

Joan Formosa

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.

52
papers

1,035
citations

18
h-index

30
g-index

54
ext. papers

1,214
ext. citations

5.5
avg, IF

4.54
L-index

#	Paper	IF	Citations
52	Alkali-Activated Binders Using Bottom Ash from Waste-to-Energy Plants and Aluminium Recycling Waste. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3840	2.6	7
51	Water treatment sludge as precursor in non-dehydroxylated kaolin-based alkali-activated cements. <i>Applied Clay Science</i> , 2021 , 204, 106032	5.2	7
50	Preliminary Study of New Sustainable, Alkali-Activated Cements Using the Residual Fraction of the Glass Cullet Recycling as Precursor. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3528	2.6	
49	Fabrication of sustainable magnesium phosphate cement micromortar using design of experiments statistical modelling: Valorization of ceramic-stone-porcelain containing waste as filler. <i>Ceramics International</i> , 2021 , 47, 10905-10917	5.1	2
48	Valorisation of water treatment sludge for lightweight aggregate production. <i>Construction and Building Materials</i> , 2021 , 269, 121335	6.7	6
47	Alkali-activated binders based on the coarse fraction of municipal solid waste incineration bottom ash. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2021 ,	1.9	3
46	Municipal Solid Waste Incineration Bottom Ash as Sole Precursor in the Alkali-Activated Binder Formulation. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4129	2.6	14
45	Stabilization Study of a Contaminated Soil with Metal(loid)s Adding Different Low-Grade MgO Degrees. <i>Sustainability</i> , 2020 , 12, 7340	3.6	2
44	Granular Material Development Applied in an Experimental Section for Civil Engineering Purposes. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6782	2.6	4
43	Municipal solid waste incineration bottom ash as alkali-activated cement precursor depending on particle size. <i>Journal of Cleaner Production</i> , 2020 , 242, 118443	10.3	26
42	Characterisation and partition of valuable metals from WEEE in weathered municipal solid waste incineration bottom ash, with a view to recovering. <i>Journal of Cleaner Production</i> , 2019 , 218, 61-68	10.3	18
41	Alkali-Activated Cements for TES Materials in BuildingsaEnvelops Formulated With Glass Cullet Recycling Waste and Microencapsulated Phase Change Materials. <i>Materials</i> , 2019 , 12,	3.5	5
40	Crushed Autoclaved Aerated Concrete (CAAC), a Potential Reactive Filter Medium for Enhancing Phosphorus Removal in Nature-Based SolutionsPreliminary Batch Studies. <i>Water (Switzerland)</i> , 2019 , 11, 1442	3	3
39	Cork as a sustainable carbon source for nature-based solutions treating hydroponic wastewaters - Preliminary batch studies. <i>Science of the Total Environment</i> , 2019 , 650, 267-276	10.2	15
38	Flame retardancy effect of combined ammonium polyphosphate and aluminium diethyl phosphinate in acrylonitrile-butadiene-styrene. <i>Polymer Degradation and Stability</i> , 2018 , 155, 208-219	4.7	19
37	Influence of MSWI bottom ash used as unbound granular material on the corrosion behaviour of reinforced concrete. <i>Journal of Material Cycles and Waste Management</i> , 2017 , 19, 124-133	3.4	2
36	Material characterization of the MSWI bottom ash as a function of particle size. Effects of glass recycling over time. <i>Science of the Total Environment</i> , 2017 , 581-582, 897-905	10.2	39

35	Magnesium phosphate cements formulated with low grade magnesium oxide incorporating phase change materials for thermal energy storage. <i>Construction and Building Materials</i> , 2017 , 155, 209-216	6.7	16
34	Use of municipal solid waste incineration bottom ash and crop by-product for producing lightweight aggregate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 251, 012126	0.4	8
33	APC fly ashes stabilized with Portland cement for further development of road sub-base aggregates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 251, 012124	0.4	1
32	APC Fly Ash Recycling: Development of a Granular Material from Laboratory to a Pilot Scale. <i>Waste and Biomass Valorization</i> , 2017 , 8, 1409-1419	3.2	7
31	Geopolymers based on the valorization of Municipal Solid Waste Incineration residues. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 251, 012125	0.4	5
30	Physical, thermal and mechanical study of MPC formulated with LG-MgO incorporating Phase Change Materials as admixture. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 251, 012024	0.4	2
29	MSWI bottom ash for thermal energy storage: An innovative and sustainable approach for its reutilization. <i>Renewable Energy</i> , 2016 , 99, 431-436	8.1	9
28	Magnesium phosphate cement formulated with low grade magnesium oxide with controlled porosity and low thermal conductivity as a function of admixture. <i>Ceramics International</i> , 2016 , 42, 15049-15056	5.1	12
27	Preliminary study of the mechanical and hygrothermal properties of hemp-magnesium phosphate cements. <i>Construction and Building Materials</i> , 2016 , 105, 62-68	6.7	39
26	Flue Gas Desulfurization. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2016 , 337-377	0.2	1
25	Epsomite as flame retardant treatment for wood: Preliminary study. <i>Construction and Building Materials</i> , 2016 , 126, 936-942	6.7	14
24	Desulfurization Performance of MgO Byproducts as a Function of Particle Size. <i>Energy & Fuels</i> , 2016 , 30, 2328-2335	4.1	6
23	Thermogravimetric study of a Phase Change Slurry: Effect of variable conditions. <i>Applied Thermal Engineering</i> , 2016 , 107, 329-338	5.8	2
22	Low-grade magnesium oxide by-products for environmental solutions: Characterization and geochemical performance. <i>Journal of Geochemical Exploration</i> , 2015 , 152, 134-144	3.8	17
21	Elastic modulus of a chemically bonded phosphate ceramic formulated with low-grade magnesium oxide determined by Nanoindentation. <i>Ceramics International</i> , 2015 , 41, 12137-12146	5.1	18
20	Synergistic effect of the parameters affecting wet flue gas desulfurization using magnesium oxides by-products. <i>Chemical Engineering Journal</i> , 2015 , 262, 268-277	14.7	26
19	Reutilization of MgO Byproducts from the Calcination of Natural Magnesite in Dry Desulfurization: A Closed-Loop Process. <i>Energy & Fuels</i> , 2015 , 29, 3845-3854	4.1	7
18	Magnesium Phosphate Cements formulated with a low-grade MgO by-product: Physico-mechanical and durability aspects. <i>Construction and Building Materials</i> , 2015 , 91, 150-157	6.7	55

17	Transposition of wet flue gas desulfurization using MgO by-products: From laboratory discontinuous batch reactor to pilot scrubber. <i>Fuel Processing Technology</i> , 2015 , 138, 30-36	7.2	10
16	Biogas upgrading using MSWI bottom ash: An integrated municipal solid waste management. <i>Renewable Energy</i> , 2015 , 80, 184-189	8.1	34
15	Wet flue gas desulfurization using alkaline agents. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	12
14	Thermal degradation and fire behaviour of thermal insulation materials based on food crop by-products. <i>Construction and Building Materials</i> , 2015 , 79, 34-39	6.7	40
13	Pilot-scale road subbase made with granular material formulated with MSWI bottom ash and stabilized APC fly ash: environmental impact assessment. <i>Journal of Hazardous Materials</i> , 2014 , 266, 132-140	12.8	43
12	Reutilization of low-grade magnesium oxides for flue gas desulfurization during calcination of natural magnesite: A closed-loop process. <i>Chemical Engineering Journal</i> , 2014 , 254, 63-72	14.7	19
11	Use of weathered and fresh bottom ash mix layers as a subbase in road constructions: environmental behavior enhancement by means of a retaining barrier. <i>Chemosphere</i> , 2014 , 117, 402-9	8.4	34
10	Aggregate material formulated with MSWI bottom ash and APC fly ash for use as secondary building material. <i>Waste Management</i> , 2013 , 33, 621-7	8.6	93
9	Hydration of a low-grade magnesium oxide. Lab-scale study. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 1702-1708	3.5	18
8	Interaction between low-grade magnesium oxide and boric acid in chemically bonded phosphate ceramics formulation. <i>Ceramics International</i> , 2012 , 38, 2483-2493	5.1	41
7	Improvement of passive fire protection in a gypsum panel by adding inorganic fillers: Experiment and theory. <i>Applied Thermal Engineering</i> , 2011 , 31, 3971-3978	5.8	16
6	Novel fire-protecting mortars formulated with magnesium by-products. <i>Cement and Concrete Research</i> , 2011 , 41, 191-196	10.3	27
5	Thermal study of low-grade magnesium hydroxide used as fire retardant and in passive fire protection. <i>Thermochimica Acta</i> , 2011 , 515, 43-50	2.9	32
4	Combined use of MSWI bottom ash and fly ash as aggregate in concrete formulation: environmental and mechanical considerations. <i>Journal of Hazardous Materials</i> , 2009 , 169, 643-50	12.8	148
3	Characterization of poly(ethylene-co-vinyl acetate) (EVA) filled with low grade magnesium hydroxide. <i>Polymer Degradation and Stability</i> , 2009 , 94, 57-60	4.7	36
2	Comparative Study of Magnesium By-Products and Vermiculite Formulations to Obtain Fire Resistant Mortars. <i>Materials Science Forum</i> , 2008 , 587-588, 898-902	0.4	6
1	Cementos quínicos formulados con subproductos de óxido de magnesio. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2008 , 47, 293-297	1.9	7