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	Long-Term Low DO Enriches and Shifts Nitrifier Community in Activated Sludge. Environmental Science & Technology, 2013, 47, 5109-5117.	4.6	218
2	Removal of arsenic from water using granular ferric hydroxide: Macroscopic and microscopic studies. Journal of Hazardous Materials, 2008, 156, 178-185.	6.5	166
3	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
4	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
5	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
6	Effect of ZnO particles on activated sludge: Role of particle dissolution. Science of the Total Environment, 2011, 409, 2852-2857.	3.9	93
7	Synergistic toxic effect of nano-TiO2 and As(V) on Ceriodaphnia dubia. Science of the Total Environment, 2011, 409, 1351-1356.	3.9	79
8	Characterizing the Metal Adsorption Capability of a Class F Coal Fly Ash. Environmental Science & Technology, 2004, 38, 6710-6715.	4.6	75
9	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
10	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
11	Leaching Characteristics of Arsenic and Selenium from Coal Fly Ash: Role of Calcium. Energy & Fuels, 2009, 23, 2959-2966.	2.5	68
12	Weak magnetic field accelerates chromate removal by zero-valent iron. Journal of Environmental Sciences, 2015, 31, 175-183.	3.2	64
13	Thiothrix eikelboomii interferes oxygen transfer in activated sludge. Water Research, 2019, 151, 134-143.	5.3	63
14	Adsorption of arsenic(V) onto fly ash: A speciation-based approach. Chemosphere, 2008, 72, 381-388.	4.2	58
15	Characteristics and model studies for fluoride and arsenic adsorption on goethite. Journal of Environmental Sciences, 2010, 22, 1689-1694.	3.2	58
16	Bioaccumulation of Fe2O3(magnetic) nanoparticles in Ceriodaphnia dubia. Environmental Pollution, 2012, 162, 216-222.	3.7	55
17	Modeling heavy metal uptake by sludge particulates in the presence of dissolved organic matter. Water Research, 2003, 37, 4835-4842.	5.3	53
18	Reducing arsenic accumulation in rice grain through iron oxide amendment. Ecotoxicology and Environmental Safety, 2015, 118, 55-61.	2.9	50

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19	Effect of TiO 2 nanoparticle aggregation on marine microalgae Isochrysis galbana. Journal of Environmental Sciences, 2018, 66, 208-215.	3.2	47
20	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
21	Surface Physical-Chemical Characteristics of Sludge Particulates. Water Environment Research, 2000, 72, 545-553.	1.3	45
22	Synergistic toxic effect of nano-Al2O3 and As(V) on Ceriodaphnia dubia. Environmental Pollution, 2011, 159, 3003-3008.	3.7	44
23	The Leaching Characteristics of Selenium from Coal Fly Ashes. Journal of Environmental Quality, 2007, 36, 1784-1792.	1.0	43
24	Probing the stoichiometry of the nitrification process using the respirometric approach. Water Research, 2012, 46, 5954-5962.	5.3	43
25	Interactions of silver with wastewater constituents. Water Research, 2003, 37, 4444-4452.	5.3	40
26	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
27	Toxicity of lead on Ceriodaphnia dubia in the presence of nano-CeO2 and nano-TiO2. Chemosphere, 2012, 89, 536-541.	4.2	37
28	Modeling effects of DO and SRT on activated sludge decay and production. Water Research, 2015, 80, 169-178.	5.3	37
29	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
30	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
31	Role of Solids Retention Time on Complete Nitrification: Mechanistic Understanding and Modeling. Journal of Environmental Engineering, ASCE, 2014, 140, 48-56.	0.7	35
32	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
33	Arsenic Accumulation in Rice Grains: Effects of Cultivars and Water Management Practices. Environmental Engineering Science, 2011, 28, 591-596.	0.8	31
34	Quantifying the chronic effect of low DO on the nitrification process. Chemosphere, 2015, 141, 19-25.	4.2	31
35	Modeling batch leaching behavior of arsenic and selenium from bituminous coal fly ashes. Chemosphere, 2011, 85, 1368-1374.	4.2	28
36	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

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37	Effects of Nano-Copper(II) Oxide and Nano-Magnesium Oxide Particles on Activated Sludge. Water Environment Research, 2012, 84, 569-576.	1.3	24
38	Quantifying the effect of nanoparticles on As(V) ecotoxicity exemplified by nanoâ€Fe₂O₃ (magnetic) and nanoâ€Al₂O₃. Environmental Toxicology and Chemistry, 2012, 31, 2870-2876.	2.2	21
39	Hazardous waste treatment technologies. Water Environment Research, 2019, 91, 1177-1198.	1.3	21
40	Predicting metals partitioning in wastewater treatment plant influents. Water Research, 2006, 40, 1333-1340.	5.3	20
41	The role of ammonia on mercury leaching from coal fly ash. Chemosphere, 2007, 69, 1586-1592.	4.2	19
42	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
43	Assessing activated sludge morphology and oxygen transfer performance using image analysis. Chemosphere, 2019, 223, 694-703.	4.2	17
44	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
45	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
46	Reduced zinc leaching from scrap tire during pavement applications. Waste Management, 2018, 81, 53-60.	3.7	11
47	Activated sludge morphology significantly impacts oxygen transfer at the airâ€“liquid boundary. Water Environment Research, 2019, 91, 500-509.	1.3	10
48	Hazardous wastes treatment technologies. Water Environment Research, 2020, 92, 1833-1860.	1.3	10
49	Impact of Trona-Based SO₂ Control on the Elemental Leaching Behavior of Fly Ash. Energy & Fuels, 2011, 25, 3514-3521.	2.5	9
50	Specific chemical interactions between metal ions and biological solids exemplified by sludge particulates. Bioresource Technology, 2014, 160, 32-42.	4.8	9
51	Leaching Assessment of Eco-Friendly Rubberized Chip Seal Pavement. Transportation Research Record, 2018, 2672, 67-77.	1.0	9
52	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
53	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
54	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

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55	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
56	Quantifying the availability and the stability of trace cationic elements in fly ash. Waste Management, 2007, 27, 1345-1355.	3.7	5
57	Implementation of long solids retention time activated sludge process for rural residential community. Water Environment Research, 2021, 93, 174-185.	1.3	5
58	Baffled Bioreactor for Municipal Wastewater Treatment. Journal of Environmental Engineering, ASCE, 2012, 138, 239-247.	0.7	4
59	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
60	Role of Solids Retention Time in Ammonia-Based Feedback Aeration Control. Journal of Environmental Engineering, ASCE, 2016, 142, 04016029.	0.7	3
61	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
62	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
63	Hazardous Wastes Treatment Technologies. Water Environment Research, 2018, 90, 1679-1719.	1.3	2