

# Bing Tang

## List of Publications by Year in descending order

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71  
papers

2,302  
citations

185998

28  
h-index

223531

46  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption, oxidation, and reduction behavior of arsenic in the removal of aqueous As(III) by mesoporous Fe/Al bimetallic particles. <i>Water Research</i> , 2016, 96, 22-31.	5.3	135
2	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. <i>Journal of Hazardous Materials</i> , 2016, 302, 437-446.	6.5	129
3	Adsorption and redox conversion behaviors of Cr(VI) on goethite/carbon microspheres and akaganeite/carbon microspheres composites. <i>Chemical Engineering Journal</i> , 2019, 356, 151-160.	6.6	122
4	Fe/Al bimetallic particles for the fast and highly efficient removal of Cr(VI) over a wide pH range: Performance and mechanism. <i>Journal of Hazardous Materials</i> , 2015, 298, 261-269.	6.5	101
5	Facile preparation of magnetic mesoporous MnFe <sub>2</sub> O <sub>4</sub> @SiO <sub>2</sub> ~CTAB composites for Cr(VI) adsorption and reduction. <i>Environmental Pollution</i> , 2017, 220, 1376-1385.	3.7	96
6	Energy efficiency of pre-treating excess sewage sludge with microwave irradiation. <i>Bioresource Technology</i> , 2010, 101, 5092-5097.	4.8	93
7	Cr(VI) removal by mesoporous FeOOH polymorphs: performance and mechanism. <i>RSC Advances</i> , 2016, 6, 82118-82130.	1.7	93
8	Essential factors of an integrated moving bed biofilm reactor~membrane bioreactor: Adhesion characteristics and microbial community of the biofilm. <i>Bioresource Technology</i> , 2016, 211, 574-583.	4.8	85
9	Membrane fouling mechanism of biofilm-membrane bioreactor (BF-MBR): Pore blocking model and membrane cleaning. <i>Bioresource Technology</i> , 2018, 250, 398-405.	4.8	82
10	Cultivating granular sludge directly in a continuous-flow membrane bioreactor with internal circulation. <i>Chemical Engineering Journal</i> , 2017, 309, 108-117.	6.6	76
11	Recovery of high-purity silver directly from dilute effluents by an emulsion liquid membrane-crystallization process. <i>Journal of Hazardous Materials</i> , 2010, 177, 377-383.	6.5	69
12	Preparation of nano-sized magnetic particles from spent pickling liquors by ultrasonic-assisted chemical co-precipitation. <i>Journal of Hazardous Materials</i> , 2009, 163, 1173-1178.	6.5	64
13	Removal mechanism of selenite by Fe <sub>3</sub> O <sub>4</sub> -precipitated mesoporous magnetic carbon microspheres. <i>Journal of Hazardous Materials</i> , 2017, 330, 93-104.	6.5	51
14	Mn-incorporated ferrihydrite for Cr(VI) immobilization: Adsorption behavior and the fate of Cr(VI) during aging. <i>Journal of Hazardous Materials</i> , 2021, 417, 126073.	6.5	49
15	Coadsorption and subsequent redox conversion behaviors of As(III) and Cr(VI) on Al-containing ferrihydrite. <i>Environmental Pollution</i> , 2018, 235, 660-669.	3.7	48
16	Occurrence, ecotoxicological risks of sulfonamides and their acetylated metabolites in the typical wastewater treatment plants and receiving rivers at the Pearl River Delta. <i>Science of the Total Environment</i> , 2020, 709, 136192.	3.9	48
17	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. <i>Journal of Hazardous Materials</i> , 2014, 279, 38-45.	6.5	44
18	Residual micro organic pollutants and their biotoxicity of the effluent from the typical textile wastewater treatment plants at Pearl River Delta. <i>Science of the Total Environment</i> , 2019, 657, 696-703.	3.9	43

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19	Insight into the microbial community and its succession of a coupling anaerobic-aerobic biofilm on semi-suspended bio-carriers. <i>Bioresource Technology</i> , 2018, 247, 591-598.	4.8	41
20	Behaviors and fate of adsorbed Cr(VI) during Fe(II)-induced transformation of ferrihydrite-humic acid co-precipitates. <i>Journal of Hazardous Materials</i> , 2020, 392, 122272.	6.5	41
21	Determination of the profile of DO and its mass transferring coefficient in a biofilm reactor packed with semi-suspended bio-carriers. <i>Bioresource Technology</i> , 2017, 241, 54-62.	4.8	40
22	CTAB-intercalated molybdenum disulfide nanosheets for enhanced simultaneous removal of Cr(VI) and Ni(II) from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2020, 396, 122728.	6.5	38
23	Removal of hexavalent chromium from wastewater by acid-washed zero-valent aluminum. <i>Desalination and Water Treatment</i> , 2016, 57, 5592-5600.	1.0	35
24	Removal of selenite by zero-valent iron combined with ultrasound: Se(IV) concentration changes, Se(VI) generation, and reaction mechanism. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 328-336.	3.8	34
25	Influence of Al(III) and Sb(V) on the transformation of ferrihydrite nanoparticles: Interaction among ferrihydrite, coprecipitated Al(III) and Sb(V). <i>Journal of Hazardous Materials</i> , 2021, 408, 124423.	6.5	34
26	Degradation of Ni-EDTA complex by Fenton reaction and ultrasonic treatment for the removal of Ni <sup>2+</sup> ions. <i>Environmental Chemistry Letters</i> , 2010, 8, 317-322.	8.3	32
27	Essence of disposing the excess sludge and optimizing the operation of wastewater treatment: Rheological behavior and microbial ecosystem. <i>Chemosphere</i> , 2014, 105, 1-13.	4.2	31
28	Minimizing the creation of spent pickling liquors in a pickling process with high-concentration hydrochloric acid solutions: Mechanism and evaluation method. <i>Journal of Environmental Management</i> , 2012, 98, 147-154.	3.8	30
29	Promoting the granulation process of aerobic granular sludge in an integrated moving bed biofilm-membrane bioreactor under a continuous-flowing mode. <i>Science of the Total Environment</i> , 2020, 703, 135482.	3.9	30
30	Three-dimensional transfer of Cr(VI) co-precipitated with ferrihydrite containing silicate and its redistribution and retention during aging. <i>Science of the Total Environment</i> , 2019, 696, 133966.	3.9	29
31	A short review on the research progress in alfalfa leaf protein separation technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2894-2900.	1.6	26
32	Research Progress in Biofilm-Membrane Bioreactor: A Critical Review. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 6900-6909.	1.8	24
33	Heterogeneity of the diverse aerobic sludge granules self-cultivated in a membrane bioreactor with enhanced internal circulation. <i>Bioresource Technology</i> , 2018, 263, 297-305.	4.8	24
34	Variation of the characteristics of biofilm on the semi-suspended bio-carrier produced by a 3D printing technique: Investigation of a whole growing cycle. <i>Bioresource Technology</i> , 2017, 244, 40-47.	4.8	23
35	Coexistence or aggression? Insight into the influence of phosphate on Cr(VI) adsorption onto aluminum-substituted ferrihydrite. <i>Chemosphere</i> , 2018, 212, 408-417.	4.2	23
36	Facilely synthesized recyclable mesoporous magnetic silica composite for highly efficient and fast adsorption of Methylene Blue from wastewater: Thermodynamic mechanism and kinetics study. <i>Journal of Molecular Liquids</i> , 2020, 303, 112656.	2.3	23

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37	Tracing the occurrence of organophosphate ester along the river flow path and textile wastewater treatment processes by using dissolved organic matters as an indicator. <i>Science of the Total Environment</i> , 2020, 722, 137895.	3.9	23
38	Biodiversity and succession of microbial community in a multi-habitat membrane bioreactor. <i>Bioresource Technology</i> , 2014, 164, 354-361.	4.8	21
39	Distribution and mass transfer of dissolved oxygen in a multi-habitat membrane bioreactor. <i>Bioresource Technology</i> , 2015, 182, 323-328.	4.8	19
40	Variation in rheological characteristics and microcosmic composition of the sewage sludge after microwave irradiation. <i>Journal of Cleaner Production</i> , 2017, 148, 537-544.	4.6	19
41	Removal of Cr(VI) from wastewater by supported nanoscale zero-valent iron on granular activated carbon. <i>Desalination and Water Treatment</i> , 2013, 51, 2680-2686.	1.0	18
42	Rapid reformation of larger aerobic granular sludge in an internal-circulation membrane bioreactor after long-term operation: Effect of short-time aeration. <i>Bioresource Technology</i> , 2019, 273, 462-467.	4.8	18
43	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. <i>Science of the Total Environment</i> , 2022, 813, 152644.	3.9	17
44	Novel mesoporous FeAl bimetal oxides for As(III) removal: Performance and mechanism. <i>Chemosphere</i> , 2017, 169, 297-307.	4.2	16
45	Effects of oxalate and citrate on the behavior and redistribution of Cr(VI) during ferrihydrite-Cr(VI) co-precipitates transformation. <i>Chemosphere</i> , 2021, 266, 128977.	4.2	16
46	Concentration of Milk Proteins for Producing Cheese Using a Shear-Enhanced Ultrafiltration Technique. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 11130-11138.	1.8	15
47	Fate of Cr(VI) during aging of ferrihydrite-humic acid co-precipitates: Comparative studies of structurally incorporated Al(III) and Mn(II). <i>Science of the Total Environment</i> , 2022, 807, 151073.	3.9	13
48	Optimization of RDM-UF for alfalfa wastewater treatment using RSM. <i>Environmental Science and Pollution Research</i> , 2018, 25, 1439-1447.	2.7	12
49	N-Acyl-homoserine lactone-mediated quorum sensing of aerobic granular sludge system in a continuous-flow membrane bioreactor. <i>Biochemical Engineering Journal</i> , 2020, 164, 107801.	1.8	11
50	Build-up of a continuous flow pre-coated dynamic membrane filter to treat diluted textile wastewater and identify its dynamic membrane fouling. <i>Journal of Environmental Management</i> , 2019, 252, 109647.	3.8	10
51	Migration behavior of Cr(VI) during the transformation of ferrihydrite-Cr(VI) co-precipitates: The interaction between surfactants and co-precipitates. <i>Science of the Total Environment</i> , 2021, 767, 145429.	3.9	10
52	Removal of Cr(VI) from wastewater using acid-washed zero-valent iron catalyzed by polyoxometalate under acid conditions: Efficacy, reaction mechanism and influencing factors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 47, 177-181.	2.7	9
53	Fate of metal-EDTA complexes during ferrihydrite aging: Interaction of metal-EDTA and iron oxides. <i>Chemosphere</i> , 2022, 291, 132791.	4.2	9
54	Distribution characteristics of phosphorus-containing substances in a long running aerobic granular sludge-membrane bioreactor with no sludge discharge. <i>Bioresource Technology</i> , 2022, 347, 126694.	4.8	8

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55	Co-existence of diverse sludge granules in a single membrane bioreactor. <i>Chemical Engineering Journal</i> , 2017, 326, 849-852.	6.6	7
56	Operational and fouling characteristics of the combined oxidation ditch-membrane bioreactor under a continuous-flow mode. <i>Biochemical Engineering Journal</i> , 2020, 157, 107535.	1.8	6
57	Insights into the operational characteristics of a multi-habitat membrane bioreactor: Internal variation and membrane fouling. <i>Biochemical Engineering Journal</i> , 2016, 105, 189-196.	1.8	5
58	Mobility and transformation of Cr(VI) on the surface of goethite in the presence of oxalic acid and Mn(II). <i>Environmental Science and Pollution Research</i> , 2020, 27, 26115-26124.	2.7	5
59	Interaction between Se(IV) and fulvic acid and its impact on Se(IV) immobility in ferrihydrite-Se(IV) coprecipitates during aging. <i>Environmental Pollution</i> , 2022, 293, 118552.	3.7	5
60	Removal of Cr(VI) from wastewater by FeOOH supported on Amberlite IR120 resin. <i>Desalination and Water Treatment</i> , 2016, 57, 17767-17773.	1.0	4
61	Performance prediction of an internal-circulation membrane bioreactor based on models comparison and data features analysis. <i>Biochemical Engineering Journal</i> , 2021, 166, 107850.	1.8	4
62	Revealing the stability of aerobic granular sludge in a membrane bioreactor under different DO values by proteomics analysis. <i>Bioresource Technology Reports</i> , 2021, 14, 100673.	1.5	4
63	Optimization of struvite crystallization to recover nutrients from raw swine wastewater. <i>Desalination and Water Treatment</i> , 0, , 1-7.	1.0	3
64	Stepwise membrane fouling model for shear-enhanced filtration of alfalfa juice: experimental and modeling studies. <i>RSC Advances</i> , 2016, 6, 110789-110798.	1.7	3
65	Distribution and transformation of phosphorus-containing substances in a combined oxidation ditch-membrane bioreactor. <i>Bioresource Technology Reports</i> , 2021, 15, 100700.	1.5	2
66	Occurrence, distribution and removal of polycyclic aromatic hydrocarbons in a typical process for textile wastewater treatment of the Pearl River Delta Region, South China. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107149.	3.3	2
67	Insights into the fouling layer of flat-sheet membrane and its development in an integrated oxidation ditch-membrane bioreactor. <i>Bioresource Technology</i> , 2022, 345, 126466.	4.8	1
68	Cover Image, Volume 92, Issue 12. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, i-i.	1.6	0
69	Development of high flux dynamic membrane based on hydrodynamic and mass transfer for enhanced antifouling property and dye removal. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106283.	3.3	0
70	Towards deep purification of secondary textile effluent by using a dynamic membrane process: Pilot-scale verification. <i>Science of the Total Environment</i> , 2022, 814, 152699.	3.9	0
71	Insights on Pb(II) retention and immobilization by ferrihydrite in the presence of Al(III) and oxalic acid. <i>Environmental Science: Nano</i> , 0, , .	2.2	0