

Guillermina Urretavizcaya

List of Publications by Year
in descending order

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42
papers

1,208
citations

361045
20
h-index

360668
35
g-index

42
all docs

42
docs citations

42
times ranked

1081
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen desorption behavior from magnesium hydrides synthesized by reactive mechanical alloying. Journal of Alloys and Compounds, 2001, 321, 46-53.	2.8	163
2	Electrical properties and thermal expansion of cordierite and cordierite-mullite materials. Journal of the European Ceramic Society, 2001, 21, 2917-2923.	2.8	138
3	Mechanochemical Synthesis of Magnesium Aluminate Spinel Powder at Room Temperature. Journal of the American Ceramic Society, 2004, 87, 2020-2024.	1.9	80
4	Mechanical behavior of cordierite and cordierite-mullite materials evaluated by indentation techniques. Journal of the European Ceramic Society, 2001, 21, 1195-1204.	2.8	63
5	Thermal Evolution of Alumina Prepared by the Sol-Gel Technique. Journal of Materials Synthesis and Processing, 1998, 6, 1-7.	0.3	59
6	Sintering of cordierite based materials. Ceramics International, 2003, 29, 159-168.	2.3	54
7	Catalytic effect of Ge on hydrogen desorption from MgH ₂ . Journal of Alloys and Compounds, 2002, 334, 277-284.	2.8	49
8	Characterization of MgH ₂ formation by low-energy ball-milling of Mg and Mg+C (graphite) mixtures under H ₂ atmosphere. Journal of Alloys and Compounds, 2009, 481, 673-680.	2.8	43
9	Nanostructured Mg for hydrogen production by hydrolysis obtained by MgH ₂ milling and dehydriding. Journal of Alloys and Compounds, 2020, 827, 154000.	2.8	40
10	Characterization of graphite catalytic effect in reactively ball-milled MgH ₂ + C and Mg + C composites. International Journal of Hydrogen Energy, 2011, 36, 9051-9061.	3.8	39
11	Hydrogen generation from ball milled Mg alloy waste by hydrolysis reaction. Journal of Power Sources, 2020, 479, 228711.	4.0	35
12	Hydrogen sorption properties of a MgH ₂ + 10wt.% graphite mixture. Journal of Alloys and Compounds, 2011, 509, S595-S598.	2.8	32
13	Growth of SiC whiskers by VLS process. Journal of Materials Research, 1994, 9, 2981-2986.	1.2	30
14	Study of MgH ₂ + NbF ₅ mixtures: Formation of MgH ₂ + F solid solutions and interaction with hydrogen. International Journal of Hydrogen Energy, 2015, 40, 4585-4596.	3.8	29
15	Elongated mullite crystals obtained from high temperature transformation of sillimanite. Ceramics International, 1999, 25, 245-252.	2.3	27
16	Catalytic effect of monoclinic WO ₃ , hexagonal WO ₃ and H _{0.23} WO ₃ on the hydrogen sorption properties of Mg. International Journal of Hydrogen Energy, 2009, 34, 3404-3409.	3.8	27
17	Effect of additive distribution in H ₂ absorption and desorption kinetics in MgH ₂ milled with NbH _{0.9} or NbF ₅ . International Journal of Hydrogen Energy, 2018, 43, 7430-7439.	3.8	27
18	Effect of ball milling strategy (milling device for scaling-up) on the hydrolysis performance of Mg alloy waste. International Journal of Hydrogen Energy, 2020, 45, 20883-20893.	3.8	26

#	ARTICLE	IF	CITATIONS
19	Metastable hexagonal Mg ₂ Sn obtained by mechanical alloying. Journal of Alloys and Compounds, 2002, 339, 211-215.	2.8	25
20	Wechselwirkung des Vanadyl(IV)-Kations mit Nucleotiden in wässriger Lösung / Interaction of the Vanadyl(IV) Cation with Nucleotides in Aqueous Solution. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1987, 42, 1537-1542.	0.3	23
21	Synthesis of hydrogen tungsten bronzes H _x WO ₃ by reactive mechanical milling of hexagonal WO ₃ . Journal of Alloys and Compounds, 2010, 495, 537-540.	2.8	22
22	Formation of tetragonal hydrogen tungsten bronze by reactive mechanical alloying. Journal of Solid State Chemistry, 2007, 180, 2785-2789.	1.4	20
23	Hydrogen absorption and desorption in the Mg–Ag system. Journal of Alloys and Compounds, 2014, 611, 202-209.	2.8	20
24	New Mg-based alloy obtained by mechanical alloying in the Mg–Ni–Ge system. Journal of Alloys and Compounds, 2003, 354, 187-192.	2.8	19
25	Thermal transformation of sol-gel alumina into γ -phase. Effect of γ -Al ₂ O ₃ seeding. Materials Research Bulletin, 1992, 27, 375-385.	2.7	14
26	Kinetic improvement of H ₂ absorption and desorption properties in Mg/MgH ₂ by using niobium ethoxide as additive. International Journal of Hydrogen Energy, 2019, 44, 11961-11969.	3.8	12
27	MgH ₂ synthesis during reactive mechanical alloying studied by in-situ pressure monitoring. International Journal of Hydrogen Energy, 2012, 37, 16844-16851.	3.8	11
28	Hydrogen production from hydrolysis of magnesium wastes reprocessed by mechanical milling under air. International Journal of Hydrogen Energy, 2022, 47, 5074-5084.	3.8	11
29	Mössbauer spectrum and magnetic behavior of the iron(II)-saccharinate complex. Journal of Inorganic Biochemistry, 1987, 31, 81-84.	1.5	10
30	High pressure DSC study of hydrogen sorption in MgH ₂ /graphite mixtures: Effects of sintering and oxidation. International Journal of Hydrogen Energy, 2011, 36, 5411-5417.	3.8	10
31	Reversible hydrogen storage in Mg(H _x F _{1-x}) ₂ solid solutions. Journal of Alloys and Compounds, 2017, 708, 108-114.	2.8	9
32	Hydrogen absorption and desorption properties of Mg/MgH ₂ with nanometric dispersion of small amounts of Nb(V) ethoxide. International Journal of Hydrogen Energy, 2021, 46, 4126-4136.	3.8	7
33	Pressureless sintering of sol-gel alumina matrix composites. Materials Letters, 2000, 43, 281-285.	1.3	6
34	Behaviour of cordierite materials under mechanical and thermal biaxial stress. Advances in Applied Ceramics, 2002, 101, 94-99.	0.4	6
35	Synthesis of hydrides by mechanical alloying in the Mg–Ni–Ge system. Journal of Alloys and Compounds, 2003, 356-357, 588-592.	2.8	6
36	Densification improvement of Al ₂ O ₃ –SiCw composites by impregnation. Ceramics International, 1995, 21, 97-99.	2.3	4

#	ARTICLE	IF	CITATIONS
37	Pressureless sintering of Al ₂ O ₃ /SiCw materials: Effect of the reducing atmosphere. Journal of the European Ceramic Society, 1997, 17, 1555-1563.	2.8	3
38	Novel technique for characterizing hydriding and dehydriding kinetics: Pressure programmed absorption and desorption. Review of Scientific Instruments, 2005, 76, 073902.	0.6	3
39	Hot pressing densification of Al (Al-Cu) short Al ₂ O ₃ fibre mixtures. Powder Metallurgy, 2000, 43, 83-88.	0.9	2
40	Application of pressure programmed absorption and desorption to characterize hydriding and dehydriding kinetics of LaNi ₅ during activation. Journal of Alloys and Compounds, 2007, 446-447, 224-227.	2.8	2
41	The thermal decomposition of VO[(DMSO) ₃ SO ₄]. Thermochimica Acta, 1989, 138, 367-370.	1.2	1
42	Crystal structure of β -Ag ₂ Mg ₅ . Journal of Solid State Chemistry, 2018, 258, 243-246.	1.4	1