Maximina Romero

List of Publications by Year
in descending order

103 papers	3,235 citations	136740 32 h-index	161609 54 g-index
105 all docs	105 docs citations	105 times ranked	2273 citing authors

#	Article	IF	Citations
1	Effect of firing temperature on sintering of porcelain stoneware tiles. Ceramics International, 2008, 34, 1867-1873.	2.3	199
2	Glassâ€“ceramic glazes for ceramic tiles: a review. Journal of Materials Science, 2012, 47, 553-582.	1.7	189
3	Design, obtainment and properties of glasses and glassâ€“ceramics from coal fly ash. Fuel, 1999, 78, 271-276.	3.4	144
4	Development of a new glassâ€“ceramic by means of controlled vitrification and crystallisation of inorganic wastes from urban incineration. Journal of the European Ceramic Society, 1999, 19, 2049-2058.	2.8	122
5	Mullite development on firing in porcelain stoneware bodies. Journal of the European Ceramic Society, 2010, 30, 1599-1607.	2.8	97
6	Evolution with Temperature of Crystalline and Amorphous Phases in Porcelain Stoneware. Journal of the American Ceramic Society, 2009, 92, 229-234.	1.9	92
7	Application of sewage sludge in the manufacturing of ceramic tile bodies. Applied Clay Science, 2005, 30, 219-224.	2.6	89
8	Effect of microstructure on mechanical properties of porcelain stoneware. Journal of the European Ceramic Society, 2010, 30, 3063-3069.	2.8	89
9	Thermolysis of fibreglass polyester composite and reutilisation of the glass fibre residue to obtain a glassâ€“ceramic material. Journal of Analytical and Applied Pyrolysis, 2012, 93, 104-112.	2.6	89
10	Kinetic of mullite formation from a porcelain stoneware body for tiles production. Journal of the European Ceramic Society, 2006, 26, 1647-1652.	2.8	87
11	Thermal expansion of slag and fly ash from coal gasification in IGCC power plant. Fuel, 2006, 85, 2352-2358.	3.4	75
12	Surface and Bulk Crystallization of Glassâ€Ceramic in the Na₂Oâ€CaOâ€ZnOâ€PbOâ€Fe₂O₃â€Al₂O₃â€SiO₂ System Derived from a Goethite Waste. Journal of the American Ceramic Society, 1999, 82, 1313-1317.	1.9	74
13	Effect of iron oxide content on the crystallisation of a diopside glassâ€“ceramic glaze. Journal of the European Ceramic Society, 2002, 22, 883-890.	2.8	73
14	Crystallization of (Na₂Oâ€“MgO)â€“CaOâ€“Al₂O₃â€“SiO₂ Glassy Systems Formulated from Waste Products. Journal of the American Ceramic Society, 2000, 83, 2515-2520.	1.9	73
15	Sintering behaviour of ceramic bodies from contaminated marine sediments. Ceramics International, 2008, 34, 1917-1924.	2.3	73
16	Use of vitrified urban incinerator waste as raw material for production of sintered glass-ceramics. Materials Research Bulletin, 2001, 36, 383-395.	2.7	68
17	Utilisation of IGCC slag and clay steriles in soft mud bricks (by pressing) for use in building bricks manufacturing.. Waste Management, 2002, 22, 887-891.	3.7	68
18	Synthesis by molten salt method of the AFeO3 system (A=La, Gd) and its structural, vibrational and internal hyperfine magnetic field characterization. Physica B: Condensed Matter, 2014, 443, 90-94.	1.3	61

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19	Title is missing!. Journal of Materials Science, 1999, 34, 4413-4423.	1.7	59
20	Technological properties of glass-ceramic tiles obtained using rice husk ash as silica precursor. Ceramics International, 2013, 39, 5427-5435.	2.3	57
21	Preparation and properties of high iron oxide content glasses obtained from industrial wastes. Journal of the European Ceramic Society, 1998, 18, 153-160.	2.8	55
22	Crystal nucleation and growth in glasses from inorganic wastes from urban incineration. Journal of Non-Crystalline Solids, 2000, 271, 106-118.	1.5	54
23	Relation between the microstructure and technological properties of porcelain stoneware. A review. Materiales De Construccion, 2015, 65, e065.	0.2	46
24	Crystallisation of a zirconium-based glaze for ceramic tile coatings. Journal of the European Ceramic Society, 2003, 23, 1629-1635.	2.8	42
25	Influence of the addition of phosphogypsum on some properties of ceramic tiles. Construction and Building Materials, 2018, 175, 588-600.	3.2	41
26	Physico-chemical characterization of slag waste coming from GICC thermal power plant. Materials Letters, 2001, 50, 246-250.	1.3	39
27	Zero-waste process for the transformation of a hazardous aluminum waste into a raw material to obtain zeolites. Journal of Cleaner Production, 2020, 255, 120178.	4.6	39
28	Effect of particle size on kinetics crystallization of an iron-rich glass. Journal of Materials Science, 2008, 43, 4135-4142.	1.7	38
29	Valorization of sugarcane bagasse ash: Producing glass-ceramic materials. Journal of Environmental Management, 2014, 134, 15-19.	3.8	38
30	Microstructural characterization of a goethite waste from zinc hydrometallurgical process. Materials Letters, 1997, 31, 67-73.	1.3	37
31	Effect of moulding pressure on microstructure and technological properties of porcelain stoneware. Ceramics International, 2012, 38, 317-325.	2.3	37
32	Characterization of a wollastonite glass-ceramic material prepared using sugar cane bagasse ash (SCBA) as one of the raw materials. Materials Characterization, 2014, 98, 209-214.	1.9	36
33	Microstructure and technological properties of porcelain stoneware tiles moulded at different pressures and thicknesses. Ceramics International, 2014, 40, 1365-1377.	2.3	35
34	Sintering behaviour of pressed red mud wastes from zinc hydrometallurgy. Ceramics International, 2001, 27, 29-37.	2.3	34
35	Characterization of a polypropylene fibered cement composite using ESEM, FESEM and mechanical testing. Construction and Building Materials, 2005, 19, 396-403.	3.2	34
36	Valorisation of ilmenite mud waste in the manufacture of commercial ceramic. Construction and Building Materials, 2014, 72, 31-40.	3.2	34

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37	Crystallization of SiO₂â€“CaOâ€“Na₂O Glass Using Sugarcane Bagasse Ash as Silica Source. Journal of the American Ceramic Society, 2010, 93, 450-455.	1.9	33
38	Characterisation of the sintering behaviour of Waelz slag from electric arc furnace (EAF) dust recycling for use in the clay ceramics industry. Journal of Environmental Management, 2014, 132, 278-286.	3.8	33
39	Some aspects of crystallization microstructure on new glass-ceramic glazes. Materials Research Bulletin, 1998, 33, 1159-1164.	2.7	32
40	Crystallisation and microstructure of nephelineâ€“forsterite glass-ceramics. Ceramics International, 2013, 39, 2955-2966.	2.3	32
41	Nucleation and Crystallization of New Glasses from Fly Ash Originating from Thermal Power Plants. Journal of the American Ceramic Society, 2001, 84, 1851-1858.	1.9	31
42	Improvement of mechanical and dielectric properties of porcelain insulators using economic raw materials. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2019, 58, 28-37.	0.9	29
43	Thermal and Sintering Characterization of IGCC Slag. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2002, 67, 249-255.	1.4	28
44	Nucleation and crystal growth of glasses produced by a generic plasma arc-process. Journal of the European Ceramic Society, 2006, 26, 1679-1685.	2.8	28
45	Thermal properties and crystallization of iron phosphate glasses containing up to 25wt% additions of Si-, Al-, Na- and U-oxides. Journal of Non-Crystalline Solids, 2008, 354, 1541-1548.	1.5	26
46	Mullite-Based Ceramics from Mining Waste: A Review. Minerals (Basel, Switzerland), 2021, 11, 332.	0.8	26
47	Recycling of Glass Fibers from Fiberglass Polyester Waste Composite for the Manufacture of Glass-Ceramic Materials. Journal of Environmental Protection, 2012, 03, 740-747.	0.3	25
48	Magnetic properties of glasses with high iron oxide content. Materials Research Bulletin, 2001, 36, 1513-1520.	2.7	20
49	Development of Mica Glassâ€Ceramic Glazes. Journal of the American Ceramic Society, 2004, 87, 819-823.	1.9	19
50	El proceso de vitrificaciÃ³n/cristalizaciÃ³n controlada aplicado al reciclado de residuos industriales inorgÃ¡nicos. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2000, 39, 155-163.	0.9	19
51	Construction and demolition waste as recycled aggregate for environmentally friendly concrete paving. Environmental Science and Pollution Research, 2022, 29, 9826-9840.	2.7	18
52	Indentation properties of ZrO2â€“SiO2 coatings on glass substrates. Materials Research Bulletin, 2003, 38, 1635-1644.	2.7	15
53	Leaching behaviour of a glassy slag and derived glass ceramics from arc plasma vitrification of hospital wastes. Advances in Applied Ceramics, 2009, 108, 67-71.	0.6	15
54	Los materiales vitrocerÃ¡micos en la construcciÃ³n. Materiales De Construccion, 1996, 46, 91-106.	0.2	15

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55	Nucleation kinetics of crystalline phases from a kaolinitic body used in the processing of red ceramics. Applied Clay Science, 2011, 52, 165-170.	2.6	14
56	Effect of fluorine content on glass stability and the crystallisation mechanism for glasses in the SiO2â€“CaOâ€“K2Oâ€“F system. Journal of Non-Crystalline Solids, 2013, 378, 25-33.	1.5	14
57	Development of crystalline phases in sintered glass-ceramics from residual E-glass fibres. Ceramics International, 2014, 40, 2769-2776.	2.3	13
58	Crystallisation of nepheline-based glass frits through fast-firing process. Journal of Non-Crystalline Solids, 2017, 470, 53-60.	1.5	13
59	Recycled Aggregates from Construction and Demolition Waste in the Manufacture of Urban Pavements. Materials, 2021, 14, 6605.	1.3	11
60	Thermal behaviour and characterization of an iron aluminum arsenate mineral. Journal of Thermal Analysis and Calorimetry, 2004, 76, 903-911.	2.0	10
61	Understanding the Crystallization Mechanism of a Wollastonite Base Glass Using Isoconversional, <scp>IKP</scp> Methods and Master Plots. Journal of the American Ceramic Society, 2012, 95, 3441-3447.	1.9	10
62	Preliminary studies on the valorization of animal flour ash for the obtainment of active glasses. Ceramics International, 2014, 40, 5619-5628.	2.3	10
63	Manufacture of Ceramic Bodies by Using a Mud Waste from the TiO₂ Pigment Industry. Key Engineering Materials, 0, 663, 75-85.	0.4	10
64	Materiales vitrocerÃ¡micos del sistema MgO-Al₂O₃-SiO₂ a partir de ceniza de cÃ¡scara de arroz. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2011, 50, 201-206.	0.9	10
65	Phase evolution and microstructural characterization of sintered ceramic bodies from contaminated marine sediments. Journal of the European Ceramic Society, 2009, 29, 15-22.	2.8	8
66	Study of mullite formation in porcelain stoneware applying isoconversional and IKP methods. Ceramics International, 2010, 36, 2329-2335.	2.3	8
67	Crystal Growth of Fâ€Phlogopite from Glasses of the SiO₂â€“Al₂O₃â€“MgOâ€“K₂Oâ€“F System. Journal of the American Ceramic Society, 2016, 99, 484-491.	1.9	8
68	Thermal approach to evaluate the sinteringâ€“crystallization ability in a nephelineâ€–forsterite-based glass-ceramics. Journal of Thermal Analysis and Calorimetry, 2016, 123, 241-248.	2.0	8
69	Fundamentos y clasificaciÃ³n de las eflorescencias en ladrillos de construcciÃ³n. Materiales De Construccion, 2000, 50, 63-69.	0.2	8
70	Eco-efficient melting of glass frits by concentrated solar energy. Solar Energy, 2018, 174, 321-327.	2.9	7
71	Valorization of Al slag in the production of green ceramic tiles: Effect of experimental conditions on microstructure and crystalline phase composition. Journal of the American Ceramic Society, 2021, 104, 776-784.	1.9	7
72	Las escorias de la central tÃ©rmica GICC ELCOGAS como materia prima para la sÃntesis de materiales vitrocerÃ¡micos. Parte 2: SÃntesis y caracterizaciÃ³n de los materiales vitrocerÃ¡micos. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2006, 45, 28-32.	0.9	7

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73	MÃ¶ssbauer effect and X-ray distribution function analysis in complex Na2Oâ€“CaOâ€“ZnOâ€“Fe2O3â€“Al2O3â€“SiO2 glasses and glass-ceramics. Materials Research Bulletin, 1999, 34, 1107-1115.	2.7	6
74	Glass-Ceramic Material from the SiO₂-Al₂O₃-CaO System Using Sugar-Cane Bagasse Ash (SCBA). IOP Conference Series: Materials Science and Engineering, 2011, 18, 112020.	0.3	6
75	Waste and Solar Energy: An Eco-Friendly Way for Glass Melting. ChemEngineering, 2021, 5, 16.	1.0	6
76	Kinetic study of the transformation of sodalite to nepheline. Journal of the American Ceramic Society, 2022, 105, 4336-4347.	1.9	6
77	Influence of Unburned Carbon on Environmental-Technical Behaviour of Coal Fly Ash Fired Clay Bricks. Applied Sciences (Switzerland), 2022, 12, 3765.	1.3	6
78	Coal fly ash and steel slag valorisation throughout a vitrification process. International Journal of Environmental Science and Technology, 2018, 15, 1757-1766.	1.8	5
79	Recycling of industrial wastes for value-added applications in clay-based ceramic products: a global review (2015â€“19). , 2020, , 155-219.		5
80	PrevenciÃ³n y eliminaciÃ³n de eflorescencias en la restauraciÃ³n de ladrillos de construcciÃ³n. Materiales De Construccion, 2001, 51, 73-78.	0.2	5
81	Preparation and Characterization of New Glasses from the TeO2â€“CdOâ€“Al2O3â€“SiO2 System. Journal of Materials Science Letters, 1998, 17, 1099-1102.	0.5	4
82	Glass-forming ability and thermal stability of F-phlogopite-based glasses. Journal of Thermal Analysis and Calorimetry, 2015, 121, 843-853.	2.0	4
83	Devitrification behavior and preferred crystallization mechanism of glasses based on fluorrichterite (Na2CaMg5Si8O22F2) composition. Thermochimica Acta, 2015, 619, 32-40.	1.2	4
84	Surface and volume crystallization in fluorrichterite based glasses. Journal of Asian Ceramic Societies, 2020, 8, 642-652.	1.0	4
85	Modified Porcelainized Stoneware Tiles Obtained from Recycling of Granite and MSW Incinerator Fly Ashes. Key Engineering Materials, 2001, 206-213, 847-850.	0.4	3
86	Technical Characterization of Sintered-Glass Ceramics Derived from Glass Fibers Recovered by Pyrolysis. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	3
87	Management and Valorisation of Wastes and Co-products from the TiO2 Pigment Industry. Waste and Biomass Valorization, 2016, 7, 899-912.	1.8	3
88	Coeficiente de fragilidad como medida mÃ¡s representativa de la resistencia a la abrasiÃ³n de pavimentos cerÃ¡micos. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2003, 42, 163-167.	0.9	3
89	Microestructura de un material compuesto basado en una matriz de cemento reforzado con fibras de polipropileno. Materiales De Construccion, 2004, 54, 73-82.	0.2	3
90	Sustainable glasses in the SiO2â€“P2O5â€“CaOâ€“K2O system from waste and concentrated solar power. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2022, , .	0.9	3

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91	Sustainable Management of Salt Slag. Sustainability, 2022, 14, 4887.	1.6	3
92	Recent Advances in New Type of Glass-Ceramics Glazes (GCG) from Natural Raw Materials and by Recycling of Industrial Wastes. Key Engineering Materials, 2001, 206-213, 887-890.	0.4	2
93	Nucleation and crystallisation kinetics of a Na-fluorrichterite based glass by differential scanning calorimetry (DSC). Journal of Non-Crystalline Solids, 2012, 358, 2741-2748.	1.5	2
94	Influence of heating rate and mechanical activation on the reaction between kaolin and aluminium powder. Journal of the Australian Ceramic Society, 2019, 55, 135-144.	1.1	2
95	FricciÃ³n y desgaste de baldosas cerÃ¡micas de gres de monococciÃ³n y de gres porcelÃ¡nico. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2005, 44, 352-356.	0.9	2
96	Characterization of mullite/ZrO2 toughness ceramic materials microstructure by medium voltage analytical electron microscopy. Materials Characterization, 2000, 45, 117-123.	1.9	1
97	Iron Aluminium Silico-Phosphate Glasses Including U3O8. Materials Research Society Symposia Proceedings, 2009, 1193, 341.	0.1	1
98	Microwave Vitrification of Model Heavy Metals Carriers From Wastewaters Treatment. Materials Research Society Symposia Proceedings, 2009, 1193, 349.	0.1	1
99	La estructura de vidrios de alumino-silicato y de granito para la fabricaciÃ³n de materiales de construcciÃ³n vitrocerÃ¡micos de tipo petrÃºrgico. Materiales De Construccion, 2001, 51, 209-223.	0.2	1
100	CaracterizaciÃ³n estructural de vidrios con altos contenidos de Ã³xidos de hierro obtenidos a partir de un residuo de la hidrometalurgia del zinc. Revista De Metalurgia, 1997, 33, 317-323.	0.1	1
101	Glass Lightweight Aggregates from Glass Cullet and Mining and Food Industry Carbonate Waste. Materials, 2022, 15, 1223.	1.3	1
102	New Glasses and Glass-Ceramics by Recycling of Spanish Urban Incinerator Fly Ashes. Key Engineering Materials, 2002, 206-213, 883-886.	0.4	0
103	VinculaciÃ³n del Instituto Torroja a lo largo de su historia con la investigaciÃ³n en materiales cerÃ¡micos y vÃtreos. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2005, 44, 131-134.	0.9	0