Ana Paula da Luz

List of Publications by Year
in descending order

96 papers	1,934 citations	236612 25 h-index	344852 36 g-index
98 all docs	98 docs citations	98 times ranked	1155 citing authors

#	Article	IF	Citations
1	Use of glass waste as a raw material in porcelain stoneware tile mixtures. Ceramics International, 2007, 33, 761-765.	2.3	87
2	Basic slag attack of spinel-containing refractory castables. Ceramics International, 2011, 37, 1935-1945.	2.3	74
3	CaCO3 addition effect on the hydration and mechanical strength evolution of calcium aluminate cement for endodontic applications. Ceramics International, 2012, 38, 1417-1425.	2.3	73
4	Thermodynamic evaluation of spinel containing refractory castables corrosion by secondary metallurgy slag. Ceramics International, 2011, 37, 1191-1201.	2.3	52
5	Halting the calcium aluminate cement hydration process. Ceramics International, 2011, 37, 3789-3793.	2.3	48
6	Slag conditioning effects on MgOâ€“C refractory corrosion performance. Ceramics International, 2013, 39, 7507-7515.	2.3	46
7	In situ hot elastic modulus evolution of MgOâ€“C refractories containing Al, Si or Alâ€“Mg antioxidants. Ceramics International, 2016, 42, 9836-9843.	2.3	46
8	Calcium aluminate cement-based compositions for biomaterial applications. Ceramics International, 2016, 42, 11732-11738.	2.3	44
9	Slag attack evaluation of in situ spinel-containing refractory castables via experimental tests and thermodynamic simulations. Ceramics International, 2012, 38, 1497-1505.	2.3	43
10	Effect of Al4SiC4 on the Al2O3SiCSiO2C refractory castables performance. Ceramics International, 2012, 38, 3791-3800.	2.3	40
11	Graphitization of phenolic resins for carbon-based refractories. Ceramics International, 2017, 43, 8171-8182.	2.3	38
12	Systemic analysis of MgO hydration effects on aluminaâ€“magnesia refractory castables. Ceramics International, 2012, 38, 3969-3976.	2.3	37
13	Thermal shock damage evaluation of refractory castables via hot elastic modulus measurements. Ceramics International, 2013, 39, 6189-6197.	2.3	37
14	High-alumina phosphate-bonded refractory castables: Al(OH)3 sources and their effects. Ceramics International, 2015, 41, 9041-9050.	2.3	35
15	Revisiting CA6 formation in cement-bonded alumina-spinel refractory castables. Journal of the European Ceramic Society, 2017, 37, 5023-5034.	2.8	35
16	Lithium and memantine improve spatial memory impairment and neuroinflammation induced by Î²-amyloid 1-42 oligomers in rats. Neurobiology of Learning and Memory, 2017, 141, 84-92.	1.0	33
17	Slag foaming practice in the steelmaking process. Ceramics International, 2018, 44, 8727-8741.	2.3	33
18	Kinetic control of MgO hydration in refractory castables by using carboxylic acids. Journal of the European Ceramic Society, 2018, 38, 2152-2163.	2.8	32

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19	Developing nano-bonded refractory castables with enhanced green mechanical properties. Ceramics International, 2015, 41, 3051-3057.	2.3	31
20	Hot elastic modulus of Al2O3â€“SiCâ€“SiO2â€“C castables. Ceramics International, 2011, 37, 2335-2345.	2.3	30
21	Creep behavior modeling of silica fume containing Al2O3â€“MgO refractory castables. Ceramics International, 2012, 38, 327-332.	2.3	30
22	CA6 impact on the corrosion behavior of cement-bonded spinel-containing refractory castables: An analysis based on thermodynamic simulations. Ceramics International, 2015, 41, 4714-4725.	2.3	30
23	Hydroxyapatite synthesis and the benefits of its blend with calcium aluminate cement. Ceramics International, 2016, 42, 2542-2549.	2.3	30
24	Nacre-like ceramic refractories for high temperature applications. Journal of the European Ceramic Society, 2018, 38, 2186-2193.	2.8	29
25	Role of catalytic agents and processing parameters in the graphitization process of a carbon-based refractory binder. Ceramics International, 2015, 41, 13320-13330.	2.3	28
26	Slag Resistance of <scp><scp>Al</scp></scp>₂<scp><scp>O</scp></scp>₃â€“<scp><scp>MgO</scp></scp> Refractory Castables in Different Environmental Conditions. Journal of the American Ceramic Society, 2013, 96, 3252-3257.	1.9	27
27	Phase and microstructural evolution based on Al, Si and TiO2 reactions with a MgO-C resin-bonded refractory. Ceramics International, 2016, 42, 16480-16490.	2.3	26
28	Mg(OH)₂ Nucleation and Growth Parameters Applicable for the Development of MgOâ€Based Refractory Castables. Journal of the American Ceramic Society, 2016, 99, 461-469.	1.9	26
29	Mullite-based refractory castable engineering for the petrochemical industry. Ceramics International, 2013, 39, 9063-9070.	2.3	25
30	In situ elastic modulus evaluation of Al2O3â€“MgO refractory castables. Ceramics International, 2014, 40, 1699-1707.	2.3	25
31	Al2O3-based binders for corrosion resistance optimization of Al2O3â€“MgAl2O4 and Al2O3â€“MgO refractory castables. Ceramics International, 2015, 41, 9947-9956.	2.3	24
32	Sintering effect of calcium carbonate in high-alumina refractory castables. Ceramics International, 2018, 44, 10486-10497.	2.3	24
33	Self-reinforced high-alumina refractory castables. Ceramics International, 2018, 44, 2364-2375.	2.3	24
34	Drying behavior optimization of dense refractory castables by adding a permeability enhancing active compound. Ceramics International, 2019, 45, 9048-9060.	2.3	24
35	Acetic Acid Role on Magnesia Hydration for Cementâ€Free Refractory Castables. Journal of the American Ceramic Society, 2014, 97, 1233-1241.	1.9	23
36	Boron sources as sintering additives for alumina-based refractory castables. Ceramics International, 2017, 43, 10207-10216.	2.3	23

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37	Phosphate chemical binder as an anti-hydration additive for Al2O33MgO refractory castables. Ceramics International, 2014, 40, 1503-1512.	2.3	22
38	Artigo revisÃ£o: atuaÃ§Ã£o dos antioxidantes em refratÃ¡rios contendo carbono. Ceramica, 2007, 53, 334-344.	0.3	21
39	Structural evolution during the catalytic graphitization of a thermosetting refractory binder and oxidation resistance of the derived carbons. Materials Chemistry and Physics, 2018, 212, 113-121.	2.0	20
40	Novel drying additives and their evaluation for self-flowing refractory castables. Ceramics International, 2020, 46, 3209-3217.	2.3	20
41	Artigo revisÃ£o: uso da molhabilidade na investigaÃ§Ã£o do comportamento de corrosÃ£o de materiais refratÃ¡rios. Ceramica, 2008, 54, 174-183.	0.3	19
42	Thermodynamic simulation models for predicting Al2O3â€"MgO castable chemical corrosion. Ceramics International, 2011, 37, 3109-3116.	2.3	19
43	Nontoxic Processing of Reliable Macroâ€Porous Ceramics. International Journal of Applied Ceramic Technology, 2016, 13, 522-531.	1.1	19
44	B4C mineralizing role for mullite generation in Al2O3-SiO2 refractory castables. Ceramics International, 2017, 43, 12167-12178.	2.3	19
45	MgO fumes as a potential binder for in situ spinel containing refractory castables. Ceramics International, 2018, 44, 15453-15463.	2.3	19
46	Thermodynamic evaluation of SiC oxidation in Al2O3â€"MgAl2O4â€"SiCâ€"C refractory castables. Ceramics International, 2010, 36, 1863-1869.	2.3	18
47	Recycling MgOâ€"C refractories and dolomite fines as slag foaming conditioners: experimental and thermodynamic evaluations. Ceramics International, 2013, 39, 8079-8085.	2.3	18
48	Al2O3-MgO refractory castables with enhanced explosion resistance due to in situ formation of phases with lamellar structure. Ceramics International, 2018, 44, 8048-8056.	2.3	18
49	Catalytic graphitization of novolac resin for refractory applications. Ceramics International, 2018, 44, 3816-3824.	2.3	18
50	Drying behavior of dense refractory ceramic castables. Part 1 â€" General aspects and experimental techniques used to assess water removal. Ceramics International, 2021, 47, 22246-22268.	2.3	18
51	Monoaluminum phosphate-bonded refractory castables for petrochemical application. Ceramics International, 2016, 42, 8331-8337.	2.3	17
52	Wetting behaviour of silicon nitride ceramics by Tiâ€"Cu alloys. Ceramics International, 2008, 34, 305-309.	2.3	16
53	Maximum working temperature of refractory castables: do we really know how to evaluate it?. Ceramics International, 2017, 43, 9077-9083.	2.3	16
54	Binding additives with sintering action for high-alumina based castables. Ceramics International, 2019, 45, 15290-15297.	2.3	16

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55	Fast drying of high-alumina MgO-bonded refractory castables. Ceramics International, 2020, 46, 11137-11148.	2.3	15
56	Development of plaster foam for thermal and acoustic applications. Construction and Building Materials, 2020, 262, 120800.	3.2	14
57	Citric acid role and its migration effects in nano-bonded refractory castables. Ceramics International, 2014, 40, 14523-14527.	2.3	13
58	Influence of the mixing process on the graphitization of phenolic resins. Ceramics International, 2019, 45, 12196-12204.	2.3	13
59	Binder effect on ZnAl2O4-containing high-alumina refractory castables. Ceramics International, 2022, 48, 11401-11409.	2.3	13
60	High-alumina refractory castables bonded with novel alumina-silica-based powdered binders. Ceramics International, 2018, 44, 9159-9167.	2.3	12
61	Thermosetting resins for carbon-containing refractories: Theoretical basis and novel insights. Open Ceramics, 2020, 3, 100025.	1.0	12
62	Graphitization of Lignin-Phenol-Formaldehyde Resins. Materials Research, 2020, 23, .	0.6	12
63	Aluminum lactate role in improving hydration and drying behavior of MgO-bonded refractory castables. Ceramics International, 2020, 46, 17093-17102.	2.3	11
64	Rheological performance of high alumina nano-bonded refractory castables containing carboxylic acids as additives. Ceramics International, 2015, 41, 11251-11256.	2.3	10
65	Self-flowing high-alumina phosphate-bonded refractory castables. Ceramics International, 2017, 43, 6239-6249.	2.3	10
66	Why foams containing colloidal hydrophilic particles are unstable?. Ceramics International, 2013, 39, 6005-6008.	2.3	9
67	Magnesium fluoride role on aluminaâ€"magnesia cement-bonded castables. Ceramics International, 2014, 40, 14947-14956.	2.3	9
68	Mineralizing aluminaâ€"magnesia cement-bonded castables containing magnesium borates. Ceramics International, 2015, 41, 11143-11152.	2.3	9
69	Thermal conductivity modelling based on physical and chemical properties of refractories. Ceramics International, 2017, 43, 4731-4745.	2.3	9
70	Advanced boron-containing refractory castables bonded with calcium-free binders. Ceramics International, 2019, 45, 8774-8782.	2.3	9
71	Synthesis and graphitization of resole resins by ferrocene. Progress in Natural Science: Materials International, 2019, 29, 71-80.	1.8	9
72	Preparation and Application of Nb2O5 Nanofibers in CO2 Photoconversion. Nanomaterials, 2021, 11, 3268.	1.9	9

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73	Highâ€Alumina Boronâ€Containing Refractory Castables. International Journal of Applied Ceramic Technology, 2014, 11, 977-983.	1.1	8
74	Towards a single-phase mixed formulation of refractory castables and structural concrete at high temperatures. International Journal of Heat and Mass Transfer, 2021, 171, 121064.	2.5	8
75	Main trends on the simulation of the drying of refractory castables - Review. Ceramics International, 2021, 47, 28086-28105.	2.3	8
76	Thermodynamic simulations and isothermal solubility diagrams as tools for slag foaming control. Ceramics International, 2011, 37, 2947-2950.	2.3	7
77	Crack-free caustic magnesia-bonded refractory castables. Ceramics International, 2021, 47, 17255-17261.	2.3	6
78	Experimental proof of moisture clog through neutron tomography in a porous medium under truly oneâ€directional drying. Journal of the American Ceramic Society, 2022, 105, 3534-3543.	1.9	6
79	Uso de pÃ³ de vidro como fundente para produÃ§Ã£o de grÃªs porcelanato. Revista Materia, 2008, 13, 96-103.	0.1	5
80	Drying behavior of steel-ladle lining refractory castables under continuous heating rate. Ceramics International, 2022, 48, 1142-1151.	2.3	5
81	Drying behavior of dense refractory castables. Part 2 â€" Drying agents and design of heating schedules. Ceramics International, 2021, , .	2.3	5
82	Melting Temperature and Wetting Angle of AlN/Dy2O3 and AlN/Yb2O3 Mixtures on SiC Substrates. Materials Research, 2015, 18, 957-962.	0.6	4
83	Design of Experiments (DOE) applied to high-alumina calcium aluminate cement-bonded castables. Ceramics International, 2016, 42, 17635-17641.	2.3	4
84	Direct comparison of multi and single-phase models depicting the drying process of refractory castables. Open Ceramics, 2021, 6, 100111.	1.0	4
85	SimulaÃ§Ã£o termodinÃ¢mica e sua aplicaÃ§Ã£o na avaliaÃ§Ã£o do desempenho de materiais refratÃ¡rios. Ceramica, 2011, 57, 294-304.	0.3	4
86	Slag melting temperature and contact angle on high carbon containing refractory substrates. Ceramica, 2011, 57, 140-149.	0.3	3
87	InfluÃªncia dos sais MgCl 2 e CaCl 2 no comportamento de hidrataÃ§Ã£o do MgO. Ceramica, 2018, 64, 20-29.	0.3	3
88	Physical properties and hydration evolution of dispersant containing calcium aluminate cement compositions for endodontic applications. Ceramica, 2014, 60, 366-370.	0.3	2
89	Low-melting-point polymeric fiber performance as drying additives for refractory castables. Ceramics International, 2022, 48, 3504-3514.	2.3	2
90	AvaliaÃ§Ã£o do molhamento da matriz de um concreto refratÃ¡rio (Al2O3-SiC-SiO2-C) por escÃ³rias sintÃ©ticas contendo distintos teores de MgO. Ceramica, 2012, 58, 144-150.	0.3	1

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91	Road maps for processing foams containing particles. Ceramics International, 2013, 39, 6153-6163.	2.3	1
92	EvoluÃ§Ã£o da resistÃªncia mecÃ¢nica e dos produtos de hidrataÃ§Ã£o de um cimento de aluminato de cÃ¡lcio, visando sua aplicaÃ§Ã£o em endodontia. Ceramica, 2014, 60, 192-198.	0.3	1
93	CaracterÃsticas e mecanismos de desgaste dos refratÃ¡rios MgO-C usados na linha de escÃ³ria de panelas de aÃ§o. Ceramica, 2014, 60, 348-365.	0.3	1
94	In situ Î±-alumina hydrophobization dynamics at acid pH: effectiveness limitations of short-chain amphiphilic molecules. Materials Research, 2014, 17, 284-288.	0.6	1
95	Fluencia en materiales refractarios. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2013, 52, 207-224.	0.9	1
96	Sintering Effect of Al and a Boron Source in High-Alumina Nano-Bonded Refractory Castables. InterCeram: International Ceramic Review, 2015, 64, 177-181.	0.2	0