

# Jasmina Grbovic Novakovic

## List of Publications by Year in descending order

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43  
papers

1,068  
citations

304368

22  
h-index

414034

32  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1073  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14404-14428.	3.8	94
2	Fast hydrogen sorption from MgH <sub>2</sub> –VO <sub>2</sub> (B) composite materials. <i>Journal of Power Sources</i> , 2016, 307, 481-488.	4.0	70
3	Ab initio calculations of MgH <sub>2</sub> , MgH <sub>2</sub> :Ti and MgH <sub>2</sub> :Co compounds. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 598-608.	3.8	65
4	Nano-micro MgH <sub>2</sub> –Mg <sub>2</sub> NiH <sub>4</sub> –MgH <sub>2</sub> –Mg <sub>2</sub> NiH <sub>4</sub> composites: Tailoring a multichannel system with selected hydrogen sorption properties. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2926-2934.	3.8	56
5	Electronic structure and charge distribution topology of MgH <sub>2</sub> doped with 3d transition metals. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5874-5887.	3.8	52
6	Influence of diatomite microstructure on its adsorption capacity for Pb(II). <i>Science of Sintering</i> , 2009, 41, 309-317.	0.5	43
7	The potential of ball-milled Serbian natural clay for removal of heavy metal contaminants from wastewaters: Simultaneous sorption of Ni, Cr, Cd and Pb ions. <i>Ceramics International</i> , 2013, 39, 7173-7178.	2.3	42
8	Simultaneous Removal of Divalent Heavy Metals from Aqueous Solutions Using Raw and Mechanochemically Treated Interstratified Montmorillonite/Kaolinite Clay. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 7930-7939.	1.8	39
9	Changes of hydrogen storage properties of MgH <sub>2</sub> induced by boron ion irradiation. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1184-1189.	3.8	37
10	Influence of vacant CeO <sub>2</sub> nanostructured ceramics on MgH <sub>2</sub> hydrogen desorption properties. <i>Ceramics International</i> , 2012, 38, 1181-1186.	2.3	37
11	Changes of hydrogen storage properties of MgH <sub>2</sub> induced by heavy ion irradiation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1876-1879.	3.8	36
12	Microstructure, surface properties and hydrating behaviour of Mg–C composites prepared by ball milling with benzene. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 2088-2096.	3.8	33
13	Structural destabilisation of MgH <sub>2</sub> obtained by heavy ion irradiation. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7275-7282.	3.8	32
14	Hydrogen storage properties of MgH <sub>2</sub> mechanically milled with <sup>11</sup> B and <sup>12</sup> C SiC. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 549-554.	3.8	31
15	Combined XRD and XPS analysis of ex-situ and in-situ plasma hydrogenated magnetron sputtered Mg films. <i>Journal of Alloys and Compounds</i> , 2015, 647, 790-796.	2.8	29
16	The simple one-step solvothermal synthesis of nanostructured VO <sub>2</sub> (B). <i>Ceramics International</i> , 2012, 38, 2313-2317.	2.3	27
17	Influence of VO <sub>2</sub> nanostructured ceramics on hydrogen desorption properties from magnesium hydride. <i>Ceramics International</i> , 2013, 39, 51-56.	2.3	25
18	Assessment of changes in desorption mechanism of MgH <sub>2</sub> after ion bombardment induced destabilization. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6727-6732.	3.8	24

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19	Microstructure and hydrogen storage properties of MgH <sub>2</sub> -TiB <sub>2</sub> -SiC composites. <i>Ceramics International</i> , 2013, 39, 4399-4405.	2.3	24
20	Hydrogen desorption properties of MgH <sub>2</sub> /LiAlH <sub>4</sub> composites. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12152-12158.	3.8	24
21	Ab initio study of MgH <sub>2</sub> formation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 165, 235-238.	1.7	23
22	Investigation of surface and near-surface effects on hydrogen desorption kinetics of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 862-867.	3.8	23
23	Influence of Defects on the Stability and Hydrogen Sorption Behavior of Mg-Based Hydrides. <i>ChemPhysChem</i> , 2019, 20, 1216-1247.	1.0	22
24	Hydrogen sorption properties of MgH <sub>2</sub> /NaBH <sub>4</sub> composites. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12140-12145.	3.8	21
25	In-situ and Real-time Monitoring of Mechanochemical Preparation of Li <sub>2</sub> Mg(NH <sub>2</sub> ) <sub>3</sub> and Na <sub>2</sub> Mg(NH <sub>2</sub> ) <sub>3</sub> and Their Thermal Dehydrogenation. <i>Chemistry - A European Journal</i> , 2017, 23, 16274-16282.	1.7	21
26	DFT study of boron doped MgH <sub>2</sub> : Bonding mechanism, hydrogen diffusion and desorption. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7947-7957.	3.8	17
27	Life Cycle Energy Assessment of biohydrogen production via biogas steam reforming: Case study of biogas plant on a farm in Serbia. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14130-14137.	3.8	14
28	Hydrogen desorption properties of MgH <sub>2</sub> catalysed with NaNH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12223-12229.	3.8	13
29	Abrasive wear behaviour of ADI material with various retained austenite content. <i>International Journal of Cast Metals Research</i> , 2016, 29, 187-193.	0.5	13
30	Catalytic activity of titania polymorphs towards desorption reaction of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4703-4711.	3.8	12
31	Ab-initio study of hydrogen mobility in the vicinity of MgH <sub>2</sub> /Mg interface: The role of Ti and TiO <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , 2017, 696, 548-559.	2.8	11
32	The influence of mechanical milling parameters on hydrogen desorption from MgH <sub>2</sub> -WO <sub>3</sub> composites. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7901-7911.	3.8	11
33	Hydrogen storage properties of MgH <sub>2</sub> -diatomite composites obtained by high-energy ball milling. <i>Journal of Microscopy</i> , 2008, 232, 522-525.	0.8	10
34	Changes in kinetic parameters of decomposition of MgH <sub>2</sub> destabilized by irradiation with C <sup>2+</sup> ions. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12199-12206.	3.8	6
35	Tensile properties of ADI material in water and gaseous environments. <i>Materials Characterization</i> , 2015, 101, 26-33.	1.9	6
36	In-situ desorption of magnesium hydride irradiated and non-irradiated thin films: Relation to optical properties. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2381-2388.	2.8	6

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37	Renewable hydrogen production perspective in Serbia via biogas generated from food processing wastewaters. <i>Journal of Cleaner Production</i> , 2022, 363, 132142.	4.6	6
38	The Effect of Water Concentration in Ethyl Alcohol on the Environmentally Assisted Embrittlement of Austempered Ductile Irons. <i>Metals</i> , 2021, 11, 94.	1.0	4
39	Experimental and Theoretical Investigations of Cured and Uncured Disiloxane Bisbenzocyclobutene Thin Films. <i>Materials and Manufacturing Processes</i> , 2009, 24, 1180-1184.	2.7	3
40	Electronic Principles of Hydrogen Incorporation and Dynamics in Metal Hydrides. <i>Crystals</i> , 2012, 2, 1261-1282.	1.0	3
41	Changes in Storage Properties of Hydrides Induced by Ion Irradiation. <i>Medziagotyra</i> , 2013, 19, .	0.1	2
42	Aging Effects in Irradiated MgH <sub>2</sub> ; Connection to Hydrogen Production. <i>Medziagotyra</i> , 2013, 19, .	0.1	1
43	Catalytic effect of Co on hydrogen desorption from nanostructured magnesium hydride. <i>Hemijska Industrija</i> , 2008, 62, 114-118.	0.3	0