

# Meiping Tong

## List of Publications by Year in descending order

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101  
papers

5,960  
citations

43973

48  
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73  
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101  
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docs citations

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5363  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Emerging Dual-Atomic-Site Catalysts for Efficient Energy Catalysis. <i>Advanced Materials</i> , 2021, 33, e2102576.   | 11.1 | 226       |
| 2  | Efficient removal of trace arsenite through oxidation and adsorption by magnetic nanoparticles modified with Fe-Mn binary oxide. <i>Water Research</i> , 2013, 47, 3411-3421.   | 5.3  | 196       |
| 3  | Removal of Hg(II) by poly(1-vinylimidazole)-grafted Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> magnetic nanoparticles. <i>Water Research</i> , 2015, 69, 252-260.   | 5.3  | 175       |
| 4  | Toxicity of TiO <sub>2</sub> Nanoparticles to <i>Escherichia coli</i> : Effects of Particle Size, Crystal Phase and Water Chemistry. <i>PLoS ONE</i> , 2014, 9, e110247.  | 1.1  | 156       |
| 5  | Efficient removal of trace antimony(III) through adsorption by hematite modified magnetic nanoparticles. <i>Journal of Hazardous Materials</i> , 2014, 268, 229-236.  | 6.5  | 148       |
| 6  | Transport behaviors of plastic particles in saturated quartz sand without and with biochar/Fe <sub>3</sub> O <sub>4</sub> -biochar amendment. <i>Water Research</i> , 2020, 169, 115284.  | 5.3  | 137       |
| 7  | Excess Colloid Retention in Porous Media as a Function of Colloid Size, Fluid Velocity, and Grain Angularity. <i>Environmental Science &amp; Technology</i> , 2006, 40, 7725-7731.  | 4.6  | 136       |
| 8  | Efficient bacterial capture with amino acid modified magnetic nanoparticles. <i>Water Research</i> , 2014, 50, 124-134.   | 5.3  | 125       |
| 9  | Influence of Extracellular Polymeric Substances (EPS) on Deposition Kinetics of Bacteria. <i>Environmental Science &amp; Technology</i> , 2009, 43, 2308-2314.  | 4.6  | 122       |
| 10 | Facile synthesis of magnetic Fe <sub>3</sub> O <sub>4</sub> @BiOI@AgI for water decontamination with visible light irradiation: Different mechanisms for different organic pollutants degradation and bacterial disinfection. <i>Water Research</i> , 2018, 137, 120-129. | 5.3  | 117       |
| 11 | Efficient bacterial inactivation with Z-scheme AgI/Bi <sub>2</sub> MoO <sub>6</sub> under visible light irradiation. <i>Water Research</i> , 2017, 123, 632-641.  | 5.3  | 116       |
| 12 | Magnetic Fe <sub>3</sub> O <sub>4</sub> -deposited flower-like MoS <sub>2</sub> nanocomposites for the Fenton-like <i>Escherichia coli</i> disinfection and diclofenac degradation. <i>Journal of Hazardous Materials</i> , 2020, 385, 121604.                            | 6.5  | 116       |
| 13 | Removal of arsenate by cetyltrimethylammonium bromide modified magnetic nanoparticles. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 461-468.  | 6.5  | 115       |
| 14 | Influence of Clay Particles on the Transport and Retention of Titanium Dioxide Nanoparticles in Quartz Sand. <i>Environmental Science &amp; Technology</i> , 2014, 48, 7323-7332.   | 4.6  | 112       |
| 15 | Transport and deposition of ZnO nanoparticles in saturated porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 401, 29-37.  | 2.3  | 109       |
| 16 | Ni <sub>x</sub> Co <sub>x</sub> Se <sub>2</sub> /C/ZnIn <sub>2</sub> S <sub>4</sub> Hybrid Nanocages with Strong 2D/2D Hetero-Interface Interaction Enable Efficient H <sub>2</sub> -Releasing Photocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2100923.  | 7.8  | 104       |
| 17 | Colloid Population Heterogeneity Drives Hyperexponential Deviation from Classic Filtration Theory. <i>Environmental Science &amp; Technology</i> , 2007, 41, 493-499.   | 4.6  | 98        |
| 18 | Cotransport and Deposition of Iron Oxides with Different-Sized Plastic Particles in Saturated Quartz Sand. <i>Environmental Science &amp; Technology</i> , 2019, 53, 3547-3557.   | 4.6  | 95        |

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|----|--|-----|-----------|
| 19 | Enhanced visible-light-driven photocatalytic bacteria disinfection by g-C <sub>3</sub> N <sub>4</sub> -AgBr. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 49-57.   | 2.5 | 94        |
| 20 | Facile self-assembly synthesis of titanate/Fe <sub>3</sub> O <sub>4</sub> nanocomposites for the efficient removal of Pb <sup>2+</sup> from aqueous systems. <i>Journal of Materials Chemistry A</i> , 2013, 1, 805-813.   | 5.2 | 89        |
| 21 | The degradation pathways of carbamazepine in advanced oxidation process: A mini review coupled with DFT calculation. <i>Science of the Total Environment</i> , 2021, 779, 146498.  | 3.9 | 88        |
| 22 | Aggregation and dissolution of ZnO nanoparticles synthesized by different methods: Influence of ionic strength and humic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 451, 7-15.  | 2.3 | 85        |
| 23 | Bactericidal mechanism of BiOI@AgI under visible light irradiation. <i>Chemical Engineering Journal</i> , 2015, 279, 277-285.  | 6.6 | 81        |
| 24 | Funneling of Flow into Grain-to-grain Contacts Drives Colloid Colloid Aggregation in the Presence of an Energy Barrier. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2826-2832.   | 4.6 | 79        |
| 25 | Efficient adsorption of Selenium(IV) from water by hematite modified magnetic nanoparticles. <i>Chemosphere</i> , 2018, 193, 134-141.  | 4.2 | 79        |
| 26 | Tunable Covalent Organic Frameworks with Different Heterocyclic Nitrogen Locations for Efficient Cr(VI) Reduction, <i>Escherichia coli</i> Disinfection, and Paracetamol Degradation under Visible-Light Irradiation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5371-5381. | 4.6 | 79        |
| 27 | Influence of humic acid on the transport behavior of bacteria in quartz sand. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 122-129.   | 2.5 | 78        |
| 28 | Cotransport of Titanium Dioxide and Fullerene Nanoparticles in Saturated Porous Media. <i>Environmental Science &amp; Technology</i> , 2013, 47, 5703-5710.  | 4.6 | 78        |
| 29 | Influence of biofilm on the transport of fullerene (C60) nanoparticles in porous media. <i>Water Research</i> , 2010, 44, 1094-1103.   | 5.3 | 77        |
| 30 | Transport and retention behaviors of titanium dioxide nanoparticles in iron oxide-coated quartz sand: Effects of pH, ionic strength, and humic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 454, 119-127.   | 2.3 | 76        |
| 31 | Detachment-Influenced Transport of an Adhesion-Deficient Bacterial Strain within Water-Reactive Porous Media. <i>Environmental Science &amp; Technology</i> , 2005, 39, 2500-2508.   | 4.6 | 75        |
| 32 | AgI modified covalent organic frameworks for effective bacterial disinfection and organic pollutant degradation under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2020, 398, 122865.  | 6.5 | 73        |
| 33 | Activation of sulfite by single-atom Fe deposited graphitic carbon nitride for diclofenac removal: The synergetic effect of transition metal and photocatalysis. <i>Chemical Engineering Journal</i> , 2021, 407, 127167.  | 6.6 | 73        |
| 34 | Deposition Kinetics of Extracellular Polymeric Substances (EPS) on Silica in Monovalent and Divalent Salts. <i>Environmental Science &amp; Technology</i> , 2009, 43, 5699-5704.   | 4.6 | 68        |
| 35 | Deposition kinetics of zinc oxide nanoparticles on natural organic matter coated silica surfaces. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 427-434.  | 5.0 | 67        |
| 36 | Bactericidal mechanisms of Ag <sub>2</sub> O/TNBs under both dark and light conditions. <i>Water Research</i> , 2013, 47, 1837-1847.   | 5.3 | 67        |

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|----|---|-----|-----------|
| 37 | Influence of biofilm on the transport and deposition behaviors of nano- and micro-plastic particles in quartz sand. <i>Water Research</i> , 2020, 178, 115808.  | 5.3 | 65        |
| 38 | Different mechanisms for <i>E. coli</i> disinfection and BPA degradation by CeO <sub>2</sub> -AgI under visible light irradiation. <i>Chemical Engineering Journal</i> , 2019, 371, 750-758.  | 6.6 | 64        |
| 39 | Initial transport and retention behaviors of ZnO nanoparticles in quartz sand porous media coated with <i>Escherichia coli</i> biofilm. <i>Environmental Pollution</i> , 2013, 174, 38-49.  | 3.7 | 63        |
| 40 | Influence of titanium dioxide nanoparticles on the transport and deposition of microplastics in quartz sand. <i>Environmental Pollution</i> , 2019, 253, 351-357.   | 3.7 | 61        |
| 41 | Influence of graphene oxide on the transport and deposition behaviors of colloids in saturated porous media. <i>Environmental Pollution</i> , 2017, 225, 141-149.   | 3.7 | 56        |
| 42 | Transport and deposition of microplastic particles in saturated porous media: Co-effects of clay particles and natural organic matter. <i>Environmental Pollution</i> , 2021, 287, 117585.  | 3.7 | 56        |
| 43 | Spatial Variation in Deposition Rate Coefficients of an Adhesion-Deficient Bacterial Strain in Quartz Sand. <i>Environmental Science &amp; Technology</i> , 2005, 39, 3679-3687.  | 4.6 | 55        |
| 44 | Contribution of Extracellular Polymeric Substances on Representative Gram Negative and Gram Positive Bacterial Deposition in Porous Media. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2393-2399.                             | 4.6 | 55        |
| 45 | Catalyst-Free Periodate Activation by Solar Irradiation for Bacterial Disinfection: Performance and Mechanisms. <i>Environmental Science &amp; Technology</i> , 2022, 56, 4413-4424.  | 4.6 | 55        |
| 46 | Cotransport and deposition of biochar with different sized-plastic particles in saturated porous media. <i>Science of the Total Environment</i> , 2020, 713, 136387.  | 3.9 | 52        |
| 47 | Modification of zero valent iron nanoparticles by sodium alginate and bentonite: Enhanced transport, effective hexavalent chromium removal and reduced bacterial toxicity. <i>Journal of Hazardous Materials</i> , 2020, 388, 121822.       | 6.5 | 52        |
| 48 | Influence of Bentonite Particles on Representative Gram Negative and Gram Positive Bacterial Deposition in Porous Media. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11627-11634.   | 4.6 | 51        |
| 49 | Cotransport of bacteria with hematite in porous media: Effects of ion valence and humic acid. <i>Water Research</i> , 2016, 88, 586-594.  | 5.3 | 50        |
| 50 | Photocatalytic removal of diclofenac by Ti doped BiOI microspheres under visible light irradiation: Kinetics, mechanism, and pathways. <i>Journal of Molecular Liquids</i> , 2019, 275, 807-814.  | 2.3 | 50        |
| 51 | Efficient bacteria capture and inactivation by cetyltrimethylammonium bromide modified magnetic nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 659-665.  | 2.5 | 47        |
| 52 | Facile synthesis of sulfhydryl modified covalent organic frameworks for high efficient Hg(II) removal from water. <i>Journal of Hazardous Materials</i> , 2021, 405, 124190.  | 6.5 | 46        |
| 53 | Effect of different-sized colloids on the transport and deposition of titanium dioxide nanoparticles in quartz sand. <i>Environmental Pollution</i> , 2016, 208, 637-644.   | 3.7 | 43        |
| 54 | Different degradation mechanisms of carbamazepine and diclofenac by single-atom Barium embedded g-C <sub>3</sub> N <sub>4</sub> : the role of photosensitization-like mechanism. <i>Journal of Hazardous Materials</i> , 2021, 416, 125936. | 6.5 | 43        |

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|----|---|-----|-----------|
| 55 | Cotransport of multi-walled carbon nanotubes and titanium dioxide nanoparticles in saturated porous media. <i>Environmental Pollution</i> , 2014, 195, 31-38.   | 3.7 | 42        |
| 56 | Stability of carboxyl-functionalized carbon black nanoparticles: the role of solution chemistry and humic acid. <i>Environmental Science: Nano</i> , 2017, 4, 800-810.  | 2.2 | 42        |
| 57 | Bacteria have different effects on the transport behaviors of positively and negatively charged microplastics in porous media. <i>Journal of Hazardous Materials</i> , 2021, 415, 125550.   | 6.5 | 40        |
| 58 | Photocatalytic degradation of paracetamol and bisphenol A by chitosan supported covalent organic framework thin film with visible light irradiation. <i>Journal of Hazardous Materials</i> , 2022, 435, 128966.                                     | 6.5 | 40        |
| 59 | Fe <sub>5</sub> C <sub>2</sub> nanoparticles: a reusable bactericidal material with photothermal effects under near-infrared irradiation. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3993-4000.   | 2.9 | 37        |
| 60 | Influence of Perfluorooctanoic Acid on the Transport and Deposition Behaviors of Bacteria in Quartz Sand. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2381-2388.  | 4.6 | 37        |
| 61 | On colloid retention in saturated porous media in the presence of energy barriers: The failure of $\lambda$ , and opportunities to predict $\lambda$ . <i>Water Resources Research</i> , 2007, 43, .  | 1.7 | 36        |
| 62 | Bactericidal activity of Ag-doped multi-walled carbon nanotubes and the effects of extracellular polymeric substances and natural organic matter. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 104, 133-139.                               | 2.5 | 36        |
| 63 | Influence of nutrient conditions on the transport of bacteria in saturated porous media. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 752-758.  | 2.5 | 36        |
| 64 | Bactericidal activity and mechanism of Ti-doped BiOI microspheres under visible light irradiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 147, 307-314.  | 2.5 | 36        |
| 65 | Bactericidal activity and mechanisms of BiOBr-AgBr under both dark and visible light irradiation conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 167, 275-283.  | 2.5 | 36        |
| 66 | Enhanced removal of trace arsenate by magnetic nanoparticles modified with arginine and lysine. <i>Chemical Engineering Journal</i> , 2014, 254, 340-348.   | 6.6 | 35        |
| 67 | Bactericidal activity and mechanism of AgI/AgBr/BiOBr <sub>0.75</sub> I <sub>0.25</sub> under visible light irradiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 138, 102-109.  | 2.5 | 34        |
| 68 | Sea-Buckthorn-Like MnO <sub>2</sub> Decorated Titanate Nanotubes with Oxidation Property and Photocatalytic Activity for Enhanced Degradation of 17 $\beta$ -Estradiol under Solar Light. <i>ACS Applied Energy Materials</i> , 2018, 1, 2123-2133. | 2.5 | 34        |
| 69 | Single-atom silver induced amorphization of hollow tubular g-C <sub>3</sub> N <sub>4</sub> for enhanced visible light-driven photocatalytic degradation of naproxen. <i>Science of the Total Environment</i> , 2020, 742, 140642.                   | 3.9 | 34        |
| 70 | Different electrically charged proteins result in diverse bacterial transport behaviors in porous media. <i>Water Research</i> , 2018, 143, 425-435.  | 5.3 | 33        |
| 71 | Deposition kinetics of MS2 bacteriophages on clay mineral surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 92, 340-347.  | 2.5 | 32        |
| 72 | Effect of Carbon Nanotubes on the Transport and Retention of Bacteria in Saturated Porous Media. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11537-11544.   | 4.6 | 32        |

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|----|--|-----|-----------|
| 73 | Influence of Bisphenol A on the transport and deposition behaviors of bacteria in quartz sand. <i>Water Research</i> , 2017, 121, 1-10.  | 5.3 | 32        |
| 74 | Influence of Nano- and Microplastic Particles on the Transport and Deposition Behaviors of Bacteria in Quartz Sand. <i>Environmental Science &amp; Technology</i> , 2018, 52, 11555-11563.   | 4.6 | 32        |
| 75 | Different surface charged plastic particles have different cotransport behaviors with kaolinite $\alpha^+$ particles in porous media. <i>Environmental Pollution</i> , 2020, 267, 115534.  | 3.7 | 30        |
| 76 | Influence of natural organic matter on the deposition kinetics of extracellular polymeric substances (EPS) on silica. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 151-158.   | 2.5 | 29        |
| 77 | Influence of gravity on transport and retention of representative engineered nanoparticles in quartz sand. <i>Journal of Contaminant Hydrology</i> , 2015, 181, 153-160.   | 1.6 | 28        |
| 78 | Insight into the role of Fe in the synergetic effect of persulfate/sulfite and Fe <sub>2</sub> O <sub>3</sub> @g-C <sub>3</sub> N <sub>4</sub> for carbamazepine degradation. <i>Science of the Total Environment</i> , 2022, 819, 152787.             | 3.9 | 27        |
| 79 | Flagella and Their Properties Affect the Transport and Deposition Behaviors of <i>Escherichia coli</i> in Quartz Sand. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4964-4973.  | 4.6 | 26        |
| 80 | Transport and deposition behaviors of microplastics in porous media: Co-impacts of N fertilizers and humic acid. <i>Journal of Hazardous Materials</i> , 2022, 426, 127787.  | 6.5 | 26        |
| 81 | Effect of bacteria on the transport and deposition of multi-walled carbon nanotubes in saturated porous media. <i>Environmental Pollution</i> , 2016, 213, 895-903.  | 3.7 | 25        |
| 82 | Influence of silicate on the transport of bacteria in quartz sand and iron mineral-coated sand. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 995-1002.   | 2.5 | 24        |
| 83 | Addition of biochar as thin preamble layer into sand filtration columns could improve the microplastics removal from water. <i>Water Research</i> , 2022, 221, 118783.   | 5.3 | 23        |
| 84 | Transport and deposition of plastic particles in porous media during seawater intrusion and groundwater-seawater displacement processes. <i>Science of the Total Environment</i> , 2021, 781, 146752.  | 3.9 | 21        |
| 85 | Insight into the synergetic effect of photocatalysis and transition metal on sulfite activation: Different mechanisms for carbamazepine and diclofenac degradation. <i>Science of the Total Environment</i> , 2021, 787, 147626.                       | 3.9 | 21        |
| 86 | Bactericidal mechanisms of Au@TNBs under visible light irradiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 211-218.  | 2.5 | 19        |
| 87 | Efficient removal of free and nitrilotriacetic acid complexed Cd(II) from water by poly(1-vinylimidazole)-grafted Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> magnetic nanoparticles. <i>Journal of Hazardous Materials</i> , 2015, 299, 479-485. | 6.5 | 18        |
| 88 | Different electrically charged proteins result in diverse transport behaviors of plastic particles with different surface charge in quartz sand. <i>Science of the Total Environment</i> , 2021, 756, 143837.  | 3.9 | 18        |
| 89 | Comment on "Transport and fate of bacteria in porous media: Coupled effects of chemical conditions and pore space geometry" by Saeed Torkezaban et al.. <i>Water Resources Research</i> , 2009, 45, .  | 1.7 | 17        |
| 90 | Facile synthesis of ZrO <sub>2</sub> coated BiOCl <sub>0.5</sub> IO <sub>0.5</sub> for photocatalytic oxidation-adsorption of As(III) under visible light irradiation. <i>Chemosphere</i> , 2018, 211, 934-942.  | 4.2 | 16        |

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|-----|---|-----|-----------|
| 91  | Peroxymonosulfate enhanced photocatalytic degradation of serial bisphenols by metal-free covalent organic frameworks under visible light irradiation: mechanisms, degradation pathway and DFT calculation. <i>Chemical Engineering Journal</i> , 2022, 430, 132833. | 6.6 | 15        |
| 92  | Influence of solution chemistry on the deposition and detachment kinetics of RNA on silica surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 443-449.   | 2.5 | 13        |
| 93  | Influence of sulfate on the transport of bacteria in quartz sand. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 443-449.   | 2.5 | 13        |
| 94  | Enhanced bacterial disinfection by Bi <sub>2</sub> MoO <sub>6</sub> -AgBr under visible light irradiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 528-536.  | 2.5 | 13        |
| 95  | The influence of different charged poly (amido amine) dendrimer on the transport and deposition of bacteria in porous media. <i>Water Research</i> , 2019, 161, 364-371.  | 5.3 | 12        |
| 96  | Improved removal performance of Gram-negative and Gram-positive bacteria in sand filtration system with arginine modified biochar amendment. <i>Water Research</i> , 2022, 211, 118006.   | 5.3 | 9         |
| 97  | Cotransport of graphene oxides/reduced graphene oxides with BPA in both bare and iron oxides coated quartz sand. <i>Science China Technological Sciences</i> , 2019, 62, 1896-1906.   | 2.0 | 8         |
| 98  | Influence of sulfate and phosphate on the deposition of plasmid DNA on silica and alumina-coated surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 118, 83-89.  | 2.5 | 6         |
| 99  | Effects of graphene oxides on transport and deposition behaviors of bacteria in saturated porous media. <i>Science China Technological Sciences</i> , 2019, 62, 276-286.  | 2.0 | 6         |
| 100 | Freeze-thaw cycles induce diverse bacteria release behaviors from quartz sand columns with different water saturations. <i>Water Research</i> , 2022, 221, 118683.  | 5.3 | 5         |
| 101 | Bacterial capture and inactivation in sand filtration systems with addition of zero-valent iron as permeable layer under both slow and fast filtration conditions. <i>Journal of Hazardous Materials</i> , 2022, 436, 129122.                                       | 6.5 | 3         |