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List of Publications by Year
in descending order

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35	1,476	331259	344852
papers	citations	21 h-index	36 g-index

37	37	37	1494
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Radiation trapping and self-quenching analysis in Yb3+, Er3+, and Ho3+ doped Y2O3. Optical Materials, 2003, 24, 103-109.	1.7	212
2	Optimization of spectroscopic properties of Yb3+-doped refractory sesquioxides: cubic and monoclinic Gd2O3. Optical Materials, 2001, 16, 475-483.	1.7	199
3	Femtosecond-irradiation-induced refractive-index changes and channel waveguiding in bulk Ti3+:Sapphire. Applied Physics Letters, 2004, 85, 1122-1124.	1.5	104
4	A multifactor study of catalyzed hydrolysis of solid NaBH4 on cobalt nanoparticles: Thermodynamics and kinetics. International Journal of Hydrogen Energy, 2009, 34, 938-951.	3.8	81
5	Growth and spectroscopic analysis of Yb3+-doped Y3Al5O12 fiber single crystals. Journal of Applied Physics, 2003, 94, 5479-5488.	1.1	75
6	TiVZrNb Multi-Principal-Element Alloy: Synthesis Optimization, Structural, and Hydrogen Sorption Properties. Molecules, 2019, 24, 2799.	1.7	65
7	Growth of rare earth (RE) doped concentration gradient crystal fibers and analysis of dynamical processes of laser resonant transitions in RE-doped Y2O3 (RE=Yb3+, Er3+, Ho3+). Journal of Alloys and Compounds, 2002, 341, 214-219.	2.8	61
8	Hydrogen storage properties of the refractory Tiâ€“Vâ€“Zrâ€“Nbâ€“Ta multi-principal element alloy. Journal of Alloys and Compounds, 2020, 835, 155376.	2.8	61
9	Improved hydrogen storage capacity through hydrolysis of solid NaBH4 catalyzed with cobalt boride. International Journal of Hydrogen Energy, 2011, 36, 2145-2153.	3.8	59
10	Hydrogen storage in borohydrides Comparison of hydrolysis conditions of LiBH4, NaBH4 and KBH4. Journal of Thermal Analysis and Calorimetry, 2008, 94, 785-790.	2.0	45
11	Search of optimized trivalent ytterbium doped-inorganic crystals for laser applications. Journal of Alloys and Compounds, 2002, 341, 2-7.	2.8	44
12	Structural Properties and Reversible Deuterium Loading of MgD₂â€“TiD₂ Nanocomposites. Journal of Physical Chemistry C, 2013, 117, 18851-18862.	1.5	42
13	Designable buried waveguides in sapphire by proton implantation. Applied Physics Letters, 2004, 85, 5167-5169.	1.5	40
14	Room-temperature continuous-wave operation of Ti:sapphire buried channel-waveguide lasers fabricated via proton implantation. Optics Letters, 2006, 31, 3450.	1.7	40
15	Improving hydrogen storage performance of Mg-based alloy through microstructure optimization. Journal of Power Sources, 2020, 480, 228823.	4.0	38
16	Correlation between dopant content and excited-state dynamics properties in Er3+â€“Yb3+-codoped Y2O3 by using a new combinatorial method. Optical Materials, 2002, 19, 59-66.	1.7	37
17	Ti:Sapphire waveguide lasers. Laser Physics Letters, 2007, 4, 560-571.	0.6	36
18	Revision of the NaBO2â€“H2O phase diagram for optimized yield in the H2 generation through NaBH4 hydrolysis. International Journal of Hydrogen Energy, 2012, 37, 5798-5810.	3.8	33

#	Article	IF	Citations
19	On the Yttrium Tantalate â€“ Zirconia phase diagram. Journal of the European Ceramic Society, 2018, 38, 3317-3324.	2.8	29
20	How 10 at% Al Addition in the Ti-V-Zr-Nb High-Entropy Alloy Changes Hydrogen Sorption Properties. Molecules, 2021, 26, 2470.	1.7	23
21	New combinatorial chemistry approach in material science. Journal of Phase Equilibria and Diffusion, 2001, 22, 379-385.	0.3	22
22	MgH 2 thin films deposited by one-step reactive plasma sputtering. International Journal of Hydrogen Energy, 2014, 39, 17718-17725.	3.8	17
23	Synthesis, Characterization, and Crystal Structure of a New Trisodium Triborate, Na₃[B₃O₄(OH)₄]. Inorganic Chemistry, 2010, 49, 4830-4835.	1.9	16
24	In operando study of TiVCr additive in MgH2 composites. International Journal of Hydrogen Energy, 2013, 38, 11937-11945.	3.8	13
25	Investigation of Mg 2 (Si,Sn) thin films for integrated thermoelectric devices. Journal of Alloys and Compounds, 2015, 649, 573-578.	2.8	13
26	In situ X-Ray diffraction study of hydrogen sorption in V-rich Tiâ€“Vâ€“Cr bcc solid solutions. Journal of Alloys and Compounds, 2015, 648, 79-85.	2.8	12
27	Hydrogen Storage Properties of Mg-Ni Alloys Processed by Fast Forging. Energies, 2020, 13, 3509.	1.6	11
28	Hydrogen Sorption Properties of a Novel Refractory Ti-V-Zr-Nb-Mo High Entropy Alloy. Hydrogen, 2021, 2, 399-413.	1.7	11
29	Effect of texture on the structural and transport properties of Sb-doped Mg2Si thin films. Journal of Alloys and Compounds, 2016, 688, 195-201.	2.8	9
30	Hydrogen Storage Properties of a New Ti-V-Cr-Zr-Nb High Entropy Alloy. Hydrogen, 2022, 3, 270-284.	1.7	8
31	High pressure and high temperaturein situX-ray diffraction studies in the Paris-Edinburgh cell using a laboratory X-ray source^{â€}. High Pressure Research, 2014, 34, 167-175.	0.4	7
32	Parallel broadband fluorescent light source for optical coherence tomography. , 2005, , .		4
33	Super-quadratic upconversion luminescence among lanthanide ions. Optics Express, 2019, 27, 33217.	1.7	4
34	Superior effect of Ni-substitution on the hydrogenation kinetics of Mg6Pd1â^'TM (TM = Ag, Cu, Ni) pseudo-binary compounds. Journal of Alloys and Compounds, 2015, 645, S334-S337.	2.8	2
35	Investigation of Diffusion Barrier Layers for Bi-Doped Mg2(Si,Ge) Thermoelectric Legs. Journal of Electronic Materials, 2016, 45, 5570-5581.	1.0	1