

Rui M Novais

List of Publications by Year in descending order

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90
papers

3,511
citations

117453

34
h-index

149479

56
g-index

92
all docs

92
docs citations

92
times ranked

3220
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass fly ash geopolymer monoliths for effective methylene blue removal from wastewaters. <i>Journal of Cleaner Production</i> , 2018, 171, 783-794.	4.6	190
2	Novel porous fly-ash containing geopolymer monoliths for lead adsorption from wastewaters. <i>Journal of Hazardous Materials</i> , 2016, 318, 631-640.	6.5	186
3	Porous biomass fly ash-based geopolymers with tailored thermal conductivity. <i>Journal of Cleaner Production</i> , 2016, 119, 99-107.	4.6	168
4	Geopolymer foams: An overview of recent advancements. <i>Progress in Materials Science</i> , 2020, 109, 100621.	16.0	161
5	Synthesis of porous biomass fly ash-based geopolymer spheres for efficient removal of methylene blue from wastewaters. <i>Journal of Cleaner Production</i> , 2019, 207, 350-362.	4.6	140
6	Effect of marble and granite sludge in clay materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 419, 306-309.	2.6	121
7	Waste glass from end-of-life fluorescent lamps as raw material in geopolymers. <i>Waste Management</i> , 2016, 52, 245-255.	3.7	108
8	Extremely fast and efficient methylene blue adsorption using eco-friendly cork and paper waste-based activated carbon adsorbents. <i>Journal of Cleaner Production</i> , 2018, 197, 1137-1147.	4.6	106
9	Influence of blowing agent on the fresh- and hardened-state properties of lightweight geopolymers. <i>Materials and Design</i> , 2016, 108, 551-559.	3.3	102
10	Wastes from pulp and paper mills - a review of generation and recycling alternatives. <i>Ceramica</i> , 2018, 64, 443-453.	0.3	76
11	Novel porous fly ash-containing geopolymers for pH buffering applications. <i>Journal of Cleaner Production</i> , 2016, 124, 395-404.	4.6	73
12	A Review of Solar Thermochemical CO ₂ Splitting Using Ceria-Based Ceramics With Designed Morphologies and Microstructures. <i>Frontiers in Chemistry</i> , 2019, 7, 601.	1.8	72
13	Influence of water and aluminium powder content on the properties of waste-containing geopolymer foams. <i>Ceramics International</i> , 2018, 44, 6242-6249.	2.3	68
14	Ceramic tiles with controlled porosity and low thermal conductivity by using pore-forming agents. <i>Ceramics International</i> , 2014, 40, 11637-11648.	2.3	62
15	Controlled Functionalization of Carbon Nanotubes by a Solvent-free Multicomponent Approach. <i>ACS Nano</i> , 2010, 4, 7379-7386.	7.3	57
16	Porous geopolymer spheres as novel pH buffering materials. <i>Journal of Cleaner Production</i> , 2017, 143, 1114-1122.	4.6	56
17	Innovative application for bauxite residue: Red mud-based inorganic polymer spheres as pH regulators. <i>Journal of Hazardous Materials</i> , 2018, 358, 69-81.	6.5	56
18	In-situ synthesis of zeolites by geopolymerization of biomass fly ash and metakaolin. <i>Materials Letters</i> , 2019, 236, 644-648.	1.3	56

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19	High pH buffer capacity biomass fly ash-based geopolymer spheres to boost methane yield in anaerobic digestion. <i>Journal of Cleaner Production</i> , 2018, 178, 258-267.	4.6	55
20	Use of modified bauxite residue-based porous inorganic polymer monoliths as adsorbents of methylene blue. <i>Journal of Cleaner Production</i> , 2019, 227, 877-889.	4.6	55
21	Synthesis and characterization of hematite pigment obtained from a steel waste industry. <i>Journal of Hazardous Materials</i> , 2011, 192, 1307-1313.	6.5	53
22	Development of mortars containing superabsorbent polymer. <i>Construction and Building Materials</i> , 2015, 95, 575-584.	3.2	51
23	Unzipping of Functionalized Multiwall Carbon Nanotubes Induced by STM. <i>Nano Letters</i> , 2010, 10, 1764-1768.	4.5	50
24	The effect of flow type and chemical functionalization on the dispersion of carbon nanofiber agglomerates in polypropylene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 833-841.	3.8	49
25	Waste-containing clinkers: Valorization of alternative mineral sources from pulp and paper mills. <i>Chemical Engineering Research and Design</i> , 2017, 109, 106-116.	2.7	49
26	Effect of the particle size range of construction and demolition waste on the fresh and hardened-state properties of fly ash-based geopolymer mortars with total replacement of sand. <i>Chemical Engineering Research and Design</i> , 2019, 129, 130-137.	2.7	48
27	Biphasic apatite-carbon materials derived from pyrolysed fish bones for effective adsorption of persistent pollutants and heavy metals. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4884-4894.	3.3	47
28	Synthesis of ceramic pigments from industrial wastes: Red mud and electroplating sludge. <i>Waste Management</i> , 2018, 80, 371-378.	3.7	46
29	Effect of nanosilica and microsilica on microstructure and hardened properties of cement pastes and mortars. <i>Advances in Applied Ceramics</i> , 2010, 109, 104-110.	0.6	45
30	The influence of TiO ₂ and ZnO powder mixtures on photocatalytic activity and rheological behavior of cement pastes. <i>Construction and Building Materials</i> , 2014, 65, 191-200.	3.2	43
31	Solar thermochemical CO ₂ splitting using cork-templated ceria ecoceramics. <i>Journal of CO₂ Utilization</i> , 2018, 26, 552-563.	3.3	42
32	Effective mechanical reinforcement of inorganic polymers using glass fibre waste. <i>Journal of Cleaner Production</i> , 2017, 166, 343-349.	4.6	41
33	Upcycling unexplored dregs and biomass fly ash from the paper and pulp industry in the production of eco-friendly geopolymer mortars: A preliminary assessment. <i>Construction and Building Materials</i> , 2018, 184, 464-472.	3.2	40
34	Eco-friendly approach to enhance the mechanical performance of geopolymer foams: Using glass fibre waste coming from wind blade production. <i>Construction and Building Materials</i> , 2020, 239, 117805.	3.2	39
35	Incorporation of glass fibre fabrics waste into geopolymer matrices: An eco-friendly solution for off-cuts coming from wind turbine blade production. <i>Construction and Building Materials</i> , 2018, 187, 876-883.	3.2	38
36	Metals removal from aqueous solutions by tailored porous waste-based granulated alkali-activated materials. <i>Applied Clay Science</i> , 2019, 179, 105147.	2.6	38

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37	Sustainable and efficient cork - inorganic polymer composites: An innovative and eco-friendly approach to produce ultra-lightweight and low thermal conductivity materials. <i>Cement and Concrete Composites</i> , 2019, 97, 107-117.	4.6	38
38	Red mud as a substitute coloring agent for the hematite pigment. <i>Ceramics International</i> , 2018, 44, 4211-4219.	2.3	37
39	Waste-based geopolymeric mortars with very high moisture buffering capacity. <i>Construction and Building Materials</i> , 2018, 191, 39-46.	3.2	37
40	Wood waste incorporation for lightweight porcelain stoneware tiles with tailored thermal conductivity. <i>Journal of Cleaner Production</i> , 2015, 90, 66-72.	4.6	34
41	Poly(lactic acid) composites with poly(lactic acid)-modified carbon nanotubes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3740-3750.	2.5	33
42	Multifunctional cork - alkali-activated fly ash composites: A sustainable material to enhance buildings' energy and acoustic performance. <i>Energy and Buildings</i> , 2020, 210, 109739.	3.1	33
43	Influence of added nanosilica and/or silica fume on fresh and hardened properties of mortars and cement pastes. <i>Advances in Applied Ceramics</i> , 2009, 108, 418-428.	0.6	31
44	Study of cure conditions effect on the properties of wood biomass fly ash geopolymers. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7518-7528.	2.6	30
45	The influence of carbon nanotube functionalization route on the efficiency of dispersion in polypropylene by twin-screw extrusion. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 2189-2198.	3.8	29
46	Lightweight dense/porous PCM-ceramic tiles for indoor temperature control. <i>Energy and Buildings</i> , 2015, 108, 205-214.	3.1	28
47	Pyrolysed cork-geopolymer composites: A novel and sustainable EMI shielding building material. <i>Construction and Building Materials</i> , 2019, 229, 116930.	3.2	28
48	Development of new geopolymers based on stone cutting waste. <i>Construction and Building Materials</i> , 2020, 257, 119525.	3.2	28
49	High performance cork-templated ceria for solar thermochemical hydrogen production via two-step water-splitting cycles. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3077-3089.	2.5	26
50	Assessment of the single and combined effect of superabsorbent particles and porogenic agents in nanotitania-containing mortars. <i>Energy and Buildings</i> , 2016, 127, 980-990.	3.1	24
51	The influence of TiO ₂ nanoparticles and polyacrylonitrile fibers on the rheological behavior and hardened properties of mortars. <i>Construction and Building Materials</i> , 2015, 75, 315-330.	3.2	21
52	Waste-Based One-Part Alkali Activated Materials. <i>Materials</i> , 2021, 14, 2911.	1.3	21
53	Rheological characterisation of cement pastes with nanosilica, silica fume and superplasticiser additions. <i>Advances in Applied Ceramics</i> , 2010, 109, 213-218.	0.6	20
54	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.	4.6	20

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55	Green geopolymetric concrete using grits for applications in construction. <i>Materials Letters</i> , 2018, 233, 94-97.	1.3	19
56	A sustainable multi-function biomorphic material for pollution remediation or UV absorption: Aerosol assisted preparation of highly porous ZnO-based materials from cork templates. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102936.	3.3	19
57	Modifications of basic-oxygen-furnace slag microstructure and their effect on the rheology and the strength of alkali-activated binders. <i>Cement and Concrete Composites</i> , 2019, 97, 143-153.	4.6	19
58	Solar Redox Cycling of Ceria Structures Based on Fiber Boards, Foams, and Biomimetic Cork-Derived Ecoceramics for Two-Step Thermochemical H ₂ O and CO ₂ Splitting. <i>Energy & Fuels</i> , 2020, 34, 9037-9049.	2.5	19
59	Ecoceramics. <i>Materials Today</i> , 2017, 20, 45-46.	8.3	18
60	Highly efficient lead extraction from aqueous solutions using inorganic polymer foams derived from biomass fly ash and metakaolin. <i>Journal of Environmental Management</i> , 2020, 272, 111049.	3.8	15
61	Lightweight dense/porous bi-layered ceramic tiles prepared by double pressing. <i>Journal of Materials Processing Technology</i> , 2015, 216, 169-177.	3.1	14
62	Cellular ceramics obtained by a combination of direct foaming of soybean oil emulsified alumina suspensions with gel consolidation using gelatin. <i>Ceramics International</i> , 2018, 44, 2436-2445.	2.3	14
63	PCM-containing bi-layered alkali-activated materials: A novel and sustainable route to regulate the temperature and humidity fluctuations inside buildings. <i>Building and Environment</i> , 2021, 205, 108281.	3.0	14
64	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.	1.9	13
65	Comparison of low and high pressure infiltration regimes on the density and highly porous microstructure of ceria ecoceramics made from sustainable cork templates. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1287-1296.	2.8	12
66	In-depth investigation of the long-term strength and leaching behaviour of inorganic polymer mortars containing green liquor dregs. <i>Journal of Cleaner Production</i> , 2019, 220, 630-641.	4.6	12
67	Mix design and mechanical performance of geopolymer binder for sustainable construction and building material. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 264, 012002.	0.3	11
68	Red mud and electroplating sludge as coloring agents of distinct glazes: The influence of heat treatment. <i>Materials Letters</i> , 2018, 223, 166-169.	1.3	11
69	Bi-Layered Porous/Cork-Containing Waste-Based Inorganic Polymer Composites: Innovative Material towards Green Buildings. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2995.	1.3	11
70	Unravelling the Affinity of Alkali-Activated Fly Ash Cubic Foams towards Heavy Metals Sorption. <i>Materials</i> , 2022, 15, 1453.	1.3	10
71	Red mud-based inorganic polymer spheres bulk-type adsorbents and pH regulators. <i>Materials Today</i> , 2019, 23, 105-106.	8.3	8
72	Red mud-based inorganic polymer spheres: Innovative and environmentally friendly anaerobic digestion enhancers. <i>Bioresource Technology</i> , 2020, 316, 123904.	4.8	8

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73	Hidden value in low-cost inorganic pigments as potentially valuable magnetic materials. <i>Ceramics International</i> , 2016, 42, 9605-9612.	2.3	7
74	Simple and effective route to tailor the thermal, acoustic and hygrothermal properties of cork-containing waste derived inorganic polymer composites. <i>Journal of Building Engineering</i> , 2021, 42, 102501.	1.6	7
75	Organic functionalization of carbon nanofibers for composite applications. <i>Polymer Composites</i> , 2010, 31, 369-376.	2.3	6
76	Immobilization of Hazardous Wastes on One-Part Blast Furnace Slag-Based Geopolymers. <i>Sustainability</i> , 2021, 13, 13455.	1.6	6
77	Valorisation of industrial iron oxide waste to produce magnetic barium hexaferrite. <i>ChemistrySelect</i> , 2016, 1, 819-825.	0.7	5
78	Design guidelines for titania-silica-alumina ceramics with tuned anatase to rutile transformation. <i>Ceramics International</i> , 2019, 45, 5179-5188.	2.3	5
79	Role of waste-based geopolymer spheres addition for pH control and efficiency enhancement of anaerobic digestion process. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 1167-1183.	1.7	5
80	Controlling efflorescence in geopolymers: A new approach. <i>Case Studies in Construction Materials</i> , 2021, 15, e00740.	0.8	5
81	Synthesis of red mud derived M-type barium hexaferrites with tuneable coercivity. <i>Ceramics International</i> , 2020, 46, 5757-5764.	2.3	3
82	The Role of an Industrial Alkaline Wastewater in the Alkali Activation of Biomass Fly Ash. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3612.	1.3	3
83	Alumina/copper foams produced by replica using a double impregnation process. <i>Advances in Applied Ceramics</i> , 2017, 116, 85-91.	0.6	2
84	Quantitative mineralogical analysis of ceramic raw materials: An alternative approach. <i>Journal of Materials Science Letters</i> , 2001, 20, 1041-1042.	0.5	1
85	Mining tailing reuse in sulfobeltic clinker formulations. , 2015, , 183-188.		1
86	Cork derived TiO ₂ biomorphic ecoceramics. <i>Open Ceramics</i> , 2022, 9, 100243.	1.0	1
87	Lightweight Bi-Layered Ceramic Tiles for Novel Applications. <i>Advances in Science and Technology</i> , 2014, 91, 82-87.	0.2	0
88	Desenvolvimento de geopolímeros de baixa condutividade térmica. <i>Revista Materia</i> , 2016, 21, 429-436.	0.1	0
89	DESENVOLVIMENTO DE BLOCO CELULAR CERÂMICO USANDO PÓ DE ALUMÍNIO COMO AGENTE GERADOR DE POROS. <i>Tecnologia Em Metalurgia, Materiais E Mineracao</i> , 2018, 15, 377-383.	0.1	0
90	Evaluation of the Reactivity of Red Mud-Based Slags for Geopolymers Production. , 0, ,		0