

Oscar Rubem Klegues Montedo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

906
citations

18
h-index

26
g-index

110
ext. papers

1,222
ext. citations

3.1
avg, IF

4.61
L-index

#	Paper	IF	Citations
102	LZS bioactive glass-ceramic scaffolds: Colloidal processing, foam replication technique and mechanical properties to bone tissue engineering. <i>Open Ceramics</i> , 2022 , 9, 100219	3.3	0
101	Waste valorization of iron ore tailings in Brazil: Assessment metrics from a circular economy perspective. <i>Resources Policy</i> , 2022 , 75, 102477	7.2	1
100	Single-burn clinkering of endodontic calcium silicate-based cements: Effects of ZnO in the C3S phase formation and hydration rate. <i>Materials Letters</i> , 2022 , 311, 131556	3.3	0
99	Dissolution, bioactivity behavior, and cytotoxicity of 19.58Li ₂ O·1.10ZrO ₂ ·69.32SiO ₂ glass-ceramic. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022 , 110, 67-78	3.5	0
98	Análise de desempenho de placas cerâmicas porosas obtidas com resíduo de vidro e lama de cal para aplicação em fachadas ventiladas. <i>Ceramica</i> , 2021 , 67, 388-398	1	1
97	Synthesis of chemically bonded porous ceramics from MgO·refractory bricks waste. <i>Ceramics International</i> , 2021 , 48, 3426-3426	5.1	0
96	Controlling efflorescence in geopolymers: A new approach. <i>Case Studies in Construction Materials</i> , 2021 , 15, e00740	2.7	2
95	Development of translucent ceramic tiles from modified porcelain stoneware tile paste. <i>Journal of Building Engineering</i> , 2021 , 103543	5.2	1
94	Coal mining pyritic waste in Fenton-like processes: Raw and purified catalysts in Reactive Blue 21 dye discoloration. <i>Science of the Total Environment</i> , 2021 , 807, 150823	10.2	0
93	Effect of the crystalline layer on the electrical behaviour of 17.7Li ₂ O·5.2ZrO ₂ ·68.1SiO ₂ ·9.0Al ₂ O ₃ glass ceramic monoliths. <i>Ceramics International</i> , 2021 ,	5.1	1
92	Thermal evaluation of the use of porous ceramic plates on ventilated façades - Part II: Thermal behavior. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1734-1742	2	0
91	Thermal evaluation of the use of porous ceramic plates on ventilated façades - Part I: Effect of composition and firing temperature on porosity and bending strength. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 2169	2	0
90	Influence of the Length and the Content of Cellulose Fibers Obtained from Sugarcane Bagasse on the Mechanical Properties of Fiber-Reinforced Mortar Composites. <i>Journal of Natural Fibers</i> , 2021 , 18, 111-121	1.8	9
89	Aluminum borophosphate glaze-coated aluminum alloy substrate: Coating properties and coating/substrate coupling. <i>Ceramics International</i> , 2021 , 47, 2050-2057	5.1	2
88	Zeolites-containing geopolymers obtained from biomass fly ash: Influence of temperature, composition, and porosity. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 803-815	3.8	5
87	Ballistic ceramics and analysis of their mechanical properties for armour applications: A review. <i>Ceramics International</i> , 2021 , 47, 8743-8761	5.1	15
86	Effects of roughness parameters on slip resistance for different methods used to determine the coefficient of friction for ceramic floor tiles. <i>Ceramics International</i> , 2021 , 47, 24281-24286	5.1	1

85	Photocatalytic pathway on the degradation of methylene blue from aqueous solutions using magnetite nanoparticles. <i>Journal of Cleaner Production</i> , 2021 , 318, 128556	10.3	18
84	Assessment of the recycling potential of stone processing plant wastes based on physicochemical features and market opportunities. <i>Journal of Cleaner Production</i> , 2021 , 319, 128678	10.3	5
83	Nanostructured biological hydroxyapatite from Tilapia bone: A pathway to control crystallite size and crystallinity. <i>Ceramics International</i> , 2021 , 47, 27685-27693	5.1	1
82	Quartz quantification in porcelain stoneware tile formulations by differential scanning calorimetry. <i>Thermochimica Acta</i> , 2021 , 705, 179050	2.9	2
81	Development of new geopolymers based on stone cutting waste. <i>Construction and Building Materials</i> , 2020 , 257, 119525	6.7	15
80	Laser-assisted glass-based sealing of polished porcelain stoneware tile surface to increase stain resistance. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3478-3488	6	0
79	Densified alumina obtained by two-step sintering: Impact of the microstructure on mechanical properties. <i>Ceramics International</i> , 2020 , 46, 12740-12743	5.1	7
78	Effect of MgO/Al ₂ O ₃ /SiO ₂ glass-ceramic as sintering aid on properties of alumina armors. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 781, 139237	5.3	11
77	Effect of LZSA glass-ceramic addition on the erosive wear of pressureless sintered alumina. <i>REM: International Engineering Journal</i> , 2020 , 73, 179-188	0.4	1
76	New waste-based supplementary cementitious materials: Mortars and concrete formulations. <i>Construction and Building Materials</i> , 2020 , 240, 117877	6.7	5
75	Facile synthesis of WO _x /ZrO ₂ catalysts using WO ₃ ·H ₂ O precipitate as synthetic precursor of active tungsten species. <i>Materials Today Chemistry</i> , 2020 , 18, 100367	6.2	0
74	Coefficients of static and dynamic friction of ceramic floor tiles: proposal of new method of surface roughness determination. <i>International Journal of Metrology and Quality Engineering</i> , 2019 , 10, 4	0.6	4
73	Strengthened surface crystallized 19.6Li ₂ O/1.0ZrO ₂ /69.4SiO ₂ and 20.0Li ₂ O/6.7ZrO ₂ /68.9SiO ₂ /4.4Al ₂ O ₃ glass-ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 751, 62-69	5.3	3
72	Desempenho balístico de estruturas multicamadas à base de alumina/epóxi. <i>Ceramica</i> , 2019 , 65, 207-215	1	1
71	Efeito da temperatura de sinterização e da adição de fibras poliméricas em cerâmica porosa obtida a partir de resíduos do processo Kraft. <i>Ceramica</i> , 2019 , 65, 416-425	1	1
70	Efeito da adição de resíduo de vidro em massa de cerâmica de alvenaria. <i>Revista Materia</i> , 2019 , 24,	0.8	2
69	Lightweight high-strength concrete with the use of waste cenosphere as fine aggregate. <i>Revista Materia</i> , 2019 , 24,	0.8	6
68	CHARACTERIZATION OF PULP AND PAPER MILL WASTE FOR THE PRODUCTION OF WASTE-BASED CEMENT. <i>Revista Internacional De Contaminacion Ambiental</i> , 2019 , 35, 237-246	1.2	7

67	Aluminum anodizing waste and its uses: An overview of potential applications and market opportunities. <i>Waste Management</i> , 2019 , 84, 286-301	8.6	20
66	Structural Refinement by the Rietveld Method on Clinkers Obtained from Waste from Pulp and Paper Mills. <i>Materials Science Forum</i> , 2018 , 912, 175-179	0.4	1
65	Evaluation of the Accelerated Degradation of Mortar in a Ceramic Coating Facade System. <i>Materials Science Forum</i> , 2018 , 912, 65-70	0.4	
64	Assessment of PCM-Impregnated Zeolite as a Matrix for Latent Heat Storage. <i>Materials Science Forum</i> , 2018 , 912, 87-92	0.4	1
63	Obtainment of Porous Ceramic Structures: A Comparison among Different Compositions and Methods of Conformation. <i>Materials Science Forum</i> , 2018 , 912, 224-229	0.4	
62	Use of Nickel Slag as Raw Material for Roof Tiles Production. <i>Materials Science Forum</i> , 2018 , 912, 212-217	0.4	0
61	Antifungal activities against toxigenic <i>Fusarium</i> specie and deoxynivalenol adsorption capacity of ion-exchanged zeolites. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2018 , 53, 184-190	2.2	5
60	Wastes from pulp and paper mills - a review of generation and recycling alternatives. <i>Ceramica</i> , 2018 , 64, 443-453	1	50
59	Combating pathogens with CsHPWO nanoparticles: a new proton-regulated antimicrobial agent. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 143-152	7.3	1
58	Effect of the Addition of the Waste Generated from the Feldspar Mining on the Obtainment of Ceramic Brick. <i>Materials Science Forum</i> , 2018 , 930, 164-169	0.4	2
57	Thermal characterization of hydrated eco-friendly clinkers produced from pulp and paper mill waste. <i>Ceramica</i> , 2018 , 64, 311-317	1	1
56	Solid-state reaction in nanoparticulate alumina/LZSA glass-ceramic composites. <i>Ceramica</i> , 2018 , 64, 397-402	1	1
55	Thermal Behavior of Pyrite in the CO ₂ and N ₂ Atmosphere for Obtaining Pyrrhotite: A Magnetic Material. <i>Materials Research</i> , 2018 , 21,	1.5	3
54	Effect of LZSA Glass-Ceramic Addition on Pressureless Sintered Alumina. Part II: Mechanical Behavior. <i>Materials Research</i> , 2018 , 21,	1.5	1
53	Obtençã de cerâmicas quimicamente ligadas a partir de resíduos industriais. <i>Ceramica</i> , 2018 , 64, 498-506	1	2
52	Crystallization kinetic and thermal and electrical properties of Epidomeness/cordierite glass-ceramics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 355-362	4.1	12
51	Synthesis and characterization of Li ₂ TiSiO ₅ obtained by melting and solid-state reaction. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 463-467	4.1	3
50	Waste-containing clinkers: Valorization of alternative mineral sources from pulp and paper mills. <i>Chemical Engineering Research and Design</i> , 2017 , 109, 106-116	5.5	29

49	Microstructural development and electrical behavior during crystalization of iron-rich glass-ceramics obtained from mill scale. <i>Ceramics International</i> , 2017 , 43, 11864-11873	5.1	5
48	Effect of temperature and holding time on the densification of alumina obtained by two-step sintering. <i>Ceramics International</i> , 2017 , 43, 8269-8275	5.1	39
47	Use of mechanically-activated kaolin to replace ball clay in engobe for a ceramic tile. <i>Ceramica</i> , 2017 , 63, 295-302	1	6
46	Comparison of Methods for Determining the Water Absorption of Glazed Porcelain Stoneware Ceramic Tiles. <i>Materials Research</i> , 2017 , 20, 637-643	1.5	7
45	Effect of LZSA Glass-Ceramic Addition on Pressureless Sintered Alumina. Part I: Grain Growth. <i>Materials Research</i> , 2017 , 20, 1024-1028	1.5	4
44	Evaluation of the thermal performance of different cold materials for urban paving. <i>Ceramica</i> , 2017 , 63, 203-209	1	1
43	Kinetics of the oxidation reactions and decomposition of pyrite. <i>Ceramica</i> , 2017 , 63, 39-43	1	4
42	New ion-exchanged zeolite derivatives: antifungal and antimycotoxin properties against <i>Aspergillus flavus</i> and aflatoxin B1. <i>Materials Research Express</i> , 2017 , 4, 085401	1.7	9
41	Antibacterial and photocatalytic activity of ZnO nanoparticles from Zn(OH) ₂ dehydrated by azeotropic distillation, freeze drying, and ethanol washing. <i>Advanced Powder Technology</i> , 2017 , 28, 463-472	4.6	26
40	Ballistic performance of Al ₂ O ₃ mosaic armors with gap-filling materials. <i>Ceramics International</i> , 2017 , 43, 2697-2704	5.1	20
39	Estudo de composições cerâmicas base de alumina e vitrocerâmico do sistema LZSA para obtenção de estruturas multicamadas por tape casting. <i>Ceramica</i> , 2017 , 63, 178-186	1	2
38	Improving physical properties of cubic In _{0.5} -stabilized zirconia by alloying with MoO ₃ . <i>Journal of Alloys and Compounds</i> , 2016 , 685, 593-603	5.7	5
37	Effect of a LZSA glass-ceramic addition on the sintering behavior of alumina. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 124, 241-249	4.1	11
36	Resistance of In _{0.5} -stabilized tetragonal zirconia polycrystals to low-temperature degradation. <i>Materials Letters</i> , 2016 , 163, 226-230	3.3	1
35	Crystallization Kinetics of Espodumene/Cordierite-Based Glass-Ceramics. <i>Materials Science Forum</i> , 2016 , 881, 83-88	0.4	2
34	Permeability of Porous Ceramic Membranes Obtained from Waste of the Coal Extraction Process. <i>Materials Science Forum</i> , 2016 , 881, 357-361	0.4	
33	A review of two-step sintering for ceramics. <i>Ceramics International</i> , 2016 , 42, 12556-12572	5.1	97
32	Multilayered ceramic composites – a review. <i>Advances in Applied Ceramics</i> , 2015 , 114, 127-138	2.3	29

31	Barium carbonate as an agent to improve the electrical properties of neodymium-barium-copper system at high temperature. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 809-814	5.7	1
30	Azeotropic distillation, ethanol washing, and freeze drying on coprecipitated gels for production of high surface area 3Y ₂ O ₃ -ZrO ₂ and 8YSZ powders: A comparative study. <i>Ceramics International</i> , 2015 , 41, 14148-14156	5.1	13
29	Evaluation of electrical properties of glass-ceramics obtained from mill scale. <i>Materials Research Bulletin</i> , 2015 , 72, 90-97	5.1	12
28	The Influence of Dopants in the Grain Size of Alumina - A Review. <i>Materials Science Forum</i> , 2015 , 820, 280-284	0.4	4
27	Multilayered Ceramic Composites - A Review. <i>Materials Science Forum</i> , 2015 , 820, 393-398	0.4	2
26	Mechanical tests and simulation on load sharing in alumina fiber bundles. <i>Ceramics International</i> , 2015 , 41, 13257-13263	5.1	2
25	The use of ceramic sludge and recycled glass to obtain engobes for manufacturing ceramic tiles. <i>Journal of Cleaner Production</i> , 2015 , 86, 461-470	10.3	42
24	Iron-Rich Glass-Ceramics Obtained from Mill Scale. <i>Materials Science Forum</i> , 2015 , 820, 411-416	0.4	
23	Wear performance of alumina-based ceramics - a review of the influence of microstructure on erosive wear. <i>Ceramica</i> , 2015 , 61, 88-103	1	29
22	Permeability of porous ceramic based on calcium carbonate as pore generating agent. <i>Ceramics International</i> , 2015 , 41, 4782-4788	5.1	21
21	Mechanical and toxicological evaluation of concrete artifacts containing waste foundry sand. <i>Waste Management</i> , 2014 , 34, 1495-500	8.6	19
20	Alumina-Based Ceramics for Armor Application: Mechanical Characterization and Ballistic Testing. <i>Journal of Ceramics</i> , 2014 , 2014, 1-6		26
19	Technology for Coke Production in Tunnel Kiln from Compacted Coal Powder. <i>Materials Science Forum</i> , 2014 , 775-776, 238-243	0.4	
18	Porous Ceramic Structures Obtained from Calcium Carbonate as Pore Generating Agent. <i>Materials Science Forum</i> , 2014 , 775-776, 755-760	0.4	1
17	Crystallization Kinetics of Iron Rich Glass-Ceramic Obtained from Waste of Steel Industry. <i>Materials Science Forum</i> , 2014 , 775-776, 244-249	0.4	4
16	Coarse Aggregates Obtained from Red Mud via Pelletizing Process. <i>Materials Science Forum</i> , 2014 , 798-799, 492-497	0.4	0
15	Sintering and crystallization of plates prepared from coarse glass ceramic frits. <i>Ceramics International</i> , 2013 , 39, 9137-9144	5.1	7
14	Influence of Fe ₂ O ₃ content on the dielectric behavior of aluminous porcelain insulators. <i>Ceramics International</i> , 2013 , 39, 7323-7330	5.1	13

13	Structural and fluid dynamic characterization of calcium carbonate-based porous ceramics. <i>Materials Research</i> , 2013 , 16, 1439-1448	1.5	6
12	The effect of microstructural features on the mechanical properties of LZSA glass-ceramic matrix composites. <i>Ceramica</i> , 2013 , 59, 351-359	1	5
11	Mechanical properties of recycled PET fibers in concrete. <i>Materials Research</i> , 2012 , 15, 679-686	1.5	78
10	Crystallisation Kinetics of a Spodumene-Based Glass Ceramic. <i>Advances in Materials Science and Engineering</i> , 2012 , 2012, 1-8	1.5	18
9	Sinterabilidade de pó de precursor vitrocerâmico do sistema LZSA tratados por troca iônica. <i>Quimica Nova</i> , 2012 , 35, 689-693	1.6	3
8	Obtenção e caracterização de um vitrocerâmico a base de cordierita. <i>Revista Materia</i> , 2011 , 16, 583-596	0.8	
7	Sintering kinetics of a 18.8Li ₂ O 8.3ZrO ₂ 64.2SiO ₂ 8.7Al ₂ O ₃ glass ceramic. <i>Ceramics International</i> , 2011 , 37, 1865-1871	5.1	23
6	Relationship between Surface Abrasion Wear and Brightness in Glazed Porcelainized Stoneware Tiles 2011 , 2011, 1-8		1
5	Sintering behavior of LZSA glass-ceramics. <i>Materials Research</i> , 2009 , 12, 197-200	1.5	21
4	Extruded ZrSiO ₄ particulate-reinforced LZSA glass-ceramics matrix composite. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 1134-1142	5.3	13
3	Roll Pressed LZSA Glass-Ceramics. <i>Advances in Science and Technology</i> , 2006 , 45, 442-446	0.1	10
2	Vitrocêramicas porosas do sistema LZSA utilizando resíduos orgânicos como agentes formadores de poros DOI: 10.5585/exacta.v4i2.757. <i>Exacta</i> , 2006 , 4, 289-296	1	3
1	Evolution of tricalcium silicate crystalline phase by differential scanning calorimetry for the development of endodontic calcium silicate-based cements. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	1