

Sandra Kurko

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

672
citations

471371

17
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26
g-index

31
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31
docs citations

31
times ranked

635
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous removal of Pb ²⁺ , Cu ²⁺ , Zn ²⁺ and Cd ²⁺ from highly acidic solutions using mechanochemically synthesized montmorillonite/kaolinite/TiO ₂ composite. <i>Applied Clay Science</i> , 2015, 103, 20-27.	2.6	72
2	Fast hydrogen sorption from MgH ₂ /VO ₂ (B) composite materials. <i>Journal of Power Sources</i> , 2016, 307, 481-488.	4.0	70
3	Achieving high-efficiency conversion and poly-generation of cooling, heating, and power based on biomass-fueled SOFC hybrid system: Performance assessment and multi-objective optimization. <i>Energy Conversion and Management</i> , 2021, 240, 114245.	4.4	53
4	Changes of hydrogen storage properties of MgH ₂ induced by boron ion irradiation. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1184-1189.	3.8	37
5	Influence of vacant CeO ₂ nanostructured ceramics on MgH ₂ hydrogen desorption properties. <i>Ceramics International</i> , 2012, 38, 1181-1186.	2.3	37
6	A continuous hydrogen absorption/desorption model for metal hydride reactor coupled with PCM as heat management and its application in the fuel cell power system. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28087-28099.	3.8	37
7	Structural destabilisation of MgH ₂ obtained by heavy ion irradiation. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7275-7282.	3.8	32
8	Hydrogen storage properties of MgH ₂ mechanically milled with ¹⁰ B and ¹² C SiC. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 549-554.	3.8	31
9	The simple one-step solvothermal synthesis of nanostructured VO ₂ (B). <i>Ceramics International</i> , 2012, 38, 2313-2317.	2.3	27
10	Study of an autothermal-equilibrium metal hydride reactor by reaction heat recovery as hydrogen source for the application of fuel cell power system. <i>Energy Conversion and Management</i> , 2020, 213, 112864.	4.4	27
11	Influence of VO ₂ nanostructured ceramics on hydrogen desorption properties from magnesium hydride. <i>Ceramics International</i> , 2013, 39, 51-56.	2.3	25
12	Assessment of changes in desorption mechanism of MgH ₂ after ion bombardment induced destabilization. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6727-6732.	3.8	24
13	Investigation of surface and near-surface effects on hydrogen desorption kinetics of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 862-867.	3.8	23
14	Influence of Defects on the Stability and Hydrogen Adsorption Behavior of Mg-Based Hydrides. <i>ChemPhysChem</i> , 2019, 20, 1216-1247.	1.0	22
15	Hydrogen sorption properties of MgH ₂ /NaBH ₄ composites. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12140-12145.	3.8	21
16	Multi-physics field modeling of biomass gasification syngas fueled solid oxide fuel cell. <i>Journal of Power Sources</i> , 2021, 512, 230470.	4.0	21
17	Methanol to power through high-efficiency hybrid fuel cell system: Thermodynamic, thermo-economic, and techno-economic (3T) analyses in Northwest China. <i>Energy Conversion and Management</i> , 2021, 232, 113899.	4.4	19
18	DFT study of boron doped MgH ₂ : Bonding mechanism, hydrogen diffusion and desorption. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7947-7957.	3.8	17

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19	Study of MW-scale biogas-fed SOFC-WGS-TSA-PEMFC hybrid power technology as distributed energy system: Thermodynamic, exergetic and thermo-economic evaluation. International Journal of Hydrogen Energy, 2021, 46, 11183-11198.	3.8	15
20	Catalytic activity of titania polymorphs towards desorption reaction of MgH ₂ . International Journal of Hydrogen Energy, 2016, 41, 4703-4711.	3.8	12
21	The influence of mechanical milling parameters on hydrogen desorption from MgH ₂ -W ₂ O ₃ composites. International Journal of Hydrogen Energy, 2020, 45, 7901-7911.	3.8	11
22	Structural stability and local electronic properties of some EC synthesized magnetite nanopowders. Journal of Alloys and Compounds, 2017, 697, 409-416.	2.8	9
23	Mechanochemical modification of LiAlH ₄ with Fe ₂ O ₃ - A combined DFT and experimental study. International Journal of Hydrogen Energy, 2021, 46, 13070-13081.	3.8	7
24	Changes in kinetic parameters of decomposition of MgH ₂ destabilized by irradiation with C ²⁺ ions. International Journal of Hydrogen Energy, 2013, 38, 12199-12206.	3.8	6
25	In-situ desorption of magnesium hydride irradiated and non-irradiated thin films: Relation to optical properties. Journal of Alloys and Compounds, 2017, 695, 2381-2388.	2.8	6
26	A multi-function desalination system based on hydrolysis reaction of hydride and fuel cell water recovery. Energy Conversion and Management, 2021, 247, 114728.	4.4	6
27	Changes in Storage Properties of Hydrides Induced by Ion Irradiation. Medziagotyra, 2013, 19, .	0.1	2
28	Survey of electronic properties and local structures around Fe in selected multinary chalcogenides. Journal of Alloys and Compounds, 2019, 782, 160-169.	2.8	2
29	Aging Effects in Irradiated MgH ₂ ; Connection to Hydrogen Production. Medziagotyra, 2013, 19, .	0.1	1
30	Changes of structural and hydrogen desorption properties of MgH ₂ induced by ion irradiation. Hemijska Industrija, 2010, 64, 227-232.	0.3	0