# Jianmin Wang

List of Publications by Year
in descending order



| 63 | 2,603 | 136740 32 | 189595 50 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 63 | 63 | 63 | 3175 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Understanding the role of nano-TiO2 on the toxicity of Pb on C. dubia through modelingâ€"Is it additive or synergistic?. Frontiers of Environmental Science and Engineering, 2022, 16, . | 3.3 | 3 |
| 2 | Quantifying the effect of nano-TiO2 on the toxicity of lead on C.Âdubia using a two-compartment modeling approach. Chemosphere, 2021, 263, 127958. | 4.2 | 7 |
| 3 | Implementation of long solids retention time activated sludge process for rural residential community. Water Environment Research, 2021, 93, 174-185. | 1.3 | 5 |
| 4 | Enhanced biological nitrogen removal under low dissolved oxygen in an anaerobic-anoxic-oxic system: Kinetics, stoichiometry and microbial community. Chemosphere, 2021, 263, 128184. | 4.2 | 40 |
| 5 | Enhancing nitrogen removal and reducing aeration energy for wastewater treatment with intermittent Modified Ludzack-Ettinger process: A field demonstration. Journal of Water Process Engineering, 2021, 43, 102303. | 2.6 | 3 |
| 6 | New insights into the effect of surfactants on oxygen mass transfer in activated sludge process. Journal of Environmental Chemical Engineering, 2020, 8, 104409. | 3.3 | 8 |
| 7 | Hazardous wastes treatment technologies. Water Environment Research, 2020, 92, 1833-1860. | 1.3 | 10 |
| 8 | Algae (Raphidocelis subcapitata) mitigate combined toxicity of microplastic and lead on Ceriodaphnia dubia. Frontiers of Environmental Science and Engineering, 2020, 14, 1. | 3.3 | 36 |
| 9 | Filamentous organisms degrade oxygen transfer efficiency by increasing mixed liquor apparent viscosity: Mechanistic understanding and experimental verification. Water Research, 2020, 173, 115570. | 5.3 | 16 |
| 10 | Hazardous waste treatment technologies. Water Environment Research, 2019, 91, 1177-1198. | 1.3 | 21 |
| 11 | Activated sludge morphology significantly impacts oxygen transfer at the airâ€"liquid boundary. Water Environment Research, 2019, 91, 500-509. | 1.3 | 10 |
| 12 | Algae (Raphidocelis) reduce combined toxicity of nano-TiO2 and lead on C. dubia. Science of the Total Environment, 2019, 686, 246-253. | 3.9 | 7 |
| 13 | Assessing activated sludge morphology and oxygen transfer performance using image analysis. Chemosphere, 2019, 223, 694-703. | 4.2 | 17 |
| 14 | Thiothrix eikelboomii interferes oxygen transfer in activated sludge. Water Research, 2019, 151, 134-143. | 5.3 | 63 |
| 15 | Formation of filamentous microorganisms impedes oxygen transfer and decreases aeration efficiency for wastewater treatment. Journal of Cleaner Production, 2018, 189, 502-509. | 4.6 | 28 |
| 16 | Effect of TiO 2 nanoparticle aggregation on marine microalgae Isochrysis galbana. Journal of Environmental Sciences, 2018, 66, 208-215. | 3.2 | 47 |
| 17 | Leaching Assessment of Eco-Friendly Rubberized Chip Seal Pavement. Transportation Research Record, 2018, 2672, 67-77. | 1.0 | 9 |
| 18 | Hazardous Wastes Treatment Technologies. Water Environment Research, 2018, 90, 1679-1719. | 1.3 | 2 |

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|---|---|---|---|
| 19 | Reduced zinc leaching from scrap tire during pavement applications. Waste Management, 2018, 81, 53-60. | 3.7 | 11 |
| 20 | Achieving advanced nitrogen removal for small flow wastewater using a baffled bioreactor (BBR) with intermittent aeration. Journal of Environmental Management, 2017, 199, 222-228. | 3.8 | 8 |
| 21 | Enhanced removal of total nitrogen and total phosphorus by applying intermittent aeration to the Modified Ludzack-Ettinger (MLE) process. Journal of Cleaner Production, 2017, 166, 163-171. | 4.6 | 34 |
| 22 | N-nitrosamine formation by monochloramine, free chlorine, and peracetic acid disinfection with presence of amine precursors in drinking water system. Chemosphere, 2016, 153, 521-527. | 4.2 | 46 |
| 23 | Role of Solids Retention Time in Ammonia-Based Feedback Aeration Control. Journal of Environmental Engineering, ASCE, 2016, 142, 04016029. | 0.7 | 3 |
| 24 | Modeling effects of DO and SRT on activated sludge decay and production. Water Research, 2015, 80, 169-178. | 5.3 | 37 |
| 25 | Quantifying the chronic effect of low DO on the nitrification process. Chemosphere, 2015, 141, 19-25. | 4.2 | 31 |
| 26 | Weak magnetic field accelerates chromate removal by zero-valent iron. Journal of Environmental Sciences, 2015, 31, 175-183. | 3.2 | 64 |
| 27 | Reducing arsenic accumulation in rice grain through iron oxide amendment. Ecotoxicology and Environmental Safety, 2015, 118, 55-61. | 2.9 | 50 |
| 28 | Role of Solids Retention Time on Complete Nitrification: Mechanistic Understanding and Modeling. Journal of Environmental Engineering, ASCE, 2014, 140, 48-56. | 0.7 | 35 |
| 29 | Specific chemical interactions between metal ions and biological solids exemplified by sludge particulates. Bioresource Technology, 2014, 160, 32-42. | 4.8 | 9 |
| 30 | Effect of Weak Magnetic Field on Arsenate and Arsenite Removal from Water by Zerovalent Iron: An XAFS Investigation. Environmental Science & Technology, 2014, 48, 6850-6858. | 4.6 | 132 |
| 31 | Long-Term Low DO Enriches and Shifts Nitrifier Community in Activated Sludge. Environmental Science & Technology, 2013, 47, 5109-5117. | 4.6 | 218 |
| 32 | Increased Leaching of As, Se, Mo, and V from High Calcium Coal Ash Containing Trona Reaction Products. Energy & Fuels, 2013, 27, 1531-1537. | 2.5 | 4 |
| 33 | Baffled Bioreactor for Municipal Wastewater Treatment. Journal of Environmental Engineering, ASCE, 2012, 138, 239-247. | 0.7 | 4 |
| 34 | Quantifying the effect of nanoparticles on As(V) ecotoxicity exemplified by nanoâ€Fe<sub>2</sub>O<sub>3</sub> (magnetic) and nanoâ€Al<sub>2</sub>O<sub>3</sub>. Environmental Toxicology and Chemistry, 2012, 31, 2870-2876. | 2.2 | 21 |
| 35 | Probing the stoichiometry of the nitrification process using the respirometric approach. Water Research, 2012, 46, 5954-5962. | 5.3 | 43 |
| 36 | Effects of Nano-Copper(II) Oxide and Nano-Magnesium Oxide Particles on Activated Sludge. Water Environment Research, 2012, 84, 569-576. | 1.3 | 24 |

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|---|---|---|---|
| 37 | Toxicity of lead on Ceriodaphnia dubia in the presence of nano-CeO2 and nano-TiO2. Chemosphere, 2012, 89, 536-541. | 4.2 | 37 |
| 38 | Bioaccumulation of Fe2O3(magnetic) nanoparticles in Ceriodaphnia dubia. Environmental Pollution, 2012, 162, 216-222. | 3.7 | 55 |
| 39 | Impact of Trona-Based SO<sub>2</sub> Control on the Elemental Leaching Behavior of Fly Ash. Energy & Fuels, 2011, 25, 3514-3521. | 2.5 | 9 |
| 40 | Arsenic Accumulation in Rice Grains: Effects of Cultivars and Water Management Practices. Environmental Engineering Science, 2011, 28, 591-596. | 0.8 | 31 |
| 41 | Synergistic toxic effect of nano-TiO2 and As(V) on Ceriodaphnia dubia. Science of the Total Environment, 2011, 409, 1351-1356. | 3.9 | 79 |
| 42 | Effect of ZnO particles on activated sludge: Role of particle dissolution. Science of the Total Environment, 2011, 409, 2852-2857. | 3.9 | 93 |
| 43 | Synergistic toxic effect of nano-Al2O3 and As(V) on Ceriodaphnia dubia. Environmental Pollution, 2011, 159, 3003-3008. | 3.7 | 44 |
| 44 | Modeling batch leaching behavior of arsenic and selenium from bituminous coal fly ashes. Chemosphere, 2011, 85, 1368-1374. | 4.2 | 28 |
| 45 | Characteristics and model studies for fluoride and arsenic adsorption on goethite. Journal of Environmental Sciences, 2010, 22, 1689-1694. | 3.2 | 58 |
| 46 | Predicting competitive adsorption behavior of major toxic anionic elements onto activated alumina: A speciation-based approach. Journal of Hazardous Materials, 2010, 176, 466-472. | 6.5 | 19 |
| 47 | Quantifying effects of pH and surface loading on arsenic adsorption on NanoActive alumina using a speciation-based model. Journal of Hazardous Materials, 2009, 166, 39-45. | 6.5 | 36 |
| 48 | Fluoride adsorption onto granular ferric hydroxide: Effects of ionic strength, pH, surface loading, and major co-existing anions. Journal of Hazardous Materials, 2009, 171, 774-779. | 6.5 | 144 |
| 49 | Fluoride adsorption onto activated alumina: Modeling the effects of pH and some competing ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 337, 33-38. | 2.3 | 116 |
| 50 | Leaching Characteristics of Arsenic and Selenium from Coal Fly Ash: Role of Calcium. Energy & Fuels, 2009, 23, 2959-2966. | 2.5 | 68 |
| 51 | Adsorption characteristics of As(V), Se(IV), and V(V) onto activated alumina: Effects of pH, surface loading, and ionic strength. Journal of Colloid and Interface Science, 2008, 326, 347-353. | 5.0 | 73 |
| 52 | Removal of arsenic from water using granular ferric hydroxide: Macroscopic and microscopic studies. Journal of Hazardous Materials, 2008, 156, 178-185. | 6.5 | 166 |
| 53 | Distribution of toxic trace elements in soil/sediment in post-Katrina New Orleans and the Louisiana Delta. Environmental Pollution, 2008, 156, 944-950. | 3.7 | 15 |
| 54 | Adsorption of arsenic(V) onto fly ash: A speciation-based approach. Chemosphere, 2008, 72, 381-388. | 4.2 | 58 |

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| 55 | The Leaching Characteristics of Selenium from Coal Fly Ashes. Journal of Environmental Quality, 2007, 36, 1784-1792. | 1.0 | 43 |
| 56 | The role of ammonia on mercury leaching from coal fly ash. Chemosphere, 2007, 69, 1586-1592. | 4.2 | 19 |
| 57 | Quantifying the availability and the stability of trace cationic elements in fly ash. Waste Management, 2007, 27, 1345-1355. | 3.7 | 5 |
| 58 | Impacts of pH and ammonia on the leaching of Cu(II) and Cd(II) from coal fly ash. Chemosphere, 2006, 64, 1892-1898. | 4.2 | 68 |
| 59 | Predicting metals partitioning in wastewater treatment plant influents. Water Research, 2006, 40, 1333-1340. | 5.3 | 20 |
| 60 | Characterizing the Metal Adsorption Capability of a Class F Coal Fly Ash. Environmental Science & Technology, 2004, 38, 6710-6715. | 4.6 | 75 |
| 61 | Modeling heavy metal uptake by sludge particulates in the presence of dissolved organic matter. Water Research, 2003, 37, 4835-4842. | 5.3 | 53 |
| 62 | Interactions of silver with wastewater constituents. Water Research, 2003, 37, 4444-4452. | 5.3 | 40 |
| 63 | Surface Physical-Chemical Characteristics of Sludge Particulates. Water Environment Research, 2000, 72, 545-553. | 1.3 | 45 |