

# Zhenghua Zhang

## List of Publications by Citations

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70  
papers

1,416  
citations

24  
h-index

35  
g-index

75  
ext. papers

2,222  
ext. citations

11  
avg, IF

5.84  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 70 | Effect of ferric and ferrous iron addition on phosphorus removal and fouling in submerged membrane bioreactors. <i>Water Research</i> , <b>2015</b> , 69, 210-222   | 12.5 | 91        |
| 69 | Effect of pre-ozonation on mitigation of ceramic UF membrane fouling caused by algal extracellular organic matters. <i>Chemical Engineering Journal</i> , <b>2016</b> , 294, 157-166  | 14.7 | 81        |
| 68 | Effect of in-situ ozonation on ceramic UF membrane fouling mitigation in algal-rich water treatment. <i>Journal of Membrane Science</i> , <b>2016</b> , 498, 116-124  | 9.6  | 73        |
| 67 | Z-scheme photocatalytic production of hydrogen peroxide over Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructure under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119251 | 21.8 | 60        |
| 66 | Capacitive deionization with nitrogen-doped highly ordered mesoporous carbon electrodes. <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122514  | 14.7 | 58        |
| 65 | Effect of zero shear viscosity of the casting solution on the morphology and permeability of polysulfone membrane prepared via the phase-inversion process. <i>Desalination</i> , <b>2010</b> , 260, 43-50  | 10.3 | 57        |
| 64 | Ceramic membrane technology for water and wastewater treatment: A critical review of performance, full-scale applications, membrane fouling and prospects. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129481                              | 14.7 | 51        |
| 63 | TiO <sub>2</sub> -based catalysts for photocatalytic reduction of aqueous oxyanions: State-of-the-art and future prospects. <i>Environment International</i> , <b>2020</b> , 136, 105453  | 12.9 | 44        |
| 62 | New insight into the effect of mixed liquor properties changed by pre-ozonation on ceramic UF membrane fouling in wastewater treatment. <i>Chemical Engineering Journal</i> , <b>2017</b> , 314, 670-680  | 14.7 | 40        |
| 61 | Removal of calcium ions from water by selective electrosorption using target-ion specific nanocomposite electrode. <i>Water Research</i> , <b>2019</b> , 160, 445-453   | 12.5 | 39        |
| 60 | Does pre-ozonation or in-situ ozonation really mitigate the protein-based ceramic membrane fouling in the integrated process of ozonation coupled with ceramic membrane filtration?. <i>Journal of Membrane Science</i> , <b>2018</b> , 548, 254-262    | 9.6  | 39        |
| 59 | Capacitive deionization using commercial activated carbon fiber decorated with polyaniline. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 537, 247-255  | 9.3  | 37        |
| 58 | MoS <sub>2</sub> /RGO composites for photocatalytic degradation of ranitidine and elimination of NDMA formation potential under visible light. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123084  | 14.7 | 36        |
| 57 | Double-win effects of in-situ ozonation on improved filterability of mixed liquor and ceramic UF membrane fouling mitigation in wastewater treatment?. <i>Journal of Membrane Science</i> , <b>2017</b> , 533, 112-120                                  | 9.6  | 35        |
| 56 | Fabrication of polysulfone ultrafiltration membranes of a density gradient cross section with good anti-pressure stability and relatively high water flux. <i>Desalination</i> , <b>2011</b> , 269, 239-248   | 10.3 | 35        |
| 55 | Comparison of long-term ceramic membrane bioreactors without and with in-situ ozonation in wastewater treatment: Membrane fouling, effluent quality and microbial community. <i>Science of the Total Environment</i> , <b>2019</b> , 652, 788-799       | 10.2 | 34        |
| 54 | Fe(II)-dosed ceramic membrane bioreactor for wastewater treatment: Nutrient removal, microbial community and membrane fouling analysis. <i>Science of the Total Environment</i> , <b>2019</b> , 664, 116-126  | 10.2 | 32        |

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|----|--|------|----|
| 53 | Capacitive deionization with MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> electrodes. <i>Desalination</i> , <b>2020</b> , 479, 114348   | 10.3 | 32 |
| 52 | A comparative study of pre-ozonation and in-situ ozonation on mitigation of ceramic UF membrane fouling caused by alginate. <i>Journal of Membrane Science</i> , <b>2017</b> , 538, 50-57  | 9.6  | 31 |
| 51 | Fabrication and characterization of novel SiO <sub>2</sub> -PAMPS/PSF hybrid ultrafiltration membrane with high water flux. <i>Desalination</i> , <b>2012</b> , 297, 59-71   | 10.3 | 28 |
| 50 | Catalytic degradation of ranitidine using novel magnetic Ti <sub>3</sub> C <sub>2</sub> -based MXene nanosheets modified with nanoscale zero-valent iron particles. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 284, 119720                              | 21.8 | 28 |
| 49 | Photocatalytic degradation of ranitidine and reduction of nitrosamine dimethylamine formation potential over MXene-TiC/MoS under visible light irradiation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125424  | 12.8 | 26 |
| 48 | Cleaning strategies for iron-fouled membranes from submerged membrane bioreactor treatment of wastewaters. <i>Journal of Membrane Science</i> , <b>2015</b> , 475, 9-21  | 9.6  | 25 |
| 47 | Electrochemical membrane bioreactors: State-of-the-art and future prospects. <i>Science of the Total Environment</i> , <b>2020</b> , 741, 140233   | 10.2 | 24 |
| 46 | Integration of ferrate (VI) pretreatment and ceramic membrane reactor for membrane fouling mitigation in reclaimed water treatment. <i>Journal of Membrane Science</i> , <b>2018</b> , 552, 315-325  | 9.6  | 23 |
| 45 | Fate and role of fluorescence moieties in extracellular polymeric substances during biological wastewater treatment: A review. <i>Science of the Total Environment</i> , <b>2020</b> , 718, 137291   | 10.2 | 22 |
| 44 | Synergistic effects of combining ozonation, ceramic membrane filtration and biologically active carbon filtration for wastewater reclamation. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 382, 121091  | 12.8 | 22 |
| 43 | Coupling in-situ ozonation with ferric chloride addition for ceramic ultrafiltration membrane fouling mitigation in wastewater treatment: Quantitative fouling analysis. <i>Journal of Membrane Science</i> , <b>2018</b> , 555, 307-317                               | 9.6  | 21 |
| 42 | Powdered activated carbon - Membrane bioreactor (PAC-MBR): Impacts of high PAC concentration on micropollutant removal and microbial communities. <i>Science of the Total Environment</i> , <b>2020</b> , 745, 141090  | 10.2 | 20 |
| 41 | Exploring the relative changes in dissolved organic matter for assessing the water quality of full-scale drinking water treatment plants using a fluorescence ratio approach. <i>Water Research</i> , <b>2020</b> , 183, 116125  | 12.5 | 18 |
| 40 | Rapid and long-lasting acceleration of zero-valent iron nanoparticles@Ti <sub>3</sub> C <sub>2</sub> -based MXene/peroxymonosulfate oxidation with bi-active centers toward ranitidine removal. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 19817-19833 | 13   | 18 |
| 39 | Solar driven self-sustainable photoelectrochemical bacteria inactivation in scale-up reactor utilizing large-scale fabricable Ti/MoS/MoO photoanode. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122292   | 12.8 | 17 |
| 38 | A comparative study of ferrous, ferric and ferrate pretreatment for ceramic membrane fouling alleviation in reclaimed water treatment. <i>Separation and Purification Technology</i> , <b>2019</b> , 217, 118-127  | 8.3  | 17 |
| 37 | Novel MoS <sub>2</sub> /NOMC electrodes with enhanced capacitive deionization performances. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128200  | 14.7 | 16 |
| 36 | Coupling ferrate pretreatment and in-situ ozonation/ceramic membrane filtration for wastewater reclamation: Water quality and membrane fouling. <i>Journal of Membrane Science</i> , <b>2019</b> , 590, 117310   | 9.6  | 15 |

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|----|--|------|----|
| 35 | Fenton cleaning strategy for ceramic membrane fouling in wastewater treatment. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 85, 189-199  | 6.4  | 14 |
| 34 | Synergistic effect of ferrate (VI)-ozone integrated pretreatment on the improvement of water quality and fouling alleviation of ceramic UF membrane in reclaimed water treatment. <i>Journal of Membrane Science</i> , <b>2018</b> , 567, 216-227  | 9.6  | 13 |
| 33 | Ascorbic acid-mediated reductive cleaning of iron-fouled membranes from submerged membrane bioreactors. <i>Journal of Membrane Science</i> , <b>2015</b> , 477, 194-202  | 9.6  | 12 |
| 32 | Seasonal occurrence of N-nitrosamines and their association with dissolved organic matter in full-scale drinking water systems: Determination by LC-MS and EEM-PARAFAC. <i>Water Research</i> , <b>2020</b> , 183, 116096                          | 12.5 | 12 |
| 31 | TiO <sub>2</sub> /g-CN Visible Light Photocatalytic Performance on Hypophosphite Oxidation: Effect of Annealing Temperature. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 37   | 5    | 11 |
| 30 | Evaluating the impacts of a high concentration of powdered activated carbon in a ceramic membrane bioreactor: Mixed liquor properties, hydraulic performance and fouling mechanism. <i>Journal of Membrane Science</i> , <b>2020</b> , 616, 118561 | 9.6  | 10 |
| 29 | Elucidating the impacts of intermittent in-situ ozonation in a ceramic membrane bioreactor: Micropollutant removal, microbial community evolution and fouling mechanisms. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123730        | 12.8 | 10 |
| 28 | TiO <sub>2</sub> /g-CN for Visible Light Photocatalytic Oxidation of Hypophosphite: Effect of Mass Ratio of TiO <sub>2</sub> /g-CN. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 313   | 5    | 9  |
| 27 | Characterization of dissolved organic matter for understanding the adsorption on nanomaterials in aquatic environment: A review. <i>Chemosphere</i> , <b>2021</b> , 269, 128690  | 8.4  | 9  |
| 26 | Photo-electrochemical oxidation of hypophosphite and phosphorous recovery by UV/Fe <sup>2+</sup> /peroxydisulfate with electrochemical process. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 1075-1083                                 | 14.7 | 8  |
| 25 | Allogenic organic matter fouling alleviation in membrane distillation by peroxymonosulfate (PMS): Role of PMS concentration and activation temperature. <i>Desalination</i> , <b>2021</b> , 516, 115225  | 10.3 | 6  |
| 24 | Gravity-driven layered double hydroxide nanosheet membrane activated peroxymonosulfate system for micropollutant degradation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 425, 127988  | 12.8 | 5  |
| 23 | Synergistic mechanism of combined ferrate and ultrafiltration process for shale gas wastewater treatment. <i>Journal of Membrane Science</i> , <b>2021</b> , 641, 119921   | 9.6  | 5  |
| 22 | Study on removal of organic matters in water by PVA modified PA-TFC nanofiltration membrane. <i>Desalination and Water Treatment</i> , <b>2011</b> , 34, 75-80   |      | 4  |
| 21 | Honeycomb-like holey CoO membrane triggered peroxymonosulfate activation for rapid degradation of organic contaminants. <i>Science of the Total Environment</i> , <b>2021</b> , 814, 152698  | 10.2 | 4  |
| 20 | Potential application of machine learning for exploring adsorption mechanisms of pharmaceuticals onto biochars. <i>Chemosphere</i> , <b>2022</b> , 287, 132203   | 8.4  | 4  |
| 19 | Ligand-promoted reductive cleaning of iron-fouled membranes from submerged membrane bioreactors. <i>Journal of Membrane Science</i> , <b>2018</b> , 545, 126-132   | 9.6  | 3  |
| 18 | Two-dimensional nanoporous and lamellar membranes for water purification: Reality or a myth?. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134335  | 14.7 | 3  |

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| 17 | Fluorescence moieties as a surrogate for residual chlorine in three drinking water networks. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128519   | 14.7 | 3 |
| 16 | A year-long cyclic pattern of dissolved organic matter in the tap water of a metropolitan city revealed by fluorescence spectroscopy. <i>Science of the Total Environment</i> , <b>2021</b> , 771, 144850  | 10.2 | 3 |
| 15 | Occurrence and fate of N-nitrosamines in three full-scale drinking water treatment systems with different treatment trains. <i>Science of the Total Environment</i> , <b>2021</b> , 783, 146982  | 10.2 | 3 |
| 14 | Understanding the role of in-situ ozonation in Fe(II)-dosed membrane bioreactor (MBR) for membrane fouling mitigation. <i>Journal of Membrane Science</i> , <b>2021</b> , 633, 119400  | 9.6  | 3 |
| 13 | Exploring the potential application of hybrid permonosulfate/reactive electrochemical ceramic membrane on treating humic acid-dominant wastewater. <i>Separation and Purification Technology</i> , <b>2022</b> , 286, 120513                                       | 8.3  | 2 |
| 12 | Ultrahigh-permeance functionalized boron nitride membrane for nanoconfined heterogeneous catalysis. <i>Chem Catalysis</i> , <b>2022</b> ,  |      | 2 |
| 11 | Ti3C2/W18O49 hybrid membrane with visible-light-driven photocatalytic ability for selective dye separation. <i>Separation and Purification Technology</i> , <b>2021</b> , 120145   | 8.3  | 2 |
| 10 | Determining the leading sources of N-nitrosamines and dissolved organic matter in four reservoirs in Southern China. <i>Science of the Total Environment</i> , <b>2021</b> , 771, 145409   | 10.2 | 2 |
| 9  | Nutrients removal in membrane bioreactors for wastewater treatment <b>2020</b> , 163-180   |      | 1 |
| 8  | Polysaccharide-derived biopolymeric nanomaterials for wastewater treatment <b>2021</b> , 447-469   |      | 1 |
| 7  | Reactive electrochemical ceramic membrane for effective removal of high concentration humic acid: Insights of different performance and mechanisms. <i>Journal of Membrane Science</i> , <b>2022</b> , 651, 120460   | 8.6  | 1 |
| 6  | Three-dimensional ordered mesoporous Co3O4/peroxymonosulfate triggered nanoconfined heterogeneous catalysis for rapid removal of ranitidine in aqueous solution. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136495  | 14.7 | 1 |
| 5  | Confined heterogeneous catalysis by boron nitride-Co3O4 nanosheet cluster for peroxymonosulfate oxidation toward ranitidine removal. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 135126   | 14.7 | 0 |
| 4  | Exploring the fate of dissolved organic matter at the molecular level in the reactive electrochemical ceramic membrane system using fluorescence spectroscopy and FT-ICR MS.. <i>Water Research</i> , <b>2021</b> , 210, 117979                                    | 12.5 | 0 |
| 3  | Exploring potential machine learning application based on big data for prediction of wastewater quality from different full-scale wastewater treatment plants.. <i>Science of the Total Environment</i> , <b>2022</b> , 832, 154930                                | 10.2 | 0 |
| 2  | Ti4O7 reactive electrochemical membrane for humic acid removal: Insights of electrosorption and electrooxidation. <i>Separation and Purification Technology</i> , <b>2022</b> , 121112   | 8.3  | 0 |
| 1  | Impact of polymeric membrane breakage on drinking water quality and an online detection method of the breakage. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2017</b> , 52, 1126-1132 | 2.3  |   |