves, F.A.A. Carvalho, D.D.R. Arcanjo, S. Braun, M.S. Lopez, B. Lopez-Ruiz, C. Delerue-Matos, Y. Mascarenhas, D. Silva, P. Eaton, & J.R.S.A. Leite (2019). “Copper nanoparticles stabilized with cashew gum: Antimicrobial activity and cytotoxicity against 4T1 mouse mammary tumor cell line.” *Journal of Biomaterials Applications* 34 (2): 188-197.
191	A. Groza, D.B. Dreghici, & M. Ganciu (2019). “Calcium Phosphate Layers Deposited on Thermal Sensitive Polymer Substrates in Radio Frequency Magnetron Plasma Discharge.” *Coatings* 9 (11): 709.
190	M.M. Morgan, M. Nazari, T. Pickl, J.M. Rautiainen, H.M. Tuononen, W.E. Piers, G.C. Welch, & B.S. Gelfand (2019). “Boron–nitrogen substituted dihydroindeno[1,2-b]fluorene derivatives as acceptors in organic solar cells.” *ChemComm* 55: 11095-11098.
189	L.J. Bessa, J.R. Manickchand, P. Eaton, J.R.S.A. Leite, G.D. Brand, & P. Gameiro (2019). “Intragenic Antimicrobial Peptide Hs02 Hampers the Proliferation of Single- and Dual-Species Biofilms of *P. aeruginosa* and *S. aureus*: A Promising Agent for Mitigation of Biofilm-Associated Infections.” *International Journal of Molecular Sciences* 20 (14): 3604.

Customer Publication List - October, 2025

188	P. Eaton, C.P. do Amaral, S.C.P. Couto, M.S. Oliveira, A.G. Vasconcelos, T.K.S. Borges, S.A.S. Kückelhaus, J.R.S.A. Leite, & M.I. Muniz-Junqueira (2019). “Atomic Force Microscopy Is a Potent Technique to Study Eosinophil Activation.” *Frontiers in Physiology* 10: 1261.
187	Y. Zhou & H. Yang (2019). “Effects of calcium ion on gel properties and gelation of tilapia (Oreochromis niloticus) protein isolates processed with pH shift method.” *Food Chemistry* 277: 327-335.
186	P.K. Rastogi, K.R. Sahoo, P.Thakur, R.Sharma, S.Bawari, R.Podila, & N.T. Narayanan (2019). “Graphene-hBN non-van der Waals vertical heterostructures for four electron oxygen reduction reaction.” *Physical Chemistry Chemical Physics* 21 (7): 3942-3953.
185	D.R. Chopra, J.S. Pearson, D. Durant, R. Bhakta, & A.R. Chourasia (2019). “Investigation of Ti/CuO interface by X-ray photoelectron spectroscopy and atomic force microscopy.” *Surface and Interface Analysis* 51 (2): 246-253.
184	M. Fathizadeh, H.N. Tien, K. Khivantsev, Z. Song, F. Zhou, & M. Yu (2019). “Polyamide/nitrogen-doped graphene oxide quantum dots (N-GOQD) thin film nanocomposite reverse osmosis membranes for high flux desalination." *Desalination* 451: 125-132.
183	S.W. Lin, A.V. Martínez-Ayala, S. Pérez-Sicairos, & R.M. Félix-Navarro (2019). “Preparation and characterization of low-pressure and high MgSO4 rejection thin-film composite NF membranes via interfacial polymerization process.” *Polymer Bulletin* 76**:** 5619–5632.
182	Y. Cai, X.Piao, X. Yao, W. Gao, E.Nie, Z. Zhang, & Z. Sun (2019). “Transparent conductive film based on silver nanowires and single-wall carbon nanotubes for transparent heating films.” *Nanotechnology* 30 (22): 225201.
181	C. Guarneros-Aguilar, O. Calzadilla, J.A. Barón-Miranda, J.L. Fernandez-Muñoz, & F. Caballero-Briones (2019). “Phase control in selenium electrodeposition with bath temperature and deposition potential.” *Materials Research Express* 6 (6): 066412.
180	R. Wang, Q. Ma, H. Zhang, Z. Ma, R. Yang, & J.Y. Zhu (2019). “Producing Conductive Graphene–Nanocellulose Paper in One-pot.” *Journal of Polymers and the Environment* 27: 148–157.

Customer Publication List - October, 2025

179	F.M. Sombra, A.R. Richter, A.R. de Araújo, F.S. Ribeiro, J.S. Mendes, R.O. Fontenelle, D.A. da Silva, H.C.B. de Paula, J.P. Feitosa, F.M. Goycoolea, & R.C.M. de Paula (2019). "Nanocapsules of Sterculia striata acetylated polysaccharide as a potential monomeric amphotericin B delivery matrix." *International Journal of Biological Macromolecules* 130: 655-663.
178	A.C. Oliveira, A.R. de Araújo, P.V. Quelemes, D. Nadvorny, J.L. Soares-Sobrinho, J.R.S. Leite, E.C. da Silva-Filho, & D.A. da Silva (2019). "Solvent-free production of phthalated cashew gum for green synthesis of antimicrobial silver nanoparticles." *Carbohydrate Polymers* 213: 176-183.
177	E.V. Silva, A.C. Oliveira, Y.B.G. Patriota, A.J. Ribeiro, F. Veiga, F. Hallwass, E. C. Silva-Filho, D.A. da Silva, M.F. Soares, A.G. Wanderley, & J.L. Soares-Sobrinho (2019). "Solvent-free synthesis of acetylated cashew gum for oral delivery system of insulin." *Carbohydrate Polymers* 207: 601-608.
176	B.N. Ratha, R.K. Kar, S. Kalita, S. Kalita, S. Raha, A. Singha, K. Garai, B. Mandal, & A. Bhunia (2019). "Sequence specificity of amylin-insulin interaction: a fragment-based insulin fibrillation inhibition study." *Biochimica et Biophysica Acta (BBA) - Proteins and Proteomics* 1867 (4): 405-415
175	J. Rodrigues, A.R. de Araújo, N.A. Pitombeira, A. Plácido, M.P. de Almeida, L.M.C. Veras, C. Delerue- Matos, F.C.D.A. Lima, A.B. Neto, R.C.M. de Paula, J.P.A. Feitosa, P. Eaton, J.R.S.A. Leite, & D.A. da Silva (2019). "Acetylated cashew gum-based nanoparticles for the incorporation of alkaloid epiisopiloturine." *International Journal of Biological Macromolecules* 128: 965-972.
174	L.C.Sow, N.Z.Y. Toh, C.W. Wong, & H. Yang (2019). "Combination of sodium alginate with tilapia fish gelatin for improved texture properties and nanostructure modification." *Food Hydrocolloids* 94: 459-467
173	L. Chen, H. Zhang, Q. Liu, X. Pang, X. Zhao, & H. Yang (2019). "Sanitising efficacy of lactic acid combined with low-concentration sodium hypochlorite on Listeria innocua in organic broccoli sprouts." *International Journal of Food Microbiology* 295: 41-48.

Customer Publication List - October, 2025

172	L. Zhao, M.Y. Zhao, C.P. Phey, & H. Yang (2019). “Efficacy of low concentration acidic electrolysed water and levulinic acid combination on fresh organic lettuce (Lactuca sativa Var. Crispa L.) and its antimicrobial mechanism.” *Food Control* 101: 241-250.
171	M. Andrews, A. Smirnova, D. Sharp, S. Taylor, J. Cobb, & D. Boucher (2019). “Aggregate dispersions to enhance the intrachain order in surfactant-stabilized aqueous colloids of poly(3-hexylthiophene).” *Journal of Molecular Liquids* 277: 996-1004.
170	N. Mihailescu, M.E. Haskoylu, C. Ristoscu, M.S. Bostan, M. Sopronyi, M.S. Eroğlu, M.C. Chifiriuc, C.C. Mustaciosu, E. Axente, E.T. Oner, & I.N. Mihailescu (2019). “Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE.” *Applied Surface Science* 466: 628-636.
169	D.M. Dryden, R.J. Nikolic, & M.S. Islam (2019). “Photogalvanic Etching of *n*-GaN for Three-Dimensional Electronics.” *Journal of Electronic Materials* 48**:** 3345-3350.
168	Y. Villegas-Peralta, M.A. Correa-Murrieta, E.R. Meza-Escalante, E. Flores-Aquino, J. Álvarez-Sánchez, & R.G. Sanchez-Duarte (2019). “Effect of the preparation method in the size of chitosan nanoparticles for the removal of allura red dye.” *Polymer Bulletin* 76**:** 4415–4430.
167	**Book chapter**: L.M. Mim, N. Sultana, H. Hasbullah, & M. Aziz (2019). “Nanofiber Electrospun Membrane Based on Biodegradable Polymers for Biomedical & Tissue Engineering Application.” *Nanofiber Membranes for Medical, Environmental, and Energy Applications* Publisher: CRC Press, Taylor & Francis Group p.44.
166	**Conference paper:** M. Maroufi, A. Alipour, H. Alemansour, & S.O.R. Moheimani (2019). “Design and Characterization of a MEMS Probe Scanner for On-chip Atomic Force Microscopy.” *2019 International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS)* 19045995.
165	**Thesis:** C. Deger (2019). “*Current-Driven Generation and Stabilization of Magnetic Skyrmions*.” Marmara University, Doctoral Thesis.

Customer Publication List - October, 2025

164	**Thesis:** D.M. Dryden (2019). "*Electrochemical Fabrication of High-Aspect Ratio Nanostructures*." University of California Davis, Doctoral Thesis.
163	**Patent**: B.M. Ahn, S.H. Park & T.H. Song. Substrate for optical device and optical device package having the same. US20190165219A1 (https:// patents.google.com/patent/US20190165219A1/en).
162	**Patent**: Zihlmann C. & Bufler M. Bone substitute material. US20190184059A1 (https://patents.google.com/patent/US20190184059A1/en).
161	J.S. Goo, S.-C. Shin, Y.-J. You, & J.W. Shim (2018). "Polymer surface modification to optimize inverted organic photovoltaic devices under indoor light conditions." *Solar Energy Materials and Solar Cells* 184: 31-37.
160	T. Kotwica, J. Domaradzki, D. Wojcieszak, A. Sikora, M. Kot, & D. Schmeisser (2018). "Analysis of surface properties of Ti-Cu-Ox gradient thin films using AFM and XPS investigations." *Materials Science-Poland* 36 (4): 761-768.
159	L.J. Bessa,, P. Eaton, A. Dematei, A. Plácido, N. Vale, P. Gomes, C. Delerue-Matos, J.R.S.A. Leite, & P. Gameiro (2018). "Synergistic and Antibiofilm Properties of Ocellatin Peptides Against Multidrug-Resistant Pseudomonas Aeruginosa." *Future Microbiology* 13 (2): 151–163.
158	R. Wang, H. Bian, H. Ji, & R. Yang (2018). "Preparation of lignocellulose/graphene composite conductive paper." *Cellulose* 25 (10): 6139-6149.
157	G. Dorcioman, O. Fufa, V. Craciun, M. Miroiu, P. Garoi, E. Axente, F. Sima, & D. Craciun (2018). "Investigations Of Thin Titanium Oxide Films Grown By Reactive Pulsed Laser Deposition." *Romanian Journal of Oral Rehabilitation* 10 (3): 41-49.
156	S. Jacobeen, J.T. Pentz, E. C. Graba, C. G. Brandys, W.C. Ratcliff, & P.J. Yunker (2018). "Cellular packing, mechanical stress and the evolution of multicellularity." *Nature Physics* 14: 286–290.
155	X. Feng, S. Hang, Y. Zhou, Q. Liu, & H. Yang (2018). "Bromelain Kinetics and Mechanism on Myofibril from Golden Pomfret *(Trachinotus blochii)*." *Journal of Food Science* 83 (8): 2148-2158.

Customer Publication List - October, 2025

154	S.M.S. Morais, N.F. Rodigues, N.I.O. da Silva, E.A. Salvador, I.R. Franco, G.A.P. de Souza, P.H.C. da Silva, L.G.N. de Almeida, R.P. Rocha, A.C.T.C. Pereira, G.P. Ferreira, P. V. Quelemes, M.P. de Araújo, F.F. Sperandio, L.J.S. Santos, O.A.M. Filho, L.C.C. Malaquias, & L.F.L. Coelho (2018). "Serum albumin nanoparticles vaccine provides protection against a lethal *Pseudomonas aeruginosa* challenge." *Vaccine* 36 (43): 6408-6415.
153	Y. Peñaloza-Mendoza, F.C. Alvira, F. Caballero-Briones, C Guarneros-Aguilar, & L Ponce (2018). "Influence of laser pulse regime on the structure and optical properties of TiO_2 nanolayers." *Materials Research Express* 5 (12): 125022.
152	H. Bian, L. Jiao, R. Wang, X. Wang, W. Zhu, & H. Dai (2018). "Lignin nanoparticles as nano-spacers for tuning the viscoelasticity of cellulose nanofibril reinforced polyvinyl alcohol-borax hydrogel." *European Polymer Journal* 107: 267-274.
151	A. Iwan, F. Caballero-Briones, K.A. Bogdanowicz, J.D.O. Barceinas-Sánchez, W. Przybyl, A. Januszko, J.A. Baron-Miranda, A.P. Espinosa-Ramirez, & J. Guerrero-Contreras (2018). "Optical and electrical properties of graphene oxide and reduced graphene oxide films deposited onto glass and Ecoflex® substrates towards organic solar cells." *Advanced Materials Letters* 9 (1): 58-65.
150	Y. You, D.Y. Kim, S. Shin, & J.W. Shim (2018). "Interdigitated Horizontal Electrodes for Organic Solar Cells." *IEEE Access* 6: 64569-64576.
149	S.H. Lee, O. Kim, S. Lee, & J.K. Kim (2018). "Local-dependency of morphological and optical properties between breast cancer cell lines." *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 205: 132-138.
148	R. Sharma, R. K. Biroju, O. Sinai, H. Cohen, K.R. Sahoo, V. Artel, H. Alon, A. Levi, A. Subrahmanyam, W. Theis, D. Naveh, & T. N. Narayanan (2018). "Vapour transport deposition of fluorographene oxide films and electro-optical device applications." *Applied Materials Today* 13: 387-395.
147	L.C. Sow, J.M.N. Chong, Q.X. Liao, & H. Yang (2018). "Effects of κ-carrageenan on the structure and rheological properties of fish gelatin." *Journal of Food Engineering* 239: 92-103.

Customer Publication List - October, 2025

146	P.R.S. Teixeira, A.S.M. Teixeira, E.A. Farias, D.A. da Silva, L.C.C. Nunes, C.M. Leite, E.C. Filho, & C. Eiras (2018). “Chemically modified babassu coconut (*Orbignya sp.*) biopolymer: characterization and development of a thin film for its application in electrochemical sensors.” *Journal of Polymer Research* 25: 127.
145	G. Lyu, T. Li, X. Ji, G. Yang, Y. Liu, L.A. Lucia, & J. Chen (2018). “Characterization of Lignin Extracted from Willow by Deep Eutectic Solvent Treatments.” *Polymers* 10 (8): 869.
144	B.N. Ratha, M. Kim, B. Sahoo, K. Garai, D. Lee, & A. Bhunia (2018). “Insulin– eukaryotic model membrane interaction: Mechanistic insight of insulin fibrillation and membrane disruption.” *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1860 (9): 1917-1926.
143	L.C. Sow, K. Kong, & H. Yang (2018). “Structural Modification of Fish Gelatin by the Addition of Gellan, κ-Carrageenan, and Salts Mimics the Critical Physicochemical Properties of Pork Gelatin.” *Journal of Food Science* 83: 1280-1291.
142	M.G.N. Perera, Y.R. Galagedara, Y. Ren, M. Jayaweera, Y. Zhao, & R. Weerasooriya (2018). “Fabrication of fullerenol-incorporated thin-film nanocomposite forward osmosis membranes for improved desalination performances.” *Journal of Polymer Research* 25: 199.
141	K. Farzanian & A. Ghahremaninezhad (2018). “Desorption of superabsorbent hydrogels with varied chemical compositions in cementitious materials.” *Materials and Structures* 51: 3.
140	C. Lin, Q. Ma, Q. Su, H. Bian, & J.Y. Zhu (2018). “Facile Synthesis of Highly Hydrophobic Cellulose Nanoparticles through Post-Esterification Microfluidization.” *Fibers* 6 (2): 22.
139	C.T. Matea, T. Mocan, F. Tabaran, T. Pop, O. Mosteanu, L. Mocan, & Z. Claudiu (2018). “Synthesis And Characterization Of Muc-1 Functionalized Gold Nanoparticles.” *Studia Universitatis Babes-Bolyai Chemia* 63 (3): 129-135.
138	M. Sapolsky & D. Boucher (2018). “Poly(3-hexylthiophene) aggregation at solvent–solvent interfaces.” *The Journal of Polymer Science Part B: Polymer Physics* 56 (13): 999-1011.

Customer Publication List - October, 2025

137	C.T. Matea, T. Mocan, F. Tabaran, T. Pop, O. Mosteanu, L. Mocan, & Z. Claudiu (2018). "Evaluation Of Capping Agents For Silver Nanoparticles." *Studia Universitatis Babes-Bolyai, Chemia* 63 (4): 95-102.
136	I.A.D. Lopes, P.J.V.C. Monteiro, J.J.B. Mendes, J.M.R. Gonçalves, & F.J.F. Caldeira (2018). "The effect of different finishing and polishing techniques on surface roughness and gloss of two nanocomposites." *The Saudi Dental Journal* 30 (3): 197-207.
135	H. Bian, Y. Gao, R. Wang, Z. Liu, W. Weibing, & H. Dai (2018). "Contribution of lignin to the surface structure and physical performance of cellulose nanofibrils film." *Cellulose* 25**:** 1309–1318.
134	M. Kamali & A. Ghahremaninezhad (2018). "Effect of Biomolecules on the Nanostructure and Nanomechanical Property of Calcium-Silicate-Hydrate." *Scientific Reports* 8: 9491.
133	L. Chen, Y. Zhou, Z. He, Q. Liu, S. Lai, & H. Yang (2018). "Effect of exogenous ATP on the postharvest properties and pectin degradation of mung bean sprouts (*Vigna radiata*)." Food Chemistry 251: 9–17.
132	Q. Ma, L. Chen, R. Wang, R. Yang, & J.Y. Zhu (2018). "Direct production of lignin nanoparticles (LNPs) from wood using *p*-toluenesulfonic acid in an aqueous system at 80°C: characterization of LNP morphology, size, and surface charge." *Holzforschung* 72 (11): 933–942.
131	X. Zhou, Y. Tao, E. Chen, J. Wang, W. Fang, T. Zhao, C. Liang, F. Li, & Q. Chen (2018). "Genipin-cross-linked type II collagen scaffold promotes the differentiation of adipose-derived stem cells into nucleus pulposus-like cells." *Journal of Biomedical Materials Research Part A* 106 (5): 1258-1268.
130	**Book chapter:** J. Álvarez-Sánchez, G.E. Dévora-Isiordia, G. Romero-López, S. Sicairos, & R.G. Sanchez-Duarte (2018). "Development, Characterization, and Applications of Capsaicin Composite Nanofiltration Membranes Development, Characterization, and Applications of Capsaicin Composite Nanofiltration Membranes." *Desalination and Water Treatment* Publisher: IntechOpen, pp. 255-268.

Customer Publication List - October, 2025

129	**Conference paper:** A. Laventure, C.R. Harding, E. Cieplechowicz, & G.C. Welch (2018). "Towards upscaling of organic photovoltaics using non-fullerene acceptors." *Proceedings of SPIE* 10737 (Organic, Hybrid, and Perovskite Photovoltaics XIX, 107370H).
128	**Thesis:** M.A. Shaik (2018). "*Segmental Evolution of Ultraviolet Exposed Polyurea*." San Diego State University, Master's Thesis.
127	**Thesis:** N.U.T. Huynh (2018). "*Characterization of Surface Morphology of Thin-Film Platinum and Glassy Carbon Microelectrodes*." San Diego State University, Master's Thesis.
126	**Thesis:** K. Chang (2018). "*Achromatic Liquid Crystal Electro-Optical Devices Based On a Twisted Vertical Alignment Configuration*." Kent State University, Doctoral Thesis.
125	**Patent:** Yu et al. Thin Film Composites Having Graphene Oxide Quantum Dots. US2018/0207591A1 (https://patents.google.com/patent/US20180207591A1/en).
124	J. Flores, M. Kamali, & A. Ghahremaninezhad (2017). "An Investigation into the Properties and Microstructure of Cement Mixtures Modified with Cellulose Nanocrystal." *Materials* 10 (5): 498.
123	J.U. Ahamed, N.P. Begum, & M.N.I. Khan (2017). "Property elucidation of vacuum-evaporated zinc telluride thin film towards optoelectronic devices." *Sādhanā* 42 (10): 1773–1781.
122	D. Aryee & D. Seifu (2017). "Shape anisotropy and hybridization enhanced magnetization in nanowires of Fe/MgO/Fe encapsulated in carbon nanotubes." *Journal of Magnetism and Magnetic Materials* 429: 161-165.
121	L. Avotina, M. Lungu, P. Dinca, B. Butoi, G. Cojocaru, R. Ungureanu, A. Marcu, C. Luculescu, C. Hapenciu, P.C. Ganea, A. Petjukevics, C.P. Lungu, G. Kizane, C.M. Ticos, & S. Antohe (2017). "Irradiation of nuclear materials with laser-plasma filaments produced in air and deuterium by terrawatt (TW) laser pulses." *Journal of Physics D: Applied Physics* 51 (2): 025302.

Customer Publication List - October, 2025

120	S.D. Bhagavathula, V. Kokkarachedu, D.Q. Acuna, R. Koduri, S. Veluri, & V. Reddy (2017). “Insight of electrical behavior in ferroelectric-semiconductor polymer nanocomposite films of PVDF/ZnSe and PVDF/Cu:ZnSe.” *Journal of Applied Polymer Science* 134 (25): 44983.
119	H. Bian, L. Chen, R. Wang, & J. Zhu (2017). “Green and low-cost production of thermally stable and carboxylated cellulose nanocrystals and nanofibrils using highly recyclable dicarboxylic acids.” *Journal of Visualized Experiments* 119: e55079.
118	H. Bian, L. Chen, H. Dai, & J.Y. Zhuc (2017). “Integrated production of lignin containing cellulose nanocrystals (LCNC) and nanofibrils (LCNF) using an easily recyclable di-carboxylic acid.” *Carbohydrate Polymers* 167: 167-176.
117	H. Bian, L. Chen, H. Dai, & Y. Zhu (2017). “Effect of fiber drying on properties of lignin containing cellulose nanocrystals and nanofibrils produced through maleic acid hydrolysis.” *Cellulose* 24 (10): 4205-4216.
116	H. Bian, L. Chen, R. Gleisner, H. Dai, & J. Y. Zhu (2017). “Producing wood- based nanomaterials by rapid fractionation of wood at 80 °C using a recyclable acid hydrotrope.” *Green Chemistry* 14 (19): 3370-3379.
115	D.S. Boucher (2017). "Effects of evaporation velocity and film thickness on poly(3-hexylthiophene) thin films processed from aggregate dispersions in binary solvent mixtures." *Journal of Polymer Science Part B: Polymer Physics* 55 (4): 330-343.
114	V.S. Cardoso, M.C. Filgueiras, Y.M. Dutra, R.H.G. Teles, A.R. de Araújo, F.L. Primo, A.C. Mafud, L.F. Batista, Y.P. Mascarenhas, I.M.M. Paino, V. Zucolotto, A.C. Tedesco, D.A. Silva, J.R.S.A. Leite, & J.R. dos Santos Jr (2017). "Collagen based silver nanoparticles: Study on cell viability, skin permeation, and swelling inhibition." *Materials Science and Engineering: C* 74: 382-388.
113	L. Chen, J. Dou, Q. Ma, N. Li, R. Wu, H. Bian, D. J. Yelle, T. Vuorinen, S. Fu, X. Pan, & J.Y. Zhu (2017). “Rapid and near-complete dissolution of wood lignin at ≤80°C by a recyclable acid hydrotrope.” *Science Advances* 3 (9): e1701735.

Customer Publication List - October, 2025

112	K. DeHority, N. Budin, S.S. Hilston, Y. Zhang, & A. Fillinger (2017). “Deposition of Nickel on Electrodeposited Cu_2O Films at Potentials More Positive than the Nernst Potential of Ni^{2+}/Ni^0.” *Journal of the Electrochemical Society* 164 (9): H615-H620.
111	P. Eaton, P. Quaresma, C. Soares, C. Neves, M.P. de Almeida, E. Pereira, & P. West (2017). “A direct comparison of experimental methods to measure dimensions of synthetic nanoparticles.” *Ultramicroscopy* 182: 179-190.
110	X. Feng, C. Fu, & H. Yang (2017). "Gelatin addition improves the nutrient retention, texture and mass transfer of fish balls without altering their nanostructure during boiling." *LWT - Food Science and Technology* 77: 142-151.
109	X. Feng, V.K. Ng, M. Mikš-Krajnik, & H. Yang (2017). "Effects of fish gelatin and tea polyphenol coating on the spoilage and degradation of myofibril in fish fillet during cold storage." *Food Bioprocessing and Technology* 10: 89-102.
108	X. Feng, Y. Zhu, Q. Liu, S. Lai, & H. Yang (2017). “Effects of bromelain tenderisation on myofibrillar proteins, texture and flavour of fish balls prepared from golden pomfret.” *Food and Bioprocess Technology* 10: 1918–1930.
107	P.Y. Furlan, B.M. Ackerman, M.E. Melcer, & E.S. Perez (2017). “Reusable magnetic nanocomposite sponges for removing oil from water discharges.” *Journal of Ship Production and Design* 33 (3): 227-236.
106	O. Gomonay, T. Jungwirth, & J. Sinova (2017). “Concepts of antiferromagnetic spintronics.” *Physica Status Solidi RRL*, 11: 1700022.
105	R. Kaur, J. Singh, & S.K. Tripathi (2017). "Incorporation of inorganic nanoparticles into an organic polymer matrix for data storage application." *Current Applied Physics* 17 (5): 756-762.
104	J.S. Kim, J.S. Choi, & Y.W. Cho (2017). “Cell-free hydrogel system based on a tissue-specific extracellular matrix for *in situ* adipose tissue regeneration.” *ACS Applied Materials & Interfaces* 9 (10): 8581–8588.
103	M. Lin, S.H. Tay, H. Yang, B. Yang, & H. Li (2017). "Replacement of eggs with soybean protein isolates and polysaccharides to prepare yellow cakes suitable for vegetarians." *Food Chemistry* 229: 663-673.

Customer Publication List - October, 2025

102	S.W. Lin, K.A. Corrales-López, S. Perez-Sicairos, & R.M. Félix-Navarro (2017). “Preparation, characterization and application of PS/SPEES–PES UF membranes for removal of ppm Cd2+ from aqueous media.” *Polymer Bulletin* 74: 4729-4743.
101	Q. Liu, J. Wu, Z.Y. Lim, A. Aggarwal, H. Yang, & S. Wang (2017). “Evaluation of the metabolic response of *Escherichia coli* to electrolysed water by 1H NMR spectroscopy.” *LWT - Food Science and Technology* 79: 428-436.
100	Q. Liu, C. Shen, C. Tan, H. Yang, & S. Wang (2017). “Treatment with low-concentration acidic electrolysed water combined with mild heat to sanitise fresh organic broccoli (*Brassica oleracea*).” *LWT - Food Science and Technology* 79: 594-600.
99	M.M. Marani, L.O. Perez, A.R. de Araújo, A. Plácido, C.F. Sousa, P.V. Quelemes, M. Oliveira, A.G. Gomes-Alves, M. Pueta, P. Gameiro, A.M. Tomás, C. Delerue-Matos, P. Eaton, S.A. Camperi, N.G. Basso, & J.R.S.A. Leite (2017). "Thaulin-1: The first antimicrobial peptide isolated from the skin of a Patagonian frog *Pleurodema thaul* (Anura: *Leptodactylidae: Leiuperinae*) with activity against *Escherichia coli*." *Gene* 605: 70-80.
98	L. Mocan, C. Matea, F.A. Tabaran, O. Mosteanu., T. Pop, C. Puia, L. Agoston-Coldea, G. Zaharie, T. Mocan, A.D. Buzoianu, & C. Iancu (2017). "Selective *ex vivo* photothermal nano-therapy of solid liver tumors mediated by albumin conjugated gold nanoparticles." *Biomaterials* 119: 33-42.
97	M.S. Mohamed, A. Kobayashi, A. Taoka, T. Watanabe-Nakayama, Y. Kikuchi, M. Hazawa, T. Minamoto, Y. Fukumori, N. Kodera, T. Uchihashi, T. Ando, & R.W. Wong (2017). “High-speed Atomic Force Microscopy reveals loss of nuclear pore resilience as a dying code in colorectal cancer cells.” *ACS Nano* 11 (6): 5567– 5578.
96	L. Moreira, L.V. Ponce Cabrera, E. De Posada, & T. Flores (2017). “Er:Yag polycrystalline ceramics: use of SiO2 and B2O3 as sintering additives and its effects on the optical and structural properties.” *Revista Cubana de Física* 34 (2): 125-132.

Customer Publication List - October, 2025

95	S. Pal, K.K. Tadi, P.M. Sudeep, S. Radhakrishnan, & T.N. Narayanan (2017). “Temperature assisted shear exfoliation of layered crystals for the large-scale synthesis of catalytically active luminescent quantum dots.” *Materials Chemistry Frontiers* 1: 319-325.
94	A. Plácido, I. Bragança, M. Marani, A.R. Araujo, A.G. Vasconcelos, K. Batziou, V. Domingues, P. Eaton, J.R.S.A. Leite, & C. Delerue-Matos (2017). “Antibacterial activity of novel peptide derived from Cry1Ab16 toxin and development of LbL films for foodborne pathogens control.” *Materials Science and Engineering C* 75: 503-509.
93	D. Presto, V. Song, & D. Boucher (2017). "P3HT/graphene composites synthesized using *in situ* GRIM methods." *Journal of Polymer Science B: Polymer Physics* 55 (1): 60-76.
92	P.V. Quelemes, A. R. de Araújo, A. Plácido, C. Delerue-Matos, J. S. Maciel, L. J. Bessa, A.S. Ombredane, G.A. Joanitti, M.J.S. Soares, P. Eaton, D.A. da Silva, & J.R.S.A. Leite (2017). "Quaternized cashew gum: An anti-staphylococcal and biocompatible cationic polymer for biotechnological applications." *Carbohydrate Polymers* 157: 567–575.
91	K. Ramam, B.S. Diwakar, K. Varaprasad, V. Swaminadham, & V. Reddy (2017). “Magnetic properties of nano-multiferroic materials.” *Journal of Magnetism and Magnetic Materials* 442: 453-459.
90	M.G. Ruppert, A.G. Fowler, M. Maroufi, & S.O.R. Moheimani (2017). "On- chip dynamic mode Atomic Force Microscopy: A silicon-on-insulator MEMS approach." *Journal of Microelectromechanical Systems* 26 (1): 215-225.
89	N.M. Silva-Vinhote, N.E.D. Caballero, T.A. Silva, P.V. Quelemes, A.R. de Araújo, A.C.M. de Moraes, A.L.S. Câmara, J.P.F. Longo, R.B. Azevedo, D.A. Silva, J.R.S.A. Leite, & M.F.S. Teixeira (2017). “Extracellular biogenic synthesis of silver nanoparticles by *Actinomycetes* from amazonic biome and its antimicrobial efficiency.” *African Journal of Biotechnology* 16 (43): 2072-2082.
88	L.C. Sow, Y. RuiPeh, B.N. Pekerti, C.Fua, N. Bansal, & H. Yang (2017). “Nanostructural analysis and textural modification of tilapia fish gelatin affected by gellan and calcium chloride addition.” *LWT - Food Science and Technology* 85 (Pt A): 137-145.

Customer Publication List - October, 2025

87	M. Vomero, E. Castagnola, F. Ciarpella, E. Maggiolini, N. Goshi, E. Zucchini, S. Carli, L. Fadiga, S. Kassegne, & D. Ricci (2017). “Highly stable glassy carbon interfaces for long-term neural stimulation and low-noise recording of brain activity.” *Scientific Reports* 7: 40332.
86	R. Wang, L. Chen, J. Zhu, & R. Yang (2017). “Tailored and Integrated Production of Carboxylated Cellulose Nanocrystals (CNC) with Nanofibrils (CNF) through Maleic Acid Hydrolysis.” *ChemNanoMat* 3: 328.
85	H. Yang, Q. Wu, L.Y. Ng, & S. Wang (2017). "Effects of vacuum impregnation with calcium lactate and pectin methylesterase on quality attributes and chelate-soluble pectin morphology of fresh-cut papayas." *Food Bioprocessing and Technology* 10 (5): 901–913.
84	J. Zhang & H. Yang (2017). "Effects of potential organic compatible sanitisers on organic and conventional fresh-cut lettuce (*Lactuca sativa Var. Crispa L*)." *Food Control* 72 (Pt A): 20-26.
83	L. Zhao, Y. Zhang, & H. Yang (2017). "Efficacy of low concentration neutralised electrolysed water and ultrasound combination for inactivating *Escherichia coli* ATCC 25922, *Pichia pastoris* GS115 and *Aureobasidium pullulans* 2012 on stainless steel coupons." *Food Control* 73: 889-899.
82	C. Jia, L. Chen, Z. Shao, U.P. Agarwal, H. Liangbing, & J.Y. Zhu (2017). "Using a fully recyclable dicarboxylic acid for producing dispersible and thermally stable cellulose nanomaterials from different cellulosic sources." *Cellulose* 24: 2483-2498.
81	**Book chapter:** S. Bhagyaraj & O.S. Oluwafemi (2017). “Green synthesis and characterization of semiconductor and metal nanoparticles.” *Biomedical Application of Nanoparticles*, CRC Press.
80	**Conference paper:** C. Miller, T. Adams, B. Evans, & I. Senevirathne (2017). “Thiolated surfaces: creation, their qualities, and packing: a basis for other nano/micro technologies.” in *2017 Annual Meeting of the APS Mid-Atlantic Section* 62 (19): K1.00010.

Customer Publication List - October, 2025

79	**Thesis:** M. Kamali (2017). "*Towards Bio-Inspired Cementitious Materials: The Effect of Organic Polymeric Materials on the Nanostructure and Nanomechanical Properties of Calcium-Silicate-Hydrate*." University of Miami, Doctoral Thesis.
78	B.N. Ratha, A. Ghosh, J.R. Brender, N. Gayen, H. Ilyas, C. Neeraja, K.P. Das, A.K. Mandal, & A. Bhunia (2016). "Inhibition of Insulin Amyloid Fibrillation by a Novel Amphipathic Heptapeptide." *Journal of Biological Chemistry* 291 (45): 23545-23556.
77	F. Caballero-Briones, G. Santana, T. Flores, & L. Ponce (2016). "Photoluminescence response in carbon films deposited by pulsed laser deposition onto GaAs substrates at low vacuum." *Journal of Nanotechnology* Article ID 5349697 (6 pp).
76	S. Cao, X. Zhang, K. Sinha, W. Wang, J. Wang, P.A. Dowben, & X. Xu (2016). "Phase separation in LuFeO3 films." *Applied Physics Letters* 108: 202903 (6 pp).
75	X. Feng, N. Bansal, & H. Yang (2016). "Fish gelatin combined with chitosan coating inhibits myofibril degradation of golden pomfret (*Trachinotus blochii*) fillet during cold storage." *Food Chemistry* 200: 283-292.
74	B.P. Gindt, D.G. Abebe, Z.J. Tang, M.B. Lindsey, J. Chen, R.A. Elgammal, T.A. Zawodzinski, & T. Fujiwara (2016). "Nanoporous polysulfone membranes via a degradable block copolymer precursor for redox flow batteries." *Journal of Materials Chemistry A* 4: 4288-4295.
73	M.P. Gordon, L.T. Lloyd, & D.S. Boucher (2016). "Poly(3-hexylthiophene) films prepared using binary solvent mixtures." *Journal of Polymer Science-Part B: Polymer Physics* 54: 624-638.
72	R. Kaur & S.K. Tripathi (2016). "Third order non-linear response of II-VI semiconductor polymer nanocomposites with different polymers." *Materials Letters* 180: 247–251.
71	S.J. Kim, S.J. Ryu, & H. Jung (2016). "Photoluminescent and superhydrophobic [Eu (Phen) 2]$^{3+}$-Laponite/Polypropylene film for long-term fluorescence stability under conditions of high humidity." *Advanced Materials Interfaces* 3 (4): 1500449.

Customer Publication List - October, 2025

70	K.M. Kumar, S. Godavarthia, T.V.K. Karthik, M. Mahendhiran, A. Hernandez-Eligio, N. Hernandez-Como, V. Agarwal, & L. Martinez Gomez (2016). “Green synthesis of S-doped rod shaped anatase TiO_2 microstructures.” *Materials Letters* 183: 211-214.
69	D.S. Lima, B. Gúllon, A. Cardelle-Cobas, L.M. Brito, K.A.F. Rodrigues, P. V. Quelemes, J. Ramos-Jesus, D.D.R. Arcanjo, A. Plácido, K. Batziou, P. Quaresma, P. Eaton, C. Delerue-Matos, F.A.A. Carvalho, D.A. Silva, M. Pintado, & J.R.S.A. Leite (2016). "Chitosan-based silver nanoparticles: A study of the antibacterial, antileishmanial and cytotoxic effects." *Journal of Bioactive and Compatible Polymers* 32 (4): 1-14.
68	L. Mocan, C. Matea, F. A. Tabaran, O. Mosteanu, T. Pop, C. Puia, L. Agoston-Coldea, D. Gonciar, E. Kalman, G. Zaharie, C. Iancu, & T. Mocan (2016). "Selective *in vitro* photothermal nano-therapy of MRSA infections mediated by IgG conjugated gold nanoparticles." *Scientific Reports* 6: 39466.
67	M. Oliveira, A. G. Gomes-Alves, C. Sousa, M. M. Marani, A. Plácido, N. Vale, C. Delerue-Matos, P. Gameiro, S. A. S. Kückelhaus, A. M. Tomas, J.R.S.A. Leite, & P. Eaton (2016). "Ocellatin-PT antimicrobial peptides: High-resolution microscopy studies in antileishmania models and interactions with mimetic membrane systems." *Biopolymers* 105 (12): 873-886.
66	J.H. Park, S.H. Choi, J. Zhao, S. Song, W. Yang, S.M. Kim, K.K. Kim, & Y.H. Lee (2016). “Thickness-controlled multilayer hexagonal boron nitride film prepared by plasma-enhanced chemical vapor deposition.” *Current Applied Physics* 16 (9): 1229-1235.
65	A. Plácido, E.A. de Oliveira Farias, M.M. Marani, A.G. Vasconcelos, A.C. Mafud, Y.P. Mascarenhas, C. Eiras, J.R.S.A. Leite, & C. Delerue-Matos (2016). "Layer- by-layer films containing peptides of the Cry1Ab16 toxin from *Bacillus thuringiensis* for potential biotechnological applications." *Materials Science and Engineering: C* 61: 832-841.
64	A. Plácido, E.A. de Oliveira Farias, M.M. Marani, A.G. Vasconcelos, J.R.S.A. Leite, & C. Delerue-Matos (2016). “Peptide isolated from Cry1Ab16 toxin present in *Bacillus thuringiensis*: Synthesis and morphology data for layer-by- layer films studied by atomic force microscopy.” *Data in Brief* 8: 114-119.

Customer Publication List - October, 2025

63	P.V. Quelemes, A.R. de Araújo, A. Plácido, C. Delerue-Matos, J.S. Maciel, L.J. Bessa, A.S. Ombredan,G.A. Joanitti, M. J.S. Soares, P. Eaton, D.A. da Silva, & J.R.S.A. Leite (2016) “Quaternized cashew gum: An anti-staphylococcal and biocompatible cationic polymer for biotechnological applications.” *Carbohydrate Polymers* 157: 567–575.
62	M. Raguse, M. Fiebrandt, B. Denis, K. Stapelmann, P. Eichenberger, A. Driks, P. Eaton, P. Awakowicz, & R.M. Moeller (2016). “Understanding of the importance of the spore coat structure and pigmentation in the Bacillus subtilis spore resistance to low-pressure plasma sterilization.” *Journal of Physics D: Applied Physics* 49: 285401.
61	L.D. Tijing, Y.C. Woo, W.G. Shim, T. He, J.S. Choi, S.H. Kim, & H.K. Shon (2016). "Superhydrophobic nanofiber membrane containing carbon nanotubes for high-performance direct contact membrane distillation." *Journal of Membrane Science* 502: 158-170.
60	Y.C. Woo, L. D. Tijing, W.G. Shim, J.S. Choi, S.H. Kim, T. He, E. Drioli, & H.K. Shon (2016). "Water desalination using graphene-enhanced electro spun nanofiber membrane *via* air gap membrane distillation." *Journal of Membrane Science* 520: 99-110.
59	Z. Song, M. Fathizadeh, Y. Huang, K.H. Chu, Y. Yoon, L. Wang, W.L. Xu, & M. Yu (2016). "TiO_2 nanofiltration membranes prepared by molecular layer deposition for water purification." *Journal of Membrane Science* 510: 72-78.
58	E.A. de Oliveira Farias, M.C. dos Santos, N. de Araujo Dionísio, P.V. Quelemes, J.R.S.A. Leite, P. Eaton, D.A. da Silva, & C. Eiras (2015). "Layer-by-Layer films based on biopolymers extracted from red seaweeds and polyaniline for applications in electrochemical sensors of chromium VI." *Materials Science and Engineering: B* 200: 9-21.
57	B. Abel, T.S. Kabir, B. Odukoya, M. Mohammed, & K. Aslan (2015). "Enhancement of the colorimetric response of enzymatic reactions by thermally evaporated plasmonic thin films: application to glial fibrillary acidic protein." *Analytical Methods 7* (3): 1175-1185.
56	B. Amin-Shahidia & D. Trumper (2015). "Macro-scale atomic force microscope: An experimental platform for teaching precision mechatronics." *Mechatronics* 31: 234-242.

Customer Publication List - October, 2025

55	G. Borsoi, R. Van Hees, B. Lubelli, R. Veiga, & A.S. Silva (2015). “Nanolime deposition in Maastricht limestone: Back-migration or accumulation at the absorption surface?” *In EMABM 2015: Proceedings of the 15th Euroseminar on Microscopy Applied to Building Materials*, Delft, The Netherlands, 17-19 June 2015, Delft University of Technology.
54	J. X. Chong, S. Lai, & H. Yang (2015). "Chitosan combined with calcium chloride impacts fresh-cut honeydew melon by stabilising nanostructures of sodium-carbonate-soluble pectin." *Food Control* 53: 195-205.
53	A. Cid, A. Picado, J.B. Correia, R. Chaves, H. Silva, J. Caldeira, A.P.A. de Matos, & M.S. Diniz (2015). "Oxidative stress and histological changes following exposure to diamond nanoparticles in the freshwater Asian clam *Corbicula fluminea* (Müller, 1774)." *Journal of Hazardous Materials* 284: 27-34.
52	A.R. de Araújo, P.V. Quelemes, M.L.G. Perfeito, L.I. de Lima, M.C. Sa, P.H.M. Nunes, G.A. Joanitti, P. Eaton, M. Soares, & J.R.S.A. Leite (2015). "Antibacterial, antibiofilm and cytotoxic activities of *Terminalia fagifolia Mart*. extract and fractions." *Annals Clinical Microbiology and Antimicrobials* 14 (10): 25.
51	Y. Heo, Y. M. Shin, Y. B. Lee, Y.M. Lim, & H. Shin (2015). "Effect of immobilized collagen type IV on biological properties of endothelial cells for the enhanced endothelialization of synthetic vascular graft materials." *Colloids and Surfaces B: Biointerfaces* 134: 196-203.
50	A. Kim, S.J. Ryu, & H. Jung (2015). "Photoluminescent and superhydrophobic [Eu(Phen)2]3+- laponite/polypropylene film for long-term fluorescence stability under conditions of high humidity." *Advanced Materials Interfaces* 1500449.
49	A. Kumar, S. Li, S. Roy, J.A. King, & G.M. Odegard (2015). "Fracture properties of nanographene reinforced EPON 862 thermoset polymer system." *Composites Science and Technology* 114: 87-93.
48	S. Kwon & W. Yang (2015). "Determination of cell differentiation by probing cell membrane stiffness." *Journal of the Korean Physical Society* 67(4): 713-717.

Customer Publication List - October, 2025

47	J.W. Lee, H.W. Lee, S.E. Lee, H.J. Yang, S.K. Lee, K.M. Hwang, S.N. Park, S.S. Yoon, & Y.K. Kim (2015). "Tri-metal layered semitransparent electrode for red phosphorescent organic light-emitting diodes." *Journal of nanoscience and nanotechnology* 15 (10): 8144-8148.
46	M.M. Lim, T. Sum, & N. Sultana (2015). "*In vitro* biological evaluation of electrospun polycaprolactone/gelatine nanofibrous scaffold for tissue engineering." *Journal of Nanomaterials* 303426: 10 pages.
45	Q. Lu, Y. Kim, N. Bassim, & G.E. Collins (2015). "Impact of confinement on proteins concentrated in lithocholic acid based organic nanotubes." *Journal of Colloid and Interface Science* 454: 97-104.
44	M. Marani, F.S. Dourado, P.V. Quelemes, A. de Araújo, M.L.G. Perfeito, E.A. Barbosa, L.M.C. Véras, A.L.R. Coelho, E.B. Andrade, P. Eaton, J.P.F. Longo, R.B. Azevedo, C. Delerue-Matos, & J.R.S.A. Leite (2015). "Characterization and biological activities of ocellatin peptides from the skin secretion of the frog *Leptodactylus pustulatus*." *Journal of Natural Products* 78: 1495−1504.
43	C.T. Matea, T. Mocan, F. Zaharie, C. Iancu, & L. Mocan (2015). "A novel immunoglobulin G monolayer silver bio-nanocomposite." *Chemistry Central Journal* 9 (1): 1-7.
42	C.T. Matea, T. Mocan, F. Tabaran, C. Iancu, & L.C. Mocan (2015). "Rational design of gold nanocarrier for the delivery of JAG-1 peptide." *Journal of Nanobiotechnology* 13: 41.
41	L.C. Mocan, C.T. Matea, F. Tabaran, O. Mosteanu, T. Pop, T. Mocan, & C. Iancu (2015). "Photothermal treatment of liver cancer with albumin-conjugated gold nanoparticles initiates Golgi Apparatus–ER dysfunction and caspase-3 apoptotic pathway activation by selective targeting of Gp60 receptor." *International Journal of Nanomedicine* 10: 5435-5445.
40	Mocan, C. Matea, F. Tabaran, C. Iancu, R. Orasan, & L. Mocan (2015). "*In vitro* administration of gold nanoparticles functionalized with MUC-1 protein fragment generates anticancer vaccine response *via* macrophage activation and polarization mechanism." *Journal of Cancer* 6 (6): 583-592.

Customer Publication List - October, 2025

39	L. Moreira, L. Ponce, E. de Posada, T. Flores, Y. Peñaloza, O. Vázquez, & Y. Pérez (2015). "Er:YAG polycrystalline ceramics: The effects of the particle size distribution on the structural and optical properties." *Ceramics International* 41 (9): 11786-11792.
38	B. Nketia-Yawson, H. Kang, E.Y. Shin, Y. Xu, C. Yang, & Y.Y. Noh (2015). "Effect of electron-donating unit on crystallinity and charge transport in organic field-effect transistors with thienoisoindigo-based small molecules." *Organic Electronics* 26: 151-157.
37	T. Park, Y. H. Lee, G. Y. Cho, S. Ji, J. Park, I. Chang, & S. W. Cha (2015). "Effect of the thickness of sputtered gadolinia-doped ceria as a cathodic interlayer in solid oxide fuel cells." *Thin Solid Films* 584: 120-124.
36	Y. Peñaloza-Mendoza & L. Ponce-Cabrera (2015). "Comparison on morphological and optical properties of TiO2 thin films grown by single-pulse and multi-pulse laser ablation." *Journal of Surface Engineered Materials and Advanced Technology* 5 (1): 7.
35	K.Y. Petrova , S.S. Dey, & M.T. Barros (2015). "Formation of spherical and core-shell polymeric microparticles from glycopolymers." *Carbohydrate Polymers* 125: 281-287.
34	P.V. Quelemes, M.L.G. Perfeito, M.A. Guimarães, R.C. dos Santos, D.F. Lima, C. Nascimento, M.P.N. Silva, M.J.S. Soares, C.D. Ropke, P. Eaton, J. de Moraes, & J.R.S.A. Leite (2015). "Effect of neem (*Azadirachta indica A. Juss*) leaf extract on resistant *Staphylococcus aureus* biofilm formation and *Schistosoma mansoni* worms." *Journal of Ethnopharmacology* 175: 287-294.
33	C.D. Raposo, K.T. Petrova, & M.T. Barros (2015). "Synthesis of cross-linked polymeric microparticles containing hexa-O-benzylsucrose." *Designed Monomers and Polymers* 18 (8): 753-760.
32	R.M.M. Santana, T.D. Oliveira, S.S.M. Rodrigues, C. Frigerio, J.L.M. Santos, & M. Korn (2015). "Enhancing reactive species generation upon photo-activation of CdTe quantum dots for the chemiluminometric determination of unreacted reagent in UV/$S_2O_8^{2-}$ drug degradation process." *Talanta* 135: 27-33.

Customer Publication List - October, 2025

31	M. Schlauf, S. Assadollahi, R. Palkovits, P. Pointl, & T.G.M. Schalkhammer (2015). "Immobilization techniques and integrated signal enhancement for POC nanocolor microfluidic devices." *Journal of Nanomaterials* Article ID 386794, 10 pages.
30	L.C. Sow & H. Yang (2015). "Effects of salt and sugar addition on the physicochemical properties and nanostructure of fish gelatin." *Food Hydrocolloids* 45: 72-82.
29	R. van Oorschot, H.H.P. Garza, R.J. Derks, U. Staufer, & M.K. Ghatkesar (2015). "A microfluidic AFM cantilever based dispensing and aspiration platform." *EPJ Techniques and Instrumentation* 2 (1): 1-11.
28	J. Youn, S. Vegiraju, J.D. Emery, B.J. Leever, S. Kewalramani, S.J. Lou, S. Zhang, K. Prabakaran, Y. Ezhumalai, C. Kim, P.Y. Huang, C. Stern, W.C. Chang, M.J. Bedzyk, L.X. Chen, M.C. Chen, A. Facchetti, & T.J. Marks (2015). "Diperfluorophenyl fused thiophene semiconductors for n-type organic thin film transistors (OTFTs)." *Advanced Electronic Materials* 1 (8): 1500098.
27	**Conference paper:** A. Gellineau, Y.-P. Wong, A. Wang, M.J. Butte, & O. Solgaard (2015). “Optical fiber atomic force microscope with photonic crystal force sensor.” *In* Solid-State Sensors, Actuators and Microsystems (TRANSDUCERS), *2015 18th International Conference on Transducers*, IEEE, pp 196-199.
26	H.J. Cho, S.K. Madhurakkat Perikamana, J.H. Lee, J. Lee, K.M. Lee, C.S. Shin, & H. Shin (2014). "Effective immobilization of BMP-2 mediated by polydopamine coating on biodegradable nanofibers for enhanced *in vivo* bone formation." *ACS Applied Materials & Interfaces* 6 (14): 11225-11235.
25	C.I. Crucho & M. T. Barros (2014). "Surfactant-free polymeric nanoparticles composed of PEG, cholic acid and a sucrose moiety." *Journal of Materials Chemistry B* 2 (25): 3946-3955.
24	P. Eaton, C.R. Bittencourt, V. Costa Silva, L.M.C. Véras, C.H.N. Costa, M.J. Feio, & J.R.S.A. Leite (2014). "Anti-leishmanial activity of the antimicrobial peptide DRS 01 observed in *Leishmania infantum* (syn. *Leishmania chagasi*) cells." *Nanomedicine: Nanotechnology, Biology and Medicine* 10 (2): 483-490.

Customer Publication List - October, 2025

23	J. Evans & S. Chapman (2014). "Characterizing absolute piezoelectric microelectromechanical system displacement using an atomic force microscope." *Journal of Applied Physics* 116 (6): 066807.
22	P.Y. Furlan & M.E. Melcer (2014). "Removal of aromatic pollutant surrogate from water by recyclable magnetite-activated carbon nanocomposite: An experiment for general chemistry." *Journal of Chemical Education* 91 (11): 1966-1970.
21	S. Kwon, W. Yang, Y. Choi, & J. Park (2014). "Force spectroscopy of membrane hardness of SH-SY5Y neuroblastoma cells before and after differentiation." *Journal of the Korean Physical Society* 64 (10): 1595-1599.
20	T. Mocan, C.T. Matea, I. Cojocaru, I. Ilie, F.A. Tabaran, F. Zaharie, C. Iancu, D. Bartos, & L. Mocan (2014). "Photothermal treatment of human pancreatic cancer using PEGylated multi-walled carbon nanotubes iInduces apoptosis by triggering mitochondrial membrane depolarization mechanism." *Journal of Cancer* 5 (8): 679.
19	J.W. Ok, D.J. Kwak, S.H. Kim, & Y.M. Sung (2014). "Conductive and transparency characteristics of titanium-doped indium-tin oxide (InSnO2:Ti) films deposited by radio frequency magnetron sputtering." *Vacuum* 110 (0): 196-201.
18	K.T. Petrova, T.M. Potewar, O.S. Ascenso, & M.T. Barros (2014). "Amide-linked N-methacryloyl sucrose containing polymers." *Carbohydrate Polymers* 110: 38-46.
17	H.Y. Tseng, V. Adamik, J. Parsons, S.S. Lan, S. Malfesi, J. Lum, L. Shannon, & B. Gray (2014). "Development of an electrochemical biosensor array for quantitative polymerase chain reaction utilizing three-metal printed circuit board technology." *Sensors and Actuators B: Chemical* 204: 459-466.
16	P.M. Weirich, C.H. Schwalb, M. Winhold, & M. Huth (2014). "Superconductivity in the system MoxCyGazOδ prepared by focused ion beam induced deposition." *Journal of Applied Physics* 115 (17): 174315.
15	M. Winhold, P. Weirich, C. Schwalb, & M. Huth (2014). "Identifying the crossover between growth regimes via *in-situ* conductance measurements in focused electron beam induced deposition." *Nanofabrication* 1 (1).

Customer Publication List - October, 2025

14	M. Winhold, P. Weirich, C. Schwalb, & M. Huth (2014). "Superconductivity and metallic behavior in PbxCyOδ structures prepared by focused electron beam induced deposition." *Applied Physics Letters* 105 (16): 162603.
13	**Conference paper:** S. Wheelis, A. Adapalli, P. Valderramma, T. Wilson, & D. Rodrigues (2014). "Study of the effects of detoxification treatments on the surface of titanium dental implants (733.5)." *The FASEB Journal* 28 (S1), *Experimental Biology 2014 Meeting* Abstracts.
12	**Conference paper:** A. Gellineau, Y. Wong, A. Wang, M. Butte, & O. Solgaard (2014). "Miniature fiber facet atomic force microscope using photonic crystal sensors." *2014 International Conference on Optical MEMS and Nanophotonics* pp. 3-4.
11	**Conference paper:** F.J. Azcona, S. Royo, & A. Jha (2014). "Towards atomic force microscopy measurements using differential self-mixing interferometry." *SENSORS, 2014 IEEE* pp. 766-770.
10	E. Collins, M. Pantoya, A. Vijayasai, & T. Dallas (2013). "Comparison of engineered nanocoatings on the combustion of aluminum and copper oxide nanothermites." *Surface and Coatings Technology* 215: 476-484.
9	C. Frigerio, J.L.M. Santos, J.A.C. Barbosa, P. Eaton, M.L.M.F.S. Saraiva, & M.L.C. Passos (2013). "A soft strategy for covalent immobilization of glutathione and cysteine capped quantum dots onto amino functionalized surfaces." *Chemical Communications* 49 (25): 2518-2520.
8	C.S. Neves, C.M. Granadeiro, L. Cunha-Silva, D. Ananias, S. Gago, G. Feio, P.A. Carvalho, P. Eaton, S.S. Balula, & E. Pereira (2013). "Europium polyoxometalates encapsulated in silica nanoparticles – Characterization and photoluminescence studies." *European Journal of Inorganic Chemistry* 16: 2877-2886.
7	J. Park, J.Y. Paek, I. Chang, S. Ji, S.W. Cha, & S.I. Oh (2013). "Pulsed laser deposition of Y-doped BaZrO3 thin film as electrolyte for low temperature solid oxide fuel cells." *CIRP Annals - Manufacturing Technology* 62 (1): 563-566.

Customer Publication List - October, 2025

6	**Conference paper:** A. Pereira, M.J. Melo, P. Eaton, S. Schäfer, & T. Learner. “A preliminary study into the effects of cleaning polyvinyl acetate paints.” *In* New Insights into the Cleaning of Paintings *Proceedings of the Cleaning 2010 International Conference*. A. E. C. M.F. Mecklenberg, R.J. Koestler, Smithsonian Institute, pp 135-138 (2013).
5	**Conference paper:** A. Daugela & S. Tadepalli. “DLC coatings characterization on HDD recording heads.” *In ASME 2013 Conference on Information Storage and Processing Systems*, ISPS2013-2932: V001T01A023 (2013).
4	**Patent:** P. Abbamonte & S. MacLaren. “Method of manufacture of X-Ray diffraction gratings.” US Patent App.13/779,299, The Board of Trustees of the University of Illinois, Urbana, IL (US) (2013).
3	A. Vijayasai, G. Ramachandran, G. Sivakumar, C. Anderson, R. Gale, & T. Dallas (2012). “Characterization of a nanocoating using a MEMS tribogauge.” *Proceedings of SPIE - The International Society for Optical Engineering* 8250.
2	**Thesis:** D.M.R. Ferreirinha (2012). “*Preparation and Characterization of Novel Luminescent Nanoparticles for Biodiagnosis Applications*.” Universidade do Porto, Master’s Thesis.
1	A. Pereira, M. Melo, P. Eaton, S. Schäfer, & T. Learner (2011). "AFM in the conservation of contemporary paintings: the case of the white paintings of Julião Sarmento." *Microscopy and Microanalysis* 17 (S2): 1792-1793.