

# Alisson M Rodrigues

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

989  
citations

430874

18  
h-index

501196

28  
g-index

64  
all docs

64  
docs citations

64  
times ranked

693  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Synthesis of $\text{MoO}_3$ by pilot-scale combustion reaction and evaluation in biodiesel production from residual oil. <i>International Journal of Energy Research</i> , 2022, 46, 7775-7787.        | 4.5 | 5         |
| 2  | New sustainable mortar compositions containing perlite waste. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1403-1415.  | 4.1 | 3         |
| 3  | Hybrid magnetron sputtering of ceramic superlattices for application in a next generation of combustion engines. <i>Scientific Reports</i> , 2022, 12, 2342.   | 3.3 | 8         |
| 4  | Adsorption of Sodium Diclofenac in Functionalized Palygoskite Clays. <i>Materials</i> , 2022, 15, 2708.  | 2.9 | 3         |
| 5  | Firing Parameters Effect on the Physical and Mechanical Properties of Scheelite Tailings-Containing Ceramic Masses. <i>Sustainability</i> , 2022, 14, 333.   | 3.2 | 2         |
| 6  | Annealing effects on the glass transition: Experiment and theory. <i>Journal of Non-Crystalline Solids</i> , 2022, 590, 121669.  | 3.1 | 1         |
| 7  | Manufacturing and characterization of sustainable macroporous glass foams. <i>Ceramica</i> , 2022, 68, 242-249.  | 0.8 | 1         |
| 8  | Role of Nitrogen and Yttrium Contents in Manufacturing (Cr, Y) $\text{N}_x$ Film Nanostructures. <i>Nanomaterials</i> , 2022, 12, 2410.  | 4.1 | 2         |
| 9  | Tailoring the Hybrid Magnetron Sputtering Process (HiPIMS and dcMS) to Manufacture Ceramic Multilayers: Powering Conditions, Target Materials, and Base Layers. <i>Nanomaterials</i> , 2022, 12, 2465. | 4.1 | 3         |
| 10 | Freeze-casting applied to ceramic materials: a short review of the influence of processing parameters. <i>Ceramica</i> , 2021, 67, 1-13.   | 0.8 | 8         |
| 11 | The Potential for Natural Stones from Northeastern Brazil to Be Used in Civil Construction. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 440.  | 2.0 | 12        |
| 12 | A new eco-friendly mass formulation based on industrial mining residues for the manufacture of ceramic tiles. <i>Ceramics International</i> , 2021, 47, 11340-11348.                                   | 4.8 | 18        |
| 13 | Adsorption Behavior of Acid-Treated Brazilian Palygorskite for Cationic and Anionic Dyes Removal from the Water. <i>Sustainability</i> , 2021, 13, 3954.   | 3.2 | 12        |
| 14 | Durability Behavior of Mortars Containing Perlite Tailings: Alkali-Silicate Reaction Viewpoint. <i>Sustainability</i> , 2021, 13, 9203.  | 3.2 | 4         |
| 15 | On Improving Wear Resistance of Cr-Al-N Coatings Using Dynamic Glancing Angle DC Magnetron Sputtering. <i>Nanomaterials</i> , 2021, 11, 2187.  | 4.1 | 6         |
| 16 | $\text{Al}_2\text{O}_3$ Preforms Infiltrated with Poly(methyl methacrylate) for Dental Prosthesis Manufacturing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7583.                               | 2.5 | 3         |
| 17 | Adsorption Behavior of Crystal Violet and Congo Red Dyes on Heat-Treated Brazilian Palygorskite: Kinetic, Isothermal and Thermodynamic Studies. <i>Materials</i> , 2021, 14, 5688.                     | 2.9 | 18        |
| 18 | Use of nanostructured and modified $\text{TiO}_2$ as a gas sensing agent. <i>Ceramica</i> , 2021, 67, 316-326.   | 0.8 | 4         |

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|----|---|-----|-----------|
| 19 | High porous ceramics with isometric pores by a novel saponification/gelation/freeze-casting combined route. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7111-7118.   | 5.7 | 3         |
| 20 | Development of Eco-Friendly Mortars Produced with Kaolin Processing Waste: Durability Behavior Viewpoint. <i>Sustainability</i> , 2021, 13, 11395.  | 3.2 | 5         |
| 21 | Durability of Sustainable Ceramics Produced by Alkaline Activation of Clay Brick Residue. <i>Sustainability</i> , 2021, 13, 10931.  | 3.2 | 5         |
| 22 | Resistance to the alkali-aggregate reaction of sustainable mortars produced with scheelite tailings in replacing natural sand aggregates. <i>Research, Society and Development</i> , 2021, 10, e567101422209.   | 0.1 | 1         |
| 23 | New Clayey Deposit and Their Potential as Raw Material for Red or Structured Ceramics: Technological Characterization. <i>Materials</i> , 2021, 14, 7672.   | 2.9 | 1         |
| 24 | Approaching the melting temperature: There regimes in the non-isothermal crystallization of Ce <sub>68</sub> Al <sub>10</sub> Cu <sub>20</sub> Co <sub>2</sub> bulk metallic glass revealed by nanocalorimetry. <i>Intermetallics</i> , 2020, 116, 106653.  | 3.9 | 8         |
| 25 | Development and characterization of a babassu nut oil-based moisturizing cosmetic emulsion with a high sun protection factor. <i>RSC Advances</i> , 2020, 10, 26268-26276.  | 3.6 | 16        |
| 26 | Development of Scheelite Tailings-Based Ceramic Formulations with the Potential to Manufacture Porcelain Tiles, Semi-Stoneware and Stoneware. <i>Materials</i> , 2020, 13, 5122.  | 2.9 | 18        |
| 27 | Sustainable Ceramic Materials Manufactured from Ceramic Formulations Containing Quartzite and Scheelite Tailings. <i>Sustainability</i> , 2020, 12, 9417.   | 3.2 | 21        |
| 28 | Microstructure and physico-mechanical properties of Al <sub>2</sub> O <sub>3</sub> -doped sustainable glass-ceramic foams. <i>Materials Chemistry and Physics</i> , 2020, 256, 123612.  | 4.0 | 21        |
| 29 | Adsorption of Anionic Dye on the Acid-Functionalized Bentonite. <i>Materials</i> , 2020, 13, 3600.  | 2.9 | 49        |
| 30 | Synthesis of the ZnO-Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> -Fe <sub>2</sub> O <sub>3</sub> magnetic catalyst in pilot-scale by combustion reaction and its application on the biodiesel production process from oil residual. <i>Arabian Journal of Chemistry</i> , 2020, 13, 7665-7679. | 4.9 | 18        |
| 31 | Nitrogen-Enriched Cr <sub>1-x</sub> Al <sub>x</sub> N Multilayer-Like Coatings Manufactured by Dynamic Glancing Angle Direct Current Magnetron Sputtering. <i>Materials</i> , 2020, 13, 3650.   | 2.9 | 5         |
| 32 | From Disposal to Reuse: Production of Sustainable Fatty Acid Alkyl Esters Derived from Residual Oil Using a Biphasic Magnetic Catalyst. <i>Sustainability</i> , 2020, 12, 10159.  | 3.2 | 9         |
| 33 | Tribological Investigations on Tool Surfaces for Temperature-Supported Forming of Magnesium AZ31 Sheets. <i>Materials</i> , 2020, 13, 2465.   | 2.9 | 5         |
| 34 | Improvements on sintering and thermal expansion of lithium aluminum silicate glass-ceramics. <i>Ceramics International</i> , 2020, 46, 17430-17436.   | 4.8 | 13        |
| 35 | Sustainable glass-ceramic foams manufactured from waste glass bottles and bentonite. <i>Ceramics International</i> , 2020, 46, 17957-17961.   | 4.8 | 45        |
| 36 | Effect of non-stoichiometry on the crystal nucleation and growth in oxide glasses. <i>Acta Materialia</i> , 2019, 180, 317-328.   | 7.9 | 15        |

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|----|--|-----|-----------|
| 37 | Synthesis of PbO-SiO <sub>2</sub> glass by CO <sub>2</sub> laser melting method. <i>Journal of Non-Crystalline Solids</i> , 2019, 522, 119572.   | 3.1 | 13        |
| 38 | The origin of the unusual DSC peaks of supercooled barium disilicate liquid. <i>CrystEngComm</i> , 2019, 21, 2768-2778.  | 2.6 | 27        |
| 39 | The influence of glycerol as an additive in Zinc-Manganese alloy coatings formed by electrodeposition. <i>Acta Scientiarum - Technology</i> , 2019, 41, 41103.   | 0.4 | 1         |
| 40 | On manufacturing multilayer-like nanostructures using misorientation gradients in PVD films. <i>Scientific Reports</i> , 2019, 9, 15898.   | 3.3 | 19        |
| 41 | Structural effects on glass stability and crystallization. <i>CrystEngComm</i> , 2018, 20, 2278-2283.  | 2.6 | 15        |
| 42 | Crystal growth and viscous flow in barium disilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2018, 479, 55-61.   | 3.1 | 29        |
| 43 | The diffusion coefficient controlling crystal growth in a silicate glass-former. <i>International Journal of Applied Glass Science</i> , 2018, 9, 373-382.   | 2.0 | 16        |
| 44 | Reinforcement of the mechanical properties in nitrile rubber by adding graphene oxide/silicon dioxide hybrid nanoparticles. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46091.                      | 2.6 | 27        |
| 45 | Softening dynamics of polymer blends and composites investigated by differential spectra of dynamic mechanical analysis. <i>Advances in Polymer Technology</i> , 2018, 37, 2504-2509.                          | 1.7 | 2         |
| 46 | A Raman investigation of the structural evolution of supercooled liquid barium disilicate during crystallization. <i>International Journal of Applied Glass Science</i> , 2018, 9, 510-517.                    | 2.0 | 22        |
| 47 | The effect of heterogeneous structure of glass-forming liquids on crystal nucleation. <i>Journal of Non-Crystalline Solids</i> , 2017, 462, 32-40.   | 3.1 | 41        |
| 48 | Crystallization, mechanical, and optical properties of transparent, nanocrystalline gahnite glass-ceramics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1963-1975.                             | 3.8 | 45        |
| 49 | Crystallization pathways and some properties of lithium disilicate oxynitride glasses. <i>Ceramics International</i> , 2017, 43, 12348-12356.  | 4.8 | 15        |
| 50 | Viscoelastic changes in chlorinated butyl rubber modified with graphene oxide. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 861-870.   | 2.4 | 11        |
| 51 | Sintering and crystallization of SrO-CaO-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glass-ceramics with different TiO <sub>2</sub> contents. <i>Journal of Non-Crystalline Solids</i> , 2017, 473, 33-40. | 3.1 | 29        |
| 52 | Macromolecular interactions and synergy in xanthan/HPAM aqueous solutions. <i>RSC Advances</i> , 2017, 7, 41630-41639.   | 3.6 | 13        |
| 53 | Influence of molecular interplay on the HPAM/UR rheological properties in an aqueous solution. <i>RSC Advances</i> , 2017, 7, 37055-37064.   | 3.6 | 7         |
| 54 | Elemental and cooperative diffusion in a liquid, supercooled liquid and glass resolved. <i>Journal of Chemical Physics</i> , 2017, 147, 014501.  | 3.0 | 20        |

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|----|--|-----|-----------|
| 55 | Crystal nucleation in glass-forming liquids: Variation of the size of the "structural units" with temperature. <i>Journal of Non-Crystalline Solids</i> , 2016, 447, 35-44.  | 3.1 | 60        |
| 56 | Structural and dynamic properties of vitreous and crystalline barium disilicate: molecular dynamics simulation and Raman scattering experiments. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 435301.             | 2.8 | 14        |
| 57 | The effect of elastic stresses on the thermodynamic barrier for crystal nucleation. <i>Journal of Non-Crystalline Solids</i> , 2016, 432, 325-333.   | 3.1 | 57        |
| 58 | Sol-gel synthesis, structure, sintering and properties of bioactive and inert nano-apatite-zirconia glass-ceramics. <i>Ceramics International</i> , 2015, 41, 11024-11045.   | 4.8 | 54        |
| 59 | Isothermal and non-isothermal crystallization of a fresnoite glass. <i>Journal of Non-Crystalline Solids</i> , 2013, 362, 114-119.   | 3.1 | 31        |
| 60 | Determination of crystallization kinetics parameters of a $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ (LAGP) glass by differential scanning calorimetry. <i>Materials Research</i> , 2013, 16, 811-816. | 1.3 | 33        |
| 61 | Effect of Simultaneous Nucleation and Crystal Growth on DSC Crystallization Peaks of Glasses. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2885-2890.  | 3.8 | 17        |
| 62 | Annealing Effects on the Glass Transition: Experiment and Theory. <i>SSRN Electronic Journal</i> , 0, , .  | 0.4 | 0         |
| 63 | Annealing Effects on the Glass Transition: Experiment and Theory. <i>SSRN Electronic Journal</i> , 0, , .  | 0.4 | 0         |