

Ana M LÃ³pez-SabirÃ³n

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,112
citations

394421

19
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

1433
citing authors

#	ARTICLE	IF	CITATIONS
1	Uses of alternative fuels and raw materials in the cement industry as sustainable waste management options. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 23, 242-260.	16.4	230
2	Evaluation of the steel slag incorporation as coarse aggregate for road construction: technical requirements and environmental impact assessment. <i>Journal of Cleaner Production</i> , 2016, 130, 175-186.	9.3	127
3	Utilization of Ladle Furnace slag from a steelwork for laboratory scale production of Portland cement. <i>Construction and Building Materials</i> , 2015, 94, 837-843.	7.2	73
4	High-temperature PCM-based thermal energy storage for industrial furnaces installed in energy-intensive industries. <i>Energy</i> , 2019, 173, 1030-1040.	8.8	72
5	Design and development of the cooling system of a 2ÃkW nominal power open-cathode polymer electrolyte fuel cell stack. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7289-7298.	7.1	67
6	Carbon footprint of a thermal energy storage system using phase change materials for industrial energy recovery to reduce the fossil fuel consumption. <i>Applied Energy</i> , 2014, 135, 616-624.	10.1	53
7	Hybrid diagnosis to characterise the energy and environmental enhancement of photovoltaic modules using smart materials. <i>Energy</i> , 2016, 101, 174-189.	8.8	53
8	Life Cycle Analysis of Energy Production from Food Waste through Anaerobic Digestion, Pyrolysis and Integrated Energy System. <i>Sustainability</i> , 2017, 9, 1804.	3.2	52
9	Phase change material applications in buildings: An environmental assessment for some Spanish climate severities. <i>Science of the Total Environment</i> , 2013, 444, 16-25.	8.0	47
10	Implementation of PEF Treatment at Real-Scale Tomatoes Processing Considering LCA Methodology as an Innovation Strategy in the Agri-Food Sector. <i>Sustainability</i> , 2018, 10, 979.	3.2	41
11	Lightweight automotive components based on nanodiamond-reinforced aluminium alloy: A technical and environmental evaluation. <i>Diamond and Related Materials</i> , 2019, 92, 174-186.	3.9	30
12	Retrofitting strategies for improving the energy and environmental efficiency in industrial furnaces: A case study in the aluminium sector. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1813-1822.	16.4	29
13	Multiple-Criteria Decision Analysis and characterisation of phase change materials for waste heat recovery at high temperature for sustainable energy-intensive industry. <i>Materials and Design</i> , 2020, 186, 108215.	7.0	29
14	Technical and environmental evaluation of a new high performance material based on magnesium alloy reinforced with submicrometre-sized TiC particles to develop automotive lightweight components and make transport sector more sustainable. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2549-2564.	5.8	23
15	Environmental Assessment of Electrochemical Energy Storage Device Manufacturing to Identify Drivers for Attaining Goals of Sustainable Materials 4.0. <i>Sustainability</i> , 2020, 12, 342.	3.2	23
16	Environmental profile of latent energy storage materials applied to industrial systems. <i>Science of the Total Environment</i> , 2014, 473-474, 565-575.	8.0	22
17	Environmental analysis for identifying challenges to recover used reinforced refractories in industrial furnaces. <i>Journal of Cleaner Production</i> , 2015, 88, 242-253.	9.3	21
18	Energy and resource efficiency of electroporation-assisted extraction as an emerging technology towards a sustainable bio-economy in the agri-food sector. <i>Journal of Cleaner Production</i> , 2019, 233, 1123-1132.	9.3	21

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19	Integration of environmental indicators in the optimization of industrial energy management using phase change materials. <i>Energy Conversion and Management</i> , 2015, 104, 67-77.	9.2	20
20	Accumulation of De-Icing Salt and Leaching in Spanish Soils Surrounding Roadways. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1498.	2.6	20
21	Decision Support System of Innovative High-Temperature Latent Heat Storage for Waste Heat Recovery in the Energy-Intensive Industry. <i>Energies</i> , 2021, 14, 365.	3.1	16
22	Battery Manufacturing Resource Assessment to Minimise Component Production Environmental Impacts. <i>Sustainability</i> , 2020, 12, 6840.	3.2	15
23	Refuse derived fuel (RDF) plasma torch gasification as a feasible route to produce low environmental impact syngas for the cement industry. <i>Waste Management and Research</i> , 2015, 33, 715-722.	3.9	12
24	Multicriteria Analysis for Retrofitting of Natural Gas Melting and Heating Furnaces for Sustainable Manufacturing and Industry 4.0. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	12
25	Response to the comments on “Experimental study of the pressure drop in the cathode side of air-forced open-cathode proton exchange membrane fuel cells” by Dejan Brkić. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10965.	7.1	3
26	Exergy transfer principles of microwavable materials under electromagnetic effects. <i>Materials Today Communications</i> , 2021, 27, 102313.	1.9	1
27	Thermal Storage Materials for Enhancing Indoor-Dwelling Temperature Conditions. <i>Advanced Structured Materials</i> , 2013, , 171-188.	0.5	0