Bing Tang

List of Publications by Citations

69 papers	1,520 citations	22 h-index	37 g-index
72 ext. papers	1,935 ext. citations	9.1 avg, IF	5.22 L-index

#	Paper	IF	Citations
69	Adsorption, oxidation, and reduction behavior of arsenic in the removal of aqueous As(III) by mesoporous Fe/Al bimetallic particles. *Water Research*, **2016**, 96, 22-31	12.5	104
68	Studies on the optimum conditions using acid-washed zero-valent iron/aluminum mixtures in permeable reactive barriers for the removal of different heavy metal ions from wastewater. *Journal of Hazardous Materials*, **2016**, 302, 437-446	12.8	98
67	Energy efficiency of pre-treating excess sewage sludge with microwave irradiation. *Bioresource Technology*, **2010**, 101, 5092-7	11	86
66	Adsorption and redox conversion behaviors of Cr(VI) on goethite/carbon microspheres and akaganeite/carbon microspheres composites. *Chemical Engineering Journal*, **2019**, 356, 151-160	14.7	84
65	Fe/Al bimetallic particles for the fast and highly efficient removal of Cr(VI) over a wide pH range: Performance and mechanism. *Journal of Hazardous Materials*, **2015**, 298, 261-9	12.8	81
64	Facile preparation of magnetic mesoporous MnFeO@SiO-CTAB composites for Cr(VI) adsorption and reduction. *Environmental Pollution*, **2017**, 220, 1376-1385	9.3	69
63	Essential factors of an integrated moving bed biofilm reactor-membrane bioreactor: Adhesion characteristics and microbial community of the biofilm. *Bioresource Technology*, **2016**, 211, 574-83	11	66
62	Membrane fouling mechanism of biofilm-membrane bioreactor (BF-MBR): Pore blocking model and membrane cleaning. *Bioresource Technology*, **2018**, 250, 398-405	11	62
61	Recovery of high-purity silver directly from dilute effluents by an emulsion liquid membrane-crystallization process. *Journal of Hazardous Materials*, **2010**, 177, 377-83	12.8	59
60	Preparation of nano-sized magnetic particles from spent pickling liquors by ultrasonic-assisted chemical co-precipitation. *Journal of Hazardous Materials*, **2009**, 163, 1173-8	12.8	53
59	Cr(VI) removal by mesoporous FeOOH polymorphs: performance and mechanism. *RSC Advances*, **2016**, 6, 82118-82130	3.7	49
58	Cultivating granular sludge directly in a continuous-flow membrane bioreactor with internal circulation. *Chemical Engineering Journal*, **2017**, 309, 108-117	14.7	48
57	Coadsorption and subsequent redox conversion behaviors of As(III) and Cr(VI) on Al-containing ferrihydrite. *Environmental Pollution*, **2018**, 235, 660-669	9.3	31
56	Removal mechanism of selenite by FeO-precipitated mesoporous magnetic carbon microspheres. *Journal of Hazardous Materials*, **2017**, 330, 93-104	12.8	30
55	A new insight into resource recovery of excess sewage sludge: feasibility of extracting mixed amino acids as an environment-friendly corrosion inhibitor for industrial pickling. *Journal of Hazardous Materials*, **2014**, 279, 38-45	12.8	30
54	Occurrence, ecotoxicological risks of sulfonamides and their acetylated metabolites in the typical wastewater treatment plants and receiving rivers at the Pearl River Delta. *Science of the Total Environment*, **2020**, 709, 136192	10.2	29
53	Determination of the profile of DO and its mass transferring coefficient in a biofilm reactor packed with semi-suspended bio-carriers. *Bioresource Technology*, **2017**, 241, 54-62	11	27

52	Removal of hexavalent chromium from wastewater by acid-washed zero-valent aluminum. *Desalination and Water Treatment*, **2016**, 57, 5592-5600		27
51	Degradation of Ni‐EDTA complex by Fenton reaction and ultrasonic treatment for the removal of Ni2+ ions. *Environmental Chemistry Letters*, **2010**, 8, 317-322	13.3	27
50	Insight into the microbial community and its succession of a coupling anaerobic-aerobic biofilm on semi-suspended bio-carriers. *Bioresource Technology*, **2018**, 247, 591-598	11	26
49	Removal of selenite by zero-valent iron combined with ultrasound: Se(IV) concentration changes, Se(VI) generation, and reaction mechanism. *Ultrasonics Sonochemistry*, **2016**, 29, 328-36	8.9	25
48	Minimizing the creation of spent pickling liquors in a pickling process with high-concentration hydrochloric acid solutions: mechanism and evaluation method. *Journal of Environmental Management*, **2012**, 98, 147-54	7.9	23
47	Behaviors and fate of adsorbed Cr(VI) during Fe(II)-induced transformation of ferrihydrite-humic acid co-precipitates. *Journal of Hazardous Materials*, **2020**, 392, 122272	12.8	20
46	Residual micro organic pollutants and their biotoxicity of the effluent from the typical textile wastewater treatment plants at Pearl River Delta. *Science of the Total Environment*, **2019**, 657, 696-703	10.2	20
45	Biodiversity and succession of microbial community in a multi-habitat membrane bioreactor. *Bioresource Technology*, **2014**, 164, 354-61	11	19
44	Essence of disposing the excess sludge and optimizing the operation of wastewater treatment: rheological behavior and microbial ecosystem. *Chemosphere*, **2014**, 105, 1-13	8.4	18
43	Research Progress in Biofilm-Membrane Bioreactor: A Critical Review. *Industrial & Engineering Chemistry Research*, **2017**, 56, 6900-6909	3.9	17
42	CTAB-intercalated molybdenum disulfide nanosheets for enhanced simultaneous removal of Cr(VI) and Ni(II) from aqueous solutions. *Journal of Hazardous Materials*, **2020**, 396, 122728	12.8	17
41	Three-dimensional transfer of Cr(VI) co-precipitated with ferrihydrite containing silicate and its redistribution and retention during aging. *Science of the Total Environment*, **2019**, 696, 133966	10.2	17
40	Variation of the characteristics of biofilm on the semi-suspended bio-carrier produced by a 3D printing technique: Investigation of a whole growing cycle. *Bioresource Technology*, **2017**, 244, 40-47	11	17
39	Removal of Cr(VI) from wastewater by supported nanoscale zero-valent iron on granular activated carbon. *Desalination and Water Treatment*, **2013**, 51, 2680-2686		16
38	A short review on the research progress in alfalfa leaf protein separation technology. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 2894-2900	3.5	15
37	Promoting the granulation process of aerobic granular sludge in an integrated moving bed biofilm-membrane bioreactor under a continuous-flowing mode. *Science of the Total Environment*, **2020**, 703, 135482	10.2	15
36	Mn-incorporated ferrihydrite for Cr(VI) immobilization: Adsorption behavior and the fate of Cr(VI) during aging. *Journal of Hazardous Materials*, **2021**, 417, 126073	12.8	14
35	Variation in rheological characteristics and microcosmic composition of the sewage sludge after microwave irradiation. *Journal of Cleaner Production*, **2017**, 148, 537-544	10.3	13

34	Distribution and mass transfer of dissolved oxygen in a multi-habitat membrane bioreactor. *Bioresource Technology*, **2015**, 182, 323-328	11	13
33	Facilely synthesized recyclable mesoporous magnetic silica composite for highly efficient and fast adsorption of Methylene Blue from wastewater: Thermodynamic mechanism and kinetics study. *Journal of Molecular Liquids*, **2020**, 303, 112656	6	13
32	Coexistence or aggression? Insight into the influence of phosphate on Cr(VI) adsorption onto aluminum-substituted ferrihydrite. *Chemosphere*, **2018**, 212, 408-417	8.4	13
31	Novel mesoporous FeAl bimetal oxides for As(III) removal: Performance and mechanism. *Chemosphere*, **2017**, 169, 297-307	8.4	13
30	Heterogeneity of the diverse aerobic sludge granules self-cultivated in a membrane bioreactor with enhanced internal circulation. *Bioresource Technology*, **2018**, 263, 297-305	11	12
29	Rapid reformation of larger aerobic granular sludge in an internal-circulation membrane bioreactor after long-term operation: Effect of short-time aeration. *Bioresource Technology*, **2019**, 273, 462-467	11	12
28	Concentration of Milk Proteins for Producing Cheese Using a Shear-Enhanced Ultrafiltration Technique. *Industrial & Engineering Chemistry Research*, **2016**, 55, 11130-11138	3.9	11
27	Optimization of RDM-UF for alfalfa wastewater treatment using RSM. *Environmental Science and Pollution Research*, **2018**, 25, 1439-1447	5.1	10
26	Influence of Al(III) and Sb(V) on the transformation of ferrihydrite nanoparticles: Interaction among ferrihydrite, coprecipitated Al(III) and Sb(V). *Journal of Hazardous Materials*, **2021**, 408, 124423	12.8	8
25	Co-existence of diverse sludge granules in a single membrane bioreactor. *Chemical Engineering Journal*, **2017**, 326, 849-852	14.7	7
24	Removal of Cr(VI) from wastewater using acid-washed zero-valent iron catalyzed by polyoxometalate under acid conditions: Efficacy, reaction mechanism and influencing factors. *Journal of the Taiwan Institute of Chemical Engineers*, **2015**, 47, 177-181	5.3	7
23	Tracing the occurrence of organophosphate ester along the river flow path and textile wastewater treatment processes by using dissolved organic matters as an indicator. *Science of the Total Environment*, **2020**, 722, 137895	10.2	6
22	Migration behavior of Cr(VI) during the transformation of ferrihydrite-Cr(VI) co-precipitates: The interaction between surfactants and co-precipitates. *Science of the Total Environment*, **2021**, 767, 145429	10.2	6
21	Effects of oxalate and citrate on the behavior and redistribution of Cr(VI) during ferrihydrite-Cr(VI) co-precipitates transformation. *Chemosphere*, **2021**, 266, 128977	8.4	6
20	Operational and fouling characteristics of the combined oxidation ditch-membrane bioreactor under a continuous-flow mode. *Biochemical Engineering Journal*, **2020**, 157, 107535	4.2	5
19	Build-up of a continuous flow pre-coated dynamic membrane filter to treat diluted textile wastewater and identify its dynamic membrane fouling. *Journal of Environmental Management*, **2019**, 252, 109647	7.9	5
18	Insights into the operational characteristics of a multi-habitat membrane bioreactor: Internal variation and membrane fouling. *Biochemical Engineering Journal*, **2016**, 105, 189-196	4.2	4
17	Stepwise membrane fouling model for shear-enhanced filtration of alfalfa juice: experimental and modeling studies. *RSC Advances*, **2016**, 6, 110789-110798	3.7	3

16	Performance prediction of an internal-circulation membrane bioreactor based on models comparison and data features analysis. *Biochemical Engineering Journal*, **2021**, 166, 107850	4.2	3
15	Removal of Cr(VI) from wastewater by FeOOH supported on Amberlite IR120 resin. *Desalination and Water Treatment*, **2016**, 57, 17767-17773		2
14	Revealing the stability of aerobic granular sludge in a membrane bioreactor under different DO values by proteomics analysis. *Bioresource Technology Reports*, **2021**, 14, 100673	4.1	2
13	Mobility and transformation of Cr(VI) on the surface of goethite in the presence of oxalic acid and Mn(II). *Environmental Science and Pollution Research*, **2020**, 27, 26115-26124	5.1	1
12	Optimization of struvite crystallization to recover nutrients from raw swine wastewater. *Desalination and Water Treatment*, **2014**, 1-7		1
11	Fate of metal-EDTA complexes during ferrihydrite aging: Interaction of metal-EDTA and iron oxides. *Chemosphere*, **2021**, 132791	8.4	1
10	Rapid granulation of aerobic granular sludge and maintaining its stability by combining the effects of multi-ionic matrix and bio-carrier in a continuous-flow membrane bioreactor.. *Science of the Total Environment*, **2021**, 813, 152644	10.2	1
9	Fate of Cr(VI) during aging of ferrihydrite-humic acid co-precipitates: Comparative studies of structurally incorporated Al(III) and Mn(II). *Science of the Total Environment*, **2021**, 807, 151073	10.2	1
8	N-Acyl-homoserine lactone-mediated quorum sensing of aerobic granular sludge system in a continuous-flow membrane bioreactor. *Biochemical Engineering Journal*, **2020**, 164, 107801	4.2	1
7	Distribution and transformation of phosphorus-containing substances in a combined oxidation ditch-membrane bioreactor. *Bioresource Technology Reports*, **2021**, 15, 100700	4.1	1
6	Occurrence, distribution and removal of polycyclic aromatic hydrocarbons in a typical process for textile wastewater treatment of the Pearl River Delta Region, South China. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107149	6.8	0
5	Interaction between Se(IV) and fulvic acid and its impact on Se(IV) immobility in ferrihydrite-Se(IV) coprecipitates during aging. *Environmental Pollution*, **2021**, 293, 118552	9.3	0
4	Insights into the fouling layer of flat-sheet membrane and its development in an integrated oxidation ditch-membrane bioreactor. *Bioresource Technology*, **2021**, 345, 126466	11	0
3	Distribution characteristics of phosphorus-containing substances in a long running aerobic granular sludge-membrane bioreactor with no sludge discharge.. *Bioresource Technology*, **2022**, 347, 126694	11	0
2	Towards deep purification of secondary textile effluent by using a dynamic membrane process: Pilot-scale verification.. *Science of the Total Environment*, **2021**, 814, 152699	10.2	
1	Development of high flux dynamic membrane based on hydrodynamic and mass transfer for enhanced antifouling property and dye removal. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106283	6.8	