

LIST OF PUBLICATIONS

1. H. Bian, Y. Gao, R. Wang, Z. Liu, W. W and H. Dai (2018). "Contribution of lignin to the surface structure and physical performance of cellulose nanofibrils film" *Cellulose*, 1–10.
2. L. Chen, Y. Zhou, Z. He, Q. Liu, S. Lai and 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.
3. K. Farzanian and A. Ghahremaninezhad (2018). "Desorption of superabsorbent hydrogels with varied chemical compositions in cementitious materials" *Materials and Structures* 51: 3.
4. J. U. Ahamed, N. P. Begum and M. N. I. Khan (2017). "Property elucidation of vacuum-evaporated zinc telluride thin film towards optoelectronic devices." *Sādhanā* 42 (10): 1773–1781.
5. D. Aryee and 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.
6. 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 and 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
7. S. D. Bhagavathula, V. Kokkarachedu, D. Q. Acuna, R. Koduri, S. Veluri and 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.
8. S. Bhagyaraj and O. Samuel (2017). "4- Green synthesis and characterization of semiconductor and metal nanoparticles." in "Biomedical Application of Nanoparticles", CRC Press.
9. H. Bian, L. Chen, R. Wang and 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.
10. H. Bian, L. Chen, H. Dai and 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.
11. H. Bian, L. Chen, H. Dai and 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.
12. H. Bian, L. Chen, R. Gleisner, H. Daia and 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).
13. 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.

14. 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 and 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.
15. L. Chen, J. Dou, Q. Ma, N. Li, R. Wu, H. Bian, D. J. Yelle, T. Vuorinen, S. Fu, X. Pan and J.Y. Zhu (2017). "Rapid and near-complete dissolution of wood lignin at $\leq 80^{\circ}\text{C}$ by a recyclable acid hydrotrope" *Science Advances* 3 (9): e1701735.
16. K. DeHority, N. Budin, S. S. Hilston, Y. Zhang and A. Fillinger (2017). "Deposition of Nickel on Electrodeposited Cu_2O Films at Potentials More Positive than the Nernst Potential of $\text{Ni}^{2+}/\text{Ni}^0$ " *J. Electrochem. Soc.* 164 (9): H615-H620.
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19. X. Feng, C. Fu and 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).
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26. J. S. Kim, J. S. Choi and 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.
27. M. Lin, S. H. Tay, H. Yang, B. Yang and 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).

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34. L. Mocan, C. Matea, F. A. Tabaran, O. Mosteanu., T. Pop, C. Puia, L. Agoston-Coldea, G. Zaharie, T. Mocan, A. D. Buzoianu and C. Iancu (2017). "Selective *ex vivo* photothermal nano-therapy of solid liver tumors mediated by albumin conjugated gold nanoparticles." *Biomaterials* 119: 33-42.
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38. A. Plácido, I. Bragança, M. Marani, A. R. Araujo, A. G. Vasconcelos, K. Batziou, V. Domingues, P. Eaton, J. R. S. A. Leite and 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.
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