Ana Ines Fernandez

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.

182 papers	7,637 citations	45 h-index	81 g-index
186 ext. papers	8,944 ext. citations	6.9 avg, IF	6.34 L-index

#	Paper	IF	Citations
182	Low-strain effective Young's modulus model and validation for multi-layer vocal fold-based silicone specimens with inclusions. *Journal of Applied Physics*, **2022**, 131, 054701	2.5	
181	Novel sampling procedure and statistical analysis for the thermal characterization of ionic nanofluids. *Journal of Molecular Liquids*, **2022**, 347, 118316	6	
180	Thermal energy storage for electric vehicles at low temperatures: Concepts, systems, devices and materials. *Renewable and Sustainable Energy Reviews*, **2022**, 160, 112263	16.2	3
179	Effect of Nanoparticles on the Thermal Stability and Reaction Kinetics in Ionic Nanofluids. *Nanomaterials*, **2022**, 12, 1777	5.4	0
178	Thermal Energy Storage Materials (TESMs)—What Does It Take to Make Them Fly?. *Crystals*, **2021**, 11, 1276	2.3	5
177	Understanding the abnormal thermal behavior of nanofluids through infrared thermography and thermo-physical characterization. *Scientific Reports*, **2021**, 11, 4879	4.9	2
176	Thermal cycling test of solid particles to be used in concentrating solar power plants. *Solar Energy Materials and Solar Cells*, **2021**, 222, 110936	6.4	3
175	Viscoelastic characterization of seven laminated glass interlayer materials from static tests. *Construction and Building Materials*, **2021**, 279, 122503	6.7	5
174	Case study of pipeline failure analysis from two automated vacuum collection system. *Waste Management*, **2021**, 126, 643-651	8.6	0
173	Novel Shape-Stabilized Phase Change Material with Cascade Character: Synthesis, Performance and Shaping Evaluation. *Energies*, **2021**, 14, 2621	3.1	1
172	Why it's so hard? Exploring social barriers for the deployment of thermal energy storage in Spanish buildings. *Energy Research and Social Science*, **2021**, 76, 102057	7.7	1
171	Concentrating Solar Power Technologies: A Bibliometric Study of Past, Present and Future Trends in Concentrating Solar Power Research. *Frontiers in Mechanical Engineering*, **2021**, 7,	2.6	3
170	Benchmarking study of demolition wastes with different waste materials as sensible thermal energy storage. *Solar Energy Materials and Solar Cells*, **2021**, 219, 110777	6.4	10
169	Introduction to thermal energy storage systems **2021**, 1-33		3
168	Characterization and testing of solid particles to be used in CSP plants: Aging and fluidization tests. *Solar Energy Materials and Solar Cells*, **2021**, 219, 110793	6.4	13
167	Study of Thermal Stability and Characterization of the Biodiesel from Waste Frying Oil. *Environmental Science and Engineering*, **2021**, 1745-1751	0.2	
166	Degradation of Fatty Acid Phase-Change Materials (PCM): New Approach for Its Characterization. *Molecules*, **2021**, 26,	4.8	2

165	Characterization of Supplementary Cementitious Materials and Fibers to Be Implemented in High Temperature Concretes for Thermal Energy Storage (TES) Application. *Energies*, **2021**, 14, 5190	3.1	2
164	Characterization of demolition waste powder to be processed as sensible thermal energy storage material. *Solar Energy Materials and Solar Cells*, **2021**, 230, 111283	6.4	1
163	Hybrid 3 in 1 thermal energy storage system Outlook for a novel storage strategy. *Applied Energy*, **2020**, 274, 115024	10.7	12
162	Experimental and Computational Study of the Implementation of mPCM-Modified Gypsum Boards in a Test Enclosure. *Buildings*, **2020**, 10, 15	3.2	5
161	Effect of nanoparticles in molten salts MD simulations and experimental study. *Renewable Energy*, **2020**, 152, 208-216	8.1	17
160	Industrial carnallite-waste for thermochemical energy storage application. *Applied Energy*, **2020**, 265, 114738	10.7	8
159	Novel geopolymer for use as a sensible storage option in high temperature thermal energy storage systems **2020**,		3
158	Approach for the analysis of TES technologies aiming towards a circular economy: Case study of building-like cubicles. *Renewable Energy*, **2020**, 150, 589-597	8.1	14
157	Experimental study of different materials in fluidized beds with a beam-down solar reflector for CSP applications. *Solar Energy*, **2020**, 211, 683-699	6.8	6
156	Review on sensible thermal energy storage for industrial solar applications and sustainability aspects. *Solar Energy*, **2020**, 209, 135-169	6.8	77
155	Where is Thermal Energy Storage (TES) research going? A bibliometric analysis. *Solar Energy*, **2020** , 200, 37-50	6.8	32
154	Polymeric interlayer materials for laminated glass: A review. *Construction and Building Materials*, **2020**, 230, 116897	6.7	38
153	TES-PS10 postmortem tests: Carbon steel corrosion performance exposed to molten salts under relevant operation conditions and lessons learnt for commercial scale-up. *Journal of Energy Storage* , **2019**, 26, 100922	7.8	4
152	Review of solid particle materials for heat transfer fluid and thermal energy storage in solar thermal power plants. *Energy Storage*, **2019**, 1, e63	2.8	21
151	Development of new nano-enhanced phase change materials (NEPCM) to improve energy efficiency in buildings: Lab-scale characterization. *Energy and Buildings*, **2019**, 192, 75-83	7	26
150	Thermal conductivity measurement techniques for characterizing thermal energy storage materials A review. *Renewable and Sustainable Energy Reviews*, **2019**, 108, 32-52	16.2	60
149	Own-Synthetize Nanoparticles to Develop Nano-Enhanced Phase Change Materials (NEPCM) to Improve the Energy Efficiency in Buildings. *Molecules*, **2019**, 24,	4.8	7
148	Effect of the impurity magnesium nitrate in the thermal decomposition of the solar salt. *Solar Energy*, **2019**, 192, 186-192	6.8	8

147	Latent thermal energy storage for solar process heat applications at medium-high temperatures A review. *Solar Energy*, **2019**, 192, 3-34	6.8	66
146	Alkali-Activated Cements for TES Materials in Buildings' Envelops Formulated With Glass Cullet Recycling Waste and Microencapsulated Phase Change Materials. *Materials*, **2019**, 12,	3.5	5
145	Study on solar absorptance and thermal stability of solid particles materials used as TES at high temperature on different aging stages for CSP applications. *Solar Energy Materials and Solar Cells*, **2019**, 201, 110088	6.4	10
144	Microencapsulation of Phase Change Materials **2019**, 375-403		
143	Cork as a sustainable carbon source for nature-based solutions treating hydroponic wastewaters - Preliminary batch studies. *Science of the Total Environment*, **2019**, 650, 267-276	10.2	15
142	Materials Selection for Thermal Energy Storage Applications Case Studies. *Green Energy and Technology*, **2019**, 55-66	0.6	1
141	Experimental Methods for the Characterization of Materials for Latent Thermal Energy Storage. *Green Energy and Technology*, **2019**, 89-101	0.6	1
140	Benchmarking of useful phase change materials for a building application. *Energy and Buildings*, **2019**, 182, 45-50	7	35
139	Life cycle costing as a bottom line for the life cycle sustainability assessment in the solar energy sector: A review. *Solar Energy*, **2019**, 192, 238-262	6.8	26
138	New formulation and characterization of enhanced bulk-organic phase change materials. *Energy and Buildings*, **2018**, 167, 38-48	7	14
137	Steam-PCM heat exchanger design and materials optimization by using Cr-Mo alloys. *Solar Energy Materials and Solar Cells*, **2018**, 178, 249-258	6.4	2
136	High temperature systems using solid particles as TES and HTF material: A review. *Applied Energy*, **2018**, 213, 100-111	10.7	41
135	Comparison of past projections of global and regional primary and final energy consumption with historical data. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 681-688	16.2	22
134	Thermomechanical testing under operating conditions of A516Gr70 used for CSP storage tanks. *Solar Energy Materials and Solar Cells*, **2018**, 174, 509-514	6.4	5
133	Influence of nanoparticle morphology and its dispersion ability regarding thermal properties of water used as phase change material. *Applied Thermal Engineering*, **2018**, 128, 121-126	5.8	21
132	Materials for Phase Change Material at High Temperature **2018**, 195-230		2
131	Study of the Thermal Properties and the Fire Performance of Flame Retardant-Organic PCM in Bulk Form. *Materials*, **2018**, 11,	3.5	13
130	Corrosion of AISI316 as containment material for latent heat thermal energy storage systems based on carbonates. *Solar Energy Materials and Solar Cells*, **2018**, 186, 1-8	6.4	8

129	Trends in penetration and ownership of household appliances. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 4044-4059	16.2	10
128	Review of Reactors with Potential Use in Thermochemical Energy Storage in Concentrated Solar Power Plants. *Energies*, **2018**, 11, 2358	3.1	41
127	Empirical equations for viscosity and specific heat capacity determination of fatty acids. *Journal of Energy Storage*, **2017**, 10, 20-27	7.8	11
126	Materials selection for thermal energy storage systems in parabolic trough collector solar facilities using high chloride content nitrate salts. *Solar Energy Materials and Solar Cells*, **2017**, 163, 134-147	6.4	23
125	New proposed methodology for specific heat capacity determination of materials for thermal energy storage (TES) by DSC. *Journal of Energy Storage*, **2017**, 11, 1-6	7.8	60
124	The connection between the heat storage capability of PCM as a material property and their performance in real scale applications. *Journal of Energy Storage*, **2017**, 13, 35-39	7.8	27
123	Characterization of wastes based on inorganic double salt hydrates as potential thermal energy storage materials. *Solar Energy Materials and Solar Cells*, **2017**, 170, 149-159	6.4	39
122	Empirical equation to estimate viscosity of paraffin. *Journal of Energy Storage*, **2017**, 11, 154-161	7.8	11
121	Empirical equations for viscosity and specific heat capacity determination of paraffin PCM and fatty acid PCM. *IOP Conference Series: Materials Science and Engineering*, **2017**, 251, 012114	0.4	2
120	PCM/wood composite to store thermal energy in passive building envelopes. *IOP Conference Series: Materials Science and Engineering*, **2017**, 251, 012111	0.4	15
119	Considerations for the use of metal alloys as phase change materials for high temperature applications. *Solar Energy Materials and Solar Cells*, **2017**, 171, 275-281	6.4	72
118	Ionic compounds derived from crude glycerol: Thermal energy storage capability evaluation. *Renewable Energy*, **2017**, 114, 629-637	8.1	7
117	Supercritical CO2 as heat transfer fluid: A review. *Applied Thermal Engineering*, **2017**, 125, 799-810	5.8	119
116	Materials selection of steam-phase change material (PCM) heat exchanger for thermal energy storage systems in direct steam generation facilities. *Solar Energy Materials and Solar Cells*, **2017**, 159, 526-535	6.4	21
115	Thermochemical energy storage by consecutive reactions for higher efficient concentrated solar power plants (CSP): Proof of concept. *Applied Energy*, **2017**, 185, 836-845	10.7	37
114	Phase Change Material Selection for Thermal Processes Working under Partial Load Operating Conditions in the Temperature Range between 120 and 200 °C. *Applied Sciences (Switzerland)*, **2017**, 7, 722	2.6	25
113	Comparison of Microencapsulated Phase Change Materials Prepared at Laboratory Containing the Same Core and Different Shell Material. *Applied Sciences (Switzerland)*, **2017**, 7, 723	2.6	14
112	In situ thermal and acoustic performance and environmental impact of the introduction of a shape-stabilized PCM layer for building applications. *Renewable Energy*, **2016**, 85, 281-286	8.1	35

111	MSWI bottom ash for thermal energy storage: An innovative and sustainable approach for its reutilization. *Renewable Energy*, **2016**, 99, 431-436	8.1	9
110	Thermal storage in a MW scale. Molten salt solar thermal pilot facility: Plant description and commissioning experiences. *Renewable Energy*, **2016**, 99, 852-866	8.1	32
109	Influence of alkaline chlorides on thermal energy storage properties of bischofite. *International Journal of Energy Research*, **2016**, 40, 1556-1563	4.5	7
108	Use of multi-layered PCM gypsums to improve fire response. Physical, thermal and mechanical characterization. *Energy and Buildings*, **2016**, 127, 1-9	7	21
107	Corrosion testing device for in-situ corrosion characterization in operational molten salts storage tanks: A516 Gr70 carbon steel performance under molten salts exposure. *Solar Energy Materials and Solar Cells*, **2016**, 157, 383-392	6.4	51
106	Advances in the valorization of waste and by-product materials as thermal energy storage (TES) materials. *Renewable and Sustainable Energy Reviews*, **2016**, 59, 763-783	16.2	83
105	Types, methods, techniques, and applications for microencapsulated phase change materials (MPCM): A review. *Renewable and Sustainable Energy Reviews*, **2016**, 53, 1059-1075	16.2	286
104	Review of technology: Thermochemical energy storage for concentrated solar power plants. *Renewable and Sustainable Energy Reviews*, **2016**, 60, 909-929	16.2	218
103	Health hazard, cycling and thermal stability as key parameters when selecting a suitable phase change material (PCM). *Thermochimica Acta*, **2016**, 627-629, 39-47	2.9	41
102	Mechanical response evaluation of microcapsules from different slurries. *Renewable Energy*, **2016**, 85, 732-739	8.1	13
101	Experimental Evaluation of a Paraffin as Phase Change Material for Thermal Energy Storage in Laboratory Equipment and in a Shell-and-Tube Heat Exchanger. *Applied Sciences (Switzerland)*, **2016** , 6, 112	2.6	33
100	Industrial waste materials and by-products as thermal energy storage (TES) materials: A review **2016**,		3
99	Molten salt facilities, lessons learnt at pilot plant scale to guarantee commercial plants; heat losses evaluation and correction. *Renewable Energy*, **2016**, 94, 175-185	8.1	28
98	Single layer mortars with microencapsulated PCM: Study of physical and thermal properties, and fire behaviour. *Energy and Buildings*, **2016**, 111, 393-400	7	35
97	Reduction of the subcooling of bischofite with the use of nucleatings agents. *Solar Energy Materials and Solar Cells*, **2016**, 157, 1011-1018	6.4	28
96	Study of corrosion by Dynamic Gravimetric Analysis (DGA) methodology. Influence of chloride content in solar salt. *Solar Energy Materials and Solar Cells*, **2016**, 157, 526-532	6.4	21
95	IEA SHC Task 42 / ECES Annex 29 WG A1: Engineering and Processing of PCMs, TCMs and Sorption Materials. *Energy Procedia*, **2016**, 91, 207-217	2.3	13
94	Thermogravimetric study of a Phase Change Slurry: Effect of variable conditions. *Applied Thermal Engineering*, **2016**, 107, 329-338	5.8	2

93	Embodied energy and cost of high temperature thermal energy storage systems for use with concentrated solar power plants. *Applied Energy*, **2016**, 180, 586-597	10.7	49
92	Review on the methodology used in thermal stability characterization of phase change materials. *Renewable and Sustainable Energy Reviews*, **2015**, 50, 665-685	16.2	82
91	Key performance indicators in thermal energy storage: Survey and assessment. *Renewable Energy*, **2015**, 83, 820-827	8.1	48
90	CO 2 mitigation accounting for Thermal Energy Storage (TES) case studies. *Applied Energy*, **2015**, 155, 365-377	10.7	41
89	New database to select phase change materials: Chemical nature, properties, and applications. *Journal of Energy Storage*, **2015**, 3, 18-24	7.8	39
88	Unconventional experimental technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties. *Renewable and Sustainable Energy Reviews*, **2015**, 43, 1399-1414	16.2	65
87	Effect of the filler on the nanomechanical properties of polypropylene in contact with paraffinic phase change material. *European Polymer Journal*, **2015**, 63, 29-36	5.2	7
86	Unconventional experimental technologies used for phase change materials (PCM) characterization: part 2 – morphological and structural characterization, physico-chemical stability and mechanical properties. *Renewable and Sustainable Energy Reviews*, **2015**, 43, 1415-1426	16.2	22
85	Composite gypsum containing fatty-ester PCM to be used as constructive system: Thermophysical characterization of two shape-stabilized formulations. *Energy and Buildings*, **2015**, 86, 190-193	7	13
84	Heating and cooling energy trends and drivers in buildings. *Renewable and Sustainable Energy Reviews*, **2015**, 41, 85-98	16.2	464
83	Lithium in thermal energy storage: A state-of-the-art review. *Renewable and Sustainable Energy Reviews*, **2015**, 42, 1106-1112	16.2	77
82	Corrosion of metals and salt hydrates used for thermochemical energy storage. *Renewable Energy*, **2015**, 75, 519-523	8.1	64
81	PCM Storage **2015**, 1-23		6
80	Thermal Energy Storage Materials Challenges and Availability **2015**, 1-11		
79	TES Materials: Embodied Energy and CO2 Footprint **2015**, 1-9		
78	Study of Fresh and Hardening Process Properties of Gypsum with Three Different PCM Inclusion Methods. *Materials*, **2015**, 8, 6589-6596	3.5	5
77	Comparison of phase change slurries: Physicochemical and thermal properties. *Energy*, **2015**, 87, 223-227	7.9	21
76	Preparation and exhaustive characterization of paraffin or palmitic acid microcapsules as novel phase change material. *Solar Energy*, **2015**, 112, 300-309	6.8	60

75	Thermophysical characterization and thermal cycling stability of two TCM: CaCl2 and zeolite. *Applied Energy*, **2015**, 137, 726-730	10.7	41
74	Preparation and Characterization of Microencapsulated Phase Change Materials for Use in Building Applications. *Materials*, **2015**, 9,	3.5	25
73	Use of PCM□olymer composite dense sheet including EAFD in constructive systems. *Energy and Buildings*, **2014**, 68, 1-6	7	14
72	Materials Selection for Superheater Tubes in Municipal Solid Waste Incineration Plants. *Journal of Materials Engineering and Performance*, **2014**, 23, 3207-3214	1.6	9
71	Physicochemical and Thermal Study of a MPCM of PMMA Shell and Paraffin Wax as a Core. *Energy Procedia*, **2014**, 48, 347-354	2.3	17
70	Investigating greenhouse challenge from growing trends of electricity consumption through home appliances in buildings. *Renewable and Sustainable Energy Reviews*, **2014**, 36, 188-193	16.2	44
69	New Database on Phase Change Materials for Thermal Energy Storage in Buildings to Help PCM Selection. *Energy Procedia*, **2014**, 57, 2408-2415	2.3	26
68	Experimental characterization of a solid industrial by-product as material for high temperature sensible thermal energy storage (TES). *Applied Energy*, **2014**, 113, 1261-1268	10.7	64
67	Thermophysical Characterization of Sorption TCM. *Energy Procedia*, **2014**, 48, 273-279	2.3	8
66	Review of the use of phase change materials (PCMs) in buildings with reinforced concrete structures. *Materiales De Construccion*, **2014**, 64, e031	1.8	15
65	Optimization of three new compositions of stabilized rammed earth incorporating PCM: Thermal properties characterization and LCA. *Construction and Building Materials*, **2013**, 47, 872-878	6.7	29
64	Improvement of the thermal inertia of building materials incorporating PCM. Evaluation in the macroscale. *Applied Energy*, **2013**, 109, 428-432	10.7	62
63	Development and characterization of new shape-stabilized phase change material (PCM)□olymer including electrical arc furnace dust (EAFD), for acoustic and thermal comfort in buildings. *Energy and Buildings*, **2013**, 61, 210-214	7	39
62	Depth-sensing indentation applied to polymers: A comparison between standard methods of analysis in relation to the nature of the materials. *European Polymer Journal*, **2013**, 49, 4047-4053	5.2	28
61	Thermal behaviour of d-mannitol when used as PCM: Comparison of results obtained by DSC and in a thermal energy storage unit at pilot plant scale. *Applied Energy*, **2013**, 111, 1107-1113	10.7	46
60	Effect of d-mannitol polymorphism in its thermal energy storage capacity when it is used as PCM. *Solar Energy*, **2013**, 94, 344-351	6.8	45
59	Review of the T-history method to determine thermophysical properties of phase change materials (PCM). *Renewable and Sustainable Energy Reviews*, **2013**, 26, 425-436	16.2	113
58	Affordable construction towards sustainable buildings: review on embodied energy in building materials. *Current Opinion in Environmental Sustainability*, **2013**, 5, 229-236	7.2	36

57	Corrosion of metal and polymer containers for use in PCM cold storage. *Applied Energy*, **2013**, 109, 449-453	10.7	59
56	Physico-chemical and mechanical properties of microencapsulated phase change material. *Applied Energy*, **2013**, 109, 441-448	10.7	58
55	Comparison of three different devices available in Spain to test thermal properties of building materials including phase change materials. *Applied Energy*, **2013**, 109, 421-427	10.7	55
54	Experimental study on the selection of phase change materials for low temperature applications. *Renewable Energy*, **2013**, 57, 130-136	8.1	37
53	Requirements to consider when choosing a thermochemical material for solar energy storage. *Solar Energy*, **2013**, 97, 398-404	6.8	39
52	Study on differential scanning calorimetry analysis with two operation modes and organic and inorganic phase change material (PCM). *Thermochimica Acta*, **2013**, 553, 23-26	2.9	103
51	Aggregate material formulated with MSWI bottom ash and APC fly ash for use as secondary building material. *Waste Management*, **2013**, 33, 621-7	8.6	93
50	Low carbon and low embodied energy materials in buildings: A review. *Renewable and Sustainable Energy Reviews*, **2013**, 23, 536-542	16.2	201
49	Arsenic and antimony removal by oxidative aqueous leaching of IGCC fly ash during germanium extraction. *Fuel*, **2013**, 112, 450-458	7.1	10
48	Phase-Change Materials Use in Nearly Zero Energy Building Refurbishment **2013**, 537-553		1
47	Parameters to take into account when developing a new thermochemical energy storage system. *Energy Procedia*, **2012**, 30, 380-387	2.3	19
46	Stabilized rammed earth incorporating PCM: Optimization and improvement of thermal properties and Life Cycle Assessment. *Energy Procedia*, **2012**, 30, 461-470	2.3	21
45	Selection and characterization of recycled materials for sensible thermal energy storage. *Solar Energy Materials and Solar Cells*, **2012**, 107, 131-135	6.4	93
44	Hydration of a low-grade magnesium oxide. Lab-scale study. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 1702-1708	3.5	18
43	Use of rubber crumbs as drainage layer in experimental green roofs. *Building and Environment*, **2012**, 48, 101-106	6.5	34
42	Mechanical characterization at nanometric scale for heterogeneous graphite–salt phase change materials with a statistical approach. *Ceramics International*, **2012**, 38, 401-409	5.1	7
41	Trace metal partitioning in caustic calcined magnesia produced from natural magnesite. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2012**, 47, 93-100	2.3	3
40	New methodology developed for the differential scanning calorimetry analysis of polymeric matrixes incorporating phase change materials. *Measurement Science and Technology*, **2012**, 23, 085606	2	20

39	New equipment for testing steady and transient thermal performance of multilayered building envelopes with PCM. *Energy and Buildings*, **2011**, 43, 3704-3709	7	29
38	Compatibility of plastic with phase change materials (PCM). *International Journal of Energy Research*, **2011**, 35, 765-771	4.5	26
37	Influence of the Electric Arc Furnace Dust in the physical and mechanical properties of EVA/Polyethylene/Butene blends. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 4437-4444	5.3	10
36	Materials used as PCM in thermal energy storage in buildings: A review. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 1675-1695	16.2	1068
35	Effect of microencapsulated phase change material in sandwich panels. *Renewable Energy*, **2010**, 35, 2370-2374	8.1	82
34	Experimental study on the performance of insulation materials in Mediterranean construction. *Energy and Buildings*, **2010**, 42, 630-636	7	154
33	Selection of materials with potential in sensible thermal energy storage. *Solar Energy Materials and Solar Cells*, **2010**, 94, 1723-1729	6.4	218
32	Effect of a dodecylsulfate-modified magnesium/aluminum layered double hydroxide on the morphology and fracture of polystyrene and poly(styrene-co-acrylonitrile) composites. *Journal of Applied Polymer Science*, **2009**, 111, 2574-2583	2.9	16
31	Influence of EMAA compatibilizer on the structure and properties of HDPE/hydrotalcite nanocomposites prepared by melt mixing. *Journal of Applied Polymer Science*, **2009**, 113, 950-958	2.9	17
30	A possible recycling method for high grade steels EAFD in polymer composites. *Journal of Hazardous Materials*, **2009**, 171, 1139-44	12.8	14
29	Characterization of poly(ethylene-co-vinyl acetate) (EVA) filled with low grade magnesium hydroxide. *Polymer Degradation and Stability*, **2009**, 94, 57-60	4.7	36
28	Cementos químicos formulados con subproductos de óxido de magnesio. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2008**, 47, 293-297	1.9	7
27	Effects of milling on the thermal stability of synthetic hydromagnesite. *Materials Research Bulletin*, **2007**, 42, 1010-1018	5.1	23
26	Comparative study of electrical and mechanical properties of fire-refined and electrolytically refined cold-drawn copper wires. *Journal of Materials Science*, **2007**, 42, 7745-7749	4.3	3
25	Thermal stability and flame retardancy of LDPE/EVA blends filled with synthetic hydromagnesite/aluminium hydroxide/montmorillonite and magnesium hydroxide/aluminium hydroxide/montmorillonite mixtures. *Polymer Degradation and Stability*, **2007**, 92, 1082-1087	4.7	105
24	Ion flotation of germanium from fly ash aqueous leachates. *Chemical Engineering Journal*, **2006**, 118, 69-75	14.7	62
23	Polypropylene/clay nanocomposites: Combined effects of clay treatment and compatibilizer polymers on the structure and properties. *Journal of Applied Polymer Science*, **2006**, 102, 1213-1223	2.9	30
22	Optimization of phosphate removal in anodizing aluminium wastewater. *Water Research*, **2006**, 40, 137-43	12.5	25

21	Permeable Reactive Barriers for the Removal of Heavy Metals: Lab-Scale Experiments with Low-Grade Magnesium Oxide. *Ground Water Monitoring and Remediation*, **2006**, 26, 142-152	1.4	23
20	Synthetic hydromagnesite as flame retardant. Evaluation of the flame behaviour in a polyethylene matrix. *Polymer Degradation and Stability*, **2006**, 91, 989-994	4.7	102
19	Change of mechanical properties during short-term natural weathering of MSWI bottom ash. *Environmental Science & Technology*, **2005**, 39, 7725-30	10.3	31
18	Speciation of major and selected trace elements in IGCC fly ash. *Fuel*, **2005**, 84, 1364-1371	7.1	54
17	Ge extraction from gasification fly ash. *Fuel*, **2005**, 84, 1384-1392	7.1	73
16	Optimizing the APC residue washing process to minimize the release of chloride and heavy metals. *Waste Management*, **2005**, 25, 686-93	8.6	61
15	Preparation and characterization of silver-filled polyester matrix composites. *Journal of Materials Science*, **2005**, 40, 2713-2715	4.3	1
14	Preparation of Ultra-Fine CuO: Comparison of Polymer Gel Methods and Conventional Precipitation Processes. *Journal of Sol-Gel Science and Technology*, **2005**, 36, 11-17	2.3	6
13	Synthetic Hydromagnesite as Flame Retardant. A Study of the Stearic Coating Process. *Macromolecular Symposia*, **2005**, 221, 165-174	0.8	22
12	Low-grade MgO used to stabilize heavy metals in highly contaminated soils. *Chemosphere*, **2004**, 56, 481-91	3.4	70
11	Exploring the polyvinyl alcohol method for preparing cuprates and manganites. *Journal of the European Ceramic Society*, **2003**, 23, 1369-1373	6	9
10	Short-term natural weathering of MSWI bottom ash as a function of particle size. *Waste Management*, **2003**, 23, 887-95	8.6	92
9	Removal of ammonium and phosphates from wastewater resulting from the process of cochineal extraction using MgO-containing by-product. *Water Research*, **2003**, 37, 1601-7	12.5	134
8	Stabilization of Electrical Arc Furnace Dust with Low-Grade MgO Prior to Landfill. *Journal of Environmental Engineering, ASCE*, **2003**, 129, 275-279	2	28
7	Problems in the Diagnosis of Contact Dermatitis by Tattooing. *Exogenous Dermatology*, **2002**, 1, 307-312		3
6	A proposal for quantifying the recyclability of materials. *Resources, Conservation and Recycling*, **2002**, 37, 39-53	11.9	62
5	Short-term natural weathering of MSWI bottom ash. *Journal of Hazardous Materials*, **2000**, 79, 287-99	12.8	100
4	Procedure to Obtain Hydromagnesite from a MgO-Containing Residue. Kinetic Study. *Industrial & Engineering Chemistry Research*, **2000**, 39, 3653-3658	3.9	33

3	Kinetic study of carbonation of MgO slurries. *Hydrometallurgy*, **1999**, 53, 155-167	4	40
2	Assessment of Solid Wastes and By-Products as Solid Particle Materials for Concentrated Solar Power Plants. *Solar Rrl*,2100884	7.1	
1	New shape-stabilized phase change materials obtained by single-screw extruder. *Energy Storage*,e268	2.8	0