



Customer Publication List - November, 2020

256	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." <i>Journal of Applied Polymer Science</i> 138 (2): 49652.
255	M. Prithviraj, R. Muralikannan (2020). "Investigation of Optimal Alkali-treated <i>Perotis indica</i> Plant Fibers on Physical, Chemical, and Morphological Properties." <i>Journal of Natural Fiber</i> (Available online).
254	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 (2020). "Microwave-initiated rapid synthesis of phthalated cashew gum for drug delivery systems." <i>Carbohydrate Polymers</i> (Available online), 117226.
253	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 <i>Anadenanthera colubrina</i> ." <i>International Journal of Biological Macromolecules</i> 165 (A): 279-290.
252	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." <i>Materials Science and Engineering: B</i> 254: 114506.
251	I. Khmelinskii, V.I. Makarov (2020). "Superluminescence and Macroscopic Exciton Propagation in Freestanding ZnO thin films." <i>Journal of Physics and Chemistry of Solids</i> 146: 109568.
250	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." <i>ACS Applied Nano Materials</i> 3 (6): 5399–5409.

249	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 <i>Candida albicans</i> planktonic and biofilm cells." <i>Scientific Reports</i> 10: 10327.
248	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." <i>Microsystems & Nanoengineering</i> 6: 20.
247	S. Liu, R. Kishen, R. Krishnan, D. Dahal, B. Lüssem (2020). "Analytic Device Model of Organic Field-Effect Transistors with Doped Channels." <i>ACS Applied Materials & Interfaces</i> 12 (44): 49857–49865.
246	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." <i>ACS Applied Materials & Interfaces</i> 12 (39): 43684–43693.
245	P. Peng & A.A. Park (2020). "Supercritical CO ₂ -induced alteration of a polymer–metal matrix and selective extraction of valuable metals from waste printed circuit boards." <i>Green Chemistry</i> 22: 7080-7092.
244	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 (2020). "Influence of Nonmodified Layered Double Hydroxide (LDH) Metal Constituents in PMMA/LDH Nanocomposites." <i>Journal of Inorganic and Organometallic Polymers and Materials (Available online)</i> .
243	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." <i>Science Advances</i> 6 (20): eaaz6485.
242	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." <i>Microbial Pathogenesis</i> 149: 104513.
241	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." <i>Frontiers in Bioengineering and Biotechnology</i> 8: 565084.
240	L.E. Sima, G. Chiritoiu, I. Neguț, 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." <i>Frontiers in Chemistry</i> 8: 184.

239	M. Yu, S. Ishii, J.Ku. J. Yang, C. Huang, T. Lu, T. Lin, T. Nagao, K. Chen (2020). "Graphene-Loaded Plasmonic Zirconium Nitride and Gold Nanogroove Arrays for Surface-Charge Modifications." <i>ACS Applied Nano Materials</i> 3 (6): 5002-5007.
238	M. Mahdavi, M.B. Coskun, S.O.R. Moheimani (2020). "High Dynamic Range AFM Cantilever With a Collocated Piezoelectric Actuator-Sensor Pair." <i>Journal of Microelectromechanical Systems</i> 29 (2): 260-267.
237	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." <i>Journal of Microelectromechanical Systems</i> 29 (5): 661-668.
236	A. Sonawane, M.A. Mujawar, S. Bhansali (2020). "Effects of cold atmospheric plasma treatment on the morphological and optical properties of plasmonic silver nanoparticles." <i>Nanotechnology</i> 31 (36): 365706.
235	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." <i>Journal of Applied Polymer Science</i> 137 (39): 49190.
234	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 <i>Anacardium occidentale</i> polysaccharide and characterization by AFM." <i>International Journal of Biological Macromolecules</i> 156: 981-987.
233	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." <i>Minerals Engineering</i> 152: 106358.
232	S. Do, S. Stepp, G. Youssef (2020). "Quasi-static and dynamic characterization of polyurea microspheresreinforced polyurea matrix composite." <i>Materials Today Communications</i> 25: 101464.
231	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- <i>b</i>]thiophene End-capped Perylene Diimide: Should the 1,6-Regioisomers be systematically considered as a byproduct?" <i>Scientific Reports</i> 10: 3262.
230	Md. Abdul Momin, A.H. Bhuiyan (2020). "Topological properties and direct current electrical charge transport mechanism of plasma polymerized cyclohexane thin films." <i>Thin Solid Films</i> 704: 138014.

229	L.J. Bessa, M.P. de Almeida, P. Eaton, E. Pereira, P. Gameiro (2020). "Silver Nanostars-Coated Surfaces with Potent Biocidal Properties." <i>International Journal of Environmental Research and Public Health</i> 17 (21): 7891.
228	S. Kim, M.A. Saeed, S.H. Kim, J.W. Shim (2020). "Enhanced hole selecting behavior of WO ₃ interlayers for efficient indoor organic photovoltaics with high fill-factor." <i>Applied Surface Science</i> 527: 146840.
227	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." <i>Nature Catalysis</i> 3: 148-153.
226	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 <i>Sterculia striata</i> polysaccharide nanocarrier." <i>International Journal of Biological Macromolecules</i> 146: 1133-1141.
225	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." <i>Journal of Clinical Medicine Research</i> 2 (3): 1-17.
224	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." <i>Green Chemistry</i> (published online).
223	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." <i>Microsystem Technologies</i> 26: 775–785.
222	G.L. Caneppele, D.D. Reis, A.-M. B. Goncalves, G.C. Da Silva, C.A. Martins (2020). "Active Porous Electrodes Prepared by Ultrasonic-bath and their Application in Glucose/O ₂ Electrochemical Reactions." <i>Electroanalysis</i> 32: 1-10.
221	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." <i>ACS Applied Electronic Materials</i> 2: 48-55.
220	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." <i>Journal of Materials Chemistry C</i> 8: 2314-2319.

219	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." <i>Food Microbiology</i> 88: 103399.
218	A.M. Shaik, N.U. Huynh, G. Youssef (2020). "Micromechanical behavior of ultraviolet-exposed polyurea." <i>Mechanics of Materials</i> 140: 103244.
217	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 (<i>Attalea speciosa</i> Mart. ex Spreng.) and their antimicrobial applications." <i>Environmental Nanotechnology, Monitoring & Management</i> 13: 100281.
216	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." <i>Materials Today Communications</i> 22: 100762.
215	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." <i>2020 IEEE 33rd International Conference on Micro Electro Mechanical Systems (MEMS)</i> pp. 50-53.
214	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." <i>2020 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM)</i> pp. 2062-2067
213	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." <i>IOP Conf. Series: Materials Science and Engineering</i> 855: 012009.
212	A.K.A. de Sousa, F.O.C. Ribeiro, T.M. de Oliveira, A.R. de Araújo, J. do N. Dias, P. Albuquerque, I. Silva-Pereira, A.C. de Jesus Oliveira, P.V. Quelemes, J.R.S.A. Leite, D.A. da Silva (2019). "Quaternization of angico gum and evaluation of anti-staphylococcal effect and toxicity of their derivatives." <i>International Journal of Biological Macromolecules</i> (published online).
211	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 (<i>Orbignya phalerata</i>) for the electrochemical detection of methotrexate antineoplastic drug." <i>Journal of Solid State Electrochemistry</i> 23: 3153–3164.

210	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." <i>Catalysis Letters</i> 149: 1965-1974.
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208	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." <i>Redox Biology</i> 26: 101288.
207	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 <i>Terminalia fagifolia</i> Mart. and green synthesis of bioactive and biocompatible silver nanoparticles." <i>Industrial Crops and Products</i> 137: 52-65.
206	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." <i>ACS Applied Materials & Interfaces</i> 11: 12838-12845.
205	N. Nikooienejad, M. Maroufi, S.O.R. Moheimani (2019). "Rosette-scan video-rate atomic force microscopy: Trajectory patterning and control design." <i>Review of Scientific Instruments</i> 90: 073702.
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201	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." <i>Journal of Applied Polymer Science</i> 136 (42): 48129
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199	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." <i>Advanced Functional Materials</i> 29: 1906742.
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191	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." <i>International Journal of Biological Macromolecules</i> 135: 808-814.
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182	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." <i>Frontiers in Physiology</i> 10: 1261.
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