

Katarina BataloviÄ

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8151842/publications.pdf>

Version: 2024-02-01

22
papers

398
citations

758635

12
h-index

752256

20
g-index

23
all docs

23
docs citations

23
times ranked

623
citing authors

#	ARTICLE	IF	CITATIONS
1	BiFeO ₃ perovskites: A multidisciplinary approach to multiferroics. <i>Ceramics International</i> , 2017, 43, 1256-1264.	2.3	73
2	Modification of N-doped TiO ₂ photocatalysts using noble metals (Pt, Pd) – a combined XPS and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7062-7071.	1.3	60
3	A study on crystal structure, bonding and hydriding properties of Ti–Fe–Ni intermetallics – Behind substitution of iron by nickel. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8408-8417.	3.8	48
4	Hydrogen diffusion in MgH ₂ doped with Ti, Mn and Fe. <i>RSC Advances</i> , 2015, 5, 34894-34899.	1.7	25
5	Influence of Defects on the Stability and Hydrogen Sorption Behavior of Mg-Based Hydrides. <i>ChemPhysChem</i> , 2019, 20, 1216-1247.	1.0	22
6	Transition metal doping of Mg ₂ FeH ₆ – a DFT insight into synthesis and electronic structure. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12356-12361.	1.3	20
7	HfNi and its hydrides – First principles calculations. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3572-3577.	3.8	17
8	Enhancing photocatalytic properties of rutile TiO ₂ by codoping with N and metals – Ab initio study. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9696-9703.	3.8	17
9	Kinetics of hydrogen absorption in Zr-based alloys. <i>Journal of Alloys and Compounds</i> , 2013, 559, 162-166.	2.8	14
10	Influence of Ta and Nb on the hydrogen absorption kinetics in Zr-based alloys. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5677-5682.	3.8	14
11	Hydrogen Storage in Martensite Ti–Zr–Ni Alloy: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26914-26920.	1.5	13
12	Effect of PEO molecular weight on sunlight induced photocatalytic activity of ZnO/PEO composites. <i>Solar Energy</i> , 2016, 127, 124-135.	2.9	13
13	Density functional theory guide to structure and thermodynamics of metal hydrides – Case study of (Ti, Zr, Hf)Ni intermetallic compounds. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13029-13038.	3.8	9
14	First-principles study of the thermodynamic properties and electronic structure of compounds from Hf–Ni phase system. <i>Computational Materials Science</i> , 2010, 49, 55-59.	1.4	8
15	Study on electronic properties of $\hat{1}^{\pm}$, $\hat{1}^2$ - and $\hat{1}^3$ -AlH ₃ – The theoretical approach. <i>Computational Materials Science</i> , 2017, 134, 100-108.	1.4	8
16	Mechanochemical modification of LiAlH ₄ with Fe ₂ O ₃ - A combined DFT and experimental study. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13070-13081.	3.8	7
17	Hydrogenation properties of Hf–Ni intermetallics – Experimental and theoretical investigation. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10771-10778.	3.8	6
18	Interstitial hydrogen in Laves phases – local electronic structure modifications from first-principles. <i>RSC Advances</i> , 2014, 4, 54769-54774.	1.7	6

#	ARTICLE	IF	CITATIONS
19	Origin of photocatalytic activity enhancement in Pd/Pt-deposited anatase N-TiO ₂ â€“ experimental insights and DFT study of the (001) surface. Physical Chemistry Chemical Physics, 2020, 22, 18536-18547.	1.3	6
20	DFT study of crystal structure and electronic properties of metal-doped AlH ₃ polymorphs. International Journal of Hydrogen Energy, 2022, 47, 6142-6153.	3.8	6
21	Predicting the Heat of Hydride Formation by Graph Neural Network â€“Exploring the Structureâ€“Property Relation for Metal Hydrides. Advanced Theory and Simulations, 2022, 5, .	1.3	6
22	Theoretical investigation of interaction of hydrogen and intermetallic compound YCo ₅ . Journal of Alloys and Compounds, 2017, 726, 1085-1091.	2.8	0