

Ricardo Floriano

List of Publications by Year in descending order

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papers

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citations

430442

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35
all docs

35
docs citations

35
times ranked

627
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible room temperature hydrogen storage in high-entropy alloy TiZrCrMnFeNi. Scripta Materialia, 2020, 178, 387-390.	2.6	132
2	Ultrahigh hardness and biocompatibility of high-entropy alloy TiAlFeCoNi processed by high-pressure torsion. Materials Science and Engineering C, 2020, 112, 110908.	3.8	72
3	Hydrogen storage in TiZrNbFeNi high entropy alloys, designed by thermodynamic calculations. International Journal of Hydrogen Energy, 2020, 45, 33759-33770.	3.8	67
4	Iron and niobium based additives in magnesium hydride: Microstructure and hydrogen storage properties. International Journal of Hydrogen Energy, 2017, 42, 6810-6819.	3.8	57
5	Nanostructured MgH ₂ prepared by cold rolling and cold forging. Journal of Alloys and Compounds, 2011, 509, S444-S448.	2.8	54
6	Mechanical Synthesis and Hydrogen Storage Characterization of MgVCr and MgVTiCrFe High-Entropy Alloy. Advanced Engineering Materials, 2020, 22, 1901079.	1.6	54
7	Hydrogen storage properties of new A3B2-type TiZrNbCrFe high-entropy alloy. International Journal of Hydrogen Energy, 2021, , .	3.8	46
8	Cold rolling of MgH ₂ powders containing different additives. International Journal of Hydrogen Energy, 2013, 38, 16193-16198.	3.8	37
9	Cold rolling under inert atmosphere: A powerful tool for Mg activation. International Journal of Hydrogen Energy, 2014, 39, 4959-4965.	3.8	30
10	Phase transformation and microstructure evolution in ultrahard carbon-doped AlTiFeCoNi high-entropy alloy by high-pressure torsion. Materials Letters, 2021, 302, 130368.	1.3	28
11	Severely deformed ZK60+2.5% Mm alloy for hydrogen storage produced by two different processing routes. International Journal of Hydrogen Energy, 2016, 41, 11284-11292.	3.8	25
12	Hydrogen storage in MgH ₂ LaNi ₅ composites prepared by cold rolling under inert atmosphere. International Journal of Hydrogen Energy, 2018, 43, 13348-13355.	3.8	25
13	MgH ₂ -based nanocomposites prepared by short-time high energy ball milling followed by cold rolling: A new processing route. International Journal of Hydrogen Energy, 2014, 39, 4404-4413.	3.8	23
14	High-Pressure Torsion for Synthesis of High-Entropy Alloys. Metals, 2021, 11, 1263.	1.0	22
15	High-entropy alloys as anode materials of nickel - metal hydride batteries. Scripta Materialia, 2022, 209, 114387.	2.6	22
16	New Mg-V-Cr BCC Alloys Synthesized by High-Pressure Torsion and Ball Milling. Materials Transactions, 2018, 59, 741-746.	0.4	21
17	Mg-based Nanocomposites for Hydrogen Storage Containing Ti-Cr-V Alloys as Additives. Materials Research, 2016, 19, 80-85.	0.6	19
18	Low temperature rolling of AZ91 alloy for hydrogen storage. International Journal of Hydrogen Energy, 2017, 42, 29394-29405.	3.8	19

#	ARTICLE	IF	CITATIONS
19	Hydrogen storage properties of MgH ₂ processed by cold forging. <i>Journal of Alloys and Compounds</i> , 2014, 615, S719-S724.	2.8	18
20	Effects of friction stir processing on hydrogen storage of ZK60 alloy. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11085-11091.	3.8	18
21	Structural characterization and hydrogen storage properties of MgH ₂ @ Mg ₂ CoH ₅ nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14593-14601.	3.8	17
22	Processing of MgH ₂ by extensive cold rolling under protective atmosphere. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2201-2208.	3.8	16
23	Nanostructured MgH ₂ obtained by cold rolling combined with short-time high-energy ball milling. <i>Materials Research</i> , 2013, 16, 158-163.	0.6	14
24	Controlled mechanochemical synthesis and hydrogen desorption mechanisms of nanostructured Mg ₂ CoH ₅ . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 1504-1515.	3.8	13
25	Inhibition of order-disorder phase transition and improvements in the BICUVOX.1 properties by using yttria-stabilized zirconia particles. <i>Ceramics International</i> , 2015, 41, 171-177.	2.3	9
26	BICUVOX.1 matrix composite electrolyte with yttria-stabilized zirconia as an inert phase: SEM evaluation of the chemical stability under hydrogen atmosphere. <i>Scanning</i> , 2015, 37, 372-379.	0.7	7
27	Synthesis by High-Energy Ball Milling of MgH ₂ -TiFe Composites for Hydrogen Storage. <i>Materials Science Forum</i> , 0, 899, 13-18.	0.3	6
28	Exploring several different routes to produce Mg- based nanomaterials for Hydrogen storage. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014, 63, 012115.	0.3	5
29	Effects of microwave heating in nanolaminated Nb ₂ GeC synthesis. <i>Ceramics International</i> , 2016, 42, 16343-16348.	2.3	5
30	The Effect of Cooling Rate on the Microstructure and Hardness of As-Cast Co-28Cr-6Mo Alloy Used as Biomedical Knee Implant. <i>International Journal of Metalcasting</i> , 2022, 16, 2187-2198.	1.5	5
31	Glycine amino acid transformation under impacts by small solar system bodies, simulated via high-pressure torsion method. <i>Scientific Reports</i> , 2022, 12, 5677.	1.6	3
32	Production of Low-Cost TiNbFe Alloys from the Elemental Powders of NbFe Pre-Alloy and Their Hydrogenation Features. <i>Materials Transactions</i> , 2021, 62, 27-33.	0.4	0
33	Síntese e caracterização de nanocompósitos de Mg-LaNi ₅ para armazenagem de hidrogênio. , 0, , .		0
34	Preparação de ligas magnésio-níquel para armazenagem de hidrogênio processadas por laminação a frio. , 0, , .		0