

Alisson M Rodrigues

List of Publications by Year in descending order

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papers

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430874

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64
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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Adsorption of Anionic Dye on the Acid-Functionalized Bentonite. <i>Materials</i> , 2020, 13, 3600.	2.9	49
5	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
6	Sustainable glass-ceramic foams manufactured from waste glass bottles and bentonite. <i>Ceramics International</i> , 2020, 46, 17957-17961.	4.8	45
7	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
8	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
9	Isothermal and non-isothermal crystallization of a fresnoite glass. <i>Journal of Non-Crystalline Solids</i> , 2013, 362, 114-119.	3.1	31
10	Sintering and crystallization of $\text{SrO-CaO-B}_2\text{O}_3\text{-SiO}_2$ glass-ceramics with different TiO_2 contents. <i>Journal of Non-Crystalline Solids</i> , 2017, 473, 33-40.	3.1	29
11	Crystal growth and viscous flow in barium disilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2018, 479, 55-61.	3.1	29
12	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
13	The origin of the unusual DSC peaks of supercooled barium disilicate liquid. <i>CrystEngComm</i> , 2019, 21, 2768-2778.	2.6	27
14	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
15	Sustainable Ceramic Materials Manufactured from Ceramic Formulations Containing Quartzite and Scheelite Tailings. <i>Sustainability</i> , 2020, 12, 9417.	3.2	21
16	Microstructure and physico-mechanical properties of Al_2O_3 -doped sustainable glass-ceramic foams. <i>Materials Chemistry and Physics</i> , 2020, 256, 123612.	4.0	21
17	Elemental and cooperative diffusion in a liquid, supercooled liquid and glass resolved. <i>Journal of Chemical Physics</i> , 2017, 147, 014501.	3.0	20
18	On manufacturing multilayer-like nanostructures using misorientation gradients in PVD films. <i>Scientific Reports</i> , 2019, 9, 15898.	3.3	19

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19	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
20	Synthesis of the ZnO-Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ -Fe ₂ O ₃ 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
21	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
22	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
23	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
24	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
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	Crystallization pathways and some properties of lithium disilicate oxynitride glasses. <i>Ceramics International</i> , 2017, 43, 12348-12356.	4.8	15
27	Structural effects on glass stability and crystallization. <i>CrystEngComm</i> , 2018, 20, 2278-2283.	2.6	15
28	Effect of non-stoichiometry on the crystal nucleation and growth in oxide glasses. <i>Acta Materialia</i> , 2019, 180, 317-328.	7.9	15
29	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
30	Macromolecular interactions and synergy in xanthan/HPAM aqueous solutions. <i>RSC Advances</i> , 2017, 7, 41630-41639.	3.6	13
31	Synthesis of PbO-SiO ₂ glass by CO ₂ laser melting method. <i>Journal of Non-Crystalline Solids</i> , 2019, 522, 119572.	3.1	13
32	Improvements on sintering and thermal expansion of lithium aluminum silicate glass-ceramics. <i>Ceramics International</i> , 2020, 46, 17430-17436.	4.8	13
33	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
34	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
35	Viscoelastic changes in chlorinated butyl rubber modified with graphene oxide. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 861-870.	2.4	11
36	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

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37	Approaching the melting temperature: Three regimes in the non-isothermal crystallization of Ce ₆₈ Al ₁₀ Cu ₂₀ Co ₂ bulk metallic glass revealed by nanocalorimetry. <i>Intermetallics</i> , 2020, 116, 106653.	3.9	8
38	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
39	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
40	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
41	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
42	Nitrogen-Enriched Cr _{1-x} Al _x N Multilayer-Like Coatings Manufactured by Dynamic Glancing Angle Direct Current Magnetron Sputtering. <i>Materials</i> , 2020, 13, 3650.	2.9	5
43	Tribological Investigations on Tool Surfaces for Temperature-Supported Forming of Magnesium AZ31 Sheets. <i>Materials</i> , 2020, 13, 2465.	2.9	5
44	Development of Eco-Friendly Mortars Produced with Kaolin Processing Waste: Durability Behavior Viewpoint. <i>Sustainability</i> , 2021, 13, 11395.	3.2	5
45	Durability of Sustainable Ceramics Produced by Alkaline Activation of Clay Brick Residue. <i>Sustainability</i> , 2021, 13, 10931.	3.2	5
46	Synthesis of 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
47	Durability Behavior of Mortars Containing Perlite Tailings: Alkali-Silicate Reaction Viewpoint. <i>Sustainability</i> , 2021, 13, 9203.	3.2	4
48	Use of nanostructured and modified TiO ₂ as a gas sensing agent. <i>Ceramica</i> , 2021, 67, 316-326.	0.8	4
49	Al ₂ O ₃ Preforms Infiltrated with Poly(methyl methacrylate) for Dental Prosthesis Manufacturing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7583.	2.5	3
50	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
51	New sustainable mortar compositions containing perlite waste. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1403-1415.	4.1	3
52	Adsorption of Sodium Diclofenac in Functionalized Palygoskite Clays. <i>Materials</i> , 2022, 15, 2708.	2.9	3
53	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
54	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

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55	Firing Parameters Effect on the Physical and Mechanical Properties of Scheelite Tailings-Containing Ceramic Masses. <i>Sustainability</i> , 2022, 14, 333.	3.2	2
56	Role of Nitrogen and Yttrium Contents in Manufacturing (Cr, Y)N _x Film Nanostructures. <i>Nanomaterials</i> , 2022, 12, 2410.	4.1	2
57	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
58	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
59	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
60	Annealing effects on the glass transition: Experiment and theory. <i>Journal of Non-Crystalline Solids</i> , 2022, 590, 121669.	3.1	1
61	Manufacturing and characterization of sustainable macroporous glass foams. <i>Ceramica</i> , 2022, 68, 242-249.	0.8	1
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