

# Yao Jun Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1145848/publications.pdf>

Version: 2024-02-01

47  
papers

1,477  
citations

304743

22  
h-index

330143

37  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1022  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust structure regulation of geopolymer as novel efficient amine support to prepare high-efficiency CO <sub>2</sub> capture solid sorbent. <i>Chemical Engineering Journal</i> , 2022, 427, 131577.	12.7	38
2	A comparative study on energy efficient CO <sub>2</sub> capture using amine grafted solid sorbent: Materials characterization, isotherms, kinetics and thermodynamics. <i>Energy</i> , 2022, 239, 122348.	8.8	22
3	Development of porous and reusable geopolymer adsorbents for dye wastewater treatment. <i>Journal of Cleaner Production</i> , 2022, 348, 131278.	9.3	35
4	Highly-effective production of renewable energy dimethyl ether over geopolymer-based ferrierite. <i>Fuel</i> , 2021, 293, 120486.	6.4	9
5	Potential of Cost-Effective Phosphoric Acid-Based Geopolymer as Photocatalyst for Dye Wastewater Degradation. <i>Integrated Ferroelectrics</i> , 2021, 218, 208-214.	0.7	0
6	Diverse zeolites derived from a circulating fluidized bed fly ash based geopolymer for the adsorption of lead ions from wastewater. <i>Journal of Cleaner Production</i> , 2021, 312, 127769.	9.3	48
7	Development of a facile and robust silicomanganese slag-based geopolymer membrane for oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127072.	4.7	14
8	Synthesis of fly ash cenospheres-based hollow ABW zeolite for dye removal via the coupling of adsorption and photocatalysis. <i>Advanced Powder Technology</i> , 2021, 32, 3436-3446.	4.1	12
9	Waste-to-resource strategies for the use of circulating fluidized bed fly ash in construction materials: A mini review. <i>Powder Technology</i> , 2021, 393, 773-785.	4.2	34
10	Synthesis, characterization, and selective CO <sub>2</sub> capture performance of a new type of activated carbon-geopolymer composite adsorbent. <i>Journal of Cleaner Production</i> , 2021, 325, 129271.	9.3	21
11	Renewable conversion of slag to graphene geopolymer for H <sub>2</sub> production and wastewater treatment. <i>Catalysis Today</i> , 2020, 355, 325-332.	4.4	16
12	High value-added utilization of silica fume to synthesize ZSM-35 zeolite membrane for Cd <sup>2+</sup> removal. <i>Materials Letters</i> , 2020, 260, 126940.	2.6	16
13	Facile synthesis of cost-effective iron enhanced hetero-structure activated carbon/geopolymer composite catalyst for NH <sub>3</sub> -SCR: Insight into the role of iron species. <i>Applied Catalysis A: General</i> , 2020, 605, 117804.	4.3	19
14	Development of an electroconductive carbon fiber/circulating fluidized bed fly ash based-geopolymer composite for high-efficiency treatment of dye wastewater. <i>Ferroelectrics</i> , 2020, 565, 1-11.	0.6	2
15	Characterization of ZSM-5 monolith as solid sorbent for Ni <sup>2+</sup> removal. <i>Ferroelectrics</i> , 2020, 564, 153-161.	0.6	0
16	Novel activated carbon route to low-cost geopolymer based porous composite with high mechanical resistance and enhanced CO <sub>2</sub> capacity. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110282.	4.4	29
17	Low-cost and facile synthesis of geopolymer-zeolite composite membrane for chromium(VI) separation from aqueous solution. <i>Journal of Hazardous Materials</i> , 2020, 392, 122359.	12.4	81
18	Coupling of self-supporting geopolymer membrane with intercepted Cr(III) for dye wastewater treatment by hybrid photocatalysis and membrane separation. <i>Applied Surface Science</i> , 2020, 515, 146024.	6.1	60

#	ARTICLE	IF	CITATIONS
19	Geopolymer-based catalysts for cost-effective environmental governance: A review based on source control and end-of-pipe treatment. <i>Journal of Cleaner Production</i> , 2020, 263, 121556.	9.3	38
20	Cost-effective and facile one step synthesis of ZSM-5 from silica fume waste with the aid of metakaolin and its NO <sub>x</sub> removal performance. <i>Powder Technology</i> , 2020, 367, 558-567.	4.2	11
21	DFT Studies on Al Distribution and Bronsted Acid Sites in Zeolite ECR-1. <i>Integrated Ferroelectrics</i> , 2020, 207, 118-124.	0.7	4
22	Low-energy synthesis of kaliophilite catalyst from circulating fluidized bed fly ash for biodiesel production. <i>Fuel</i> , 2019, 257, 116041.	6.4	32
23	Synthesis, characterization and modification of monolithic ZSM-5 from geopolymer for CO <sub>2</sub> capture: Experiments and DFT calculations. <i>Energy</i> , 2019, 179, 422-430.	8.8	31
24	Development of an eco-efficient CaMoO <sub>4</sub> /electroconductive geopolymer composite for recycling silicomanganese slag and degradation of dye wastewater. <i>Journal of Cleaner Production</i> , 2019, 208, 1476-1487.	9.3	55
25	Developing silica fume-based self-supported ECR-1 zeolite membrane for seawater desalination. <i>Materials Letters</i> , 2019, 236, 538-541.	2.6	21
26	Synthesis of environment-friendly graphene reinforced slag-based nanocomposite and performance of photocatalytic H <sub>2</sub> generation. <i>Ferroelectrics</i> , 2018, 522, 36-44.	0.6	9
27	A novel CdO/graphene alkali-activated steel slag nanocomposite for photocatalytic degradation of dye wastewater. <i>Ferroelectrics</i> , 2018, 522, 1-8.	0.6	13
28	A novel electroconductive graphene/fly ash-based geopolymer composite and its photocatalytic performance. <i>Chemical Engineering Journal</i> , 2018, 334, 2459-2466.	12.7	73
29	Green Transforming Metallurgical Residue into Alkali-Activated Silicomanganese Slag-Based Cementitious Material as Photocatalyst. <i>Materials</i> , 2018, 11, 1773.	2.9	13
30	Preparation, characterization and photocatalytic activity of novel CeO <sub>2</sub> loaded porous alkali-activated steel slag-based binding material. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17341-17349.	7.1	40
31	Photocatalytic degradation of malachite green by a novel CeO <sub>2</sub> loaded alkali-activated steel slag-based nanocomposite. <i>Integrated Ferroelectrics</i> , 2017, 180, 108-117.	0.7	4
32	A new graphene bottom ash geopolymeric composite for photocatalytic H <sub>2</sub> production and degradation of dyeing wastewater. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20589-20598.	7.1	33
33	A new In <sub>2</sub> O <sub>3</sub> and NiO co-loaded fly ash-based nanostructural geopolymer for photocatalytic H <sub>2</sub> evolution. <i>Integrated Ferroelectrics</i> , 2017, 182, 1-9.	0.7	8
34	Synthesis of eco-friendly CaWO <sub>4</sub> /CSH nanocomposite and photocatalytic degradation of dyeing pollutant. <i>Integrated Ferroelectrics</i> , 2017, 181, 113-122.	0.7	7
35	A new CaWO <sub>4</sub> /alkali-activated blast furnace slag-based cementitious composite for production of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3690-3697.	7.1	24
36	A novel V-doped CeO <sub>2</sub> loaded alkali-activated steel slag-based nanocomposite for photocatalytic degradation of malachite green. <i>Integrated Ferroelectrics</i> , 2016, 170, 1-9.	0.7	9

#	ARTICLE	IF	CITATIONS
37	A new graphene/geopolymer nanocomposite for degradation of dye wastewater. Integrated Ferroelectrics, 2016, 171, 38-45.	0.7	22
38	Alkali-Activated Steel Slag-Based Mesoporous Material as a New Photocatalyst for Degradation of Dye from Wastewater. Integrated Ferroelectrics, 2015, 162, 8-17.	0.7	10
39	Synthesis of a novel alkali-activated magnesium slag-based nanostructural composite and its photocatalytic performance. Applied Surface Science, 2015, 331, 399-406.	6.1	19
40	A Novel Alkali-activated Magnesium Slag-based Nanocomposite for Photocatalytic Production of Hydrogen. Integrated Ferroelectrics, 2014, 154, 120-127.	0.7	9
41	Alkali-activated blast furnace slag-based nanomaterial as a novel catalyst for synthesis of hydrogen fuel. Fuel, 2014, 115, 84-87.	6.4	31
42	Fly ash-based geopolymer as a novel photocatalyst for degradation of dye from wastewater. Particuology, 2013, 11, 353-358.	3.6	111
43	A facile and low-cost synthesis of granulated blast furnace slag-based cementitious material coupled with Fe <sub>2</sub> O <sub>3</sub> catalyst for treatment of dye wastewater. Applied Catalysis B: Environmental, 2013, 138-139, 9-16.	20.2	72
44	Microstructural and strength evolutions of geopolymer composite reinforced by resin exposed to elevated temperature. Journal of Non-Crystalline Solids, 2012, 358, 620-624.	3.1	106
45	A new alkali-activated steel slag-based cementitious material for photocatalytic degradation of organic pollutant from waste water. Journal of Hazardous Materials, 2012, 209-210, 146-150.	12.4	78
46	Mechanical performance and hydration mechanism of geopolymer composite reinforced by resin. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6574-6580.	5.6	96
47	A novel method for preparation of organic resins reinforced geopolymer composites. Journal of Materials Science, 2010, 45, 1189-1192.	3.7	42