# Kun Wang

List of Publications by Year
in descending order

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|---|---|---|---|
| 78<br>papers | 3,310<br>citations | 172386<br>29<br>h-index | 149623<br>56<br>g-index |
| 78<br>all docs | 78<br>docs citations | 78<br>times ranked | 4217<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Anaerobic digestion of food waste for volatile fatty acids (VFAs) production with different types of inoculum: Effect of pH. Bioresource Technology, 2014, 161, 395-401. | 4.8 | 454 |
| 2 | Temporal-spatial characteristics and source apportionment of PM2.5 as well as its associated chemical species in the Beijing-Tianjin-Hebei region of China. Environmental Pollution, 2018, 233, 714-724. | 3.7 | 256 |
| 3 | The variation of chemical characteristics of PM2.5 and PM10 and formation causes during two haze pollution events in urban Beijing, China. Atmospheric Environment, 2015, 107, 1-8. | 1.9 | 237 |
| 4 | Efficient electricity generation from sewage sludge usingbiocathode microbial fuel cell. Water Research, 2012, 46, 43-52. | 5.3 | 162 |
| 5 | Improving production of volatile fatty acids from food waste fermentation by hydrothermal pretreatment. Bioresource Technology, 2014, 171, 323-329. | 4.8 | 160 |
| 6 | A comprehensive emission inventory of multiple air pollutants from iron and steel industry in China: Temporal trends and spatial variation characteristics. Science of the Total Environment, 2016, 559, 7-14. | 3.9 | 154 |
| 7 | Electroreduction of nitrate in water: Role of cathode and cell configuration. Chemical Engineering Journal, 2015, 271, 252-259. | 6.6 | 104 |
| 8 | A review of ARGs in WWTPs: Sources, stressors and elimination. Chinese Chemical Letters, 2020, 31, 2603-2613. | 4.8 | 89 |
| 9 | Characterization of dissolved organic matter during landfill leachate treatment by sequencing batch reactor, aeration corrosive cell-Fenton, and granular activated carbon in series. Journal of Hazardous Materials, 2010, 179, 1096-1105. | 6.5 | 82 |
| 10 | Biocathode microbial fuel cell for efficient electricity recovery from dairy manure. Biosensors and Bioelectronics, 2012, 31, 537-543. | 5.3 | 82 |
| 11 | Conditioning of wastewater sludge using freezing and thawing: Role of curing. Water Research, 2011, 45, 5969-5976. | 5.3 | 80 |
| 12 | 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 |
| 13 | Degradation and characteristic changes of organic matter in sewage sludge using microbial fuel cell with ultrasound pretreatment. Bioresource Technology, 2011, 102, 272-277. | 4.8 | 67 |
| 14 | Extracellular biological organic matters in microbial fuel cell using sewage sludge as fuel. Water Research, 2010, 44, 2163-2170. | 5.3 | 65 |
| 15 | Reciprocal alternate deposition strategy using metal oxide/carbon nanotube for positive and negative electrodes of high-performance supercapacitors. Nano Energy, 2014, 10, 108-116. | 8.2 | 60 |
| 16 | Struvite precipitation from anaerobic sludge supernatant and mixed fresh/stale human urine. Chemical Engineering Journal, 2018, 344, 254-261. | 6.6 | 60 |
| 17 | Bioelectrochemical desalination and electricity generation in microbial desalination cell with dewatered sludge as fuel. Bioresource Technology, 2014, 157, 120-126. | 4.8 | 59 |
| 18 | Transformation and speciation of typical heavy metals in soil aquifer treatment system during long time recharging with secondary effluent: Depth distribution and combination. Chemosphere, 2016, 165, 100-109. | 4.2 | 56 |

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|---|---------|----|-----------|
| 19 | Microbial fuel cell with high content solid wastes as substrates: a review. Frontiers of Environmental Science and Engineering, 2017, 11, 1. | 3.3 | 50 |
| 20 | Accelerating anodic biofilms formation and electron transfer in microbial fuel cells: Role of anionic biosurfactants and mechanism. Bioelectrochemistry, 2017, 117, 48-56. | 2.4 | 49 |
| 21 | Fractional, biodegradable and spectral characteristics of extracted and fractionated sludge extracellular polymeric substances. Water Research, 2012, 46, 4387-4396. | 5.3 | 41 |
| 22 | Effect of cathode types on long-term performance and anode bacterial communities in microbial fuel cells. Bioresource Technology, 2012, 118, 249-256. | 4.8 | 40 |
| 23 | Study on the Seasonal Variation and Source Apportionment of PM10 in Harbin, China. Aerosol and Air Quality Research, 2010, 10, 86-93. | 0.9 | 39 |
| 24 | Effect of hydraulic retention time on deterioration/restarting of sludge anaerobic digestion: Extracellular polymeric substances and microbial response. Bioresource Technology, 2017, 244, 261-269. | 4.8 | 38 |
| 25 | Electrochemical treatment of bio-treated landfill leachate: Influence of electrode arrangement, potential, and characteristics. Chemical Engineering Journal, 2018, 344, 34-41. | 6.6 | 38 |
| 26 | Seasonal concentration distribution of PM1.0 and PM2.5 and a risk assessment of bound trace metals in Harbin, China: Effect of the species distribution of heavy metals and heat supply. Scientific Reports, 2020, 10, 8160. | 1.6 | 37 |
| 27 | Chemical characteristics and source apportionment of PM10 during a brown haze episode in Harbin, China. Particuology, 2011, 9, 32-38. | 2.0 | 34 |
| 28 | The eAND process: Enabling simultaneous nitrogen-removal and disinfection for WWTP effluent. Water Research, 2015, 74, 122-131. | 5.3 | 33 |
| 29 | Acceleration of organic removal and electricity generation from dewatered oily sludge in a bioelectrochemical system by rhamnolipid addition. Bioresource Technology, 2017, 243, 820-827. | 4.8 | 33 |
| 30 | Chlorine reactivity and transformation of effluent dissolved organic fractions during chlorination. Desalination, 2009, 249, 63-71. | 4.0 | 30 |
| 31 | Deca-BDE and alternative halogenated flame retardants in a wastewater treatment plant in Harbin (2009–2016): Occurrence, temporal trends, seasonal variation, and fate. Science of the Total Environment, 2018, 625, 1156-1163. | 3.9 | 29 |
| 32 | Analysis of functional genomes from metagenomes: Revealing the accelerated electron transfer in microbial fuel cell with rhamnolipid addition. Bioelectrochemistry, 2018, 119, 59-67. | 2.4 | 28 |
| 33 | Enhancing Food Waste Hydrolysis and the Production Rate of Volatile Fatty Acids by Prefermentation and Hydrothermal Pretreatments. Energy &amp; Fuels, 2016, 30, 4002-4008. | 2.5 | 27 |
| 34 | Stimulative mineralization of p -fluoronitrobenzene in biocathode microbial electrolysis cell with an oxygen-limited environment. Bioresource Technology, 2014, 172, 104-111. | 4.8 | 25 |
| 35 | Underestimated public health risks caused by overestimated VOC removal in wastewater treatment processes. Environmental Sciences: Processes and Impacts, 2014, 16, 271-279. | 1.7 | 24 |
| 36 | Exploring the cause of PM2.5 pollution episodes in a cold metropolis in China. Journal of Cleaner Production, 2020, 256, 120275. | 4.6 | 24 |

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| 37 | Electrochemical disinfection and removal of ammonia nitrogen for the reclamation of wastewater treatment plant effluent. Environmental Science and Pollution Research, 2017, 24, 5152-5158. | 2.7 | 22 |
| 38 | Development of an MFC-powered BEF system with novel Feâ€"Mnâ€"Mg/CF composite cathode to degrade refractory pollutants. Journal of Cleaner Production, 2021, 326, 129348. | 4.6 | 22 |
| 39 | The myostatinâ€induced E3 ubiquitin ligase RNF13 negatively regulates the proliferation of chicken myoblasts. FEBS Journal, 2010, 277, 466-476. | 2.2 | 21 |
| 40 | Bioelectrochemically-assisted anaerobic composting process enhancing compost maturity of dewatered sludge with synchronous electricity generation. Bioresource Technology, 2015, 193, 1-7. | 4.8 | 21 |
| 41 | Efficiency assessment of ZVI-based media as fillers in permeable reactive barrier for multiple heavy metal-contaminated groundwater remediation. Journal of Hazardous Materials, 2022, 424, 127605. | 6.5 | 21 |
| 42 | Effect of phosphoric acid as a catalyst on the hydrothermal pretreatment and acidogenic fermentation of food waste. Waste Management, 2016, 51, 65-71. | 3.7 | 20 |
| 43 | Atmospheric pollution of agriculture-oriented cities in Northeast China: A case in Suihua. Journal of Environmental Sciences, 2020, 97, 85-95. | 3.2 | 20 |
| 44 | Numerical Investigation of Trajectory and Attitude Robustness of an Underwater Vehicle Considering the Uncertainty of Platform Velocity and Yaw Angle. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, . | 0.8 | 19 |
| 45 | Simultaneous sludge degradation, desalination and bioelectricity generation in two-phase microbial desalination cells. Chemical Engineering Journal, 2019, 361, 180-188. | 6.6 | 19 |
| 46 | Application of ultra-sonication, acid precipitation and membrane filtration for co-recovery of protein and humic acid from sewage sludge. Frontiers of Environmental Science and Engineering, 2016, 10, 327-335. | 3.3 | 17 |
| 47 | 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. Theoretical and Applied Climatology, 2020, 140, 891-903. | 1.3 | 17 |
| 48 | Organic matter extracted from activated sludge with ammonium hydroxide and its characterization. Journal of Environmental Sciences, 2010, 22, 641-647. | 3.2 | 16 |
| 49 | Removal and transformation of organic matters in domestic wastewater during lab-scale chemically enhanced primary treatment and a trickling filter treatment. Journal of Environmental Sciences, 2013, 25, 59-68. | 3.2 | 13 |
| 50 | Ammonia Abatement for Low-Salinity Domestic Secondary Effluent with a Hybrid Electrooxidation and Adsorption Reactor. Industrial &amp; Engineering Chemistry Research, 2014, 53, 9999-10006. | 1.8 | 13 |
| 51 | Electronic and metagenomic insights into the performance of bioelectrochemical reactor simultaneously treating sewage sludge and Cr(VI)-laden wastewater. Chemical Engineering Journal, 2018, 341, 495-504. | 6.6 | 13 |
| 52 | Removal trend of amoxicillin and tetracycline during groundwater recharging reusing: Redox sensitivity and microbial community response. Chemosphere, 2021, 282, 131011. | 4.2 | 12 |
| 53 | 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. Atmospheric Environment, 2020, 243, 117730. | 1.9 | 11 |
| 54 | Effects of Uncertainties in the Launch Parameters on the Pressure-Equalizing Air Film Around a Vertically Launched Underwater Vehicle. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, . | 0.8 | 10 |

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|---|---------|----|-----------|
| 55 | Assessing the emission sources and reduction potential of atmospheric ammonia at an urban site in Northeast China. Environmental Research, 2021, 198, 111230. | 3.7 | 9 |
| 56 | Effects of substrate type on variation of sludge organic compounds, bioelectric production and microbial community structure in bioelectrochemically-assisted sludge treatment wetland. Journal of Environmental Management, 2022, 307, 114548. | 3.8 | 9 |
| 57 | 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. Respiratory Medicine, 2020, 171, 106082. | 1.3 | 8 |
| 58 | Characterization and transformation of dissolved organic matter in a full-scale wastewater treatment plant in Harbin, China. Desalination and Water Treatment, 2012, 46, 295-303. | 1.0 | 7 |
| 59 | Enhanced electricity generation and organic matter degradation during three-chamber bioelectrochemically assisted anaerobic composting of dewatered sludge. Biochemical Engineering Journal, 2018, 133, 196-204. | 1.8 | 7 |
| 60 | Insight into the organic matter degradation enhancement in the bioelectrochemically-assisted sludge treatment wetland: Transformation of the organic matter and microbial community evolution. Chemosphere, 2022, 290, 133259. | 4.2 | 7 |
| 61 | Utilization of artificial recharged effluent for irrigation: pollutants' removal and risk assessment. Journal of Water Reuse and Desalination, 2017, 7, 77-87. | 1.2 | 6 |
| 62 | Performance of sludge degradation, mineralization and electro-energy harvesting in a sludge treatment electro-wetland: Insight into the sludge loading rate. Journal of Water Process Engineering, 2021, 40, 101779. | 2.6 | 6 |
| 63 | Significant but Spatiotemporal-Heterogeneous Health Risks Caused by Airborne Exposure to Multiple Toxic Trace Elements in China. Environmental Science &amp; Technology, 2021, 55, 12818-12830. | 4.6 | 5 |
| 64 | Source-specific health risks induced by PM2.5-bound metallic species under different pollution scenarios in a cold megacity of Northeast China. Urban Climate, 2022, 44, 101205. | 2.4 | 5 |
| 65 | Utilization of artificial recharged effluent as makeup water for industrial cooling system: corrosion and scaling. Water Science and Technology, 2016, 73, 2559-2569. | 1.2 | 3 |
| 66 | Concentration Features and Elemental Characteristics of $PM_{10}$ in Brown Haze Episode. Advanced Materials Research, 2010, 113-116, 1661-1664. | 0.3 | 2 |
| 67 | Shortcut biological nitrogen removal in continuous-flow anoxic/aerobic process for treating low-strength ammonium wastewater. Desalination and Water Treatment, 2016, 57, 10905-10915. | 1.0 | 2 |
| 68 | Simulation and prediction of electrooxidation removal of ammonia and its application in industrial wastewater effluent. Water Environment Research, 2021, 93, 51-60. | 1.3 | 2 |
| 69 | Evaluation of fly‑ash additive for removal of dissolved organic matter during soil aquifer treatment of wastewater treatment plant Peffluent. Journal of Chemical Technology and Biotechnology, 2010, 85, 1445-1454. | 1.6 | 1 |
| 70 | Effect of Ultrasonic Treatment on Characteristics of Waste Activated Sludge. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , . | 0.0 | 1 |
| 71 | 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. Journal of Environmental Chemical Engineering, 2022, 10, 108074. | 3.3 | 1 |
| 72 | Numerical Study on Air Flow with Various Accuracy Conditions in a Turbulent Contact Absorber. , 2008, , . | | 0 |

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| 73 | Ecological Footprint Accounting and Analysis Applied to Heilongjiang Province. , 2009, , . | | 0 |
| 74 | Pollution Property and Affecting Factors of PM10 in the Air near the Road in Harbin. , 2009, , . | | 0 |
| 75 | Characteristics of Ion Concentration in the Atmospheric Particles in Harbin. Advanced Materials Research, 0, 113-116, 1439-1442. | 0.3 | 0 |
| 76 | Sewage Treatment plant hydrogen sulfide and ammonia diffusion of research in Summer. , 2011, , . | | 0 |
| 77 | Energy Density Prediction of Random Structures Using Perturbation Method. Applied Mechanics and Materials, 0, 271-272, 877-882. | 0.2 | 0 |
| 78 | Retrospective Study of Effect of Fine Particulate Matter on Acute Exacerbation of Patients with Idiopathic Pulmonary Fibrosis. Biomedical and Environmental Sciences, 2020, 33, 138-140. | 0.2 | 0 |