Juan Xu

List of Publications by Year
in descending order

30 papers	1,334 citations	361413 20 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	1255 citing authors

#	Article	IF	Citations
1	Roles of extracellular polymeric substances (EPS) in the migration and removal of sulfamethazine in activated sludge system. Water Research, 2013, 47, 5298-5306.	11.3	264
2	Activating peroxydisulfate with Co3O4/NiCo2O4 double-shelled nanocages to selectively degrade bisphenol A â€“ A nonradical oxidation process. Applied Catalysis B: Environmental, 2021, 282, 119585.	20.2	158
3	TiO2-SiO2/GAC particles for enhanced electrocatalytic removal of acid orange 7 (AO7) dyeing wastewater in a three-dimensional electrochemical reactor. Separation and Purification Technology, 2017, 187, 303-310.	7.9	72
4	Evaluating the influence of process parameters on soluble microbial products formation using response surface methodology coupled with grey relational analysis. Water Research, 2011, 45, 674-680.	11.3	62
5	Recovery of organic carbon and phosphorus from wastewater by Fe-enhanced primary sedimentation and sludge fermentation. Process Biochemistry, 2017, 54, 135-139.	3.7	60
6	Probing the contribution of extracellular polymeric substance fractions to activated-sludge bioflocculation using particle image velocimetry in combination with extended DLVO analysis. Chemical Engineering Journal, 2016, 303, 627-635.	12.7	56
7	Synergistic effects of electricity and biofilm on Rhodamine B (RhB) degradation in three-dimensional biofilm electrode reactors (3D-BERs). Electrochimica Acta, 2018, 290, 165-175.	5.2	55
8	A novel integrated system of three-dimensional electrochemical reactors (3DERs) and three-dimensional biofilm electrode reactors (3DBERs) for coking wastewater treatment. Bioresource Technology, 2019, 284, 222-230.	9.6	50
9	Insights into the interactions between triclosan (TCS) and extracellular polymeric substance (EPS) of activated sludge. Journal of Environmental Management, 2019, 232, 219-225.	7.8	47
10	Zn-Fe-rich granular sludge carbon (GSC) for enhanced electrocatalytic removal of bisphenol A (BPA) and Rhodamine B (RhB) in a continuous-flow three-dimensional electrode reactor (3DER). Electrochimica Acta, 2018, 284, 587-596.	5.2	42
11	Kinetics and thermodynamics of interaction between sulfonamide antibiotics and humic acids: Surface plasmon resonance and isothermal titration microcalorimetry analysis. Journal of Hazardous Materials, 2016, 302, 262-266.	12.4	41
12	Enhanced denitrification by nano É'-Fe2O3 induced self-assembled hybrid biofilm on particle electrodes of three-dimensional biofilm electrode reactors. Environment International, 2019, 125, 142-151.	10.0	41
13	Multiple response optimization for high efficiency energy saving treatment of rhodamine B wastewater in a three-dimensional electrochemical reactor. Journal of Environmental Management, 2018, 218, 300-308.	7.8	40
14	Insights into thermodynamic mechanisms driving bisphenol A (BPA) binding to extracellular polymeric substances (EPS) of activated sludge. Science of the Total Environment, 2019, 677, 502-510.	8.0	40
15	Microbial extracellular polymeric substances (EPS) acted as a potential reservoir in responding to high concentrations of sulfonamides shocks during biological wastewater treatment. Bioresource Technology, 2020, 313, 123654.	9.6	40
16	Photochemical decomposition of perfluorochemicals in contaminated water. Water Research, 2020, 186, 116311.	11.3	37
17	An integrated three-dimensional electrochemical system for efficient treatment of coking wastewater rich in ammonia nitrogen. Chemosphere, 2020, 246, 125703.	8.2	35
18	Co-doping polymethyl methacrylate and copper tailings to improve the performances of sludge-derived particle electrode. Water Research, 2019, 165, 115016.	11.3	24

#	Article	IF	Citations
19	pH dependence of the binding interactions between humic acids and bisphenol A - A thermodynamic perspective. Environmental Pollution, 2019, 255, 113292.	7.5	24
20	A pilot-scale three-dimensional electrochemical reactor combined with anaerobic-anoxic-oxic system for advanced treatment of coking wastewater. Journal of Environmental Management, 2020, 258, 110021.	7.8	20
21	Boron regulates catalytic sites of biochar to enhance the formation of surface-confined complex for improved peroxydisulfate activation. Chemosphere, 2022, 301, 134690.	8.2	20
22	Three-dimensional biofilm electrode reactors (3D-BERs) for wastewater treatment. Bioresource Technology, 2022, 344, 126274.	9.6	19
23	Fermentation liquor of CaO2 treated chemically enhanced primary sedimentation (CEPS) sludge for bioplastic biosynthesis. Science of the Total Environment, 2018, 644, 547-555.	8.0	18
24	Particle electrode materials dependent tetrabromobisphenol A degradation in three-dimensional biofilm electrode reactors. Environmental Research, 2021, 197, 111089.	7.5	15
25	An integrated biological-electrocatalytic process for highly-efficient treatment of coking wastewater. Bioresource Technology, 2021, 339, 125584.	9.6	15
26	Denitrifying biofilm processes for wastewater treatment: developments and perspectives. Environmental Science: Water Research and Technology, 2021, 7, 40-67.	2.4	12
27	Hierarchically porous structure of two-dimensional nano-flakes assembled flower-like NiO promotes the formation of surface-activated complex during persulfate activation. Chemical Engineering Journal, 2022, 430, 133134.	12.7	12
28	Accurately quantifying the reductive capacity of microbial extracellular polymeric substance by mediated electrochemical oxidation method. Science of the Total Environment, 2019, 673, 541-545.	8.0	11
29	Development of a three-dimensional photoelectrocatalytic reactor packed with granular sludge carbon photoelectrocatalyst for efficient wastewater treatment. Separation and Purification Technology, 2021, 277, 119642.	7.9	2
30	Three-dimensional excitation-emission matrix (EEM) fluorescence approach to probing the binding interactions of polystyrene microplastics to bisphenol A. Journal of Hazardous Materials Advances, 2022, 5, 100046.	3.0	2