# Yao Jun Zhang

List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | Fly ash-based geopolymer as a novel photocatalyst for degradation of dye from wastewater. Particuology, 2013, 11, 353-358. | 3.6 | 111 |
| 2 | 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 |
| 3 | 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 |
| 4 | Low-cost and facile synthesis of geopolymer-zeolite composite membrane for chromium(VI) separation from aqueous solution. Journal of Hazardous Materials, 2020, 392, 122359. | 12.4 | 81 |
| 5 | 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 |
| 6 | A novel electroconductive graphene/fly ash-based geopolymer composite and its photocatalytic performance. Chemical Engineering Journal, 2018, 334, 2459-2466. | 12.7 | 73 |
| 7 | A facile and low-cost synthesis of granulated blast furnace slag-based cementitious material coupled with Fe2O3 catalyst for treatment of dye wastewater. Applied Catalysis B: Environmental, 2013, 138-139, 9-16. | 20.2 | 72 |
| 8 | Coupling of self-supporting geopolymer membrane with intercepted Cr(III) for dye wastewater treatment by hybrid photocatalysis and membrane separation. Applied Surface Science, 2020, 515, 146024. | 6.1 | 60 |
| 9 | Development of an eco-efficient CaMoO4/electroconductive geopolymer composite for recycling silicomanganese slag and degradation of dye wastewater. Journal of Cleaner Production, 2019, 208, 1476-1487. | 9.3 | 55 |
| 10 | Diverse zeolites derived from a circulating fluidized bed fly ash based geopolymer for the adsorption of lead ions from wastewater. Journal of Cleaner Production, 2021, 312, 127769. | 9.3 | 48 |
| 11 | A novel method for preparation of organic resins reinforced geopolymer composites. Journal of Materials Science, 2010, 45, 1189-1192. | 3.7 | 42 |
| 12 | Preparation, characterization and photocatalytic activity of novel CeO2 loaded porous alkali-activated steel slag-based binding material. International Journal of Hydrogen Energy, 2017, 42, 17341-17349. | 7.1 | 40 |
| 13 | Geopolymer-based catalysts for cost-effective environmental governance: A review based on source control and end-of-pipe treatment. Journal of Cleaner Production, 2020, 263, 121556. | 9.3 | 38 |
| 14 | Robust structure regulation of geopolymer as novel efficient amine support to prepare high-efficiency CO2 capture solid sorbent. Chemical Engineering Journal, 2022, 427, 131577. | 12.7 | 38 |
| 15 | Development of porous and reusable geopolymer adsorbents for dye wastewater treatment. Journal of Cleaner Production, 2022, 348, 131278. | 9.3 | 35 |
| 16 | Waste-to-resource strategies for the use of circulating fluidized bed fly ash in construction materials: A mini review. Powder Technology, 2021, 393, 773-785. | 4.2 | 34 |
| 17 | A new graphene bottom ash geopolymeric composite for photocatalytic H 2 production and degradation of dyeing wastewater. International Journal of Hydrogen Energy, 2017, 42, 20589-20598. | 7.1 | 33 |
| 18 | Low-energy synthesis of kaliophilite catalyst from circulating fluidized bed fly ash for biodiesel production. Fuel, 2019, 257, 116041. | 6.4 | 32 |

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|---|---|---|---|
| 19 | Alkali-activated blast furnace slag-based nanomaterial as a novel catalyst for synthesis of hydrogen fuel. Fuel, 2014, 115, 84-87. | 6.4 | 31 |
| 20 | Synthesis, characterization and modification of monolithic ZSM-5 from geopolymer for CO2 capture: Experiments and DFT calculations. Energy, 2019, 179, 422-430. | 8.8 | 31 |
| 21 | Novel activated carbon route to low-cost geopolymer based porous composite with high mechanical resistance and enhanced CO2 capacity. Microporous and Mesoporous Materials, 2020, 305, 110282. | 4.4 | 29 |
| 22 | A new CaWO4/alkali-activated blast furnace slag-based cementitious composite for production of hydrogen. International Journal of Hydrogen Energy, 2017, 42, 3690-3697. | 7.1 | 24 |
| 23 | A new graphene/geopolymer nanocomposite for degradation of dye wastewater. Integrated Ferroelectrics, 2016, 171, 38-45. | 0.7 | 22 |
| 24 | A comparative study on energy efficient CO2 capture using amine grafted solid sorbent: Materials characterization, isotherms, kinetics and thermodynamics. Energy, 2022, 239, 122348. | 8.8 | 22 |
| 25 | Developing silica fume-based self-supported ECR-1 zeolite membrane for seawater desalination. Materials Letters, 2019, 236, 538-541. | 2.6 | 21 |
| 26 | Synthesis, characterization, and selective CO2 capture performance of a new type of activated carbon-geopolymer composite adsorbent. Journal of Cleaner Production, 2021, 325, 129271. | 9.3 | 21 |
| 27 | 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 |
| 28 | Facile synthesis of cost-effective iron enhanced hetero-structure activated carbon/geopolymer composite catalyst for NH3-SCR: Insight into the role of iron species. Applied Catalysis A: General, 2020, 605, 117804. | 4.3 | 19 |
| 29 | Renewable conversion of slag to graphene geopolymer for H2 production and wastewater treatment. Catalysis Today, 2020, 355, 325-332. | 4.4 | 16 |
| 30 | High value-added utilization of silica fume to synthesize ZSM-35 zeolite membrane for Cd2+ removal. Materials Letters, 2020, 260, 126940. | 2.6 | 16 |
| 31 | Development of a facile and robust silicomanganese slag-based geopolymer membrane for oil/water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127072. | 4.7 | 14 |
| 32 | A novel CdO/graphene alkali-activated steel slag nanocomposite for photocatalytic degradation of dye wastewater. Ferroelectrics, 2018, 522, 1-8. | 0.6 | 13 |
| 33 | Green Transforming Metallurgical Residue into Alkali-Activated Silicomanganese Slag-Based Cementitious Material as Photocatalyst. Materials, 2018, 11, 1773. | 2.9 | 13 |
| 34 | Synthesis of fly ash cenospheres-based hollow ABW zeolite for dye removal via the coupling of adsorption and photocatalysis. Advanced Powder Technology, 2021, 32, 3436-3446. | 4.1 | 12 |
| 35 | Cost-effective and facile one step synthesis of ZSM-5 from silica fume waste with the aid of metakaolin and its NOx removal performance. Powder Technology, 2020, 367, 558-567. | 4.2 | 11 |
| 36 | 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 |

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|---|---|---|---|
| 37 | A Novel Alkali-activated Magnesium Slag-based Nanocomposite for Photocatalytic Production of Hydrogen. Integrated Ferroelectrics, 2014, 154, 120-127. | 0.7 | 9 |
| 38 | A novel V-doped CeO<sub>2</sub>loaded alkali-activated steel slag-based nanocomposite for photocatalytic degradation of malachite green. Integrated Ferroelectrics, 2016, 170, 1-9. | 0.7 | 9 |
| 39 | Synthesis of environment-friendly graphene reinforced slag-based nanocomposite and performance of photocatalytic H2 generation. Ferroelectrics, 2018, 522, 36-44. | 0.6 | 9 |
| 40 | Highly-effective production of renewable energy dimethyl ether over geopolymer-based ferrierite. Fuel, 2021, 293, 120486. | 6.4 | 9 |
| 41 | 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. Integrated Ferroelectrics, 2017, 182, 1-9. | 0.7 | 8 |
| 42 | Synthesis of eco-friendly CaWO<sub>4</sub>/CSH nanocomposite and photocatalytic degradation of dyeing pollutant. Integrated Ferroelectrics, 2017, 181, 113-122. | 0.7 | 7 |
| 43 | Photocatalytic degradation of malachite green by a novel CeO<sub>2</sub> loaded alkali-activated steel slag-based nanocomposite. Integrated Ferroelectrics, 2017, 180, 108-117. | 0.7 | 4 |
| 44 | DFT Studies on Al Distribution and Bronsted Acid Sites in Zeolite ECR-1. Integrated Ferroelectrics, 2020, 207, 118-124. | 0.7 | 4 |
| 45 | Development of an electroconductive carbon fiber/circulating fluidized bed fly ash based-geopolymer composite for high-efficiency treatment of dye wastewater. Ferroelectrics, 2020, 565, 1-11. | 0.6 | 2 |
| 46 | Characterization of ZSM-5 monolith as solid sorbent for Ni2+ removal. Ferroelectrics, 2020, 564, 153-161. | 0.6 | 0 |
| 47 | Potential of Cost-Effective Phosphoric Acid-Based Geopolymer as Photocatalyst for Dye Wastewater Degradation. Integrated Ferroelectrics, 2021, 218, 208-214. | 0.7 | 0 |