

Zhiwei Wang

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

421
citations

687363

13
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

278
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamically vulcanized PP/EPDM blends with balanced stiffness and toughness via in-situ compatibilization of MAA and excess ZnO nanoparticles: Preparation, structure and properties. <i>Composites Part B: Engineering</i> , 2019, 160, 147-157.	12.0	74
2	Design of shape-memory materials based on sea-island structured EPDM/PP TPVs via in-situ compatibilization of methacrylic acid and excess zinc oxide nanoparticles. <i>Composites Science and Technology</i> , 2018, 167, 431-439.	7.8	52
3	Preparation of carbon dots from waste cellulose diacetate as a sensor for tetracycline detection and fluorescence ink. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4289-4298.	7.5	45
4	Nitrogen-doped lignin-derived biochar with enriched loading of CeO ₂ nanoparticles for highly efficient and rapid phosphate capture. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1484-1494.	7.5	28
5	Enzyme-assisted mechanical production of microfibrillated cellulose from Northern Bleached Softwood Kraft pulp. <i>Cellulose</i> , 2017, 24, 3929-3942.	4.9	27
6	Study on enhancing sludge methanogenesis by adding acetylene black and effect on the characteristics & microbial community of anaerobic granular sludge. <i>RSC Advances</i> , 2019, 9, 23086-23095.	3.6	24
7	Use of Extracellular Polymer Substance as an Additive to Improve Biogas Yield and Digestion Performance. <i>Energy & Fuels</i> , 2019, 33, 12628-12636.	5.1	23
8	Functional Surface Coating on Cellulosic Flexible Substrates with Improved Water-Resistant and Antimicrobial Properties by Use of ZnO Nanoparticles. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9.	2.7	22
9	A high-stable soybean-oil-based epoxy acrylate emulsion stabilized by silanized nanocrystalline cellulose as a sustainable paper coating for enhanced water vapor barrier. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 1043-1056.	9.4	21
10	Calcium ions affect sludge digestion performance via changing extracellular polymeric substances in anaerobic bioreactor. <i>Biomass and Bioenergy</i> , 2020, 137, 105548.	5.7	20
11	Improvement in calcified anaerobic granular sludge performance by exogenous acyl-homoserine lactones. <i>Ecotoxicology and Environmental Safety</i> , 2021, 210, 111874.	6.0	20
12	Study on the mechanism of inhibiting the calcification of anaerobic granular sludge induced by the addition of trace signal molecule (3O-C6-HSL). <i>Bioresource Technology</i> , 2022, 344, 126232.	9.6	15
13	Electrocoagulation pre-treatment to simultaneously remove dissolved and colloidal substances and Ca ²⁺ in old corrugated container wastewater. <i>Chemosphere</i> , 2021, 268, 128851.	8.2	13
14	Sludge Derived Carbon Modified Anode in Microbial Fuel Cell for Performance Improvement and Microbial Community Dynamics. <i>Membranes</i> , 2022, 12, 120.	3.0	10
15	Effects of Cellulosic Base Sheet Pore Structure and Soybean Oil-Based Polymer Layer on Cellulosic Packaging Performance as a Barrier for Water and Water Vapor. <i>BioResources</i> , 2016, 11, .	1.0	7
16	Effects of different <i>N</i> -acyl-serine lactone signaling molecules on the performance of anaerobic granular sludge. <i>RSC Advances</i> , 2022, 12, 5439-5446.	3.6	6
17	Characteristics of concentrated lignocellulosic nanofibril suspensions. <i>Cellulose</i> , 2022, 29, 147-158.	4.9	5
18	Effects of Adhesive Aging on the Characteristics of Stickies and Their Removal during Paper Recycling. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9698-9704.	3.7	4

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19	Electrocoagulation pretreatment reduced the synergistic inhibition of anaerobic granular sludge by micro stickies and Ca ²⁺ and delayed the calcification of granular sludge. <i>Industrial Crops and Products</i> , 2022, 178, 114584.	5.2	3
20	Fluorescent N-functionalized carbon nanodots from carboxymethylcellulose for sensing of high-valence metal ions and cell imaging. <i>RSC Advances</i> , 2021, 11, 34898-34907.	3.6	1
21	Analysis of dissolved and colloidal substances in old corrugated containersâ€™ whitewater and dissolved substancesâ€™ impact on colloidal substancesâ€™ stability. <i>BioResources</i> , 2020, 15, 6668-6679.	1.0	1