

Stephania Doppiu

List of Publications by Year in descending order

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42
papers

1,801
citations

393982

19
h-index

276539

41
g-index

43
all docs

43
docs citations

43
times ranked

1685
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Kinetic Model for the Redox Reactions of Co _{2.4} Ni _{0.6} O ₄ and SiO ₂ /Co _{2.4} Ni _{0.6} O ₄ Oxides for Thermochemical Energy Storage. <i>Materials</i> , 2022, 15, 3695.	1.3	4
2	Development and stabilization of Co _{2.4} Ni _{0.6} O ₄ material for long-term thermochemical energy storage. <i>Journal of Energy Storage</i> , 2022, 52, 104876.	3.9	4
3	Li ₄ (OH) ₃ Br/MgO shape stabilized composite as novel high temperature thermal energy storage material. <i>Journal of Energy Storage</i> , 2022, 52, 104921.	3.9	0
4	Tailored transition temperature plastic crystals with enhanced thermal energy storage capacity. <i>Solar Energy Materials and Solar Cells</i> , 2021, 220, 110848.	3.0	19
5	Li ₄ (OH) ₃ Br-Based Shape Stabilized Composites for High-Temperature TES Applications: Selection of the Most Convenient Supporting Material. <i>Nanomaterials</i> , 2021, 11, 1279.	1.9	4
6	Experimental Investigations on Electric-Field-Induced Crystallization in Erythritol. <i>Materials</i> , 2021, 14, 5110.	1.3	5
7	Development of Co _{3-x} Ni _x O ₄ materials for thermochemical energy storage at lower red-ox temperature. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111194.	3.0	16
8	Study of peritectic compound Li ₄ (OH) ₃ Br for high temperature thermal energy storage in solar power applications. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111259.	3.0	5
9	NPG-TRIS Thermal Storage System. Quantification of the Limiting Processes: Sublimation and Water Adsorption. <i>Crystals</i> , 2021, 11, 1200.	1.0	1
10	Study of the Phase Transitions in the Binary System NPG-TRIS for Thermal Energy Storage Applications. <i>Materials</i> , 2020, 13, 1162.	1.3	15
11	The Li ₂ SO ₄ -Na ₂ SO ₄ System for Thermal Energy Storage. <i>Materials</i> , 2019, 12, 3658.	1.3	3
12	Neopentyl Glycol as Active Supporting Media in Shape-Stabilized PCMs. <i>Materials</i> , 2019, 12, 3169.	1.3	17
13	Solid-State Reactions for the Storage of Thermal Energy. <i>Nanomaterials</i> , 2019, 9, 226.	1.9	4
14	Thermal emissivity spectra and structural phase transitions of the eutectic Mg-51%Zn alloy: A candidate for thermal energy storage. <i>Journal of Alloys and Compounds</i> , 2016, 684, 62-67.	2.8	9
15	Experimental investigation of Mg-Zn-Al metal alloys for latent heat storage application. <i>Journal of Alloys and Compounds</i> , 2016, 685, 724-732.	2.8	25
16	A simple approach for fabrication of interconnected graphitized macroporous carbon foam with uniform mesopore walls by using hydrothermal method. <i>Carbon</i> , 2015, 87, 434-443.	5.4	57
17	Thermodynamic study of the eutectic Mg ₄₉ Zn ₅₁ alloy used for thermal energy storage. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 93-99.	2.0	24
18	Effect of Mesopore Ordering in Otherwise Similar Micro/Mesoporous Carbons on the High-Rate Performance of Electric Double-Layer Capacitors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27715-27720.	1.5	28

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19	Compatibility of a post-industrial ceramic with nitrate molten salts for use as filler material in a thermochemical storage system. <i>Applied Energy</i> , 2013, 109, 387-393.	5.1	86
20	Post-Industrial Ceramics Compatibility With Heat Transfer Fluids for Low-Cost Thermal Energy Storage Applications in CSP. , 2012, , .		0
21	Formation of Ca(BH ₄) ₂ from Hydrogenation of CaH ₂ +MgB ₂ Composite. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2743-2749.	1.5	106
22	A Numerical Algorithm for Magnetohydrodynamics of Ablated Materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3674-3685.	0.9	11
23	Characterisation of complex hydrides synthesised or modified by ball milling. <i>International Journal of Materials Research</i> , 2008, 99, 553-556.	0.1	2
24	In situ pressure and temperature monitoring during the conversion of Mg into MgH ₂ by high-pressure reactive ball milling. <i>Journal of Alloys and Compounds</i> , 2007, 427, 204-208.	2.8	93
25	Determination of the Heat of Hydride Formation/Decomposition by High-Pressure Differential Scanning Calorimetry (HP-DSC). <i>Journal of Physical Chemistry B</i> , 2007, 111, 13301-13306.	1.2	54
26	Hydrogen sorption properties of MgH ₂ -LiBH ₄ composites. <i>Acta Materialia</i> , 2007, 55, 3951-3958.	3.8	350
27	Hydrogen storage in magnesium-based hydrides and hydride composites. <i>Scripta Materialia</i> , 2007, 56, 841-846.	2.6	430
28	Thermodynamic properties and absorption-desorption kinetics of Mg ₈₇ Ni ₁₀ Al ₃ alloy synthesised by reactive ball milling under H ₂ atmosphere. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 27-30.	2.8	20
29	Ignition mechanism of mechanically activated Me-Si (Me = Ti, Nb, Mo) mixtures. <i>Journal of Materials Research</i> , 2004, 19, 1558-1566.	1.2	33
30	Exchange bias effects in Fe nanoparticles embedded in an antiferromagnetic Cr ₂ O ₃ matrix. <i>Nanotechnology</i> , 2004, 15, S211-S214.	1.3	62
31	Controlled Reduction of NiO Using Reactive Ball Milling under Hydrogen Atmosphere Leading to Ni-NiO Nanocomposites. <i>Chemistry of Materials</i> , 2004, 16, 5664-5669.	3.2	42
32	Evolution of amorphous and nanocrystalline phases in mechanically alloyed Mg _{1.9} M _{0.1} Ni (M=Ti,Zr,V). <i>Journal of Alloys and Compounds</i> , 2004, 381, 66-71.	2.8	17
33	Combustion synthesis of mechanically activated powders in the Ta-Si system. <i>Journal of Alloys and Compounds</i> , 2004, 385, 269-275.	2.8	40
34	A Direct View of the Self Combustion Behaviour of TiC System under Milling. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2003, 15-16, 215-220.	0.1	19
35	The self-combustion of structurally co-deformed powder mixtures: a direct view of the process. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 1917-1922.	1.3	13
36	Combustion synthesis of mechanically activated powders in the Nb-Si system. <i>Journal of Materials Research</i> , 2002, 17, 1992-1999.	1.2	24

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37	Metal-metal oxides prepared by MSR and SHS techniques. <i>Solid State Ionics</i> , 2001, 141-142, 649-656.	1.3	13
38	Mechanochemistry of the titanium-silicon system: Compositional effects. <i>Journal of Materials Research</i> , 2001, 16, 1266-1279.	1.2	19
39	Self-Propagating Reactions in the Ti-Si System: A SHS-MASHS Comparative Study. <i>Journal of Materials Synthesis and Processing</i> , 2000, 8, 377-383.	0.3	24
40	MSR Reduction of Hexachlorobenzene. <i>Journal of Materials Synthesis and Processing</i> , 2000, 8, 295-300.	0.3	8
41	Thermal and Mechanochemical Self-Propagating Degradation of Chloro-organic Compounds: The Case of Hexachlorobenzene over Calcium Hydride. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 3218-3224.	1.8	52
42	Reduction of Polychlorinated Dibenzodioxins and Dibenzofurans in Contaminated Muds by Mechanically Induced Combustion Reactions. <i>Environmental Science & Technology</i> , 1999, 33, 2485-2488.	4.6	38