Xiaoyu Wang

List of Publications by Year in descending order

21 papers	457 citations	687363 13 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	577 citing authors

#	Article	IF	Citations
1	Enhancing the catalytic activity of a novel GH5 cellulase GtCel5 from Gloeophyllum trabeum CBS 900.73 by site-directed mutagenesis on loop 6. Biotechnology for Biofuels, 2018, 11, 76.	6.2	57
2	Application of a Novel Alkali-Tolerant Thermostable DyP-Type Peroxidase from Saccharomonospora viridis DSM 43017 in Biobleaching of Eucalyptus Kraft Pulp. PLoS ONE, 2014, 9, e110319.	2.5	44
3	A thermostable Gloeophyllum trabeum xylanase with potential for the brewing industry. Food Chemistry, 2016, 199, 516-523.	8.2	44
4	Lipid accumulation of Chlorella pyrenoidosa under mixotrophic cultivation using acetate and ammonium. Bioresource Technology, 2018, 262, 342-346.	9.6	36
5	Improvement of the catalytic performance of a hyperthermostable GH10 xylanase from Talaromyces leycettanus JCM12802. Bioresource Technology, 2016, 222, 277-284.	9.6	34
6	In-situ self-assembly of plant polyphenol-coated Fe3O4 particles for oleaginous microalgae harvesting. Journal of Environmental Management, 2018, 214, 335-345.	7.8	32
7	Photoelectrocatalytic degradation of microcystin-LR using a dimensionally stable anode and the assessment of detoxification. Chemical Engineering Journal, 2019, 368, 968-979.	12.7	29
8	Facile in situ fabrication of ZnO-embedded cellulose nanocomposite films with antibacterial properties and enhanced mechanical strength via hydrogen bonding interactions. International Journal of Biological Macromolecules, 2021, 183, 760-771.	7.5	26
9	Harvesting of Chlorella vulgaris using Fe3O4 coated with modified plant polyphenol. Environmental Science and Pollution Research, 2018, 25, 26246-26258.	5.3	21
10	Analysis of miRNAs and Their Targets during Adventitious Shoot Organogenesis of Acacia crassicarpa. PLoS ONE, 2014, 9, e93438.	2.5	20
11	Application of Fe3O4 coated with modified plant polyphenol to harvest oleaginous microalgae. Algal Research, 2019, 38, 101417.	4.6	17
12	Magnetic coagulation and flocculation of a kaolin suspension using Fe3O4 coated with SiO2. Journal of Environmental Chemical Engineering, 2021, 9, 105980.	6.7	17
13	The growth and physiological activity of Microcystis aeruginosa after flocculation using modified tannin. International Biodeterioration and Biodegradation, 2018, 133, 180-186.	3.9	16
14	Improvement of the catalytic efficiency of a hyperthermophilic xylanase from Bispora sp. MEY-1. PLoS ONE, 2017, 12, e0189806.	2.5	13
15	Adsorption of aqueous Cd(II) over a Fe3O4/plant polyphenol magnetic material. Journal of Water Supply: Research and Technology - AQUA, 2018, 67, 738-753.	1.4	10
16	Magnetic polyphenol nanocomposite of Fe3O4/SiO2/PP for Cd(II) adsorption from aqueous solution. Environmental Technology (United Kingdom), 2020, , 1-14.	2.2	10
17	The choice of ionic liquid ions to mitigate corrosion impacts: the influence of superbase cations and electron-donating carboxylate anions. Green Chemistry, 2022, 24, 2114-2128.	9.0	9
18	Self-assembly of Fe3O4 with natural tannin as composites for microalgal harvesting. Fuel, 2022, 321, 124038.	6.4	9

#	Article	IF	Citations
19	Electrochemical treatment of humic acid using particle electrodes ensembled by ordered mesoporous carbon. Environmental Science and Pollution Research, 2018, 25, 20071-20083.	5.3	6
20	Improvement of the catalytic performance of a Bispora antennata cellulase by replacing the N-terminal semi-barrel structure. Bioresource Technology, 2016, 218, 279-285.	9.6	5
21	Characterization of Electromagnetic Catalysis and Degradation of Algogenic Odor Using Fe₃O₄ Nanoparticles with Tannin Coating. ACS ES&T Engineering, 2021, 1, 1542-1552.	7.6	2