Zhenzi Jing

List of Publications by Year
in descending order

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 humidity regulating material hydrothermally synthetized from concrete waste. Journal of Material Cycles and Waste Management, 2021, 23, 139-148.	1.6	5
2	An intelligent humidity regulation material hydrothermally synthesized from ceramic waste. Journal of Building Engineering, 2021, 40, 102336.	1.6	9
3	Hydrothermal Synthesis of Amino-PVC/DE Composite and Its Adsorption Performance for Formaldehyde. Industrial & Engineering Chemistry Research, 2021, 60, 12934-12943.	1.8	6
4	Hydrothermal conversion of analcime-pollucite solid solution from soil for immobilization of Cs in situand its characterization. Materials Research Express, 2021, 8, 095512.	0.8	2
5	Hydrothermal synthesis of a novel ecological revetment material by sediment mixed with biochar. Journal of Cleaner Production, 2021, 326, 129380.	4.6	7
6	Hydrothermal solidification of sepiolite into a cemented sepiolite aggregate for humidity regulation and formaldehyde removal. Clay Minerals, 2020, 55, 320-328.	0.2	5
7	A biocompatible diatomite-based material with yeast implantation for dye adsorption. Materials Research Express, 2019, 6, 095525.	0.8	4
8	Bioinspired paddy-soil-like superior purification materials for sewage treatment. Materials Letters, 2019, 254, 226-229.	1.3	1
9	Ni and Zn/ZnO Synergistically Catalyzed Reduction of Bicarbonate into Formate with Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 42149-42155.	4.0	24
10	Hydrothermal synthesis of pollucite with soil and incineration ash for Cs immobilization and its immobilizing mechanism and leaching property. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 1083-1091.	0.7	7
11	Reduction of CO₂with H₂S in a simulated deep-sea hydrothermal vent system. Chemical Communications, 2019, 55, 1056-1059.	2.2	35
12	Hydrothermal conversion of Cs-polluted soil into pollucite for Cs immobilization. Chemical Engineering Journal, 2018, 336, 503-509.	6.6	35
13	Synthesis of a novel humidity self-regulating material from riverbed sediment for simulating cave dwellings performance. Journal of Building Engineering, 2018, 20, 15-20.	1.6	3
14	Synthesis of pollucite with Cs-polluted incineration ash mixed with soil for immobilization of radioactive Cs. Journal of Nuclear Materials, 2018, 510, 141-148.	1.3	20
15	Influence of pore dimensions of materials on humidity self-regulating performances. Materials Letters, 2017, 204, 23-26.	1.3	23
16	Potassium-chemical synthesis of 3D graphene from CO₂ and its excellent performance in HTM-free perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 7749-7752.	5.2	66
17	Hydrothermal synthesis of pollucite, analcime and their solid solutions and analysis of their properties. Journal of Nuclear Materials, 2017, 488, 63-69.	1.3	25
18	Mild hydrothermal synthesis of pollucite from soil for immobilization of Cs in situ and its characterization. Chemical Engineering Journal, 2016, 304, 344-350.	6.6	38

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19	Reduction of CO2 with water splitting hydrogen under subcritical and supercritical hydrothermal conditions. International Journal of Hydrogen Energy, 2016, 41, 9123-9127.	3.8	11
20	A novel hydrothermal method to convert incineration ash into pollucite for the immobilization of a simulant radioactive cesium. Journal of Hazardous Materials, 2016, 306, 220-229.	6.5	66
21	Hydrothermal synthesis of hardened diatomite-based adsorbents with analcime formation for methylene blue adsorption. RSC Advances, 2016, 6, 26765-26774.	1.7	16
22	Hardening mechanism of low-temperature (100ÂÂ°C) solidification of clay brick waste containing NaOH. Research on Chemical Intermediates, 2015, 41, 1373-1384.	1.3	3
23	Production of carboxylic acids from glucose with metal oxides under hydrothermal conditions. Research on Chemical Intermediates, 2015, 41, 3201-3211.	1.3	6
24	Synthesis and microstructure analysis of autoclaved aerated concrete with carbide slag addition. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 1005-1010.	0.4	17
25	One-Pot Hydrothermal Conversion of Cellulose into Organic Acids with CuO as an Oxidant. Industrial & Engineering Chemistry Research, 2014, 53, 7939-7946.	1.8	35
26	Selective conversion of glucose into lactic acid and acetic acid with copper oxide under hydrothermal conditions. AICHE Journal, 2013, 59, 2096-2104.	1.8	61
27	Catalytic activity of Ni3S2 and effects of reactor wall in hydrogen production from water with hydrogen sulphide as a reducer under hydrothermal conditions. Applied Energy, 2013, 104, 306-309.	5.1	15
28	A novel method for producing hydrogen from water with Fe enhanced by HSâ^' under mild hydrothermal conditions. International Journal of Hydrogen Energy, 2013, 38, 760-768.	3.8	15
29	Hydrothermal solidification behavior of municipal solid waste incineration bottom ash without any additives. Waste Management, 2013, 33, 1182-1189.	3.7	43
30	Hydrothermal Synthesis of Humidity-Regulating Material from Calcined Loess. Industrial & Engineering Chemistry Research, 2013, 52, 4779-4786.	1.8	22
31	Relationship between Porous and Mechanical Properties of Hydrothermally Synthesized Porous Materials from Diatomaceous Earth. Industrial & Engineering Chemistry Research, 2013, 52, 17865-17870.	1.8	11
32	Effects of Metals and Ni3S2 on Reactions of Sulfur Species (HSâ€“, S, and S2O32â€“) under Alkaline Hydrothermal Conditions. Industrial & Engineering Chemistry Research, 2013, 52, 5616-5625.	1.8	9
33	Hydrothermal solidification of diatomaceous earth with analcime formation. Research on Chemical Intermediates, 2012, 38, 1637-1646.	1.3	7
34	Solidification of MSWI Ash at Low Temperature of 100 Â°C. Industrial & Engineering Chemistry Research, 2012, 51, 9540-9545.	1.8	16
35	A Potentially Useful Technology by Mimicking Natureâ€”Rapid Conversion of Biomass and CO₂ into Chemicals and Fuels under Hydrothermal Conditions. Industrial & Engineering Chemistry Research, 2012, 51, 9921-9937.	1.8	39
36	Stability, hardening and porosity evolution during hydrothermal solidification of sepiolite clay. Applied Clay Science, 2012, 69, 30-36.	2.6	14

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37	Hydrothermal solidification of municipal solid waste incineration fly ash. Research on Chemical Intermediates, 2011, 37, 551-565.	1.3	40
38	Hydrothermal solidification of municipal solid waste incineration bottom ash with slag addition. Waste Management, 2010, 30, 1521-1527.	3.7	35
39	Potential utilization of riverbed sediments by hydrothermal solidification and its hardening mechanism. Journal of Environmental Management, 2009, 90, 1744-1750.	3.8	11
40	Influence of tobermorite formation on mechanical properties of hydrothermally solidified blast furnace slag. Journal of Materials Science, 2008, 43, 2356-2361.	1.7	22
41	Hydrothermal Synthesis of a Novel Tobermorite-Based Porous Material from Municipal Incineration Bottom Ash. Industrial & Engineering Chemistry Research, 2007, 46, 2657-2660.	1.8	42
42	Hydrothermal synthesis of mesoporous materials from diatomaceous earth. AICHE Journal, 2007, 53, 2114-2122.	1.8	35
43	Municipal incineration bottom ash treatment using hydrothermal solidification. Waste Management, 2007, 27, 287-293.	3.7	57
44	Hydrothermal solidification of blast furnace slag by formation of tobermorite. Journal of Materials Science, 2007, 42, 8236-8241.	1.7	34
45	Influence of Quartz Particle Size on Hydrothermal Solidification of Blast Furnace Slag. Industrial & Engineering Chemistry Research, 2006, 45, 7470-7474.	1.8	21
46	Reutilizing Paper Mill Sludge as Humidity Regulating Material by Hydrothermal Solidifying. Waste and Biomass Valorization, 0, , 1.	1.8	1