Customer Publication List - October, 2022

395	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.
394	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.
393	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.
392	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.
391	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: 20210326.
390	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. de 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.
389	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.
388	M. Lowe, B. Glezer, B. Toulan, & B. Hess (2022). "Atomic Force Microscopy Measurements and Model of DNA Bending Caused by Binding of AraC Protein." *Authorea* (Available online).

Customer Publication List - October, 2022

387	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.
386	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.
385	H.D. Jabbar, M.A. Fakhri, & M.J. AbdulRazzaq (2022). "Synthesis Gallium Nitride on Porous Silicon Nano-Structure for Optoelectronics Devices." *Silicon* (Available online).
384	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.
383	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.
382	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.
381	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.
380	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.
379	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* (Available online).

Customer Publication List - October, 2022

378	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.
377	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.
376	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.
375	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.
374	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* (Available online).
373	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.
372	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.
371	R. Xue, L. Zhao, S. Chen, H. Chen, M. Cui, & X. Bai (2022). "Improved Optical, Dielectric, and Nonlinear Properties of Cacu3ti4o12 Films by Chromium Doping." Available at SSRN: https://ssrn.com/abstract=4154946 or http://dx.doi.org/10.2139/ssrn.4154946.
370	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.

Customer Publication List - October, 2022

369	P. Patil & C. Jones (2022). “Reducing Uncertainties in Nanoindentation Experiments for Cementitious Materials.” *Transportation Research Record* (Available online).
368	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.
367	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.
366	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.
365	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.
364	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.
363	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.
362	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.
361	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.

Customer Publication List - October, 2022

360	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.
359	V.N.C. da Silva, E.A. de 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. do 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.
358	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.
357	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.
356	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 (A)**:** 113183.
355	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.
354	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.
353	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.
352	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.

Customer Publication List - October, 2022

351	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.
350	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.
349	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.
348	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.
347	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.
346	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.
345	S. Newacheck, A. Singh, & G. Youssef (2022). “On the magnetoelectric performance of multiferroic particulate composite materials.” *Smart Materials and Structures* 31**:** 015022.
344	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: 752-761.
343	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.

Customer Publication List - October, 2022

342	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.
341	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.
340	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.
339	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.
338	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.
337	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.
336	S. Do, J. Canilao, S. Stepp, & G. Youssef (2022). “Thermomechanical investigations of polyurea microspheres.” *Polymer Bulletin* 79: 1081–1095.
335	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.
334	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.

Customer Publication List - October, 2022

333	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.
332	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.
331	M. Gürsoy, E. Çıtak, & M. Karaman (2021). "Uniform deposition of large-area graphene films on copper using low-pressure chemical vapor deposition technique." *Carbon Letters* 32: 781–787.
330	**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*
329	**Thesis:** C.R.A. Harding (2022). "Green solvent processable, solvent resistant, printed organic semiconducting films." *University of Calgary* The Vault: Electronic Theses and Dissertations
328	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.
327	P.E.F Stricker, D. de Souza 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. de Oliveira 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.
326	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.

Customer Publication List - October, 2022

325	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.
324	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.
323	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.
322	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.
321	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.
320	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.
319	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.

Customer Publication List - October, 2022

318	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.
317	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.
316	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.
315	M. Takada, K. Inoue, H. Sugimoto, & M. Fujii (2021). "Solution-processed silicon quantum dot photocathode for hydrogen evolution." *Nanotechnology* 32 (48): 485709.
314	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.
313	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.
312	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.

Customer Publication List - October, 2022

311	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.
310	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
309	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.
308	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.
307	F. Xia, J. Quigley, X. Zhang, C. Yang, Y. Wang, & Kamal Youcef-Toumi (2021). “A modular low-cost atomic force microscope for precision mechatronics education.” *Mechatronics* 76: 102550.
306	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.

Customer Publication List - October, 2022

305	C. Su, K. Hirth, Z. Liu, Y. Cao, & J.Y. Zhu (2021). "Characterization of novel human intragenic antimicrobial peptides, incorporation and release studies from ureasil-polyether hybrid matrix to facilitate value-added multi-product biorefinery at atmospheric pressure." *GCB Bioenergy: Bioproducts for a Sustainable Bioeconomy* 13 (9): 1407-1424.
304	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.
303	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.
302	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.
301	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.
300	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.
299	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.
298	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.

Customer Publication List - October, 2022

297	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.
296	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.
295	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: 1267.
294	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.
293	P. Narin, E. Kutlu-Narin, & S.B. Lisesivdin (2021). "Growth dynamics of mist-CVD grown ZnO nanoplatelets." *Physica B: Condensed Matter* 614: 413028.
292	M. Sopronyi, C. Nita, JM. 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.
291	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.
290	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.

Customer Publication List - October, 2022

289	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.
288	A. Blourchian, A.M. Shaik, N.U. Huynh, & G. Youssef (2021). "Segmental evolution of ultraviolet weathered polyurea." *Journal of Polymer Research* 28: 117.
287	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.
286	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.
285	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.
284	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 (5): 2779-2784.
283	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. Alves 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.
282	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.
281	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.

Customer Publication List - October, 2022

280	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.
279	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.
278	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).
277	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).
276	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: 023103.
275	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.
274	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.
273	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.

Customer Publication List - October, 2022

272	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.
271	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.
270	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.
269	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.
268	**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
267	**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.
266	N. Nikooienejad, M. Maroufi, & R. Moheimani (2020). "Iterative Learning Control for Video-rate Atomic Force Microscopy." *IEEE/ASME Transactions on Mechatronics* (Available online).
265	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.

Customer Publication List - October, 2022

264	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.
263	S. Do, S. Stepp, & G. Youssef (2020). "Quasi-static and dynamic characterization of polyurea microspheres reinforced polyurea matrix composite." *Materials Today Communications* 25: 101464.
262	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.
261	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.
260	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.
259	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.
258	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.
257	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.

Customer Publication List - October, 2022

256	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.
255	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.
254	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 (A): 279-290.
253	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.
252	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.
251	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.
250	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.

Customer Publication List - October, 2022

249	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.
248	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.
247	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.
246	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.
245	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.
244	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.
243	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.
242	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.
241	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.

Customer Publication List - October, 2022

240	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.
239	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.
238	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.
237	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.
236	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.
235	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.
234	S. Do, S. Stepp, & G. Youssef (2020). "Quasi-static and dynamic characterization of polyurea microspheresreinforced polyurea matrix composite." *Materials Today Communications* 25: 101464.
233	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.
232	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.

Customer Publication List - October, 2022

231	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.
230	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.
229	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.
228	F.M. Sombra, A.R. Richter, A.R. de Araújo, F.d.S. Ribeiro, J.d.S. Mendes, R.O.d. 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.
227	I. de S. Sene, V. Costa, D.C. Braz, E.A. de 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.
226	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.
225	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.
224	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/O2 Electrochemical Reactions." *Electroanalysis* 32: 1-10.

Customer Publication List - October, 2022

223	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.
222	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.
221	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.
220	A.M. Shaik, N.U. Huynh, & G. Youssef (2020). “Micromechanical behavior of ultraviolet-exposed polyurea.” *Mechanics of Materials* 140: 103244.
219	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. de Souza de Almeida 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.
218	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.
217	A.K.A. de Sousa, F.O.C. 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.
216	**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.

Customer Publication List - October, 2022

215	**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
214	**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.
213	**Thesis:** A. Sonawane (2020). "Understanding the Effects of Plasma Assisted Nanoparticle Deposition for the Enhancement of Optical and Electrochemical Response." *Florida International University* Electronic Theses and Dissertations, 4514.
212	H.R.S. Lima, E.A. de Oliveira 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.
211	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.
210	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.
209	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.
208	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.

Customer Publication List - October, 2022

207	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.
206	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.
205	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.
204	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.
203	A.R. de Araujo, B. Iles, K. de Melo Nogueira, J.d. Dias, A. Plácido, A. Rodrigues, P. Albuquerque, I. Silva-Pereira, R. Socodato, C.C. Portugal, J.B. Relvas, L.M.G. 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.
202	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
201	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.
200	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.

Customer Publication List - October, 2022

199	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.
198	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.
197	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.
196	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.
195	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.
194	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.
193	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.
192	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.

Customer Publication List - October, 2022

191	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.
190	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.
189	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.
188	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.
187	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.
186	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.
185	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.
184	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, 2022

183	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.
182	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.
181	P.K. Rastogi, K.R. Sahoo, P.Thakur, R.Sharma, S.Bawari, R.Podila, & N. Tharangattu Narayanan (2019). “Graphene-hBN non-van der Waals vertical heterostructures for four electron oxygen reduction reaction.” *Physical Chemistry Chemical Physics* 21 (7): 3942-3953.
180	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.
179	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.
178	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.
177	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.
176	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).
175	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 Environmen* 27: 148.

Customer Publication List - October, 2022

174	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.
173	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.
172	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.
171	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
170	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.
169	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
168	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.
167	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.

Customer Publication List - October, 2022

166	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.
165	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.
164	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
163	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.
162	**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.
161	**Thesis:** C. Deger (2019). “Current-Driven Generation and Stabilization of Magnetic Skyrmions.” *Marmara University, Institute for Graduate Studies in Pure and Applied Sciences.*
160	**Thesis:** D.M. Dryden (2019). “Electrochemical Fabrication of High-Aspect Ratio Nanostructures.” *University of California Davis, Materials Science and Engineering in the Office of Graduate Studies.*
159	**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.
158	**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).

Customer Publication List - October, 2022

157	**Patent**: Zihlmann C. & Bufler M. Bone substitute material. US20190184059A1 (https://patents.google.com/patent/US20190184059A1/en).
156	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.
155	R. Wang, H. Bian, H. Ji, & R. Yang (2018). “Preparation of lignocellulose/graphene composite conductive paper.” *Cellulose* 25 (10): 6139-6149.
154	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.
153	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.
152	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.
151	M.S. Morais, F.N. Rodigues, I.O.N. da Silva, A.E. Salvador, R.I. Franco, A. P. G. de Souza, H. C. P. da Silva P1, G. N. L. de Almeida, P. R. Rocha, A.C.T. Pereira, P. G. Ferreira, V. P. Quelemes, P.M. de Araújo, F.F. Sperandio, J.L. Santos, A.M.O. Filho, C.C.L. Malaquias, & F.L.L. Coelho (2018). “Serum albumin nanoparticles vaccine provides protection against a lethal Pseudomonas aeruginosa challenge.” *Vaccine* 36 (43): 6408-6415
150	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 TiO2 nanolayers.” *Materials Research Express* 5 (12).
149	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.

Customer Publication List - October, 2022

148	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.
147	Y. You, D.Y. Kim, S. Shin, & J.W. Shim (2018). "Interdigitated Horizontal Electrodes for Organic Solar Cells." *IEEE Access*, 6: 64569-64576.
146	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.
145	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.
144	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.
143	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.
142	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.
141	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.
140	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.

Customer Publication List - October, 2022

139	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.
138	K. Farzanian & A. Ghahremaninezhad (2018). “Desorption of superabsorbent hydrogels with varied chemical compositions in cementitious materials.” *Materials and Structures* 51: 3.
137	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 (22): 1-14.
136	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.
135	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.
134	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.
133	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.
132	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, 1–10.
131	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.
130	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.

Customer Publication List - October, 2022

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	**Patent:** Yu et al. Thin Film Composites Having Graphene Oxide Quantum Dots. US2018/0207591A1 (https://patents.google.com/patent/US20180207591A1/en)**.**
127	**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.
126	**Thesis:** M.A. Shaik (2018). "Segmental Evolution of Ultraviolet Exposed Polyurea." *San Diego State University* ProQuest Dissertations Publishing 10824165.
125	**Thesis:** N.U.T. Huynh (2018). "Characterization of Surface Morphology of Thin- Film Platinum and Glassy Carbon Microelectrodes." *San Diego State University* ProQuest Dissertations Publishing, 10745571.
124	**Thesis:** K. Chang (2018). "Achromatic Liquid Crystal Electro-Optical Devices Based On a Twisted Vertical Alignment Configuration." *Kent State University, College of Arts and Sciences / Department of Chemical Physics.*
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." *J. Magnetism Magnetic Mat* 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. Antoh (2017). "Irradiation of nuclear materials with laser- plasma filaments produced in air and deuterium by terrawatt (TW) laser pulses." *J. Physics D: Applied Physics* 51 (2): xx-xx.

Customer Publication List - October, 2022

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.” *J. Appl. Polymer Sci.* 134 (25): 44983.
119	S. Bhagyaraj & O. Samuel (2017). “4- Green synthesis and characterization of semiconductor and metal nanoparticles.” in “Biomedical Application of Nanoparticles”, CRC Press.
118	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.” *J. Vis. Exp.* 119: e55079.
117	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.
116	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.
115	H. Bian, L. Chen, R. Gleisner, H. Daia, & J. Y. Zhu (2017). “Producing wood- based nanomaterials by rapid fractionation of wood at 80 °C using a recyclable acid hydrotrope” *Green Chemistry* 14 (online first).
114	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." *J. Polymer Science B: Polymer Physics* 55(4): 330-343.
113	V.S. Cardoso, M.D.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. Painof, V. Zucolotto, A.C. Tedesco, D.A.S., 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.
112	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, 2022

111	K. DeHority, N. Budin, S.S. Hilston, Y. Zhang, & A. Fillinger (2017). “Deposition of Nickel on Electrodeposited Cu2O Films at Potentials More Positive than the Nernst Potential of Ni2+/Ni0” *J. Electrochem. Soc.* 164 (9): H615-H620.
110	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.
109	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).
108	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.
107	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 (10): 1918–1930.
106	P.Y. Furlan, B.M. Ackerman, M.E. Melcer, & E.S. Perez (2017). “Reusable magnetic nanocomposite sponges for removing oil from water discharges” *J. Ship Prod. Design* 33 (3): 227-236.
105	O. Gomonay, T. Jungwirth, & J. Sinova (2017). “Concepts of antiferromagnetic spintronics.” *Phys. Status Solidi RRL*, 11: 1700022.
104	R. Kaur, J. Singh, & S.K. Tripathi (2017). "Incorporation of inorganic nanoparticles into an organic polymer matrix for data storage application." *Current Applied Physics* xx: 1-7.
103	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 Appl. Mater. Interfaces* 9 (10): 8581–8588.
102	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* xx: x-xx (online first).

Customer Publication List - October, 2022

101	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” *Polym. Bull.* 74: 4729-4743.
100	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.
99	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.
98	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.
97	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.
96	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.
95	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.

Customer Publication List - October, 2022

94	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.
93	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” *Mater. Chem. Front.* 1: 319-325.
92	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” *Mat. Sci. and Eng: C* 75: 503-509.
91	D. Presto, V. Song, & D. Boucher (2017). "P3HT/Ggraphene composites synthesized using *in situ* GRIM methods." *Journal of Polymer Science B: Polymer Physics* 55: 60-76.
90	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.
89	K. Ramam, B.S. Diwakar, K. Varaprasad, V. Swaminadham, & V. Reddy (2017). “Magnetic properties of nano-multiferroic materials” *J. Magnetism Magnetic Mat* 442: 453-459.
88	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." *J. Microelectromechanical Syst* 26(1): 215-225.
87	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 J. Biotechnol.* 16(43): 2072-2082.

Customer Publication List - October, 2022

86	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(A) 137-145.
85	E. Vomero, V. Castagnola, F. Ciarpella, E. Maggiolini, N. Goshi, E. Zucchini, S. Carli, L. Fadiga, S. Kassegne, & D. Ricci (2017). "Interfaces for long-term neural stimulation and low-noise recording of brain activity." *Scientific Reports* 7: 40332.
84	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.
83	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.
82	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.
81	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: 20-26.
80	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.
79	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).
78	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).

Customer Publication List - October, 2022

77	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.
76	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.
75	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.
74	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.
73	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).
72	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 TiO2 microstructures” *Materials Letters* 183: 211-214.
71	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." J*ournal of Bioactive and Compatible Polymers* 0(0): 0883911516681329.
70	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. Mocana (2016). "Selective *in vitro* photothermal nano-therapy of MRSA infections mediated by IgG conjugated gold nanoparticles." *Scientific Reports* 6: 39466.

Customer Publication List - October, 2022

69	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.
68	J.H. Park, S.H. Choi, J. Zhao, S. Song, W. Yang, S.M. Kim, K.K. Kim, Y.H. Lee, & H. Young (2016). “Thickness-controlled multilayer hexagonal boron nitride film prepared by plasma-enhanced chemical vapor deposition.” *Current Applied Physics* xx: p. 1-7.
67	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.
66	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.
65	P.I. Quelemes, A.R. de Araújo, A. Plácido, C. Delerue-Matos, J.S. Maciel, P.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.
64	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 (16 pp).
63	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.

Customer Publication List - October, 2022

62	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.
61	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.
60	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.
59	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.
58	B. Amin-Shahidia & D. Trumper (2015). "Macro-scale atomic force microscope: An experimental platform for teaching precision mechatronics." *Mechatronics* 31: 234-242.
57	G. Borsoi, R. Van Hees, B. Lubelli, R. Veiga, & A.S. Silva. “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 (2015).
56	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.
55	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.

Customer Publication List - October, 2022

54	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.
53	M.A. Guimarães, R.N. de Oliveira, L.M.C. Veras, D.F. Lima, Y.D.M. Campelo, S.A. Campos, S.A.S. Kuckelhaus, P.L.S. Pinto, P. Eaton, A.C. Mafud, Y.P. Mascarenhas, S.M. Allegretti, J. de Moraes, A. Lolić, T. Verbić, & J.R.S.A. Leite (2015). "Anthelmintic activity *in vivo* of epiisopiloturine against juvenile and adult worms of *Schistosoma mansoni*" P*LoS Neglected Tropical Diseases* 9(3): e0003656.
52	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.
51	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.
50	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.
49	S. Kwon & W. Yang (2015). "Determination of cell differentiation by probing cell membrane stiffness." *Journal of the Korean Physical Society* 67(4): 713-717.
48	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.

Customer Publication List - October, 2022

47	M.M. Lim, T. Sum, & N. Sultana (2015). "*In vitro* biological evaluation of electrospun polycaprolactone/gelatine nanofibrous scaffold for tissue engineering." *Journal of Nanomaterials*: Article ID 303426, 303410 pages.
46	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.
45	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.
44	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.
43	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.
42	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.
41	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.
40	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.
39	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.

Customer Publication List - October, 2022

38	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.
37	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.
36	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.
35	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.
34	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.
33	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/ drug degradation process." *Talanta* 135: 27- 33.
32	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.
31	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.
30	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.

Customer Publication List - October, 2022

29	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): n/a-n/a.
28	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.
27	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.
26	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.
25	J. Evans & S. Chapman (2014). "Characterizing absolute piezoelectric microelectromechanical system displacement using an atomic force microscope." *Journal of Applied Physics* 116(6): 066807.
24	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.
23	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.
22	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.

Customer Publication List - October, 2022

21	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.
20	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.
19	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.
18	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.
17	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(1S).
16	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).
15	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.
14	**Conference paper:** M. Tabib-Azar, N. Hassan, H. Pourzand, & P. Pai (2014). "Contact resistance, stiction force, and field-assisted growth and migration in MEMS and NEMS metals." *SENSORS, 2014 IEEE* pp. 974-977.
13	**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.
12	**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.

Customer Publication List - October, 2022

11	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).
10	F.K. Chowdhury, H. Pourzand, & M. Tabib-Azar. “Investigation of contact resistance evolution of Ir, Pt, W, Ni, Cr, Ti, Cu and Al over repeated hot-contact switching for nems switches.”, *In* 2013 IEEE-26th International Conference on Micro Electro Mechanical Systems (MEMS), pp. 445-448 (2013).
9	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.
8	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).
7	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.
6	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.
5	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.
4	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).

Customer Publication List - October, 2022

3	I.M.S. Araújo, M.F. Zampa, J.B. Moura, J.R. dos Santos Jr., P. Eaton, V. Zucolotto, L.M.C. Véras, R.C.M. de Paula, J.P.A. Feitosa, J.R.S.A. Leite, & C. Eiras (2012). "Contribution of the cashew gum (*Anacardium occidentale, L.*) for the development of layer-by-layer films with potential application in nanobiomedical devices." *Materials Science and Engineering: C* 32(6): 1588-1593.
2	A. Vijayasai, G. Ramachandran, G. Sivakumar, C. Anderson, R. Gale, & T. Dallas (2012). “Characterization of a nanocoating using a MEMS tribogauge.” *In* SPIE MOEMS-MEMS, pp. 82500C- 82500C-82509, International Society for Optics and Photonics.
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.