

Josep M Chimenos

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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.

108
papers

3,319
citations

32
h-index

54
g-index

111
ext. papers

3,764
ext. citations

6
avg, IF

5.25
L-index

#	Paper	IF	Citations
108	The role of additives on anaerobic digestion: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 58, 1486-1499	16.2	337
107	Characterization of the bottom ash in municipal solid waste incinerator. <i>Journal of Hazardous Materials</i> , 1999 , 64, 211-222	12.8	238
106	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
105	Removal of ammonium and phosphates from wastewater resulting from the process of cochineal extraction using MgO-containing by-product. <i>Water Research</i> , 2003 , 37, 1601-7	12.5	134
104	Thermal stability and flame retardancy of LDPE/EVA blends filled with synthetic hydromagnesite/aluminium hydroxide/montmorillonite and magnesium hydroxide/aluminium hydroxide/montmorillonite mixtures. <i>Polymer Degradation and Stability</i> , 2007 , 92, 1082-1087	4.7	105
103	Synthetic hydromagnesite as flame retardant. Evaluation of the flame behaviour in a polyethylene matrix. <i>Polymer Degradation and Stability</i> , 2006 , 91, 989-994	4.7	102
102	Short-term natural weathering of MSWI bottom ash. <i>Journal of Hazardous Materials</i> , 2000 , 79, 287-99	12.8	100
101	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
100	Short-term natural weathering of MSWI bottom ash as a function of particle size. <i>Waste Management</i> , 2003 , 23, 887-95	8.6	92
99	Ge extraction from gasification fly ash. <i>Fuel</i> , 2005 , 84, 1384-1392	7.1	73
98	Low-grade MgO used to stabilize heavy metals in highly contaminated soils. <i>Chemosphere</i> , 2004 , 56, 481-91	9.1	70
97	Legal situation and current practice of waste incineration bottom ash utilisation in Europe. <i>Waste Management</i> , 2020 , 102, 868-883	8.6	66
96	Ion flotation of germanium from fly ash aqueous leachates. <i>Chemical Engineering Journal</i> , 2006 , 118, 69-75	14.7	62
95	A proposal for quantifying the recyclability of materials. <i>Resources, Conservation and Recycling</i> , 2002 , 37, 39-53	11.9	62
94	Optimizing the APC residue washing process to minimize the release of chloride and heavy metals. <i>Waste Management</i> , 2005 , 25, 686-93	8.6	61
93	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
92	Speciation of major and selected trace elements in IGCC fly ash. <i>Fuel</i> , 2005 , 84, 1364-1371	7.1	54

91	Using the recyclability index of materials as a tool for design for disassembly. <i>Ecological Economics</i> , 2004 , 50, 195-200	5.6	53
90	Feasibility of coupling anaerobic digestion and struvite precipitation in the same reactor: Evaluation of different magnesium sources. <i>Chemical Engineering Journal</i> , 2015 , 270, 542-548	14.7	51
89	Formation and stability of HgCaO ₂ , a competing phase in the synthesis of Hg _{1-x} RexBa ₂ Ca ₂ Cu ₃ O _{8-3x} superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 306, 34-46	1.3	44
88	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
87	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
86	Reagent use efficiency with removal of nitrogen from pig slurry via struvite: A study on magnesium oxide and related by-products. <i>Water Research</i> , 2015 , 84, 286-94	12.5	40
85	Kinetic study of carbonation of MgO slurries. <i>Hydrometallurgy</i> , 1999 , 53, 155-167	4	40
84	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
83	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
82	Development and characterization of new shape-stabilized phase change material (PCM) Polymer including electrical arc furnace dust (EAFD), for acoustic and thermal comfort in buildings. <i>Energy and Buildings</i> , 2013 , 61, 210-214	7	39
81	Improving anaerobic digestion of pig manure by adding in the same reactor a stabilizing agent formulated with low-grade magnesium oxide. <i>Biomass and Bioenergy</i> , 2014 , 67, 243-251	5.3	37
80	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
79	Biogas upgrading using MSWI bottom ash: An integrated municipal solid waste management. <i>Renewable Energy</i> , 2015 , 80, 184-189	8.1	34
78	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
77	Procedure to Obtain Hydromagnesite from a MgO-Containing Residue. Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 3653-3658	3.9	33
76	Rapid sintering of weathered municipal solid waste incinerator bottom ash and rice husk for lightweight aggregate manufacturing and product properties. <i>Journal of Cleaner Production</i> , 2019 , 232, 713-721	10.3	32
75	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
74	Change of mechanical properties during short-term natural weathering of MSWI bottom ash. <i>Environmental Science & Technology</i> , 2005 , 39, 7725-30	10.3	31

73	IGCC fly ash valorisation. Optimisation of Ge and Ga recovery for an industrial application. <i>Fuel Processing Technology</i> , 2014 , 124, 222-227	7.2	30
72	Depth-sensing indentation applied to polymers: A comparison between standard methods of analysis in relation to the nature of the materials. <i>European Polymer Journal</i> , 2013 , 49, 4047-4053	5.2	28
71	Stabilization of Electrical Arc Furnace Dust with Low-Grade MgO Prior to Landfill. <i>Journal of Environmental Engineering, ASCE</i> , 2003 , 129, 275-279	2	28
70	Novel fire-protecting mortars formulated with magnesium by-products. <i>Cement and Concrete Research</i> , 2011 , 41, 191-196	10.3	27
69	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
68	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
67	Optimization of phosphate removal in anodizing aluminium wastewater. <i>Water Research</i> , 2006 , 40, 137-143	13.5	25
66	Effects of milling on the thermal stability of synthetic hydromagnesite. <i>Materials Research Bulletin</i> , 2007 , 42, 1010-1018	5.1	23
65	Permeable Reactive Barriers for the Removal of Heavy Metals: Lab-Scale Experiments with Low-Grade Magnesium Oxide. <i>Ground Water Monitoring and Remediation</i> , 2006 , 26, 142-152	1.4	23
64	Synthetic Hydromagnesite as Flame Retardant. A Study of the Stearic Coating Process. <i>Macromolecular Symposia</i> , 2005 , 221, 165-174	0.8	22
63	Gold cyanidation using hydrogen peroxide. <i>Hydrometallurgy</i> , 1999 , 52, 21-35	4	22
62	Electrochemistry of conventional gold cyanidation. <i>Electrochimica Acta</i> , 1999 , 44, 2625-2632	6.7	21
61	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
60	Kinetics of the reaction of gold cyanidation in the presence of a thallium(I) salt. <i>Hydrometallurgy</i> , 1997 , 44, 269-286	4	19
59	Copper and CuNi Alloys Substrates for HTS Coated Conductor Applications Protected from Oxidation. <i>Materials Science Forum</i> , 2003 , 426-432, 3511-3516	0.4	19
58	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
57	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
56	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

55	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
54	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
53	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
52	Review of the use of phase change materials (PCMs) in buildings with reinforced concrete structures. <i>Materiales De Construccion</i> , 2014 , 64, e031	1.8	15
51	The effect of magnesium as activator and inhibitor of anaerobic digestion. <i>Waste Management</i> , 2016 , 56, 137-42	8.6	15
50	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
49	Comparison of Microencapsulated Phase Change Materials Prepared at Laboratory Containing the Same Core and Different Shell Material. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 723	2.6	14
48	A possible recycling method for high grade steels EAFD in polymer composites. <i>Journal of Hazardous Materials</i> , 2009 , 171, 1139-44	12.8	14
47	Epsomite as flame retardant treatment for wood: Preliminary study. <i>Construction and Building Materials</i> , 2016 , 126, 936-942	6.7	14
46	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	5.1	12
45	Wet flue gas desulfurization using alkaline agents. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	12
44	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
43	Arsenic and antimony removal by oxidative aqueous leaching of IGCC fly ash during germanium extraction. <i>Fuel</i> , 2013 , 112, 450-458	7.1	10
42	Influence of the Electric Arc Furnace Dust in the physical and mechanical properties of EVA/polyethylene/butene blends. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4437-4444	5.3	10
41	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
40	Materials Selection for Superheater Tubes in Municipal Solid Waste Incineration Plants. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 3207-3214	1.6	9
39	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
38	Melt growth and superconducting properties of textured Ag-YBa/sub 2/Cu/sub 3/O/sub 7/ conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 1483-1486	1.8	8

37	The effect of temperature on mechanical properties of oxide scales formed on a carbon steel in a simulated municipal solid waste incineration environment. <i>Surface and Coatings Technology</i> , 2014 , 238, 51-57	4.4	7
36	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
35	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
34	Gold cyanidation with potassium persulfate in the presence of a thallium (I) salt. <i>Hydrometallurgy</i> , 2000 , 54, 185-193	4	7
33	Cementos quínicos formulados con subproductos de residuo de magnesio. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2008 , 47, 293-297	1.9	7
32	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
31	Water treatment sludge as precursor in non-dehydroxylated kaolin-based alkali-activated cements. <i>Applied Clay Science</i> , 2021 , 204, 106032	5.2	7
30	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
29	Preparation of Ultra-Fine CuO: Comparison of Polymer Gel Methods and Conventional Precipitation Processes. <i>Journal of Sol-Gel Science and Technology</i> , 2005 , 36, 11-17	2.3	6
28	Nitrogen recovery from pig slurry by struvite precipitation using a low-cost magnesium oxide. <i>Science of the Total Environment</i> , 2021 , 768, 144284	10.2	6
27	Desulfurization Performance of MgO Byproducts as a Function of Particle Size. <i>Energy & Fuels</i> , 2016 , 30, 2328-2335	4.1	6
26	Valorisation of water treatment sludge for lightweight aggregate production. <i>Construction and Building Materials</i> , 2021 , 269, 121335	6.7	6
25	Alkali-Activated Cements for TES Materials in Buildings—Envelops Formulated With Glass Cullet Recycling Waste and Microencapsulated Phase Change Materials. <i>Materials</i> , 2019 , 12,	3.5	5
24	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
23	Kinetic study of silver chloride dissolution in complexing media. <i>Hydrometallurgy</i> , 1996 , 40, 153-167	4	5
22	Granular Material Development Applied in an Experimental Section for Civil Engineering Purposes. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6782	2.6	4
21	Crushed Autoclaved Aerated Concrete (CAAC), a Potential Reactive Filter Medium for Enhancing Phosphorus Removal in Nature-Based Solutions—Preliminary Batch Studies. <i>Water (Switzerland)</i> , 2019 , 11, 1442	3	3
20	Trace metal partitioning in caustic calcined magnesite produced from natural magnesite. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012 , 47, 93-100	2.3	3

19	Problems in the Diagnosis of Contact Dermatitis by Tattooing. <i>Exogenous Dermatology</i> , 2002 , 1, 307-312		3
18	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
17	Environmental potential assessment of MSWI bottom ash-based alkali-activated binders. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125828	12.8	3
16	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
15	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
14	Opportunities and Barriers for Valorizing Waste Incineration Bottom Ash: Iberian Countries as a Case Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9690	2.6	2
13	Analysis of embodied energy and product lifespan: the potential embodied power sustainability indicator. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 1055-1068	4.3	2
12	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
11	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
10	Thermogravimetric study of a Phase Change Slurry: Effect of variable conditions. <i>Applied Thermal Engineering</i> , 2016 , 107, 329-338	5.8	2
9	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
8	Relations between the size distribution of a gold particle system and the leaching curve in cyanide solutions. <i>Hydrometallurgy</i> , 1994 , 36, 187-199	4	1
7	Flue Gas Desulfurization. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2016 , 337-377	0.2	1
6	Weathered bottom ash from municipal solid waste incineration: Alkaline activation for sustainable binders. <i>Construction and Building Materials</i> , 2022 , 327, 126983	6.7	1
5	Effect of Temperature and Humidity on the Synthesis of Alkali-Activated Binders Based on Bottom Ash from Municipal Waste Incineration. <i>Sustainability</i> , 2022 , 14, 1848	3.6	0
4	Potential of anaerobic co-fermentation in wastewater treatments plants: A review.. <i>Science of the Total Environment</i> , 2021 , 152498	10.2	0
3	Experimental comparison of the effect of temperature on the vibrational and morphological properties of NixCo3-xO4 nanostructures. <i>Materials Letters</i> , 2021 , 303, 130477	3.3	0
2	Assessment of Solid Wastes and By-Products as Solid Particle Materials for Concentrated Solar Power Plants. <i>Solar Rrl</i> , 2100884	7.1	

- 1 Preliminary Study of New Sustainable, Alkali-Activated Cements Using the Residual Fraction of the Glass Cullet Recycling as Precursor. *Applied Sciences (Switzerland)*, **2021**, 11, 3528 2.6