

Zhen-Yan Deng

List of Publications by Year in descending order

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44
papers

1,634
citations

331670

21
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure and Mechanical Properties of Porous Alumina Ceramics Fabricated by the Decomposition of Aluminum Hydroxide. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2638-2644.	3.8	160
2	Physicochemical Mechanism for the Continuous Reaction of γ -Al ₂ O ₃ -Modified Aluminum Powder with Water. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1521-1526.	3.8	147
3	Hydrogen-Generation Materials for Portable Applications. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3825-3834.	3.8	132
4	Effect of different modification agents on hydrogen-generation by the reaction of Al with water. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 9561-9568.	7.1	128
5	High-Surface-Area Alumina Ceramics Fabricated by the Decomposition of Al(OH) ₃ . <i>Journal of the American Ceramic Society</i> , 2001, 84, 485-491.	3.8	115
6	Reaction of Al powder with water for hydrogen generation under ambient condition. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13132-13140.	7.1	115
7	Modification of Al Particle Surfaces by γ -Al ₂ O ₃ and Its Effect on the Corrosion Behavior of Al. <i>Journal of the American Ceramic Society</i> , 2005, 88, 977-979.	3.8	78
8	Arsenic removal from water by metal-organic framework MIL-88A microrods. <i>Environmental Science and Pollution Research</i> , 2018, 25, 27196-27202.	5.3	61
9	Enhanced adsorption and catalytic degradation of organic dyes by nanometer iron oxide anchored to single-wall carbon nanotubes. <i>Applied Surface Science</i> , 2019, 488, 813-826.	6.1	58
10	Hydrogen generation by the reaction of Al with water promoted by an ultrasonically prepared Al(OH) ₃ suspension. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18734-18742.	7.1	55
11	Arsenic removal from water by nanometer iron oxide coated single-wall carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2018, 259, 369-375.	4.9	50
12	Effect of trace species in water on the reaction of Al with water. <i>Journal of Power Sources</i> , 2014, 245, 721-729.	7.8	41
13	Hydrogen generation by the reaction of Al with water using oxides as catalysts. <i>International Journal of Energy Research</i> , 2014, 38, 918-925.	4.5	40
14	Temperature Effect on Hydrogen Generation by the Reaction of γ -Al ₂ O ₃ -Modified Al Powder with Distilled Water. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2975-2977.	3.8	39
15	Fluoride removal from water using high-activity aluminum hydroxide prepared by the ultrasonic method. <i>RSC Advances</i> , 2015, 5, 84223-84231.	3.6	33
16	A comprehensive review of adsorbents for fluoride removal from water: performance, water quality assessment and mechanism. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1362-1386.	2.4	33
17	Nano-TiO ₂ -Coated Unidirectional Porous Glass Structure Prepared by Freeze Drying and Solution Infiltration. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1265-1268.	3.8	26
18	Effect of storage environment on hydrogen generation by the reaction of Al with water. <i>RSC Advances</i> , 2017, 7, 2103-2109.	3.6	26

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19	Role of Particle Sizes in Hydrogen Generation by the Reaction of Al with Water. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2998-3001.	3.8	25
20	Effect of initial gas pressure on the reaction of Al with water. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13491-13497.	7.1	25
21	Surface modified zero-valent aluminum for Cr(VI) removal at neutral pH. <i>Chemical Engineering Journal</i> , 2020, 395, 125140.	12.7	24
22	Subband structures and exciton and impurity states in V-shaped GaAs _{1-x} Al _x As quantum wires. <i>Physical Review B</i> , 2000, 61, 15905-15913.	3.2	21
23	Clarification of activation mechanism in oxide-modified aluminum. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12057-12062.	7.1	17
24	Kinetics study of the Al-water reaction promoted by an ultrasonically prepared Al(OH) ₃ suspension. <i>RSC Advances</i> , 2016, 6, 35305-35314.	3.6	16
25	Separation of Excess Fluoride from Water Using Amorphous and Crystalline AlOOH Adsorbents. <i>ACS Omega</i> , 2021, 6, 16488-16497.	3.5	16
26	Hydrogen generation from Al-Water reaction promoted by M-B γ -Al ₂ O ₃ (M=Co, Ni) catalyst. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24377-24386.	7.1	15
27	Effect of crystalline phases of aluminum hydroxide catalysts on Al-water reaction. <i>International Journal of Energy Research</i> , 2020, 44, 4969-4976.	4.5	14
28	Role of Modification Agent Coverage in Hydrogen Generation by the Reaction of Al with Water. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2534-2536.	3.8	13
29	Electrostatic Catalysis Induced by Luciferases in the Decomposition of the Firefly Dioxetanone and Its Analogue. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11053-11061.	2.6	13
30	Al Surface Modification by a Facile Route. <i>Journal of the American Ceramic Society</i> , 2014, 97, 44-47.	3.8	12
31	High activity AlOOH catalyzed Al hydrolysis for hydrogen generation. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 38, 100676.	2.7	12
32	Enhancing Hydrogen Generation Performance of Al ₂ O ₃ Modified Al Powder by Ultrasonic Dispersion. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1193-1196.	3.8	10
33	Oxide modified aluminum for removal of methyl orange and methyl blue in aqueous solution. <i>RSC Advances</i> , 2021, 11, 867-875.	3.6	10
34	How Does the Local Electrostatic Field Influence Emitted Wavelengths and Bioluminescent Intensities of Modified Heteroaromatic Luciferins?. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10399-10405.	2.6	9
35	Hydrogen generation from Al-water reaction catalyzed by Fe/AlOOH composite. <i>Energy Science and Engineering</i> , 2020, 8, 2402-2411.	4.0	9
36	A comparative study on high-efficient reduction of bromate in neutral solution using zero-valent Al treated by different procedures. <i>Science of the Total Environment</i> , 2021, 795, 148786.	8.0	8

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37	Long Crack R-Curve of Aligned Porous Silicon Nitride. Journal of the American Ceramic Society, 2005, 88, 462-465.	3.8	7
38	Filtrates with Hydroxyl Radicals Prepared using Al + Acid + H ₂ O ₂ for Removing Organic Pollutants. ACS Omega, 2021, 6, 14182-14190.	3.5	5
39	Porous Al ₂ O ₃ /Al catalyst supports fabricated by an Al(OH) ₃ /Al mixture and the effect of agglomerates. Journal of Materials Research, 2005, 20, 672-679.	2.6	4
40	Relative order of acidity among hydroxyl groups of oxyluciferin and emission light colors in aqueous solution. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112504.	3.9	4
41	Defluoridation performance comparison of aluminum hydroxides with different crystalline phases. Water Science and Technology: Water Supply, 2022, 22, 3673-3684.	2.1	3
42	Effect of Al surface oxide structures on oxidability of Al-peroxymonosulfate system. Chemical Engineering Journal, 2022, 440, 135923.	12.7	2
43	Soaked Al powder for efficient reduction of hexavalent chromium in neutral solution. Journal of Cleaner Production, 2022, 365, 132901.	9.3	2
44	Effects of Zirconium Doping on Grain-Grain Boundary Bonding in Alumina-Silicon Carbide Composites. Journal of the American Ceramic Society, 2004, 87, 493-495.	3.8	1