

Sandra Kurko

List of Publications by Year in descending order

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papers

672
citations

471509
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31
times ranked

635
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.1	15
2	Methanol to power through high-efficiency hybrid fuel cell system: Thermodynamic, thermo-economic, and techno-economic (3T) analyses in Northwest China. Energy Conversion and Management, 2021, 232, 113899.	9.2	19
3	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.	7.1	7
4	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. Energy Conversion and Management, 2021, 240, 114245.	9.2	53
5	Multi-physics field modeling of biomass gasification syngas fueled solid oxide fuel cell. Journal of Power Sources, 2021, 512, 230470.	7.8	21
6	A multi-function desalination system based on hydrolysis reaction of hydride and fuel cell water recovery. Energy Conversion and Management, 2021, 247, 114728.	9.2	6
7	DFT study of boron doped MgH ₂ : Bonding mechanism, hydrogen diffusion and desorption. International Journal of Hydrogen Energy, 2020, 45, 7947-7957.	7.1	17
8	The influence of mechanical milling parameters on hydrogen desorption from MgH ₂ -WO ₃ composites. International Journal of Hydrogen Energy, 2020, 45, 7901-7911.	7.1	11
9	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. International Journal of Hydrogen Energy, 2020, 45, 28087-28099.	7.1	37
10	Study of an autothermal-equilibrium metal hydride reactor by reaction heat recovery as hydrogen source for the application of fuel cell power system. Energy Conversion and Management, 2020, 213, 112864.	9.2	27
11	Influence of Defects on the Stability and Hydrogen Sorption Behavior of Mg-Based Hydrides. ChemPhysChem, 2019, 20, 1216-1247.	2.1	22
12	Survey of electronic properties and local structures around Fe in selected multinary chalcogenides. Journal of Alloys and Compounds, 2019, 782, 160-169.	5.5	2
13	Structural stability and local electronic properties of some EC synthesized magnetite nanopowders. Journal of Alloys and Compounds, 2017, 697, 409-416.	5.5	9
14	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.	5.5	6
15	Fast hydrogen sorption from MgH ₂ -VO ₂ (B) composite materials. Journal of Power Sources, 2016, 307, 481-488.	7.8	70
16	Catalytic activity of titania polymorphs towards desorption reaction of MgH ₂ . International Journal of Hydrogen Energy, 2016, 41, 4703-4711.	7.1	12
17	Simultaneous removal of Pb ²⁺ , Cu ²⁺ , Zn ²⁺ and Cd ²⁺ from highly acidic solutions using mechanochemically synthesized montmorillonite-kaolinite/TiO ₂ composite. Applied Clay Science, 2015, 103, 20-27.	5.2	72
18	Investigation of surface and near-surface effects on hydrogen desorption kinetics of MgH ₂ . International Journal of Hydrogen Energy, 2014, 39, 862-867.	7.1	23

#	ARTICLE	IF	CITATIONS
19	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.	7.1	6
20	Influence of VO ₂ nanostructured ceramics on hydrogen desorption properties from magnesium hydride. Ceramics International, 2013, 39, 51-56.	4.8	25
21	Hydrogen sorption properties of MgH ₂ /NaBH ₄ composites. International Journal of Hydrogen Energy, 2013, 38, 12140-12145.	7.1	21
22	Changes in Storage Properties of Hydrides Induced by Ion Irradiation. Medziagotyra, 2013, 19, .	0.2	2
23	Aging Effects in Irradiated MgH ₂ ; Connection to Hydrogen Production. Medziagotyra, 2013, 19, .	0.2	1
24	Influence of vacant CeO ₂ nanostructured ceramics on MgH ₂ hydrogen desorption properties. Ceramics International, 2012, 38, 1181-1186.	4.8	37
25	The simple one-step solvothermal synthesis of nanostructured VO ₂ (B). Ceramics International, 2012, 38, 2313-2317.	4.8	27
26	Assessment of changes in desorption mechanism of MgH ₂ after ion bombardment induced destabilization. International Journal of Hydrogen Energy, 2012, 37, 6727-6732.	7.1	24
27	Changes of hydrogen storage properties of MgH ₂ induced by boron ion irradiation. International Journal of Hydrogen Energy, 2011, 36, 1184-1189.	7.1	37
28	Hydrogen storage properties of MgH ₂ mechanically milled with $\hat{1}\pm$ and $\hat{1}^2$ SiC. International Journal of Hydrogen Energy, 2011, 36, 549-554.	7.1	31
29	Changes of structural and hydrogen desorption properties of MgH ₂ induced by ion irradiation. Hemijska Industrija, 2010, 64, 227-232.	0.7	0
30	Structural destabilisation of MgH ₂ obtained by heavy ion irradiation. International Journal of Hydrogen Energy, 2009, 34, 7275-7282.	7.1	32