

Zhenzi Jing

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,019
citations

361296
20
h-index

434063
31
g-index

46
all docs

46
docs citations

46
times ranked

888
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel hydrothermal method to convert incineration ash into pollucite for the immobilization of a simulant radioactive cesium. <i>Journal of Hazardous Materials</i> , 2016, 306, 220-229.	6.5	66
2	Potassium-chemical synthesis of 3D graphene from CO ₂ and its excellent performance in HTM-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7749-7752.	5.2	66
3	Selective conversion of glucose into lactic acid and acetic acid with copper oxide under hydrothermal conditions. <i>AIChE Journal</i> , 2013, 59, 2096-2104.	1.8	61
4	Municipal incineration bottom ash treatment using hydrothermal solidification. <i>Waste Management</i> , 2007, 27, 287-293.	3.7	57
5	Hydrothermal solidification behavior of municipal solid waste incineration bottom ash without any additives. <i>Waste Management</i> , 2013, 33, 1182-1189.	3.7	43
6	Hydrothermal Synthesis of a Novel Tobermorite-Based Porous Material from Municipal Incineration Bottom Ash. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2657-2660.	1.8	42
7	Hydrothermal solidification of municipal solid waste incineration fly ash. <i>Research on Chemical Intermediates</i> , 2011, 37, 551-565.	1.3	40
8	A Potentially Useful Technology by Mimicking Natureâ€™s Rapid Conversion of Biomass and CO ₂ into Chemicals and Fuels under Hydrothermal Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9921-9937.	1.8	39
9	Mild hydrothermal synthesis of pollucite from soil for immobilization of Cs in situ and its characterization. <i>Chemical Engineering Journal</i> , 2016, 304, 344-350.	6.6	38
10	Hydrothermal synthesis of mesoporous materials from diatomaceous earth. <i>AIChE Journal</i> , 2007, 53, 2114-2122.	1.8	35
11	Hydrothermal solidification of municipal solid waste incineration bottom ash with slag addition. <i>Waste Management</i> , 2010, 30, 1521-1527.	3.7	35
12	One-Pot Hydrothermal Conversion of Cellulose into Organic Acids with CuO as an Oxidant. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 7939-7946.	1.8	35
13	Hydrothermal conversion of Cs-polluted soil into pollucite for Cs immobilization. <i>Chemical Engineering Journal</i> , 2018, 336, 503-509.	6.6	35
14	Reduction of CO ₂ with H ₂ S in a simulated deep-sea hydrothermal vent system. <i>Chemical Communications</i> , 2019, 55, 1056-1059.	2.2	35
15	Hydrothermal solidification of blast furnace slag by formation of tobermorite. <i>Journal of Materials Science</i> , 2007, 42, 8236-8241.	1.7	34
16	Hydrothermal synthesis of pollucite, analcime and their solid solutions and analysis of their properties. <i>Journal of Nuclear Materials</i> , 2017, 488, 63-69.	1.3	25
17	Ni and Zn/ZnO Synergistically Catalyzed Reduction of Bicarbonate into Formate with Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42149-42155.	4.0	24
18	Influence of pore dimensions of materials on humidity self-regulating performances. <i>Materials Letters</i> , 2017, 204, 23-26.	1.3	23

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19	Influence of tobermorite formation on mechanical properties of hydrothermally solidified blast furnace slag. <i>Journal of Materials Science</i> , 2008, 43, 2356-2361.	1.7	22
20	Hydrothermal Synthesis of Humidity-Regulating Material from Calcined Loess. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4779-4786.	1.8	22
21	Influence of Quartz Particle Size on Hydrothermal Solidification of Blast Furnace Slag. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7470-7474.	1.8	21
22	Synthesis of pollucite with Cs-polluted incineration ash mixed with soil for immobilization of radioactive Cs. <i>Journal of Nuclear Materials</i> , 2018, 510, 141-148.	1.3	20
23	Synthesis and microstructure analysis of autoclaved aerated concrete with carbide slag addition. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 1005-1010.	0.4	17
24	Solidification of MSWI Ash at Low Temperature of 100 °C. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9540-9545.	1.8	16
25	Hydrothermal synthesis of hardened diatomite-based adsorbents with analcime formation for methylene blue adsorption. <i>RSC Advances</i> , 2016, 6, 26765-26774.	1.7	16
26	Catalytic activity of Ni ₃ S ₂ and effects of reactor wall in hydrogen production from water with hydrogen sulphide as a reducer under hydrothermal conditions. <i>Applied Energy</i> , 2013, 104, 306-309.	5.1	15
27	A novel method for producing hydrogen from water with Fe enhanced by HS ²⁻ under mild hydrothermal conditions. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 760-768.	3.8	15
28	Stability, hardening and porosity evolution during hydrothermal solidification of sepiolite clay. <i>Applied Clay Science</i> , 2012, 69, 30-36.	2.6	14
29	Potential utilization of riverbed sediments by hydrothermal solidification and its hardening mechanism. <i>Journal of Environmental Management</i> , 2009, 90, 1744-1750.	3.8	11
30	Relationship between Porous and Mechanical Properties of Hydrothermally Synthesized Porous Materials from Diatomaceous Earth. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17865-17870.	1.8	11
31	Reduction of CO ₂ with water splitting hydrogen under subcritical and supercritical hydrothermal conditions. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9123-9127.	3.8	11
32	Effects of Metals and Ni ₃ S ₂ on Reactions of Sulfur Species (HS ⁻ , S, and S ₂ O ₃ ²⁻) under Alkaline Hydrothermal Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 5616-5625.	1.8	9
33	An intelligent humidity regulation material hydrothermally synthesized from ceramic waste. <i>Journal of Building Engineering</i> , 2021, 40, 102336.	1.6	9
34	Hydrothermal solidification of diatomaceous earth with analcime formation. <i>Research on Chemical Intermediates</i> , 2012, 38, 1637-1646.	1.3	7
35	Hydrothermal synthesis of pollucite with soil and incineration ash for Cs immobilization and its immobilizing mechanism and leaching property. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 319, 1083-1091.	0.7	7
36	Hydrothermal synthesis of a novel ecological revetment material by sediment mixed with biochar. <i>Journal of Cleaner Production</i> , 2021, 326, 129380.	4.6	7

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37	Production of carboxylic acids from glucose with metal oxides under hydrothermal conditions. <i>Research on Chemical Intermediates</i> , 2015, 41, 3201-3211.	1.3	6
38	Hydrothermal Synthesis of Amino-PVC/DE Composite and Its Adsorption Performance for Formaldehyde. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12934-12943.	1.8	6
39	A novel humidity regulating material hydrothermally synthesized from concrete waste. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 139-148.	1.6	5
40	Hydrothermal solidification of sepiolite into a cemented sepiolite aggregate for humidity regulation and formaldehyde removal. <i>Clay Minerals</i> , 2020, 55, 320-328.	0.2	5
41	A biocompatible diatomite-based material with yeast implantation for dye adsorption. <i>Materials Research Express</i> , 2019, 6, 095525.	0.8	4
42	Hardening mechanism of low-temperature (100°C) solidification of clay brick waste containing NaOH. <i>Research on Chemical Intermediates</i> , 2015, 41, 1373-1384.	1.3	3
43	Synthesis of a novel humidity self-regulating material from riverbed sediment for simulating cave dwellings performance. <i>Journal of Building Engineering</i> , 2018, 20, 15-20.	1.6	3
44	Hydrothermal conversion of analcime-pollucite solid solution from soil for immobilization of Cs in situ and its characterization. <i>Materials Research Express</i> , 2021, 8, 095512.	0.8	2
45	Bioinspired paddy-soil-like superior purification materials for sewage treatment. <i>Materials Letters</i> , 2019, 254, 226-229.	1.3	1
46	Reutilizing Paper Mill Sludge as Humidity Regulating Material by Hydrothermal Solidifying. <i>Waste and Biomass Valorization</i> , 0, , 1.	1.8	1