

Artigos publicados – Janeiro a Junho 2019

Published Articles - January to June 2019

- (1) Albuquerque de Oliveira, M. C.; de Souza Menezes, L.; Pincheira, P. I. R.; Rojas-Ulloa, C.; Gomez, N. R.; de Oliveira, H. P.; Leônidas Gomes, A. S. A Random Laser Based on Electrospun Polymeric Composite Nanofibers with Dual-Size Distribution. *Nanoscale Adv.* **2019**, 1 (2), 728–734. <https://doi.org/10.1039/C8NA00277K>.
- (2) Barbosa, J. de A. B.; de França, C. A.; Gouveia, J. J. de S.; Gouveia, G. V.; da Costa, M. M.; de Oliveira, H. P. Eudragit E100/Poly(Ethylene Oxide) Electrospun Fibers for DNA Removal from Aqueous Solution. *J. Appl. Polym. Sci.* **2019**, 136 (19), 47479. <https://doi.org/10.1002/app.47479>.
- (3) C. Oliveira, N. T.; Reyna, A. S.; Falcão, E. H. L.; de Araújo, C. B. Light Scattering, Absorption, and Refraction Due to High-Order Optical Nonlinearities in Colloidal Gold Nanorods. *J. Phys. Chem. C* **2019**, 123 (20), 12997–13008. <https://doi.org/10.1021/acs.jpcc.9b01369>.
- (4) Candido, I. C. M.; Soares, J. M. D.; de Araujo Barros Barbosa, J.; de Oliveira, H. P. Adsorption and Identification of Traces of Dyes in Aqueous Solutions Using Chemically Modified Eggshell Membranes. *Bioresour. Technol. Reports* **2019**, 7, 100267. <https://doi.org/https://doi.org/10.1016/j.biteb.2019.100267>.
- (5) Carvalho, M. E. T.; Oliveira, W. F.; Cunha, C. R. A.; Coelho, L. C. B. B.; Silva, M. V.; Carvalho Junior, L. B.; Santos, B. S.; Cabral Filho, P. E.; Fontes, A.; Correia, M. T. S. Evaluating the Glycophenotype on Breast Cancer Tissues with Quantum Dots-Cramoll Lectin Conjugates. *Int. J. Biol. Macromol.* **2019**, 138, 302–308. <https://doi.org/https://doi.org/10.1016/j.ijbiomac.2019.07.088>.
- (6) da Silva Jr., F. A. G.; Alcaraz-Espinoza, J. J.; da Costa, M. M.; de Oliveira, H. P. Low Intensity Electric Field Inactivation of Gram-Positive and Gram-Negative Bacteria via Metal-Free Polymeric Composite. *Mater. Sci. Eng. C* **2019**, 99, 827–837. <https://doi.org/https://doi.org/10.1016/j.msec.2019.02.027>.
- (7) de Oliveira, M. C. A.; de Oliveira, H. P. Strategies for Development of High-Performance Graphene-Based Supercapacitor. *Curr. Graphene Sci.* **2019**, 03, 1–9. <https://doi.org/10.2174/2452273203666190612122535>.
- (8) de Souza, J. M.; Messias, D. N.; Dantas, N. O.; Silva, A. C. A.; Pilla, V.; Andrade, A. A. Dependence of the Saturation Intensity with the Dopant Ion Concentration: Application to the Study of Nonlinear Optical Properties in Nd-Doped Phosphate Glass Matrix. *J. Lumin.* **2019**, 207, 374–377. <https://doi.org/https://doi.org/10.1016/j.jlumin.2018.11.040>.

- (9) Dias Soares, J. M.; de Oliveira, H. P. Silver-Based Surface Enhanced Raman Spectroscopy Devices for Detection of Organophosphorus Pesticides Traces. *Biotechnol. Prog.* **2019**, *0* (0), e2809. <https://doi.org/10.1002/btpr.2809>.
- (10) Dias Soares, J. M.; de Souza Menezes, L.; Pincheira, P. I. R.; Rojas-Ulloa, C.; Gomez, N. R.; Pequeno de Oliveira, H.; Leônidas Gomes, A. S. Plasmonically Enhanced Hybrid Metalorganic Random Laser in Eggshell Biomembrane. *Opt. Mater. (Amst)*. **2019**, *91*, 205–211. <https://doi.org/https://doi.org/10.1016/j.optmat.2019.03.025>.
- (11) Ely, V. L.; Vargas, A. C.; Costa, M. M.; Oliveira, H. P.; Pötter, L.; Reghelin, M. A.; Fernandes, A. W.; Pereira, D. I. B.; Sangioni, L. A.; Botton, S. A. Moraxella Bovis, Moraxella Ovis and Moraxella Bovoculi: Biofilm Formation and Lysozyme Activity. *J. Appl. Microbiol.* **2019**, *126* (2), 369–376. <https://doi.org/10.1111/jam.14086>.
- (12) Filho, J. C. S.; Zilio, S. C.; Messias, D. N.; Pilla, V.; Silva, A. C. A.; Dantas, N. O.; Andrade, A. A. Athermal Behavior of a Phosphate Glass Matrix at Low Temperatures Investigated by Interferometry. *J. Alloys Compd.* **2019**, *776*, 826–832. <https://doi.org/https://doi.org/10.1016/j.jallcom.2018.10.256>.
- (13) Gomes, M. A.; Carvalho, I. S.; Domingos, L. F. A.; Brandão-Silva, A. C.; Avila, J. F. M.; Rodrigues, J. J.; Alencar, M. A. R. C.; Valerio, M. E. G.; Macedo, Z. S. Temperature-Sensitive Luminescence of Y₂O₃:Nd³⁺ Nanocrystals Produced by an Eco-Friendly Route. *Opt. Mater. (Amst)*. **2019**, *89*, 536–542. <https://doi.org/https://doi.org/10.1016/j.optmat.2019.01.064>.
- (14) Lima, C. N.; Cabral Filho, P. E.; Santos, B. S.; Moura, P.; Fontes, A. Interactions of Mannose Binding-Lectin with Red Blood Cells by Employing Cationic Quantum Dots. *Int. J. Biol. Macromol.* **2019**, *125*, 1168–1174. <https://doi.org/https://doi.org/10.1016/j.ijbiomac.2018.12.098>.
- (15) Lima, R. M. A. P.; de Oliveira, M. C. A.; de Oliveira, H. P. Wearable Supercapacitors Based on Graphene Nanoplatelets/Carbon Nanotubes/Polypyrrole Composites on Cotton Yarns Electrodes. *SN Appl. Sci.* **2019**, *1* (4), 325. <https://doi.org/10.1007/s42452-019-0343-5>.
- (16) Manzani, D.; Souza Junior, J. B.; Reyna, A. S.; Silva Neto, M. L.; Bautista, J. E. Q.; Ribeiro, S. J. L.; de Araújo, C. B. Phosphotellurite Glass and Glass-Ceramics with High TeO₂ Contents: Thermal, Structural and Optical Properties. *Dalton Trans.* **2019**, *48* (18), 6261–6272. <https://doi.org/10.1039/c9dt00691e>.
- (17) Menezes, L. de S.; Acioli, L. H.; Maldonado, M.; Naciri, J.; Charipar, N.; Fontana, J.; Rativa, D.; de Araújo, C. B.; Gomes, A. S. L. Large Third-Order Nonlinear Susceptibility from a Gold Metasurface Far off the

- Plasmonic Resonance. *J. Opt. Soc. Am. B* **2019**, 36 (6), 1485–1491.
<https://doi.org/10.1364/JOSAB.36.001485>.
- (18) Moura, A. L.; Maia, L. J. Q.; Jerez, V.; Gomes, A. S. L.; de Araújo, C. B. Random Laser in Nd:YBO₃ Nanocrystalline Powders Presenting Luminescence Concentration Quenching. *J. Lumin.* **2019**, 214, 116543.
<https://doi.org/10.1016/j.jlumin.2019.116543>.
- (19) Ngulube, M.; Mweetwa, A. M.; Phiri, E.; Muriu, S. C.; Chalwe, H.; Shitumbanuma, V.; Brandenburg, R. L. Effects of Biochar and Gypsum Soil Amendments on Groundnut (*Arachis Hypogaea* L.) Dry Matter Yield and Selected Soil Properties under Water Stress. *African J. Agric. Res.* **2018**, 13 (21), 1080–1090. <https://doi.org/10.5897/AJARxx.xx>.
- (20) Pereira, M. I. A.; Pereira, G.; Monteiro, C. A. P.; Geraldés, C. F. G. C.; Cabral Filho, P. E.; Cesar, C. L.; de Thomaz, A. A.; Santos, B. S.; Pereira, G. A. L.; Fontes, A. Hydrophilic Quantum Dots Functionalized with Gd(III)-DO₃A Monoamide Chelates as Bright and Effective T₁-Weighted Bimodal Nanoprobés. *Sci. Rep.* **2019**, 9 (1), 1–11.
<https://doi.org/10.1038/s41598-019-38772-8>.
- (21) Ribeiro, A. E. A. S.; Soares, J. M. D.; Silva, H. A. L.; Wanderley, C. W. de S.; Moura, C. A.; de Oliveira-Junior, R. G.; de Oliveira, A. P.; Rolim, L. A.; Costa, E. V.; Almeida, J. R. G. da S.; et al. Inhibitory Effects of *Morus Nigra* L. (Moraceae) against Local Paw Edema and Mechanical Hypernociception Induced by Bothrops Jararacussu Snake Venom in Mice. *Biomed. Pharmacother.* **2019**, 111, 1046–1056.
<https://doi.org/https://doi.org/10.1016/j.biopha.2019.01.011>.
- (22) Ribeiro, J. F. F.; Pereira, M. I. A.; Assis, L. G.; Cabral Filho, P. E.; Santos, B. S.; Pereira, G. A. L.; Chaves, C. R.; Campos, G. S.; Sardi, S. I.; Pereira, G.; et al. Quantum Dots-Based Fluoroimmunoassay for Anti-Zika Virus IgG Antibodies Detection. *J. Photochem. Photobiol. B Biol.* **2019**, 194, 135–139.
<https://doi.org/https://doi.org/10.1016/j.jphotobiol.2019.03.019>.
- (23) Santos, F. A.; Abegão, L. M. G.; Fonseca, R. D.; Alcântara, A. M.; Mendonça, C. R.; Valle, M. S.; Alencar, M. A. R. C.; Kamada, K.; De Boni, L.; Rodrigues, J. J. Bromo- and Chloro-Derivatives of Dibenzylideneacetone: Experimental and Theoretical Study of the First Molecular Hyperpolarizability and Two-Photon Absorption. *J. Photochem. Photobiol. A Chem.* **2019**, 369, 70–76.
<https://doi.org/https://doi.org/10.1016/j.jphotochem.2018.10.012>.
- (24) Santos, F.; Abegão, L.; Fonseca, R.; Alcântara, A.; Mendonça, C.; Valle, M.; Alencar, M.; Kamada, K.; Boni, L.; Rodrigues Jr, J. *Experimental and Theoretical Study of the Microscopic Second- and Third-Order Optical Nonlinearities in Dibenzylideneacetone Derivatives.*; 2019. <https://doi.org/10.13140/RG.2.2.34580.76166>.

- (25) Silva do Nascimento, A.; Cabral Filho, P. E.; Fontes, A.; Saegesser Santos, B.; Rodrigues de Carvalho, F.; Stragevitch, L.; Soares Leite, E. CdSe Quantum Dots as Fluorescent Nanomarkers for Diesel Oil. *Fuel* **2019**, *239*, 1055–1060. <https://doi.org/https://doi.org/10.1016/j.fuel.2018.11.043>.
- (26) Viegas, I. M. A.; Santos, B. S.; Fontes, A.; Pereira, G. A. de L.; Pereira, C. F. Multivariate Optimization of Optical Properties of CdSe Quantum Dots Obtained by a Facile One-Pot Aqueous Synthesis. *Inorg. Chem. Front.* **2019**, *6* (6), 1350–1360. <https://doi.org/10.1039/C9QI00105K>.
- (27) Vieira, S. A.; Rakov, N.; de Araújo, C. B.; Falcão-Filho, E. L. Upconversion Luminescence in Europium Doped Y₂O₃ Powder Excited by Absorption of Three, Four, and Five Infrared Photons. *Opt. Mater. Express* **2019**, *9* (10), 3952–3961. <https://doi.org/10.1364/OME.9.003952>.
- (28) Wang, D.; Li, Q.; Han, C.; Lu, Q.; Xing, Z.; Yang, X. Atomic and Electronic Modulation of Self-Supported Nickel-Vanadium Layered Double Hydroxide to Accelerate Water Splitting Kinetics. *Nat. Commun.* **2019**, *10* (1), 3899. <https://doi.org/10.1038/s41467-019-11765-x>.