

# Zhenzi Jing

## List of Publications by Year in descending order

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46  
papers

1,019  
citations

361413  
20  
h-index

434195  
31  
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46  
all docs

46  
docs citations

46  
times ranked

888  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel humidity regulating material hydrothermally synthesized from concrete waste. Journal of Material Cycles and Waste Management, 2021, 23, 139-148.	3.0	5
2	An intelligent humidity regulation material hydrothermally synthesized from ceramic waste. Journal of Building Engineering, 2021, 40, 102336.	3.4	9
3	Hydrothermal Synthesis of Amino-PVC/DE Composite and Its Adsorption Performance for Formaldehyde. Industrial & Engineering Chemistry Research, 2021, 60, 12934-12943.	3.7	6
4	Hydrothermal conversion of analcime-pollucite solid solution from soil for immobilization of Cs in situ and its characterization. Materials Research Express, 2021, 8, 095512.	1.6	2
5	Hydrothermal synthesis of a novel ecological revetment material by sediment mixed with biochar. Journal of Cleaner Production, 2021, 326, 129380.	9.3	7
6	Hydrothermal solidification of sepiolite into a cemented sepiolite aggregate for humidity regulation and formaldehyde removal. Clay Minerals, 2020, 55, 320-328.	0.6	5
7	A biocompatible diatomite-based material with yeast implantation for dye adsorption. Materials Research Express, 2019, 6, 095525.	1.6	4
8	Bioinspired paddy-soil-like superior purification materials for sewage treatment. Materials Letters, 2019, 254, 226-229.	2.6	1
9	Ni and Zn/ZnO Synergistically Catalyzed Reduction of Bicarbonate into Formate with Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 42149-42155.	8.0	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.	1.5	7
11	Reduction of CO <sub>2</sub> with H <sub>2</sub> S in a simulated deep-sea hydrothermal vent system. Chemical Communications, 2019, 55, 1056-1059.	4.1	35
12	Hydrothermal conversion of Cs-polluted soil into pollucite for Cs immobilization. Chemical Engineering Journal, 2018, 336, 503-509.	12.7	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.	3.4	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.	2.7	20
15	Influence of pore dimensions of materials on humidity self-regulating performances. Materials Letters, 2017, 204, 23-26.	2.6	23
16	Potassium-chemical synthesis of 3D graphene from CO <sub>2</sub> and its excellent performance in HTM-free perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 7749-7752.	10.3	66
17	Hydrothermal synthesis of pollucite, analcime and their solid solutions and analysis of their properties. Journal of Nuclear Materials, 2017, 488, 63-69.	2.7	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.	12.7	38

#	ARTICLE	IF	CITATIONS
19	Reduction of CO <sub>2</sub> with water splitting hydrogen under subcritical and supercritical hydrothermal conditions. International Journal of Hydrogen Energy, 2016, 41, 9123-9127.	7.1	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.	12.4	66
21	Hydrothermal synthesis of hardened diatomite-based adsorbents with analcime formation for methylene blue adsorption. RSC Advances, 2016, 6, 26765-26774.	3.6	16
22	Hardening mechanism of low-temperature (100°C) solidification of clay brick waste containing NaOH. Research on Chemical Intermediates, 2015, 41, 1373-1384.	2.7	3
23	Production of carboxylic acids from glucose with metal oxides under hydrothermal conditions. Research on Chemical Intermediates, 2015, 41, 3201-3211.	2.7	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.	1.0	17
25	One-Pot Hydrothermal Conversion of Cellulose into Organic Acids with CuO as an Oxidant. Industrial & Engineering Chemistry Research, 2014, 53, 7939-7946.	3.7	35
26	Selective conversion of glucose into lactic acid and acetic acid with copper oxide under hydrothermal conditions. AIChE Journal, 2013, 59, 2096-2104.	3.6	61
27	Catalytic activity of Ni <sub>3</sub> S <sub>2</sub> 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.	10.1	15
28	A novel method for producing hydrogen from water with Fe enhanced by HS <sup>-</sup> under mild hydrothermal conditions. International Journal of Hydrogen Energy, 2013, 38, 760-768.	7.1	15
29	Hydrothermal solidification behavior of municipal solid waste incineration bottom ash without any additives. Waste Management, 2013, 33, 1182-1189.	7.4	43
30	Hydrothermal Synthesis of Humidity-Regulating Material from Calcined Loess. Industrial & Engineering Chemistry Research, 2013, 52, 4779-4786.	3.7	22
31	Relationship between Porous and Mechanical Properties of Hydrothermally Synthesized Porous Materials from Diatomaceous Earth. Industrial & Engineering Chemistry Research, 2013, 52, 17865-17870.	3.7	11
32	Effects of Metals and Ni <sub>3</sub> S <sub>2</sub> on Reactions of Sulfur Species (HS <sup>-</sup> , S, and S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> ) under Alkaline Hydrothermal Conditions. Industrial & Engineering Chemistry Research, 2013, 52, 5616-5625.	3.7	9
33	Hydrothermal solidification of diatomaceous earth with analcime formation. Research on Chemical Intermediates, 2012, 38, 1637-1646.	2.7	7
34	Solidification of MSWI Ash at Low Temperature of 100 °C. Industrial & Engineering Chemistry Research, 2012, 51, 9540-9545.	3.7	16
35	A Potentially Useful Technology by Mimicking Nature—Rapid Conversion of Biomass and CO <sub>2</sub> into Chemicals and Fuels under Hydrothermal Conditions. Industrial & Engineering Chemistry Research, 2012, 51, 9921-9937.	3.7	39
36	Stability, hardening and porosity evolution during hydrothermal solidification of sepiolite clay. Applied Clay Science, 2012, 69, 30-36.	5.2	14

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37	Hydrothermal solidification of municipal solid waste incineration fly ash. Research on Chemical Intermediates, 2011, 37, 551-565.	2.7	40
38	Hydrothermal solidification of municipal solid waste incineration bottom ash with slag addition. Waste Management, 2010, 30, 1521-1527.	7.4	35
39	Potential utilization of riverbed sediments by hydrothermal solidification and its hardening mechanism. Journal of Environmental Management, 2009, 90, 1744-1750.	7.8	11
40	Influence of tobermorite formation on mechanical properties of hydrothermally solidified blast furnace slag. Journal of Materials Science, 2008, 43, 2356-2361.	3.7	22
41	Hydrothermal Synthesis of a Novel Tobermorite-Based Porous Material from Municipal Incineration Bottom Ash. Industrial & Engineering Chemistry Research, 2007, 46, 2657-2660.	3.7	42
42	Hydrothermal synthesis of mesoporous materials from diatomaceous earth. AIChE Journal, 2007, 53, 2114-2122.	3.6	35
43	Municipal incineration bottom ash treatment using hydrothermal solidification. Waste Management, 2007, 27, 287-293.	7.4	57
44	Hydrothermal solidification of blast furnace slag by formation of tobermorite. Journal of Materials Science, 2007, 42, 8236-8241.	3.7	34
45	Influence of Quartz Particle Size on Hydrothermal Solidification of Blast Furnace Slag. Industrial & Engineering Chemistry Research, 2006, 45, 7470-7474.	3.7	21
46	Reutilizing Paper Mill Sludge as Humidity Regulating Material by Hydrothermal Solidifying. Waste and Biomass Valorization, 0, , 1.	3.4	1