

# Kun Wang

## List of Publications by Year in descending order

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78  
papers

3,310  
citations

172386  
29  
h-index

149623  
56  
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78  
all docs

78  
docs citations

78  
times ranked

4217  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency assessment of ZVI-based media as fillers in permeable reactive barrier for multiple heavy metal-contaminated groundwater remediation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127605.	6.5	21
2	Insight into the organic matter degradation enhancement in the bioelectrochemically-assisted sludge treatment wetland: Transformation of the organic matter and microbial community evolution. <i>Chemosphere</i> , 2022, 290, 133259.	4.2	7
3	Effects of substrate type on variation of sludge organic compounds, bioelectric production and microbial community structure in bioelectrochemically-assisted sludge treatment wetland. <i>Journal of Environmental Management</i> , 2022, 307, 114548.	3.8	9
4	Simultaneous degradation of anodic sludge and cathodic refractory pollutant in a MFC powered EF system enhanced by co-addition of lysozyme and 2-bromoethane sulfonate. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108074.	3.3	1
5	Source-specific health risks induced by PM <sub>2.5</sub> -bound metallic species under different pollution scenarios in a cold megacity of Northeast China. <i>Urban Climate</i> , 2022, 44, 101205.	2.4	5
6	Simulation and prediction of electrooxidation removal of ammonia and its application in industrial wastewater effluent. <i>Water Environment Research</i> , 2021, 93, 51-60.	1.3	2
7	Performance of sludge degradation, mineralization and electro-energy harvesting in a sludge treatment electro-wetland: Insight into the sludge loading rate. <i>Journal of Water Process Engineering</i> , 2021, 40, 101779.	2.6	6
8	Assessing the emission sources and reduction potential of atmospheric ammonia at an urban site in Northeast China. <i>Environmental Research</i> , 2021, 198, 111230.	3.7	9
9	Significant but Spatiotemporal-Heterogeneous Health Risks Caused by Airborne Exposure to Multiple Toxic Trace Elements in China. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12818-12830.	4.6	5
10	Removal trend of amoxicillin and tetracycline during groundwater recharging reusing: Redox sensitivity and microbial community response. <i>Chemosphere</i> , 2021, 282, 131011.	4.2	12
11	Development of an MFC-powered BEF system with novel Fe-Mn-Mg/CF composite cathode to degrade refractory pollutants. <i>Journal of Cleaner Production</i> , 2021, 326, 129348.	4.6	22
12	The importance of coal combustion and heterogeneous reaction for atmospheric nitrate pollution in a cold metropolis in China: Insights from isotope fractionation and Bayesian mixing model. <i>Atmospheric Environment</i> , 2020, 243, 117730.	1.9	11
13	Seasonal concentration distribution of PM <sub>1.0</sub> and PM <sub>2.5</sub> and a risk assessment of bound trace metals in Harbin, China: Effect of the species distribution of heavy metals and heat supply. <i>Scientific Reports</i> , 2020, 10, 8160.	1.6	37
14	A review of ARGs in WWTPs: Sources, stressors and elimination. <i>Chinese Chemical Letters</i> , 2020, 31, 2603-2613.	4.8	89
15	Atmospheric pollution of agriculture-oriented cities in Northeast China: A case in Suihua. <i>Journal of Environmental Sciences</i> , 2020, 97, 85-95.	3.2	20
16	Seasonal characteristic composition of inorganic elements and polycyclic aromatic hydrocarbons in atmospheric fine particulate matter and bronchoalveolar lavage fluid of COPD patients in Northeast China. <i>Respiratory Medicine</i> , 2020, 171, 106082.	1.3	8
17	Exploring the cause of PM <sub>2.5</sub> pollution episodes in a cold metropolis in China. <i>Journal of Cleaner Production</i> , 2020, 256, 120275.	4.6	24
18	Trend analysis of climatic variables and their relation to snow cover and water availability in the Central Himalayas: a case study of Langtang Basin, Nepal. <i>Theoretical and Applied Climatology</i> , 2020, 140, 891-903.	1.3	17

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19	Retrospective Study of Effect of Fine Particulate Matter on Acute Exacerbation of Patients with Idiopathic Pulmonary Fibrosis. <i>Biomedical and Environmental Sciences</i> , 2020, 33, 138-140.	0.2	0
20	Numerical Investigation of Trajectory and Attitude Robustness of an Underwater Vehicle Considering the Uncertainty of Platform Velocity and Yaw Angle. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	19
21	Effects of Uncertainties in the Launch Parameters on the Pressure-Equalizing Air Film Around a Vertically Launched Underwater Vehicle. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	10
22	Simultaneous sludge degradation, desalination and bioelectricity generation in two-phase microbial desalination cells. <i>Chemical Engineering Journal</i> , 2019, 361, 180-188.	6.6	19
23	Enhanced electricity generation and organic matter degradation during three-chamber bioelectrochemically assisted anaerobic composting of dewatered sludge. <i>Biochemical Engineering Journal</i> , 2018, 133, 196-204.	1.8	7
24	Electrochemical treatment of bio-treated landfill leachate: Influence of electrode arrangement, potential, and characteristics. <i>Chemical Engineering Journal</i> , 2018, 344, 34-41.	6.6	38
25	Deca-BDE and alternative halogenated flame retardants in a wastewater treatment plant in Harbin (2009–2016): Occurrence, temporal trends, seasonal variation, and fate. <i>Science of the Total Environment</i> , 2018, 625, 1156-1163.	3.9	29
26	Electronic and metagenomic insights into the performance of bioelectrochemical reactor simultaneously treating sewage sludge and Cr(VI)-laden wastewater. <i>Chemical Engineering Journal</i> , 2018, 341, 495-504.	6.6	13
27	Struvite precipitation from anaerobic sludge supernatant and mixed fresh/stale human urine. <i>Chemical Engineering Journal</i> , 2018, 344, 254-261.	6.6	60
28	Analysis of functional genomes from metagenomes: Revealing the accelerated electron transfer in microbial fuel cell with rhamnolipid addition. <i>Bioelectrochemistry</i> , 2018, 119, 59-67.	2.4	28
29	Temporal-spatial characteristics and source apportionment of PM2.5 as well as its associated chemical species in the Beijing-Tianjin-Hebei region of China. <i>Environmental Pollution</i> , 2018, 233, 714-724.	3.7	256
30	Electrochemical disinfection and removal of ammonia nitrogen for the reclamation of wastewater treatment plant effluent. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5152-5158.	2.7	22
31	Microbial fuel cell with high content solid wastes as substrates: a review. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	3.3	50
32	Accelerating anodic biofilms formation and electron transfer in microbial fuel cells: Role of anionic biosurfactants and mechanism. <i>Bioelectrochemistry</i> , 2017, 117, 48-56.	2.4	49
33	Utilization of artificial recharged effluent for irrigation: pollutants' removal and risk assessment. <i>Journal of Water Reuse and Desalination</i> , 2017, 7, 77-87.	1.2	6
34	Acceleration of organic removal and electricity generation from dewatered oily sludge in a bioelectrochemical system by rhamnolipid addition. <i>Bioresource Technology</i> , 2017, 243, 820-827.	4.8	33
35	Effect of hydraulic retention time on deterioration/restarting of sludge anaerobic digestion: Extracellular polymeric substances and microbial response. <i>Bioresource Technology</i> , 2017, 244, 261-269.	4.8	38
36	Utilization of artificial recharged effluent as makeup water for industrial cooling system: corrosion and scaling. <i>Water Science and Technology</i> , 2016, 73, 2559-2569.	1.2	3

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37	Effect of phosphoric acid as a catalyst on the hydrothermal pretreatment and acidogenic fermentation of food waste. <i>Waste Management</i> , 2016, 51, 65-71.	3.7	20
38	A comprehensive emission inventory of multiple air pollutants from iron and steel industry in China: Temporal trends and spatial variation characteristics. <i>Science of the Total Environment</i> , 2016, 559, 7-14.	3.9	154
39	Transformation and speciation of typical heavy metals in soil aquifer treatment system during long time recharging with secondary effluent: Depth distribution and combination. <i>Chemosphere</i> , 2016, 165, 100-109.	4.2	56
40	Enhancing Food Waste Hydrolysis and the Production Rate of Volatile Fatty Acids by Prefermentation and Hydrothermal Pretreatments. <i>Energy &amp; Fuels</i> , 2016, 30, 4002-4008.	2.5	27
41	Application of ultra-sonication, acid precipitation and membrane filtration for co-recovery of protein and humic acid from sewage sludge. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 327-335.	3.3	17
42	Shortcut biological nitrogen removal in continuous-flow anoxic/aerobic process for treating low-strength ammonium wastewater. <i>Desalination and Water Treatment</i> , 2016, 57, 10905-10915.	1.0	2
43	The variation of chemical characteristics of PM <sub>2.5</sub> and PM <sub>10</sub> and formation causes during two haze pollution events in urban Beijing, China. <i>Atmospheric Environment</i> , 2015, 107, 1-8.	1.9	237
44	The eAND process: Enabling simultaneous nitrogen-removal and disinfection for WWTP effluent. <i>Water Research</i> , 2015, 74, 122-131.	5.3	33
45	Bioelectrochemically-assisted anaerobic composting process enhancing compost maturity of dewatered sludge with synchronous electricity generation. <i>Bioresource Technology</i> , 2015, 193, 1-7.	4.8	21
46	Electroreduction of nitrate in water: Role of cathode and cell configuration. <i>Chemical Engineering Journal</i> , 2015, 271, 252-259.	6.6	104
47	Anaerobic digestion of food waste for volatile fatty acids (VFAs) production with different types of inoculum: Effect of pH. <i>Bioresource Technology</i> , 2014, 161, 395-401.	4.8	454
48	Underestimated public health risks caused by overestimated VOC removal in wastewater treatment processes. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 271-279.	1.7	24
49	Stimulative mineralization of p-fluoronitrobenzene in biocathode microbial electrolysis cell with an oxygen-limited environment. <i>Bioresource Technology</i> , 2014, 172, 104-111.	4.8	25
50	Improving production of volatile fatty acids from food waste fermentation by hydrothermal pretreatment. <i>Bioresource Technology</i> , 2014, 171, 323-329.	4.8	160
51	Reciprocal alternate deposition strategy using metal oxide/carbon nanotube for positive and negative electrodes of high-performance supercapacitors. <i>Nano Energy</i> , 2014, 10, 108-116.	8.2	60
52	Bioelectrochemical desalination and electricity generation in microbial desalination cell with dewatered sludge as fuel. <i>Bioresource Technology</i> , 2014, 157, 120-126.	4.8	59
53	Ammonia Abatement for Low-Salinity Domestic Secondary Effluent with a Hybrid Electrooxidation and Adsorption Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 9999-10006.	1.8	13
54	Removal and transformation of organic matters in domestic wastewater during lab-scale chemically enhanced primary treatment and a trickling filter treatment. <i>Journal of Environmental Sciences</i> , 2013, 25, 59-68.	3.2	13

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55	Characterization and transformation of dissolved organic matter in a full-scale wastewater treatment plant in Harbin, China. <i>Desalination and Water Treatment</i> , 2012, 46, 295-303.	1.0	7
56	Efficient electricity generation from sewage sludge using biocathode microbial fuel cell. <i>Water Research</i> , 2012, 46, 43-52.	5.3	162
57	Fractional, biodegradable and spectral characteristics of extracted and fractionated sludge extracellular polymeric substances. <i>Water Research</i> , 2012, 46, 4387-4396.	5.3	41
58	Effect of cathode types on long-term performance and anode bacterial communities in microbial fuel cells. <i>Bioresource Technology</i> , 2012, 118, 249-256.	4.8	40
59	Biocathode microbial fuel cell for efficient electricity recovery from dairy manure. <i>Biosensors and Bioelectronics</i> , 2012, 31, 537-543.	5.3	82
60	Sewage Treatment plant hydrogen sulfide and ammonia diffusion of research in Summer. , 2011, , .		0
61	Conditioning of wastewater sludge using freezing and thawing: Role of curing. <i>Water Research</i> , 2011, 45, 5969-5976.	5.3	80
62	Degradation and characteristic changes of organic matter in sewage sludge using microbial fuel cell with ultrasound pretreatment. <i>Bioresource Technology</i> , 2011, 102, 272-277.	4.8	67
63	Chemical characteristics and source apportionment of PM <sub>10</sub> during a brown haze episode in Harbin, China. <i>Particuology</i> , 2011, 9, 32-38.	2.0	34
64	Characterization of dissolved organic matter during landfill leachate treatment by sequencing batch reactor, aeration corrosive cell-Fenton, and granular activated carbon in series. <i>Journal of Hazardous Materials</i> , 2010, 179, 1096-1105.	6.5	82
65	Organic matter extracted from activated sludge with ammonium hydroxide and its characterization. <i>Journal of Environmental Sciences</i> , 2010, 22, 641-647.	3.2	16
66	Evaluation of flyash additive for removal of dissolved organic matter during soil aquifer treatment of wastewater treatment plant effluent. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1445-1454.	1.6	1
67	The myostatin-induced E3 ubiquitin ligase RNF13 negatively regulates the proliferation of chicken myoblasts. <i>FEBS Journal</i> , 2010, 277, 466-476.	2.2	21
68	Concentration Features and Elemental Characteristics of PM <sub>10</sub> in Brown Haze Episode. <i>Advanced Materials Research</i> , 2010, 113-116, 1661-1664.	0.3	2
69	Effect of Ultrasonic Treatment on Characteristics of Waste Activated Sludge. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	1
70	Extracellular biological organic matters in microbial fuel cell using sewage sludge as fuel. <i>Water Research</i> , 2010, 44, 2163-2170.	5.3	65
71	Study on the Seasonal Variation and Source Apportionment of PM <sub>10</sub> in Harbin, China. <i>Aerosol and Air Quality Research</i> , 2010, 10, 86-93.	0.9	39
72	Ecological Footprint Accounting and Analysis Applied to Heilongjiang Province. , 2009, , .		0

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73	Pollution Property and Affecting Factors of PM10 in the Air near the Road in Harbin. , 2009, , .		0
74	Chlorine reactivity and transformation of effluent dissolved organic fractions during chlorination. Desalination, 2009, 249, 63-71.	4.0	30
75	Urea hydrolysis and recovery of nitrogen and phosphorous as MAP from stale human urine. Journal of Environmental Sciences, 2008, 20, 1018-1024.	3.2	76
76	Numerical Study on Air Flow with Various Accuracy Conditions in a Turbulent Contact Absorber. , 2008, , .		0
77	Characteristics of Ion Concentration in the Atmospheric Particles in Harbin. Advanced Materials Research, 0, 113-116, 1439-1442.	0.3	0
78	Energy Density Prediction of Random Structures Using Perturbation Method. Applied Mechanics and Materials, 0, 271-272, 877-882.	0.2	0