Nikola B NovakoviÄ

List of Publications by Year
in descending order

39	768	516561	501076
papers	citations	16 h-index	28 g-index

40	40	40	736
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. International Journal of Hydrogen Energy, 2016, 41, 14404-14428.	3.8	94
2	Recent progress on the development of high entropy alloys (HEAs) for solid hydrogen storage: AÂreview. International Journal of Hydrogen Energy, 2022, 47, 11236-11249.	3.8	77
3	Fast hydrogen sorption from MgH2â€“VO2(B) composite materials. Journal of Power Sources, 2016, 307, 481-488.	4.0	70
4	Ab initio calculations of MgH2, MgH2:Ti and MgH2:Co compounds. International Journal of Hydrogen Energy, 2010, 35, 598-608.	3.8	65
5	Electronic structure and charge distribution topology of MgH2 doped with 3d transition metals. International Journal of Hydrogen Energy, 2014, 39, 5874-5887.	3.8	52
6	Changes of hydrogen storage properties of MgH2 induced by boron ion irradiation. International Journal of Hydrogen Energy, 2011, 36, 1184-1189.	3.8	37
7	Changes of hydrogen storage properties of MgH2 induced by heavy ion irradiation. International Journal of Hydrogen Energy, 2008, 33, 1876-1879.	3.8	36
8	Structural destabilisation of MgH2 obtained by heavy ion irradiation. International Journal of Hydrogen Energy, 2009, 34, 7275-7282.	3.8	32
9	Hydrogen storage properties of MgH2 mechanically milled with Î± and Î² SiC. International Journal of Hydrogen Energy, 2011, 36, 549-554.	3.8	31
10	Microstructure and hydrogen storage properties of MgH2â€“TiB2â€“SiC composites. Ceramics International, 2013, 39, 4399-4405.	2.3	24
11	Hydrogen desorption properties of MgH2/LiAlH4 composites. International Journal of Hydrogen Energy, 2013, 38, 12152-12158.	3.8	24
12	Ab initio study of MgH2 formation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 235-238.	1.7	23
13	Investigation of surface and near-surface effects on hydrogen desorption kinetics of MgH2. International Journal of Hydrogen Energy, 2014, 39, 862-867.	3.8	23
14	Influence of Defects on the Stability and Hydrogenâ€Sorption Behavior of Mgâ€Based Hydrides. ChemPhysChem, 2019, 20, 1216-1247.	1.0	22
15	First principle calculations of alkali hydride electronic structures. Journal of Physics Condensed Matter, 2007, 19, 406211.	0.7	20
16	Structural stability of some CsCl structure HfTM (TM=Co, Rh, Ru, Fe) compounds. Intermetallics, 2006, 14, 1403-1410.	1.8	18
17	DFT study of boron doped MgH2: Bonding mechanism, hydrogen diffusion and desorption. International Journal of Hydrogen Energy, 2020, 45, 7947-7957.	3.8	17
18	XAFS studies of ytterbium doped lead-telluride. Journal of Alloys and Compounds, 2010, 501, 159-163.	2.8	15

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19	Catalytic activity of titania polymorphs towards desorption reaction of MgH2. International Journal of Hydrogen Energy, 2016, 41, 4703-4711.	3.8	12
20	Ab-initio study of hydrogen mobility in the vicinity of MgH2Mg interface: The role of Ti and TiO2. Journal of Alloys and Compounds, 2017, 696, 548-559.	2.8	11
21	XAFS studies of nickel-doped lead telluride. Physica B: Condensed Matter, 2009, 404, 5032-5034.	1.3	10
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	Cluster approach to the Ti2Ni structure type. Acta Crystallographica Section B: Structural Science, 2006, 62, 1-8.	1.8	7
24	Electronic aspects of formation and properties of local structures around Mn in Cd 1â^'x Mn x Te 1â^'y Se y. Materials Chemistry and Physics, 2015, 167, 236-245.	2.0	7
25	ELECTRONIC PRINCIPLES OF SOME TRENDS IN PROPERTIES OF METALLIC HYDRIDES. International Journal of Modern Physics B, 2010, 24, 703-710.	1.0	6
26	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
27	Comprehensive studies of structural, electronic and magnetic properties of Zn0.95Co0.05O nanopowders. Materials Research Bulletin, 2016, 74, 78-84.	2.7	5
28	Electronic Principles of Hydrogen Incorporation and Dynamics in Metal Hydrides. Crystals, 2012, 2, 1261-1282.	1.0	3
29	Influence on Cr and Ni doping on PbTe local structural properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 10020-10026.	1.1	3
30	MÃ¶ssbauer effect and first principle calculations of the electronic structure and hyperfine interaction parameters of Hf2Fe. Journal of Physics and Chemistry of Solids, 2005, 66, 1815-1819.	1.9	2
31	DFT Calculations to Study Hydrogen Localization and Diffusion in Disordered Bcc Ti-V-Cr Alloys. Solid State Phenomena, 2019, 289, 205-211.	0.3	2
32	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
33	Possibilities for tuning electronic and optical properties of oligophenylenes by selected chemical influences. Optical Materials, 2008, 30, 1103-1108.	1.7	1
34	X-ray Absorption Near Edge Structure Studies of Pb1-x Mn x Te(In, Ga) Systems. International Journal of Materials Research, 2013, 104, 319-325.	0.1	1
35	Bonding mechanism of some simple ionic systems: Bader topological analysis of some alkali halides and hydrides revisited. Physica B: Condensed Matter, 2018, 545, 146-151.	1.3	1
36	Hydrogen desorption from nanostructured magnesium hydride composites. Hemijska Industrija, 2007, 61, 71-74.	0.3	0

#	Article	IF	Citations
37	Changes of structural and hydrogen desorption properties of MgH2 indused by ion irradiation. Hemijska Industrija, 2010, 64, 227-232.	0.3	0
38	Determination of surface functional groups on mechanochemically activated carbon cloth by Boehm method. Tehnika, 2014, 69, 367-372.	0.0	0
39	Survey of Electronic and Local Structural Properties of Cd_{1â^'}_xCo_xSe_{1â^'}_yTe(S)_y by XAFS. Journal of the Physical Society of Japan, 2022, 91, .	0.0	0