

ARTIGOS PUBLICADOS 2018

PUBLISHED ARTICLES 2018

- (1) Abegão, L. M. G.; Fonseca, R. D.; Ramos, T. N.; Mahuteau-Betzer, F.; Piguel, S.; Joatan R., J.; Mendonça, C. R.; Canuto, S.; Silva, D. L.; De Boni, L. Oxazole Dyes with Potential for Photoluminescence Bioprobes: A Two-Photon Absorption Study. *J. Phys. Chem. C* **2018**, *122* (19), 10526–10534. <https://doi.org/10.1021/acs.jpcc.8b01904>.
- (2) Alcaraz-Espinoza, J. J.; de Oliveira, H. P. Flexible Supercapacitors Based on a Ternary Composite of Polyaniline/Polypyrrole/Graphite on Gold Coated Sandpaper. *Electrochim. Acta* **2018**, *274*, 200–207. <https://doi.org/https://doi.org/10.1016/j.electacta.2018.04.063>.
- (3) Almeida, E. D. P.; Dipieri, L. V.; Rossetti, F. C.; Marchetti, J. M.; Bentley, M. V. L. B.; Nunes, R. de S.; Sarmiento, V. H. V.; Valerio, M. E. G.; Rodrigues Júnior, J. J.; Montalvão, M. M.; et al. Skin Permeation, Biocompatibility and Antitumor Effect of Chloroaluminum Phthalocyanine Associated to Oleic Acid in Lipid Nanoparticles. *Photodiagnosis Photodyn. Ther.* **2018**, *24*, 262–273. <https://doi.org/https://doi.org/10.1016/j.pdpdt.2018.10.002>.
- (4) Almeida, G. F. B.; Almeida, J. M. P.; Martins, R. J.; De Boni, L.; Arnold, C. B.; Mendonça, C. R. Third-Order Optical Nonlinearities in Bulk and Fs-Laser Inscribed Waveguides in Strengthened Alkali Aluminosilicate Glass. *Laser Phys.* **2017**, *28* (1), 15401. <https://doi.org/10.1088/1555-6611/aa8ac2>.
- (5) Almeida, G. F. B.; Martins, R. J.; Siqueira, J. P.; Almeida, J. M. P.; Rodrigues Jr., J. J.; Mendonça, C. R. Nonlinear Optical Waveguides Inscribed by Fs-Laser in Organic Crystal for Broadband Second Harmonic Generation of UV Pulses. *Opt. Mater. (Amst)*. **2018**, *83*, 229–232. <https://doi.org/https://doi.org/10.1016/j.optmat.2018.06.010>.
- (6) Almeida, J. M. P.; Paula, K. T.; Arnold, C. B.; Mendonça, C. R. Sub-Wavelength Self-Organization of Chalcogenide Glass by Direct Laser Writing. *Opt. Mater. (Amst)*. **2018**, *84*, 259–262. <https://doi.org/https://doi.org/10.1016/j.optmat.2018.06.068>.
- (7) Alvarenga, L. H.; Ribeiro, M. S.; Kato, I. T.; Núñez, S. C.; Prates, R. A. Evaluation of Red Light Scattering in Gingival Tissue – in Vivo Study. *Photodiagnosis Photodyn. Ther.* **2018**, *23*, 32–34. <https://doi.org/https://doi.org/10.1016/j.pdpdt.2018.05.016>.
- (8) Andrade, C. G.; Figueiredo, R. C. B. Q.; Ribeiro, K. R. C.; Souza, L. I. O.; Sarmiento-Neto, J. F.; Rebouças, J. S.; Santos, B. S.; Ribeiro, M. S.; Carvalho, L. B.; Fontes, A. Photodynamic Effect of Zinc Porphyrin on the Promastigote and Amastigote Forms of *Leishmania Braziliensis*.

Photochem. Photobiol. Sci. **2018**, 17 (4), 482–490.
<https://doi.org/10.1039/C7PP00458C>.

- (9) Araujo, E.; Libardi, J.; Faia, P.; Oliveira, H. *Characterization and Electrical Response to Humidity of Sintered Polymeric Electrospun Fibers of Vanadium Oxide-(TiO_2/WO_3)*; 2018. <https://doi.org/10.1007/s11664-018-6112-1>.
- (10) Araújo, I. M. S.; Silva, R. R.; Pacheco, G.; Lustri, W. R.; Tercjak, A.; Gutierrez, J.; Júnior, J. R. S.; Azevedo, F. H. C.; Figueiredo, G. S.; Vega, M. L.; et al. Hydrothermal Synthesis of Bacterial Cellulose–Copper Oxide Nanocomposites and Evaluation of Their Antimicrobial Activity. *Carbohydr. Polym.* **2018**, 179, 341–349.
<https://doi.org/https://doi.org/10.1016/j.carbpol.2017.09.081>.
- (11) Auras, B. L.; De Lucca Meller, S.; da Silva, M. P.; Neves, A.; Cocca, L. H. Z.; De Boni, L.; da Silveira, C. H.; Iglesias, B. A. Synthesis, Spectroscopic/Electrochemical Characterization and DNA Interaction Study of Novel Ferrocenyl-Substituted Porphyrins. *Appl. Organomet. Chem.* **2018**, 32 (5), e4318. <https://doi.org/10.1002/aoc.4318>.
- (12) Aureliano, D. P.; Lindoso, J. A. L.; de Castro Soares, S. R.; Takakura, C. F. H.; Pereira, T. M.; Ribeiro, M. S. Cell Death Mechanisms in Leishmania Amazonensis Triggered by Methylene Blue-Mediated Antiparasitic Photodynamic Therapy. *Photodiagnosis Photodyn. Ther.* **2018**, 23, 1–8.
<https://doi.org/https://doi.org/10.1016/j.pdpdt.2018.05.005>.
- (13) Avila, O. I.; Santos, M. V.; Shimizu, F. M.; Almeida, G. F. B.; Siqueir, J. P.; Andrade, M. B.; Balogh, D. T.; Ribeiro, S. J. L.; Mendonca, C. R. Direct Femtosecond Laser Printing of PPV on Bacterial Cellulose-Based Paper for Flexible Organic Devices. *Macromol. Mater. Eng.* **2018**, 303 (10), 1800265. <https://doi.org/10.1002/mame.201800265>.
- (14) Avila, O. I.; Tomazio, N. B.; Otuka, A. J. G.; Stefanelo, J. C.; Andrade, M. B.; Balogh, D. T.; Mendonca, C. R. Femtosecond Laser Writing of PPV-Doped Three-Dimensional Polymeric Microstructures. *J. Polym. Sci. Part B Polym. Phys.* **2018**, 56 (6), 479–483.
<https://doi.org/10.1002/polb.24568>.
- (15) Berezcki, A.; Lopez, M. A. P. A.; Wetter, N. U. Dynamically Stable Nd:YAG Resonators with Beam Quality beyond the Birefringence Limit and Pumping of a Singly Resonant Optical Parametric Oscillator. *Opt. Lett.* **2018**, 43 (4), 695–698. <https://doi.org/10.1364/OL.43.000695>.
- (16) Berezcki, A.; Wetter, N. U. *100 W Continuous Linearly Polarized, High Beam Quality Output from Standard Side-Pumped Nd:YAG Laser Modules*; 2017; Vol. 96. <https://doi.org/10.1016/j.optlastec.2017.05.020>.
- (17) Bertolete, M.; Barbosa, P. A.; Machado, R.; Samad, R. E.; Vieira, N. D.; Vilar, R.; de Rossi, W. Effects of Texturing the Rake Surfaces of

Cemented Tungsten Carbide Tools by Ultrashort Laser Pulses in Machining of Martensitic Stainless Steel. *Int. J. Adv. Manuf. Technol.* **2018**, 98 (9–12), 2653–2664. <https://doi.org/10.1007/s00170-018-2407-x>.

- (18) Bortoletto, D. R.; Lima, C. A.; Zezell, D.; Sato, E. T.; Martinho, H. Vibrational Spectra Calculation of Squamous Cell Carcinoma in the Amide Band Region. *Vib. Spectrosc.* **2018**, 97, 135–139. <https://doi.org/https://doi.org/10.1016/j.vibspec.2018.06.007>.
- (19) Brandão-Silva, A. C.; Gomes, M. A.; Macedo, Z. S.; Avila, J. F. M.; Rodrigues, J. J.; Alencar, M. A. R. C. Multiwavelength Fluorescence Intensity Ratio Nanothermometry: High Sensitivity over a Broad Temperature Range. *J. Phys. Chem. C* **2018**, 122 (35), 20459–20468. <https://doi.org/10.1021/acs.jpcc.8b05345>.
- (20) Brandão-Silva, A. C.; Gomes, M. A.; Novais, S. M. V.; Macedo, Z. S.; Avila, J. F. M.; Rodrigues, J. J.; Alencar, M. A. R. C. Size Influence on Temperature Sensing of Erbium-Doped Yttrium Oxide Nanocrystals Exploiting Thermally Coupled and Uncoupled Levels' Pairs. *J. Alloys Compd.* **2018**, 731, 478–488. <https://doi.org/https://doi.org/10.1016/j.jallcom.2017.09.156>.
- (21) Buarque, J. M. M.; Manzani, D.; Scarpari, S. L.; Nalin, M.; Ribeiro, S. J. L.; Esbenshade, J.; Schiavon, M. A.; Ferrari, J. L. SiO₂-TiO₂ Doped with Er³⁺/Yb³⁺/Eu³⁺ Photoluminescent Material: A Spectroscopy and Structural Study about Potential Application for Improvement of the Efficiency on Solar Cells. *Mater. Res. Bull.* **2018**, 107, 295–307. <https://doi.org/https://doi.org/10.1016/j.materresbull.2018.07.007>.
- (22) Cabral Filho, P. E.; Cabrera, M. P.; Cardoso, A. L. C.; Santana, O. A.; Geraldes, C. F. G. C.; Santos, B. S.; Pedroso de Lima, M. C.; Pereira, G. A. L.; Fontes, A. Multimodal Highly Fluorescent-Magnetic Nanoplatform to Target Transferrin Receptors in Cancer Cells. *Biochim. Biophys. Acta - Gen. Subj.* **2018**, 1862 (12), 2788–2796. <https://doi.org/https://doi.org/10.1016/j.bbagen.2018.08.014>.
- (23) Cabrera-Tinoco, H. A.; Moreira, A. C. L.; de Melo, C. P. Generalized Breit-Wigner Treatment of Molecular Transport: Charging Effects in a Single Decanedithiol Molecule. *J. Chem. Phys.* **2018**, 148 (19), 194304. <https://doi.org/10.1063/1.5016284>.
- (24) Carneiro, V. S. M.; Mota, C. C. B. O.; Souza, A. F.; Cajazeira, M. R. R.; Gerbi, M. E. M. M.; Gomes, A. S. L. Evaluation of the Polymerization Shrinkage of Experimental Flowable Composite Resins through Optical Coherence Tomography. In *Proc.SPIE*; 2018; Vol. 10501.
- (25) Carneiro, V. S. M.; Mota, C. C. B. O.; Souza, A. F.; Silva, E. J. da; Silva, A. F. da; Gerbi, M. E. M. M.; Gomes, A. S. L. Silver Nanoparticles as Optical Clearing Agent Enhancers to Improve Caries Diagnostic by

Optical Coherence Tomography; 2018; Vol. 10507, pp 1050717–1050719.

- (26) Carvalho, D. O.; Kassab, L. R. P.; Del Cacho, V. D.; da Silva, D. M.; Alayo, M. I. A Review on Pedestal Waveguides for Low Loss Optical Guiding, Optical Amplifiers and Nonlinear Optics Applications. *J. Lumin.* **2018**, *203*, 135–144.
<https://doi.org/https://doi.org/10.1016/j.jlumin.2018.06.037>.
- (27) Castro, T.; Manzani, D.; Ribeiro, S. *Up-Conversion Mechanisms in Er 3+ - Doped Fluoroindate Glasses under 1550 Nm Excitation for Enhancing Photocurrent of Crystalline Silicon Solar Cell*; 2018; Vol. 200.
<https://doi.org/10.1016/j.jlumin.2018.04.028>.
- (28) Cocca, L. H. Z.; Gotardo, F.; Sciuti, L. F.; Acunha, T. V; Iglesias, B. A.; de Boni, L. Investigation of Excited Singlet State Absorption and Intersystem Crossing Mechanism of Isomeric Meso-Tetra(Pyridyl)Porphyrins Containing Peripheral Polypyridyl Platinum(II) Complexes. *Chem. Phys. Lett.* **2018**, *708*, 1–10.
<https://doi.org/https://doi.org/10.1016/j.cplett.2018.07.061>.
- (29) Correia, S. F. H.; Frias, A. R.; Fu, L.; Rondão, R.; Pecoraro, E.; Ribeiro, S. J. L.; André, P. S.; Ferreira, R. A. S.; Carlos, L. D. Large-Area Tunable Visible-to-Near-Infrared Luminescent Solar Concentrators. *Adv. Sustain. Syst.* **2018**, *2* (6), 1800002. <https://doi.org/10.1002/adsu.201800002>.
- (30) Courrol, L. C.; Borges, C. R.; Vieira, D. P.; de Oliveira Gonçalves, K.; Samad, R. E. Interaction between Protoporphyrin IX and Tryptophan Silver Nanoparticles. *J. Nanoparticle Res.* **2018**, *20* (6).
<https://doi.org/10.1007/s11051-018-4269-4>.
- (31) Courrol, L. C.; Samad, R. E. Determination of Chicken Meat Contamination by Porphyrin Fluorescence. *J. Lumin.* **2018**, *199*, 67–70.
<https://doi.org/https://doi.org/10.1016/j.jlumin.2018.03.006>.
- (32) Cunha, C. R. A.; Oliveira, A. D. P. R.; Firmino, T. V. C.; Tenório, D. P. L. A.; Pereira, G.; Carvalho, L. B.; Santos, B. S.; Correia, M. T. S.; Fontes, A. Biomedical Applications of Glyconanoparticles Based on Quantum Dots. *Biochim. Biophys. Acta - Gen. Subj.* **2018**, *1862* (3), 427–439.
<https://doi.org/https://doi.org/10.1016/j.bbagen.2017.11.010>.
- (33) Cunha, C.; Andrade, C.; Pereira, M.; Filho, P.; Carvalho, L.; Coelho, L. C.; Santos, B.; Fontes, A.; Correia, M. *Quantum Dot–Cramoll Lectin as Novel Conjugates to Glycobiology*; 2017; Vol. 178.
<https://doi.org/10.1016/j.jphotobiol.2017.10.020>.
- (34) da Silva Jr., F. A. G.; de Araújo, C. M. S.; Alcaraz-Espinoza, J. J.; de Oliveira, H. P. Toward Flexible and Antibacterial Piezoresistive Porous Devices for Wound Dressing and Motion Detectors. *J. Polym. Sci. Part B*

Polym. Phys. **2018**, *56* (14), 1063–1072.
<https://doi.org/10.1002/polb.24626>.

- (35) da Silva, D. S.; Wetter, N. U.; de Rossi, W.; Kassab, L. R. P.; Samad, R. E. Production and Characterization of Femtosecond Laser-Written Double Line Waveguides in Heavy Metal Oxide Glasses. *Opt. Mater. (Amst)*. **2018**, *75*, 267–273.
<https://doi.org/https://doi.org/10.1016/j.optmat.2017.10.033>.
- (36) de A. B. Barbosa, J.; dos Santos, M. R.; de Oliveira, H. P. Electrospun Fibers of Copolymers for the Removal of Ionic Dyes: The Influence of Processing Variables. *Fibers Polym.* **2018**, *19* (1), 94–104.
<https://doi.org/10.1007/s12221-018-7444-9>.
- (37) de Araujo, R. E.; de Oliveira, M. A. S.; Souza, W. S.; de Oliveira, G. M. F.; de Santana, D. P. Self-Referencing Method for Relative Color Intensity Analysis Using Mobile-Phone. *Opt. Photonics J.* **2018**, *08* (07), 264–275.
<https://doi.org/10.4236/opj.2018.87022>.
- (38) de Lima, A. R. F.; de Melo, E. F.; de Melo, C. P.; Alves, K. G. B. Multifunctional Polyaniline Hybrid Nanofiber with YVO₄ (Er2%;Yb8%). *J. Mol. Liq.* **2018**, *271*, 970–975.
<https://doi.org/https://doi.org/10.1016/j.molliq.2018.09.066>.
- (39) de Senna, A. M.; Vieira, M. M. F.; Machado-de-Sena, R. M.; Bertolin, A. O.; Núñez, S. C.; Ribeiro, M. S. Photodynamic Inactivation of *Candida* Ssp. on Denture Stomatitis. A Clinical Trial Involving Palatal Mucosa and Prosthesis Disinfection. *Photodiagnosis Photodyn. Ther.* **2018**, *22*, 212–216. <https://doi.org/https://doi.org/10.1016/j.pdpdt.2018.04.008>.
- (40) de Vicente, F. S.; Freddi, P.; Otuka, A. J. G.; Mendonça, C. R.; Brito, H. F.; Nunes, L. A. O.; Vollet, D. R.; Donatti, D. A. Photoluminescence Tuning and Energy Transfer Process from Tb³⁺ to Eu³⁺ in GPTMS/TEOS–Derived Organic/Silica Hybrid Films. *J. Lumin.* **2018**, *197*, 370–375. <https://doi.org/https://doi.org/10.1016/j.jlumin.2017.12.048>.
- (41) Deren, P.; Mahiou, R.; Pazik, R.; Lemanski, K.; Strek, W.; Boutinaud, P. *Upconversion Emission in CaTiO₃:Er³⁺ Nanocrystals*; 2008; Vol. 128. <https://doi.org/10.1016/j.jlumin.2007.11.057>.
- (42) Didier, T. C.; Dillion, I.; Cavalcanti, L.; Cristina, C.; Oliveira, B. De; Program, R. Importance of the Dentist in the Multiprofessional Team in the Hospital Environment. **2018**, 1–5.
- (43) dos Reis, G. B.; Rodriguez, R. D. F.; dos Santos, C. I. L.; Gontijo, L. A. P.; Schiavon, M. A.; De Boni, L.; Mendonca, C. R.; Vivas, M. G. Femtosecond Two-Photon Absorption Spectroscopy of Copper Indium Sulfide Quantum Dots: A Structure-Optical Properties Relationship. *Opt. Mater. (Amst)*. **2018**, *86*, 455–459.
<https://doi.org/https://doi.org/10.1016/j.optmat.2018.10.023>.

- (44) dos Santos Courrol, D.; Regina Borges Lopes, C.; da Silva Cordeiro, T.; Regina Franzolin, M.; Dias Vieira Junior, N.; Elgul Samad, R.; Coronato Courrol, L. Optical Properties and Antimicrobial Effects of Silver Nanoparticles Synthesized by Femtosecond Laser Photoreduction. *Opt. Laser Technol.* **2018**, *103*, 233–238. <https://doi.org/https://doi.org/10.1016/j.optlastec.2018.01.044>.
- (45) dos Santos, M. R.; Alcaraz-Espinoza, J. J.; da Costa, M. M.; de Oliveira, H. P. Usnic Acid-Loaded Polyaniline/Polyurethane Foam Wound Dressing: Preparation and Bactericidal Activity. *Mater. Sci. Eng. C* **2018**, *89*, 33–40. <https://doi.org/https://doi.org/10.1016/j.msec.2018.03.019>.
- (46) Farooq, S.; de Araujo, R. *Engineering a Localized Surface Plasmon Resonance Platform for Molecular Biosensing*; 2018; Vol. 08. <https://doi.org/10.4236/ojapps.2018.83010>.
- (47) Farooq, S.; Dias Nunes, F.; de Araujo, R. E. Optical Properties of Silver Nanoplates and Perspectives for Biomedical Applications. *Photonics Nanostructures - Fundam. Appl.* **2018**, *31*, 160–167. <https://doi.org/https://doi.org/10.1016/j.photonics.2018.07.001>.
- (48) Farooq, S.; Neves, W. W.; Pandoli, O.; Rosso, T. Del; Lima, L. M. de; Dutra, R. F.; Araujo, R. E. de. Engineering a Plasmonic Sensing Platform for Candida Albicans Antigen Identification. *J. Nanophotonics* **2018**, *12* (3), 1–11.
- (49) Fernandes, L. O.; Mota, C. C. B. de O.; Oliveira, H. O.; Neves, J. K.; Santiago, L. M.; Gomes, A. S. L. Optical Coherence Tomography Follow-up of Patients Treated from Periodontal Disease. *J. Biophotonics* **2019**, *12* (2), e201800209. <https://doi.org/10.1002/jbio.201800209>.
- (50) Fonseca, R. D.; Vivas, M. G.; Silva, D. L.; Eucat, G.; Bretonnière, Y.; Andraud, C.; De Boni, L.; Mendonça, C. R. First-Order Hyperpolarizability of Triphenylamine Derivatives Containing Cyanopyridine: Molecular Branching Effect. *J. Phys. Chem. C* **2018**, *122* (3), 1770–1778. <https://doi.org/10.1021/acs.jpcc.7b05829>.
- (51) Freire, N. B.; Pires, L. C. S. R.; Oliveira, H. P.; Costa, M. M. Antimicrobial and Antibiofilm Activity of Silver Nanoparticles against Aeromonas Spp. Isolated from Aquatic Organisms. *Pesqui. Vet. Bras.* **2018**, *38* (2), 244–249. <https://doi.org/10.1590/1678-5150-PVB-4805>.
- (52) Frias, A. R.; Pecoraro, E.; Correia, S. F. H.; Minas, L. M. G.; Bastos, A. R.; García-Revilla, S.; Balda, R.; Ribeiro, S. J. L.; André, P. S.; Carlos, L. D.; et al. Sustainable Luminescent Solar Concentrators Based on Organic–Inorganic Hybrids Modified with Chlorophyll. *J. Mater. Chem. A* **2018**, *6* (18), 8712–8723. <https://doi.org/10.1039/C8TA01712C>.
- (53) Garcia, J. A. M.; Bontempo, L.; Gomez-Malagon, L. A.; Kassab, L. R. P. Efficiency Boost in Si-Based Solar Cells Using Tellurite Glass Cover

Layer Doped with Eu³⁺ and Silver Nanoparticles. *Opt. Mater. (Amst)*. **2019**, 88, 155–160.
<https://doi.org/https://doi.org/10.1016/j.optmat.2018.11.028>.

- (54) Garofalo, S. A.; Sakae, L. O.; Machado, A. C.; Cunha, S. R.; Zezell, D. M.; Scaramucci, T.; Aranha, A. C. In Vitro Effect of Innovative Desensitizing Agents on Dentin Tubule Occlusion and Erosive Wear. *Oper. Dent.* **2018**. <https://doi.org/10.2341/17-284-L>.
- (55) Gomes, M.; Brandão-Silva, A.; F.M. Avila, J.; Alencar, M.; Rodrigues Jr, J.; S. Macedo, Z. *Particle Size Effect on Structural and Optical Properties of Y₂O₃:Nd³⁺ Nanoparticles Prepared by Coconut Water-Assisted Sol-Gel Route*; 2018; Vol. 200.
<https://doi.org/10.1016/j.jlumin.2018.04.004>.
- (56) Gonçalves, E. S.; Fonseca, R. D.; De Boni, L.; Figueiredo Neto, A. M. Tuning Hyper-Rayleigh Scattering Amplitude on Magnetic Colloids by Means of an External Magnetic Field. *J. Opt. Soc. Am. B* **2018**, 35 (11), 2681–2689. <https://doi.org/10.1364/JOSAB.35.002681>.
- (57) Gorza, F. D. S.; Pedro, G. C.; da Silva, R. J.; Medina-Llamas, J. C.; Alcaraz-Espinoza, J. J.; Chávez-Guajardo, A. E.; de Melo, C. P. Electrospun Polystyrene-(Emeraldine Base) Mats as High-Performance Materials for Dye Removal from Aqueous Media. *J. Taiwan Inst. Chem. Eng.* **2018**, 82, 300–311.
<https://doi.org/https://doi.org/10.1016/j.jtice.2017.10.034>.
- (58) Hansch, C.; Leo, A.; Taft, R. W. A Survey of Hammett Substituent Constants and Resonance and Field Parameters. *Chem. Rev.* **1991**, 91 (2), 165–195. <https://doi.org/10.1021/cr00002a004>.
- (59) Henrique, F. R.; Brito de Almeida, G. F.; Martins, R. J.; Rosa, R. G. T.; Siqueira, J. de P.; Barbosa de Andrade, M.; Mendonça, C. R. Nonlinear Characterization of Fs-Laser Written Gorilla Glass Waveguides. *Opt. Mater. Express* **2018**, 8 (8), 2222–2228.
<https://doi.org/10.1364/OME.8.002222>.
- (60) Ichikawa, R. U.; Linhares, H. S. M. D.; Peral, I.; Baldochi, S. L.; Ranieri, I. M.; Turrillas, X.; Martinez, L. G. Evidence for a Core-shell Configuration in Tb-Doped KY₃F₁₀ Nanoparticles Using Synchrotron x-Ray Line Profile and Pair Distribution Function Analyses. *Mater. Res. Express* **2018**, 5 (1), 15006. <https://doi.org/10.1088/2053-1591/aaa0bc>.
- (61) Jiménez-Villar, E.; da Silva, I. F.; Mestre, V.; Wetter, N. U.; Lopez, C.; de Oliveira, P. C.; Faustino, W. M.; de Sá, G. F. Random Lasing at Localization Transition in a Colloidal Suspension (TiO₂@Silica). *ACS Omega* **2017**, 2 (6), 2415–2421.
<https://doi.org/10.1021/acsomega.7b00086>.

- (62) Jimenez-Villar, E.; Xavier, M. C. S.; Wetter, N. U.; Mestre, V.; Martins, W. S.; Basso, G. F.; Ermakov, V. A.; Marques, F. C.; de Sá, G. F. Anomalous Transport of Light at the Phase Transition to Localization: Strong Dependence with Incident Angle. *Photonics Res.* **2018**, *6* (10), 929–942. <https://doi.org/10.1364/PRJ.6.000929>.
- (63) João-Souza, S. H.; Machado, A. C.; Lopes, R. M.; Zezell, D. M.; Scaramucci, T.; Aranha, A. C. C. Effectiveness and Acid/Tooth Brushing Resistance of in-Office Desensitizing Treatments—A Hydraulic Conductance Study. *Arch. Oral Biol.* **2018**, *96*, 130–136. <https://doi.org/https://doi.org/10.1016/j.archoralbio.2018.09.004>.
- (64) Jóias, R. P.; Moretti, K. P.; Ana, P. A.; De Castro, R. A.; Jóias, R. M. Comparison between Open and Closed-Tray Impression Techniques on the Implant Transfer Accuracy. *Brazilian Dent. Sci.* **2018**, *21* (3), 320. <https://doi.org/10.14295/bds.2018.v21i3.1568>.
- (65) Lages, E.; Cardoso, W.; Almeida, G. F. B.; Siman, L.; Mesquita, O.; Mendonça, C. R.; Agero, U.; Pádua, S. Measurement of the Refractive Index Profile of Waveguides Using Defocusing Microscopy. *Appl. Opt.* **2018**, *57* (29), 8699–8704. <https://doi.org/10.1364/AO.57.008699>.
- (66) Lemes, S. R.; Júnior, L. A.; da Silva Manoel, D.; de Sousa, M. A. M.; Fonseca, R. D.; Lima, R. S.; Noda-Perez, C.; de Melo Reis, P. R.; Cardoso, C. G.; de Paula Silveira-Lacerda, E.; et al. Optical Properties and Antiangiogenic Activity of a Chalcone Derivate. *Spectrochim. Acta Part A Mol. Biomol. Spectrosc.* **2018**, *204*, 685–695. <https://doi.org/https://doi.org/10.1016/j.saa.2018.06.099>.
- (67) Lima, R. M. A. P.; Alcaraz-Espinoza, J. J.; da Silva, F. A. G.; de Oliveira, H. P. Multifunctional Wearable Electronic Textiles Using Cotton Fibers with Polypyrrole and Carbon Nanotubes. *ACS Appl. Mater. Interfaces* **2018**, *10* (16), 13783–13795. <https://doi.org/10.1021/acsami.8b04695>.
- (68) Lima, S. R. De; Pereira, G. J.; Messias, D. N.; Andrade, A. A.; Oliveira, E.; Lodeiro, C.; Zilio, S. C.; Pilla, V. Fluorescence Quantum Yield Determination of Molecules in Liquids by Thermally Driven Conical Diffraction. *J. Lumin.* **2018**, *197*, 175–179. <https://doi.org/https://doi.org/10.1016/j.jlumin.2018.01.027>.
- (69) Machado, R. T. A.; Gutierrez, J.; Tercjak, A.; Trovatti, E.; Uahib, F. G. M.; Moreno, G. de P.; Nascimento, A. P.; Berreta, A. A.; Ribeiro, S. J. L.; Barud, H. S. Komagataeibacter Rhaeticus as an Alternative Bacteria for Cellulose Production. *Carbohydr. Polym.* **2016**, *152*, 841–849. <https://doi.org/https://doi.org/10.1016/j.carbpol.2016.06.049>.
- (70) Maciel, B. G.; da Silva, R. J.; Chávez-Guajardo, A. E.; Medina-Llamas, J. C.; Alcaraz-Espinoza, J. J.; de Melo, C. P. Magnetic Extraction and Purification of DNA from Whole Human Blood Using a γ -Fe₂O₃@Chitosan@Polyaniline Hybrid Nanocomposite. *Carbohydr.*

Polym. **2018**, *197*, 100–108.

<https://doi.org/https://doi.org/10.1016/j.carbpol.2018.05.034>.

- (71) Maia, L. J. Q.; Faria Filho, F. M.; Gonçalves, R. R.; Ribeiro, S. J. L. Luminescent Eu³⁺ Doped Al₆Ge₂O₁₃ Crystalline Compounds Obtained by the Sol Gel Process for Photonics. *Opt. Mater. (Amst)*. **2018**, *75*, 297–303. <https://doi.org/https://doi.org/10.1016/j.optmat.2017.10.038>.
- (72) Manzani, D.; Franco, D.; Afonso, C.; Sant'Ana, A. C.; Nalin, M.; Ribeiro, S. A New SERS Substrate Based on Niobium Lead-Pyrophosphate Glasses Obtained by Ag⁺/Na⁺ Ion Exchange; 2018; Vol. 277. <https://doi.org/10.1016/j.snb.2018.08.113>.
- (73) Manzani, D.; Nigoghossian, K.; Iastremskiy, M. F.; Coelho, G. R.; dos Santos, M. V.; Maia, L. J. Q.; Ribeiro, S. J. L.; Segatelli, M. G. Luminescent Silicone Materials Containing Eu³⁺-Complexes for Photonic Applications. *J. Mater. Chem. C* **2018**, *6* (30), 8258–8265. <https://doi.org/10.1039/C8TC01798K>.
- (74) Martins, M. M.; Kassab, L. R. P.; da Silva, D. M.; de Araújo, C. B. Tm³⁺ Doped Bi₂O₃-GeO₂ Glasses with Silver Nanoparticles for Optical Amplifiers in the Short-Wave-Infrared-Region. *J. Alloys Compd.* **2019**, *772*, 58–63. <https://doi.org/https://doi.org/10.1016/j.jallcom.2018.08.146>.
- (75) Martins, R. J.; Siqueira, J. P.; Mangano Clavero, I.; Margenfeld, C.; Fündling, S.; Vogt, A.; Waag, A.; Voss, T.; Mendonca, C. R. Carrier Dynamics and Optical Nonlinearities in a GaN Epitaxial Thin Film under Three-Photon Absorption. *J. Appl. Phys.* **2018**, *123* (24), 243101. <https://doi.org/10.1063/1.5027395>.
- (76) Martins, V. M.; Andrade, A. A.; Pilla, V.; Messias, D. N. Determination of the Energy Transfer Efficiency between CdSe/ZnS Quantum Dots with Two Different Sizes through a Photothermal Approach. *J. Lumin.* **2018**, *198*, 198–202. <https://doi.org/https://doi.org/10.1016/j.jlumin.2018.02.033>.
- (77) Mendoza-Galván, A.; Muñoz-Pineda, E.; Ribeiro, S. J. L.; Santos, M. V.; Järrendahl, K.; Arwin, H. Mueller Matrix Spectroscopic Ellipsometry Study of Chiral Nanocrystalline Cellulose Films. *J. Opt.* **2018**, *20* (2), 24001. <https://doi.org/10.1088/2040-8986/aa9e7d>.
- (78) Monteiro, A. S.; Domenegueti, R. R.; Wong Chi Man, M.; Barud, H. S.; Teixeira-Neto, E.; Ribeiro, S. J. L. Bacterial Cellulose–SiO₂@TiO₂ Organic–Inorganic Hybrid Membranes with Self-Cleaning Properties. *J. Sol-Gel Sci. Technol.* **2019**, *89* (1), 2–11. <https://doi.org/10.1007/s10971-018-4744-5>.
- (79) Moreira, L.; Falci, R.; Darabian, H.; Anjos, V.; Bell, M. J.; Kassab, L.; D S Bordon, C.; Doualan, J.; Camy, P.; Moncorgé, R. The Effect of Excitation Intensity Variation and Silver Nanoparticle Codoping on Nonlinear Optical Properties of Mixed Tellurite and Zinc Oxide Glass

Doped with Nd²⁺ O₃ Studied through Ultrafast Z-Scan Spectroscopy, 2018; Vol. 79. <https://doi.org/10.1016/j.optmat.2018.02.024>.

- (80) Moura, I. M. R.; Cabral Filho, P. E.; Seabra, M. A. B. L.; Pereira, G.; Pereira, G. A. L.; Fontes, A.; Santos, B. S. Highly Fluorescent Positively Charged ZnSe Quantum Dots for Bioimaging. *J. Lumin.* **2018**, *201*, 284–289. <https://doi.org/https://doi.org/10.1016/j.jlumin.2018.04.053>.
- (81) Oliveira, W. F.; Silva, G. M. M.; Cabral Filho, P. E.; Fontes, A.; Oliveira, M. D. L.; Andrade, C. A. S.; Silva, M. V; Coelho, L. C. B. B.; Machado, G.; Correia, M. T. S. Titanium Dioxide Nanotubes Functionalized with Cratylia Mollis Seed Lectin, Cramoll, Enhanced Osteoblast-like Cells Adhesion and Proliferation. *Mater. Sci. Eng. C* **2018**, *90*, 664–672. <https://doi.org/https://doi.org/10.1016/j.msec.2018.04.089>.
- (82) Onofre-Cordeiro, N. A.; Silva, Y. E. O.; Solidônio, E. G.; de Sena, K. X. F. R.; Silva, W. E.; Santos, B. S.; Aquino, K. A. S.; Lima, C. S. A.; Yara, R. Agarose-Silver Particles Films: Effect of Calcium Ascorbate in Nanoparticles Synthesis and Film Properties. *Int. J. Biol. Macromol.* **2018**, *119*, 701–707. <https://doi.org/https://doi.org/10.1016/j.ijbiomac.2018.07.115>.
- (83) Paula, K. T.; Gaál, G.; Almeida, G. F. B.; Andrade, M. B.; Facure, M. H. M.; Correa, D. S.; Riul, A.; Rodrigues, V.; Mendonça, C. R. Femtosecond Laser Micromachining of Polylactic Acid/Graphene Composites for Designing Interdigitated Microelectrodes for Sensor Applications. *Opt. Laser Technol.* **2018**, *101*, 74–79. <https://doi.org/https://doi.org/10.1016/j.optlastec.2017.11.006>.
- (84) Pedro, G. C.; Gorza, F. D. S.; da Silva, R. J.; do Nascimento, K. T. O.; Medina-Llamas, J. C.; Chávez-Guajardo, A. E.; Alcaraz-Espinoza, J. J.; de Melo, C. P. A Novel Nucleic Acid Fluorescent Sensing Platform Based on Nanostructured Films of Intrinsically Conducting Polymers. *Anal. Chim. Acta* **2019**, *1047*, 214–224. <https://doi.org/https://doi.org/10.1016/j.aca.2018.10.010>.
- (85) Pereira, D. L.; Freitas, A. Z.; Bachmann, L.; Benetti, C.; Zzell, D. M.; Ana, P. A. Variation on Molecular Structure, Crystallinity, and Optical Properties of Dentin Due to Nd:YAG Laser and Fluoride Aimed at Tooth Erosion Prevention. *Int. J. Mol. Sci.* **2018**, *19* (2), 433. <https://doi.org/10.3390/ijms19020433>.
- (86) Pereira, J. C. B.; Filho, C. A. A.; de Jesus, V. S.; de Sá, J. B.; Silva, C. A. L.; Jovino, C. N.; Fontes, A.; Santos, B. S. Short Chain Polyphosphates as a Strategic Colloidal Source of Phosphate for Parenteral Admixtures. *Colloids Surfaces A Physicochem. Eng. Asp.* **2018**, *558*, 242–249. <https://doi.org/https://doi.org/10.1016/j.colsurfa.2018.08.058>.
- (87) Peres, J. C. G.; Herrera, C. da C.; Baldochi, S. L.; de Rossi, W.; dos Santos Vianna Jr., A. Analysis of a Microreactor for Synthesizing

Nanocrystals by Computational Fluid Dynamics. *Can. J. Chem. Eng.* **2019**, *97* (2), 594–603. <https://doi.org/10.1002/cjce.23356>.

- (88) Pilla, V.; Gonçalves, A. C.; Dos Santos, A. A.; Lodeiro, C. Lifetime and Fluorescence Quantum Yield of Two Fluorescein-Amino Acid-Based Compounds in Different Organic Solvents and Gold Colloidal Suspensions. *Chemosensors* **2018**, *6* (3). <https://doi.org/10.3390/chemosensors6030026>.
- (89) Pires, I. C.; Freire, N. B.; Fernandes, A. W. C.; Souza, R. F. S.; Silva, F. A. G.; Oliveira, H. P.; Costa, M. M. Influência Do Polipirrol e Dos Níveis de Salinidade Na Formação de Biofilme Em *Aeromonas Spp.* *Pesqui. Vet. Bras.* **2018**, *38* (8), 1528–1536. <https://doi.org/10.1590/1678-5150-PVB-5374>.
- (90) Porsani, N. K.; Trombini, V.; Ana, P. A.; Setz, L. F. G. Avaliação do Reolúctividade Superiorgica Da Hidroxiapatita. *Cerâmica* **2018**, *64*, 325–330.
- (91) Pugina, R. S.; da Rocha, E. G.; Ribeiro, S. J. L.; Caiut, J. M. A. Study of the Energy Transfer Process in Rare Earth-Doped Silk Fibroin for Future Application in Luminescent Compounds. *J. Lumin.* **2019**, *205*, 423–428. <https://doi.org/https://doi.org/10.1016/j.jlumin.2018.09.050>.
- (92) Rakov, N.; Guimarães, R. B.; Maciel, G. S. Thermometric Analysis of the Near-Infrared Emission from Er³⁺ in Yttrium Silicate Powders Containing Mg²⁺. *J. Alloys Compd.* **2018**, *735*, 1629–1636. <https://doi.org/https://doi.org/10.1016/j.jallcom.2017.11.292>.
- (93) Rakov, N.; Maciel, G. *Exploring the $4I_{13/2} \rightarrow 4I_{15/2}$ Radiative Transition from Er³⁺ in Y₂O₃ for Temperature Sensing*; 2018; Vol. 199. <https://doi.org/10.1016/j.jlumin.2018.03.020>.
- (94) Reis, D. H. S.; Pecoraro, E.; Cassanjes, F. C.; Poirier, G. Y.; Gonçalves, R. R.; Esbenshade, J.; Ribeiro, S. J. L.; Schiavon, M. A.; Ferrari, J. L. Multifunctional Possible Application of the Er³⁺/Yb³⁺-Coped Al₂O₃ Prepared by Recyclable Precursor (Aluminum Can) and Also by Sol-Gel Process. *Opt. Mater. (Amst)*. **2018**, *84*, 504–513. <https://doi.org/https://doi.org/10.1016/j.optmat.2018.07.017>.
- (95) Ribeiro, M. S.; de Melo, L. S. A.; Farooq, S.; Baptista, A.; Kato, I. T.; Núñez, S. C.; de Araujo, R. E. Photodynamic Inactivation Assisted by Localized Surface Plasmon Resonance of Silver Nanoparticles: In Vitro Evaluation on *Escherichia Coli* and *Streptococcus Mutans*. *Photodiagnosis Photodyn. Ther.* **2018**, *22*, 191–196. <https://doi.org/https://doi.org/10.1016/j.pdpdt.2018.04.007>.
- (96) Ribeiro, M. S.; Gargano, R. G.; Sabino, C. P.; dos Anjos, C.; Pogliani, F. C.; Sellera, F. P. Clinical Challenges of Antimicrobial Photodynamic

- Therapy for Bovine Mastitis. *Photodiagnosis Photodyn. Ther.* **2018**, *21*, 327. <https://doi.org/https://doi.org/10.1016/j.pdpdt.2018.01.007>.
- (97) Ribeiro, S.; Lima, L.; Moraes, M.; Gonçalves, A.-M.; Oliveira Jr., O.; Paulovich, F. Electrical Immunosensor Made with Antigenic Peptide NS5A-1 Immobilized onto Silk Fibroin for Diagnosing Hepatitis C. *J. Braz. Chem. Soc.* **2018**, *29* (10), 2054–2059. <https://doi.org/10.21577/0103-5053.20180080>.
- (98) Santos, M. V.; Pecoraro, É.; Santagneli, S. H.; Moura, A. L.; Cavicchioli, M.; Jerez, V.; Rocha, L. A.; de Oliveira, L. F. C.; Gomes, A. S. L.; de Araújo, C. B.; et al. Silk Fibroin as a Biotemplate for Hierarchical Porous Silica Monoliths for Random Laser Applications. *J. Mater. Chem. C* **2018**, *6* (11), 2712–2723. <https://doi.org/10.1039/C7TC03560H>.
- (99) Santos, S. N. C.; Almeida, J. M. P.; Almeida, G. F. B.; Mastelaro, V. R.; Mendonca, C. R. Fabrication of Waveguides by Fs-Laser Micromachining in Dy³⁺/Eu³⁺ Doped Barium Borate Glass with Broad Emission in the Visible Spectrum. *Opt. Commun.* **2018**, *427*, 33–36. <https://doi.org/https://doi.org/10.1016/j.optcom.2018.06.026>.
- (100) Saska, S.; Pigossi, S. C.; Oliveira, G. J. P. L.; Teixeira, L. N.; Capela, M. V.; Gonçalves, A.; de Oliveira, P. T.; Messaddeq, Y.; Ribeiro, S. J. L.; Gaspar, A. M. M.; et al. Biopolymer-Based Membranes Associated with Osteogenic Growth Peptide for Guided Bone Regeneration. *Biomed. Mater.* **2018**, *13* (3), 35009. <https://doi.org/10.1088/1748-605x/aaaa2d>.
- (101) Saska, S.; Pires, L. C.; Cominotte, M. A.; Mendes, L. S.; de Oliveira, M. F.; Maia, I. A.; da Silva, J. V. L.; Ribeiro, S. J. L.; Cirelli, J. A. Three-Dimensional Printing and in Vitro Evaluation of Poly(3-Hydroxybutyrate) Scaffolds Functionalized with Osteogenic Growth Peptide for Tissue Engineering. *Mater. Sci. Eng. C* **2018**, *89*, 265–273. <https://doi.org/https://doi.org/10.1016/j.msec.2018.04.016>.
- (102) Sciuti, L. F.; Cocca, L. H. Z.; Caires, A. R. L.; Gonçalves, P. J.; de Boni, L. Picosecond Dynamic of Aqueous Sodium-Copper Chlorophyllin Solution: An Excited State Absorption Study. *Chem. Phys. Lett.* **2018**, *706*, 652–657. <https://doi.org/https://doi.org/10.1016/j.cplett.2018.07.016>.
- (103) Sellera, F. P.; Gargano, R. G.; dos Anjos, C.; da Silva Baptista, M.; Ribeiro, M. S.; Poglioni, F. C. Methylene Blue-Mediated Antimicrobial Photodynamic Therapy: A Novel Strategy for Digital Dermatitis-Associated Sole Ulcer in a Cow – A Case Report. *Photodiagnosis Photodyn. Ther.* **2018**, *24*, 121–122. <https://doi.org/https://doi.org/10.1016/j.pdpdt.2018.09.004>.
- (104) Sicchieri, L. B.; Da Silva, M. N.; Samad, R. E.; Courrol, L. C. Can Measurement of the Fluorescence Lifetime of Extracted Blood PPIX Predict Atherosclerosis? *J. Lumin.* **2018**, *195*, 176–180. <https://doi.org/https://doi.org/10.1016/j.jlumin.2017.11.014>.

- (105) Silva, A. V. C.; Mota, C. C. B. O.; Teixeira, J. A.; Lins, E. C.; Gomes, A. S. L.; Rosenblatt, A. Potential of Nano-Silver Fluoride for Tooth Enamel Caries Prevention. In *Proc.SPIE*; 2018; Vol. 10507.
- (106) Silva, D. B. R. dos S.; Júnior, L. P. C.; de Aguiar, M. F.; de Melo, C. P.; Alves, K. G. B. Preparation and Characterization of Nanofibers of Polyvinyl Alcohol/Polyaniline-Montmorillonite Clay. *J. Mol. Liq.* **2018**, *272*, 1070–1076. <https://doi.org/https://doi.org/10.1016/j.molliq.2018.10.087>.
- (107) Silva, I. D. A.; Donoso, J. P.; Magon, C. J.; Tambelli, C. E.; Santagneli, S. H.; Ribeiro, S. J. L.; Silva, M. A. P.; Chiesa, M.; Rodrigues, A. C. M. Magnetic Resonance and Conductivity Study of Lead–Cadmium Fluorosilicate Glasses and Glass-Ceramics. *J. Phys. Chem. C* **2018**, *122* (11), 6288–6297. <https://doi.org/10.1021/acs.jpcc.7b11517>.
- (108) Silva, J., Maturi, F., Barud, H., et al. New Organic-Inorganic Hybrid Composites Based on Cellulose Nanofibers and Modified Laponite. *Advanced Optical Technologies*. 2018, p 327. <https://doi.org/10.1515/aot-2018-0030>.
- (109) Simões, M. B.; Ullah, S.; Hazra, C.; Man, M. W. C.; Ribeiro, S. J. L.; Rodrigues-Filho, U. P. Eco-Friendly Polydimethylsiloxane-Based Self-Supporting Film Containing Europium-Polyoxometalate: A Flexible Luminescent Material for White Light Generation. *J. Lumin.* **2018**, *201*, 384–389. <https://doi.org/https://doi.org/10.1016/j.jlumin.2018.04.041>.
- (110) Strefezza, C.; Amaral, M. M.; Quinto, J.; Gouw-Soares, S. C.; Zamataro, C. B.; Zezell, D. M. Effect of 830 Nm Diode Laser Irradiation of Root Canal on Bond Strength of Metal and Fiber Post. *Photomed. Laser Surg.* **2018**, *36* (8), 439–444. <https://doi.org/10.1089/pho.2017.4378>.
- (111) Tomazio, N. B.; Sciuti, L. F.; de Almeida, G. F. B.; De Boni, L.; Mendonca, C. R. Solid-State Random Microlasers Fabricated via Femtosecond Laser Writing. *Sci. Rep.* **2018**, *8* (1), 13561. <https://doi.org/10.1038/s41598-018-31966-6>.
- (112) Tovmasyan, A.; Bueno-Janice, J. C.; Jaramillo, M. C.; Sampaio, R. S.; Rebouças, J. S.; Kyui, N.; Benov, L.; Deng, B.; Huang, T.-T.; Tome, M. E.; et al. Radiation-Mediated Tumor Growth Inhibition Is Significantly Enhanced with Redox-Active Compounds That Cycle with Ascorbate. *Antioxid. Redox Signal.* **2018**, *29* (13), 1196–1214. <https://doi.org/10.1089/ars.2017.7218>.
- (113) Ucoski, G. M.; Pinto, V. H. A.; DeFreitas-Silva, G.; Rebouças, J. S.; Marcos da Silva, R.; Mazzaro, I.; Nunes, F. S.; Nakagaki, S. Manganese Porphyrins Immobilized on Magnetic SBA-15 Mesoporous Silica as Selective and Efficient Catalysts for Cyclic and Linear Alkane Oxidation. *Microporous Mesoporous Mater.* **2018**, *265*, 84–97. <https://doi.org/https://doi.org/10.1016/j.micromeso.2018.02.003>.

- (114) Ullah, S.; Ferreira-Neto, E. P.; Hazra, C.; Parveen, R.; Rojas-Mantilla, H. D.; Calegario, M. L.; Serge-Correales, Y. E.; Rodrigues-Filho, U. P.; Ribeiro, S. J. L. Broad Spectrum Photocatalytic System Based on BiVO₄ and NaYbF₄:Tm³⁺ Upconversion Particles for Environmental Remediation under UV-Vis-NIR Illumination. *Appl. Catal. B Environ.* **2019**, *243*, 121–135. <https://doi.org/https://doi.org/10.1016/j.apcatb.2018.09.091>.
- (115) Vieira Costa e Silva, A., Teixeira, J., Mota, C., et al. In Vitro Morphological, Optical and Microbiological Evaluation of Nanosilver Fluoride in the Remineralization of Deciduous Teeth Enamel. *Nanotechnology Reviews*. 2018, p 509. <https://doi.org/10.1515/ntrev-2018-0083>.
- (116) Wetter, N. U.; Giehl, J. M.; Butzbach, F.; Anacleto, D.; Jiménez-Villar, E. Polydispersed Powders (Nd³⁺:YVO₄) for Ultra Efficient Random Lasers. *Part. Part. Syst. Charact.* **2018**, *35* (4), 1700335. <https://doi.org/10.1002/ppsc.201700335>.
- (117) Wetter, N. U.; Ramos de Miranda, A.; Pecoraro, É.; Lima Ribeiro, S. J.; Jimenez-Villar, E. Dynamic Random Lasing in Silica Aerogel Doped with Rhodamine 6G. *RSC Adv.* **2018**, *8* (52), 29678–29685. <https://doi.org/10.1039/C8RA04561E>.
- (118) Zampiva, R. Y. S.; Acauan, L. H.; Venturini, J.; Garcia, J. A. M.; da Silva, D. S.; Han, Z.; Kassab, L. R. P.; Wetter, N. U.; Agarwal, A.; Alves, A. K.; et al. Tunable Green/Red Luminescence by Infrared Upconversion in Biocompatible Forsterite Nanoparticles with High Erbium Doping Uptake. *Opt. Mater. (Amst)*. **2018**, *76*, 407–415. <https://doi.org/https://doi.org/10.1016/j.optmat.2018.01.004>.