重庆大学环境与生态学院

科研简报

2022年第3期(总第19期)

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一、学术获奖

序号	获奖名称	单位 排名	获奖人	获奖类别	获奖等级
1	村镇污水处理关键技术与装备产业化	1	何强(1),柴宏祥(2),皇甫 小留(3)	华夏建设科学技术奖	一等奖

二、科研论文

2022年1-9月学院发表各类学术论文195篇,SCI期刊收录167篇,其中 JCR 一区论文150篇(自然指数期刊论文24篇),二区论文12篇,三、四区论文5篇。

序号	论文题目	期刊名称	出版时间	参与作者	JCR 分区
	Containing Watare: Incighte into	ENVIRONMENTAL SCIENCE & TECHNOLOGY	2022-03-26	何强,皇甫小留*	一区
2	Light- and H2O2-Mediated Redox Transformation of Thallium in Acidic Solutions Containing Iron: Kinetics and Mechanistic Insights br	ENVIRONMENTAL SCIENCE & TECHNOLOGY	2022-05-03	皇甫小留*,何强	一区
3	Photoaging of Baby Bottle-Derived Polyethersulfone and Polyphenylsulfone Microplastics and the Resulting Bisphenol S Release	ENVIRONMENTAL SCIENCE & TECHNOLOGY	2022-03-01	张利兰	→ 区
4	High-Resolution Environmentally Extended Input-Output Model to Assess the Greenhouse Gas Impact of Electronics in South Korea	ENVIRONMENTAL SCIENCE & TECHNOLOGY	2022-02-15	杨易*	→ <u>X</u>
5	Photo-Reactivity and Photo- Transformation of Algal Dissolved Organic Matter Unraveled by Optical Spectroscopy and High- Resolution Mass Spectrometry Analysis	ENVIRONMENTAL SCIENCE & TECHNOLOGY	2022-09-20	马华*,崔福义	→ <u>X</u>
6	Integrated multi-omics analyses reveal the key microbial phylotypes affecting anaerobic digestion performance under ammonia stress	WATER RESEARCH	2022-02-02	李蕾*, 彭绪亚	→ <u>X</u>

7	Multi-scale analysis of the foaming mechanism in anaerobic digestion of food waste: From physicochemical parameter, microbial community to metabolite response	WATER RESEARCH	2022-06-30	袁荣焕, 王小铭, 李蕾*, 彭绪亚	一区
8	FeS-mediated mobilization and immobilization of Cr(III) in oxic aquatic systems	WATER RESEARCH	2022-03-16	李伟, 刘斌, 刘元元*	一区
9	Thermodynamics of volatile fatty acid degradation during anaerobic digestion under organic overload stress: The potential to better identify process stability	WATER RESEARCH	2022-05-01	李蕾,彭绪亚*,王小铭	一区
10	New insight into filamentous sludge bulking: Potential role of AHL-mediated quorum sensing in deteriorating sludge floc stability and structure	WATER RESEARCH	2022-04-01	郭劲松,方芳,陈猷鹏, 晏鹏*	一区
11	A novel strategy for rapid development of a self-sustaining symbiotic algal-bacterial granular sludge: Applying algalmycelial pellets as nuclei	WATER RESEARCH	2022-05-01	张冰*,时文歆	→ 区
12	Synergistic oxidation-filtration process of electroactive peroxydisulfate with a cathodic composite CNT-PPy/PVDF ultrafiltration membrane	WATER RESEARCH	2022-02-15	赵纯*,韩乐*	一区
13	Removal of micro organic pollutants in high salinity wastewater by comproportionation system of Fe(VI)/Fe(III): Enhancement of chloride and bicarbonate	WATER RESEARCH	2022-05-01	梁嘉良,吉芳英*	→ 区
14	Indirect charing of carbon by aqueous redox mediators contributes to the enhanced desalination performance in flow-electrode CDI	WATER RESEARCH	2022-07-15	何强,陈一*	一区
15	Impact of microplastics on the treatment performance of constructed wetlands: Based on substrate characteristics and microbial activities	WATER RESEARCH	2022-06-15	何强,陈一*	一区

16	New insight into ammonium oxidation processes and mechanisms mediated by manganese oxide in constructed wetlands	WATER RESEARCH	2022-05-15	程呈*,何强,柴宏祥	一区
17	Strategy to enhance semi- continuous anaerobic digestion of food waste by combined use of calcium peroxide and magnetite	WATER RESEARCH	2022-08-01	古励*	一区
18	Upgrade the high-load anaerobic digestion and relieve acid stress through the strategy of sidestream micro-aeration: biochemical performances, microbial response and intrinsic mechanisms	WATER RESEARCH	2022-08-01	古励*	一区
19	Retention of thallium(I) on goethite, hematite, and manganite: Quantitative insights and mechanistic study	WATER RESEARCH	2022-08-01	皇甫小留*,刘鸿霞,何强,刘彩虹,陈瑶	一区
20	Electroless deposition of copper nanoparticles integrates polydopamine coating on reverse osmosis membranes for efficient biofouling mitigation	WATER RESEARCH	2022-06-15	刘彩虹*,何强	一区
	Single-Atom Iron Anchored Tubular g-C3N4 Catalysts for Ultrafast Fenton-Like Reaction: Roles of High-Valency Iron-Oxo Species and Organic Radicals	ADVANCED MATERIALS	2022-08-01	陈飞	一区
22	Roles of Relative Humidity and Particle Size on Chemical Aging of Tropical Peatland Burning Particles: Potential Influence of Phase State and Implications for Hygroscopic Property	JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES	2022-07-27	陈静*	→ 区
23	Perylenetetracarboxylic acid nanosheets with internal electric fields and anisotropic charge migration for photocatalytic hydrogen evolution	NATURE COMMUNICATIONS	2022-04-19	时文歆,崔福义	一区
24	Biosafety of human environments can be supported by effective use of renewable biomass	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2022-01-18	杨易	一区
25	Deep Insights into the Roles of Iron in the Structure and Function of the Anammox Granular Sludge System	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2022-06-06	晏鹏,方芳,郭劲松,陈猷 鹏*	→ 区

26	Facilitating Digester Recovery from Acid Inhibition at High Organic Load Rates by Limited Calcium Peroxide Addition	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2022-06-27	古励*	一区
27	Edge electronic vacancy on ultrathin carbon nitride nanosheets anchoring O2 to boost H2O2 photoproduction	APPLIED CATALYSIS B- ENVIRONMENTAL	2022-03-01	陈飞*	→ 区
28	Spatial disparity of life-cycle greenhouse gas emissions from corn straw-based bioenergy production in China	APPLIED ENERGY	2022-01-01	杨易	一区
29	Linking SDG 7 to assess the renewable energy footprint of nations by 2030	APPLIED ENERGY	2022-07-01	杨易	一区
30	Eukaryotic community composition and dynamics during solid waste decomposition	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2022-04-01	杨舒, 李蕾, 彭绪亚*	→ 区
31	Source apportionment and wet deposition of atmospheric poly- and per-fluoroalkyl substances in a metropolitan city centre of southwest China	ATMOSPHERIC ENVIRONMENT	2022-03-15	王锋文*, 卢培利	→ 区
32	Enhancement of denitrification in biofilters by immobilized biochar under low-temperature stress	BIORESOURCE TECHNOLOGY	2022-03-01	吴正松,何强,陈一*	→ 区
33	Enhanced anaerobic digestion of tar solution from rice husk thermal gasification with hybrid upflow anaerobic sludge-biochar bed reactor	BIORESOURCE TECHNOLOGY	2022-03-01	马海元	一区
34	Role of rotating speed on the stability of a self-sustaining algal-bacterial photo-granules process	BIORESOURCE TECHNOLOGY	2022-06-01	时文歆,张冰*	一区
35	Revealing the influencing mechanisms of polystyrene microplastics (MPs) on the performance and stability of the algal-bacterial granular sludge	BIORESOURCE TECHNOLOGY	2022-06-01	张冰*,时文歆	→ 区

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36	Enhanced thermophilic denitrification performance and potential microbial mechanism in denitrifying granular sludge system	BIORESOURCE TECHNOLOGY	2022-01-01	周健*	→ <u>X</u>
37	High-temperature biofilm system based on heterotrophic nitrification and aerobic denitrification treating high-strength ammonia wastewater: Nitrogen removal performances and temperature-regulated metabolic pathways	BIORESOURCE TECHNOLOGY	2022-01-01	周健*,何强	→ [<u>X</u>
38	Unravelling the biodegradation performance and mechanisms of acid orange 7 by aerobic granular sludge at different salinity levels	BIORESOURCE TECHNOLOGY	2022-08-01	张冰*,时文歆	一区
39	Denitrification performance and mechanism of denitrification biofilm reactor based on carbon-nitrate counter-diffusional	BIORESOURCE TECHNOLOGY	2022-03-01	吉芳英*	一区
40	Constructed wetlands for rural domestic wastewater treatment: A coupling of tidal strategy, insitu bio-regeneration of zeolite and Fe (II)-oxygen denitrification	BIORESOURCE TECHNOLOGY	2022-01-01	吉芳英*,石德智	一区
41	Response of nitrogen removal performance and microbial community to a wide range of pH in thermophilic denitrification system	BIORESOURCE TECHNOLOGY	2022-05-01	周健*	一区
42	Biologically induced phosphate precipitation in heterotrophic nitrification processes of different microbial aggregates: Influences of nitrogen removal metabolisms and extracellular polymeric substances	BIORESOURCE TECHNOLOGY	2022-07-01	周健*,何强	一区
43	Anaerobic dynamic membrane bioreactors for synthetic blackwater treatment under room temperature and mesophilic conditions	BIORESOURCE TECHNOLOGY	2022-07-01	古励,何强	一区
44	Global patterns and predictors of soil microbial biomass carbon, nitrogen, and phosphorus in terrestrial ecosystems	CATENA	2022-04-01	何先进*	→ 区

45	Nitrite-enhanced N-nitrosamines formation during the simulated tetracycline polluted groundwater chlorination: Experimental and theoretical investigation	CHEMICAL ENGINEERING JOURNAL	2022-03-01	梁志杰*,阳春,崔福义,赵志伟*	一区
46	A new filamentous bulking control strategy: The role of N-acyl homoserine lactone (AHL)-mediated quorum sensing in filamentous bacteria proliferation within activated sludge	CHEMICAL ENGINEERING JOURNAL	2022-01-15	郭劲松,方芳,陈猷鹏, 晏鹏*	一区
47	Complete nitrogen removal from over-aeration treated black- odorous water via adding aerobic denitrifiers and iron-carbon micro-electrolysis carriers	CHEMICAL ENGINEERING JOURNAL	2022-04-01	陈一,叶姜瑜*,李芸邑	一区
48	A novel NH2-MIL-88B(Fe)-modified ceramic membrane for the integration of electro-Fenton and filtration processes: A case study on naproxen degradation	CHEMICAL ENGINEERING JOURNAL	2022-04-01	叶志洪	一区
49	Hydraulic-driven piezo-activation of peroxymonosulfate for carbamazepine degradation with ultralow energy consumption	CHEMICAL ENGINEERING JOURNAL	2022-08-01	郑怀礼,赵纯*	一区
50	A comparative study of free chlorine and peroxymonosulfate activated by Fe(II) in the degradation of iopamidol: Mechanisms, density functional theory (DFT) calculatitons and formation of iodinated disinfection by-products	CHEMICAL ENGINEERING JOURNAL	2022-05-01	梁嘉良,吉芳英*	一区
51	A newly designed graphite- polyaniline composite current collector to enhance the performance of flow electrode capacitive deionization	CHEMICAL ENGINEERING JOURNAL	2022-05-01	赵志伟*,时文歆,崔福义	一区
52	Intensified interactions of triclosan and diclofenac mitigation and nitrogen removal in manganese oxide constructed wetlands	CHEMICAL ENGINEERING JOURNAL	2022-04-01	程呈,何强*	一区
53	The potential of electrotrophic denitrification coupled with sulfur recycle in MFC and its responses to COD/SO42-ratios	CHEMOSPHERE	2022-01-01	程鸿, 何强, 艾海男*	一区

54	Phosphorus deficiency leads to the loosening of activated sludge: The role of exopolysaccharides in aggregation	CHEMOSPHERE	2022-03-01	陈猷鹏, 晏鹏, 郭劲松, 方芳*	一区
55	Selective separation and recovery of lithium, nickel, MnO2, and Co2O3 from LiNiO.5MnO.3CoO.2O2 in spent battery	CHEMOSPHERE	2022-01-01	高小峰	→ 区
56	Kinetics and mechanism of Thallium(I) oxidation by Permanganate: Role of bromide	CHEMOSPHERE	2022-04-01	皇甫小留*, 何强	一区
57	Removal of diclofenac and oxytetracycline from synthetic urine by furfuryl alcohol-derived mesoporous carbon	CHEMOSPHERE	2022-02-01	石德智, 吉芳英*	一区
58	A light-enhanced alpha-Fe00H nanowires/polyaniline anode for improved electricity generation performance in microbial fuel cells	CHEMOSPHERE	2022-06-01	马华*, 崔福义	一区
59	Discrepant effects of monovalent cations on membrane fouling induced by colloidal polymer: Evaluation and mechanism investigation	CHEMOSPHERE	2022-05-01	张冰*,时文歆	一区
60	Temporal changes of microbial community structure and nitrogen cycling processes during the aerobic degradation of phenanthrene	CHEMOSPHERE	2022-01-01	张利兰*,卢培利,柏宏成	一区
61	Photodegradation of acebutolol in natural waters: Important roles of carbonate radical and hydroxyl radical	CHEMOSPHERE	2022-01-01	张利兰	一区
62	High-efficiency oxidation of norfloxacin by Fe3+/H2O2 process enhanced via vacuum ultraviolet irradiation: Role of newly formed Fe2+	CHEMOSPHERE	2022-01-01	赵志伟*,时文歆,崔福义*	一区
63	Selective adsorption of anions on hydrotalcite-like compounds derived from drinking water treatment residuals	CHEMOSPHERE	2022-08-01	梁志杰*,赵志伟,崔福义	一区

64	Co-occurrence of autotrophic and heterotrophic denitrification in electrolysis assisted constructed wetland packing with coconut fiber as solid carbon source	CHEMOSPHERE	2022-08-01	周健,刘彩虹*	一区
65	Distribution and ecological risks of pharmaceuticals and personal care products with different anthropogenic stresses in a coastal watershed of China	CHEMOSPHERE	2022-09-01	王尘辰*	一区
66	Copper removal and elemental sulfur recovery from fracturing flowback water in a microbial fuel cell with an extra electrochemical anode	CHEMOSPHERE	2022-09-01	卢培利,张代钧*	一区
67	Photodegradation of propranolol in surface waters: An important role of carbonate radical and enhancing toxicity phenomenon	CHEMOSPHERE	2022-06-01	张利兰	$ \boxtimes$
68	Human-Climate Coupled Changes in Vegetation Community Complexity of China Since 1980s	EARTHS FUTURE	2022-07-01	杨永川	一区
69	Meta-analysis of the removal of trace organic contaminants from constructed wetlands: Conditions, parameters, and mechanisms	ECOLOGICAL ENGINEERING	2022-05-01	胡学斌,陈一*	一区
70	Freeze-thaw alternations accelerate plasticizers release and pose a risk for exposed organisms	ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY	2022-08-01	陈忠礼,邵迎,方芳,郭劲 松	一区
71	Electricity generation and acid and alkaline recovery from pickled waters/ wastewaters through anaerobic digestion, bipolar membrane electrodialysis and solid oxide fuel cell hybrid system	ENERGY CONVERSION AND MANAGEMENT	2022-01-01	许林季, 何强	一区
72	Per- and poly-fluoroalkyl substances in sediments from the water-level-fluctuation zone of the Three Gorges Reservoir, China: Contamination characteristics, source apportionment, and mass inventory and loadings	ENVIRONMENTAL POLLUTION	2022-04-15	张代钧,王锋文*	一区

73	1	ENVIRONMENTAL POLLUTION	2022-01-01	李宏, 张利兰*	→ 区
74	and iTRAQ investigation Effects of pyrene on the	ENVIRONMENTAL POLLUTION	2022-07-15	张利兰*,卢培利	一区
75	Occurrence, distribution and risk assessment of organophosphate esters (OPEs) in water sources from Northeast to Southeast China	ENVIRONMENTAL POLLUTION	2022-08-15	高俊敏	一区
76	Assessing potential risks of aquatic polycyclic aromatic compounds via multiple approaches: A case study in Jialing and Yangtze Rivers in downtown Chongqing, China	ENVIRONMENTAL POLLUTION	2022-02-01	陈静,田密*	一区
77	Sustainable and effective degradation of aniline by sodium percarbonate activated with UV in aqueous solution: Kinetics, mechanism and identification of reactive species	ENVIRONMENTAL RESEARCH	2022-05-01	李莉,张赛*	一区
78	Singlet oxygen-dominated electrocatalytic oxidation	ENVIRONMENTAL RESEARCH	2022-06-01	赵汉卿*,丁阿强,卢培 利*	一区
79	Carbon nanotubes mediated chemical and biological decolorization of azo dye: Understanding the structure-activity relationship	ENVIRONMENTAL RESEARCH	2022-07-01	赵汉卿,卢培利	一区
80	Response of CO2 and CH4 transport to damming: A case study of Yulin River in the Three Gorges Reservoir, China	ENVIRONMENTAL RESEARCH	2022-05-15	何强,李宏,程呈*	一区
81		ENVIRONMENTAL RESEARCH	2022-03-01	陈静,王锋文,田密*	一区

82	A full-view management method based on artificial neural networks for energy and material- savings in wastewater treatment plants	ENVIRONMENTAL RESEARCH	2022-08-01	晏鹏,陈猷鹏*	一区
83	Influence of iron species on the simultaneous nitrate and sulfate removal in constructed wetlands under low/high COD concentrations	ENVIRONMENTAL RESEARCH	2022-09-01	程呈	一区
84	The GHG mitigation opportunity of sludge management in China	ENVIRONMENTAL RESEARCH	2022-09-01	晏鹏,方芳,郭劲松,李伟 民,陈猷鹏*	一区
85	Giant Trees Exhibited Great Cooling Effect in Residential Area Southwest of China	FORESTS	2022-09-01	张荣飞*	一区
86	Earthworms exert long lasting afterlife effects on soil microbial communities	GEODERMA	2022-08-15	林敦梅*,朱广宇,钱深 华,赵亮,杨永川	一区
87	Phylogenetic structure of alien and native species in regional plant assemblages across China: Testing niche conservatism hypothesis versus niche convergence hypothesis	GLOBAL ECOLOGY AND BIOGEOGRAPHY	2022-09-01	钱深华*	- ⊠
88	An Analysis of the Colony Structure of Prokaryotes in the Jialing River Waters in Chongqing	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	2022-05-01	李宏*	一区
89	Influence of nitrogen-poor wastewater on activated sludge aggregation and settling: Sequential responses of extracellular proteins and exopolysaccharides	JOURNAL OF CLEANER PRODUCTION	2022-07-20	郭劲松,方芳*,陈猷鹏, 晏鹏	→ 区
90	Effects of long-term exposure to low-concentration PS-NPs on anammox granular sludge: Resistance and inhibition depend on PS-NP accumulation	JOURNAL OF CLEANER PRODUCTION	2022-09-10	刘智萍,龙曼,郭劲松,晏鹏,陈猷鹏,方芳*	一区
91	New mechanistic insights into the effect of cations on membrane fouling caused by anionic polyacrylamide	JOURNAL OF COLLOID AND INTERFACE SCIENCE	2022-01-15	张冰*,时文歆	一区

92	Comparative analysis of membrane fouling mechanisms induced by colloidal polymer: Effects of sodium and calcium ions	JOURNAL OF COLLOID AND INTERFACE SCIENCE	2022-02-15	张冰*,时文歆	一区
93	Effects of incineration leachate on anaerobic digestion of excess sludge and the related mechanisms	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2022-06-01	古励*	→ ⊠
94	Particle-size-based elution of petroleum hydrocarbon contaminated soil by surfactant mixture	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2022-01-15	刘元元*	一区
95	Effect of magnetite on the catalytic oxidation of polycyclic aromatic hydrocarbons in fly ash from MSW incineration: A comparative study of one-step and two-step hydrothermal processes	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2022-02-01	石德智*	一区
96	Organic matter removal performance, pathway and microbial community succession during the construction of high- ammonia anaerobic biosystems treating anaerobic digestate food waste effluent	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2022-09-01	周健*	一区
97	Characterizing composition profile and diversity patterns of spontaneous urban plants across China's major cities	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2022-09-01	黄俊龙,钱深华,林敦梅, 赵亮,杨永川*	一区
98	Deep convolutional neural networks for construction and demolition waste classification: VGGNet structures, cyclical learning rate, and knowledge transfer	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2022-09-15	高小峰*	一区
99	Thermodynamic and kinetic coupling modeling for thallium(I) sorption at a heterogeneous titanium dioxide interface	JOURNAL OF HAZARDOUS MATERIALS	2022-04-15	刘鸿霞,皇甫小留*,何强,刘彩虹,陈瑶	$-\overline{\mathbf{x}}$
100	Potassium supplement enhanced cadmium removal in a Microcystis aeruginosa photobioreactor: Evidence from actual and simulated wastewater	JOURNAL OF HAZARDOUS MATERIALS	2022-02-15	何强, 胡学斌, 李宏*	一区

101	Microplastics benefit bacteria colonization and induce microcystin degradation	JOURNAL OF HAZARDOUS MATERIALS	2022-06-05	杨永川, 李宏*	一区
102	Tailoring S-vacancy concentration changes the type of the defect and photocatalytic activity in ZFS	JOURNAL OF HAZARDOUS MATERIALS	2022-04-15	时文歆*,崔福义	一区
103	Structural, metabolic, and functional characteristics of soil microbial communities in response to benzo[a]pyrene stress	JOURNAL OF HAZARDOUS MATERIALS	2022-06-05	张利兰*	一区
104	High-efficiency oxidation of fluoroquinolones by the synergistic activation of peroxymonosulfate via vacuum ultraviolet and ferrous iron	JOURNAL OF HAZARDOUS MATERIALS	2022-01-15	梁志杰,梁嘉良,赵志伟 *,崔福义,时文歆	一区
105	Enhanced selective adsorption of lead(II) from complex wastewater by DTPA functionalized chitosan- coated magnetic silica nanoparticles based on anion- synergism	JOURNAL OF HAZARDOUS MATERIALS	2022-01-15	郑怀礼*, 胡学斌, 何强	一区
106	Chitin-biocalcium as a novel superior composite for ciprofloxacin removal: Synergism of adsorption and flocculation	JOURNAL OF HAZARDOUS MATERIALS	2022-02-05	孙强,郑怀礼*	→ ⊠
107	Sulfide enhances the Fe(II)/Fe(III) cycle in Fe(III)- peroxymonosulfate system for rapid removal of organic contaminants: Treatment efficiency, kinetics and mechanism	JOURNAL OF HAZARDOUS MATERIALS	2022-04-22	陈飞*	一区
108	Soil microbial ecological effect of shale gas oil-based drilling cuttings pyrolysis residue used as soil covering material	JOURNAL OF HAZARDOUS MATERIALS	2022-08-15	王翔*	<u> </u>
109	Encapsulins from Ca. Brocadia fulgida: An effective tool to enhance the tolerance of engineered bacteria (pET-28a-cEnc) to Zn2+	JOURNAL OF HAZARDOUS MATERIALS	2022-08-05	晏鹏,郭劲松,方芳,陈猷 鹏*	一区
110	Quantitative proteomics and phosphoproteomics elucidate the molecular mechanism of nanostructured TiO2-stimulated biofilm formation	JOURNAL OF HAZARDOUS MATERIALS	2022-06-01	陈猷鹏	→ ⊠

111	Aging behavior of microplastics affected DOM in riparian sediments: From the characteristics to bioavailability	JOURNAL OF HAZARDOUS MATERIALS	2022-06-05	陈一*	一区
112	Unexpected nitrogen flow and water quality change due to varying atmospheric deposition	JOURNAL OF HYDROLOGY	2022-06-01	郭劲松	→ 区
113	Pre-coagulation for membrane fouling mitigation in an aerobic granular sludge membrane bioreactor: A comparative study of modified microbial and organic flocculants	JOURNAL OF MEMBRANE SCIENCE	2022-02-15	张冰*,时文歆	一区
114	Ultrafine Bi Nanoparticles Confined in Hydrothermal Carbon- Modified Carbon Nanotubes for Highly Efficient CO2 Electroreduction to Formate	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	2022-04-01	张代钧*	→ 区
115	Insight into thiosulfate-driven denitrification and anammox process: Bigger aggregates driving better nitrite utilization on ammonium and nitrate contained wastewater	JOURNAL OF WATER PROCESS ENGINEERING	2022-06-01	马海元,邵知宇*,柴宏祥 *	一区
116	Enhanced removal of nutrients and diclofenac by birnessite sand vertical flow constructed wetlands	JOURNAL OF WATER PROCESS ENGINEERING	2022-04-01	程呈,何强*	一区
117	allodb: An R package for biomass estimation at globally distributed extratropical forest plots	METHODS IN ECOLOGY AND EVOLUTION	2022-02-01	林敦梅	→ <u>⊠</u>
118	Application of Exogenous Iron Alters the Microbial Community Structure and Reduces the Accumulation of Cadmium and Arsenic in Rice (Oryza sativa L.)	NANOMATERIALS	2022-04-01	李宏	→ 区
119	Regulation of ZnFe204 synthesis for optimizing photoelectric response and its application for ciprofloxacin degradation: The synergistic effect with peroxymonosulfate and visible light	PROCESS SAFETY AND ENVIRONMENTAL PROTECTION	2022-09-01	张赛,李莉*	一区

120	The sustainability of staple crops in China can be substantially improved through localized strategies	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	2022-02-01	杨易*	一区
121	Improving the efficiency of wastewater treatment and microalgae production for biofuels	RESOURCES CONSERVATION AND RECYCLING	2022-03-01	龙天渝*	→ ⊠
122	Ni(II), Cr(VI), Cu(II) and nitrate removal by the co-system of Pseudomonas hibiscicola strain L1 immobilized on peanut shell biochar	SCIENCE OF THE TOTAL ENVIRONMENT	2022-03-25	安强*, 赵彬	一区
123	Insight into the structure and metabolic function of iron-rich nanoparticles in anammox bacteria	SCIENCE OF THE TOTAL ENVIRONMENT	2022-02-01	晏鹏,方芳,郭劲松,陈 猷鹏*	
124	Occurrence, potential sources and risks of organophosphate esters in the high-elevation region, Tibet, China	SCIENCE OF THE TOTAL ENVIRONMENT	2022-02-01	郭劲松,王尘辰,高俊敏 *	一区
125	Distinct granulation pathways of aerobic granular sludge under poly aluminum chloride enhancement	SCIENCE OF THE TOTAL ENVIRONMENT	2022-02-10	何强,张冰,刘彩虹*,皇 甫小留	一区
126	Detection and treatment of organic matters in hydraulic fracturing wastewater from shale gas extraction: A critical review	SCIENCE OF THE TOTAL ENVIRONMENT	2022-06-10	刘彩虹*,何强	一区
127	Plastic leachates lead to long- term toxicity in fungi and promote biodegradation of heterocyclic dye	SCIENCE OF THE TOTAL ENVIRONMENT	2022-02-01	马岚茜娅, 何梅, 马华*, 崔福义	一区
128	Antibiotics and antibiotic resistance genes in landfills: A review	SCIENCE OF THE TOTAL ENVIRONMENT	2022-02-01	杨舒	→ 区
129	Rapid start-up of photo-granule process in a photo-sequencing batch reactor under low aeration conditions: Effect of inoculum AGS size	SCIENCE OF THE TOTAL ENVIRONMENT	2022-05-10	张冰*,时文歆	一区
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130	Photodegradation of three antidepressants in natural waters: Important roles of dissolved organic matter and	SCIENCE OF THE TOTAL ENVIRONMENT	2022-01-01	张利兰	一区
131	nitrate Mineralization, characteristics variation, and removal mechanism of algal extracellular organic matter during vacuum ultraviolet/ozone process	SCIENCE OF THE TOTAL ENVIRONMENT	2022-05-10	赵志伟*,崔福义	一区
132	Mechanisms of orthophosphate removal from water by lanthanum carbonate and other lanthanum- containing materials	SCIENCE OF THE TOTAL ENVIRONMENT	2022-05-10	智悦*	一区
133	Mesophilic condition favors simultaneous partial nitrification and denitrification (SPND) and anammox for carbon and nitrogen removal from anaerobic digestate food waste effluent		2022-04-10	周健*	一区
134	Enhanced degradation capability of white-rot fungi after short-term pre-exposure to silver ion: Performance and selectively antimicrobial mechanisms	SCIENCE OF THE TOTAL ENVIRONMENT	2022-04-20	周健*	一区
135	Soil seedbank: Importance for revegetation in the water level fluctuation zone of the reservoir area	SCIENCE OF THE TOTAL ENVIRONMENT	2022-07-10	邵迎,陈忠礼*	一区
136	Regulating autogenic vegetation in the riparian zone reduces carbon emissions: Evidence from a microcosm study	SCIENCE OF THE TOTAL ENVIRONMENT	2022-09-20	程呈,何强,李宏*	一区
137	Contribution of nitrification and denitrification to nitrous oxide turnovers in membrane-aerated biofilm reactors (MABR): A model- based evaluation	SCIENCE OF THE TOTAL ENVIRONMENT	2022-02-01	柴宏祥	一区
138	The dominant microbial metabolic pathway of the petroleum hydrocarbons in the soil of shale gas field: Carbon fixation instead of CO2 emissions	SCIENCE OF THE TOTAL ENVIRONMENT	2022-02-10	王里奥,黄川,王翔*,刘 元元*	一区
139	Deep dewatering of activated sludge using composite conditioners of surfactant, acid and flocculant: The mechanism and dosage model	SCIENCE OF THE TOTAL ENVIRONMENT	2022-02-01	周健*	一区

140	Occurrence, seasonal variation, potential sources, and risks of organophosphate esters in a cold rural area in Northeast China	SCIENCE OF THE TOTAL ENVIRONMENT	2022-04-27	郭劲松,高俊敏*	一区
141	Deep insights into the anaerobic co-digestion of waste activated sludge with concentrated leachate under different salinity stresses	SCIENCE OF THE TOTAL ENVIRONMENT	2022-09-10	古励*	一区
142	Molybdenum disulfide as excellent Co-catalyst boosting catalytic degradation of sulfamethoxazole by nZVI/PDS process	SEPARATION AND PURIFICATION TECHNOLOGY	2022-03-15	时文歆,崔福义	一区
143	Effect of modified microbial flocculant on membrane fouling alleviation in a hybrid aerobic granular sludge membrane system for wastewater reuse	SEPARATION AND PURIFICATION TECHNOLOGY	2022-06-01	张冰*,时文歆	一区
144	Functionalized chitosan-magnetic flocculants for heavy metal and dye removal modeled by an artificial neural network	SEPARATION AND PURIFICATION TECHNOLOGY	2022-02-01	翟俊, 郑怀礼	一区
145	Miraculous dye- photosensitization-assisted peroxymonosulfate activation at the carbon nitride interface: Enhanced activity and synergistic mechanism	SEPARATION AND PURIFICATION TECHNOLOGY	2022-09-01	陈飞*	一区
146	Spinel ferrite-enhanced Cr(VI) removal performance of microscale zero-valent aluminum: Synergistic effects of oxide film destruction and lattice spacing expansion	SEPARATION AND PURIFICATION TECHNOLOGY	2022-08-01	赵志伟,李莉*	→ 区
147	Eco-friendly poly(dopamine)- modified glass microspheres as a novel self-floating adsorbent for enhanced adsorption of tetracycline	SEPARATION AND PURIFICATION TECHNOLOGY	2022-07-01	李宏*,郑怀礼*	一区
148	Separable and reactivated magnetic mZVA1/nFe(3)0(4) composite induced by ball milling for efficient adsorption-reduction-sequestration of aqueous Cr (VI)	SEPARATION AND PURIFICATION TECHNOLOGY	2022-05-01	阳春,赵志伟*	→ 区
149	Removal of harmful components from MSWI fly ash as a pretreatment approach to enhance waste recycling	WASTE MANAGEMENT	2022-08-01	魏云梅*,高俊敏	一区

150	Microbial mercury methylation potential in a large-scale municipal solid waste landfill, China	WASTE MANAGEMENT	2022-05-15	杨舒*	一区
151	Cyanophycin Granule Polypeptide: a Neglected High Value-Added Biopolymer, Synthesized in Activated Sludge on a Large Scale	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2022-07-26	陈猷鹏	二区
152	Assessing the impacts of urbanization on stream ecosystem functioning through investigating litter decomposition and nutrient uptake in a forest and a hypereutrophic urban stream		2022-05-01	智悦,姚婧梅*,韩乐,林敦梅,何强	二区
153	Performance investigation of electrochemical assisted HC10/Fe2+ process for the treatment of landfill leachate	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2022-07-01	叶志洪*	二区
154	Removal effects and potential mechanisms of bisphenol A and 17 alpha-ethynylestradiol by Biogenic Mn oxides generated by Bacillus sp. WH4	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2022-08-01	林衍*	二区
155	Tracing the impact of stack configuration on interface resistances in reverse electrodialysis by in situ electrochemical impedance spectroscopy	FRONTIERS OF ENVIRONMENTAL SCIENCE & ENGINEERING	2022-04-01	刘彩虹	二区
156	The essential role of hydrophobic interaction within extracellular polymeric substances in autoaggregation of P. stutzeri strain XL-2	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	2022-07-01	赵彬*,安强,郭劲松	二区
157	Experimental and numerical study on multi-wavemodes of H-2/0(2)rotating detonation combustor	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2022-03-26	智悦	二区
158	Enhanced photocatalytic performance of spinel ferrite (MFe204, M=Zn, Mn, Co, Fe, Ni) catalysts: The correlation between morphology-microstructure and photogenerated charge efficiency	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2022-06-01	张赛,李莉*	二区

159	Effects of pine sawdust and shrimp shell biochar on anaerobic digestion under different acidification conditions	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2022-02-01	古励*	二区
160	Effects of Elevation Gradient on Soil Carbon and Nitrogen in a Typical Karst Region of Chongqing, Southwest China	JOURNAL OF GEOPHYSICAL RESEARCH- BIOGEOSCIENCES	2022-06-01	朱广宇, 何先进, 魏培, 林敦梅, 钱深华, 赵亮, 杨永川*	二区
161	Effects of compositional and configurational heterogeneity of the urban matrix on the species richness of woody plants in urban remnant forest patches	LANDSCAPE ECOLOGY	2022-02-01	杨永川	二区
162	Composition Characterization and Transformation Mechanism of Dissolved Organic Matters in a Full-Scale Membrane Bioreactor Treating Co-Digestion Wastewater of Food Waste and Sewage Sludge	SUSTAINABILITY	2022-06-01	周健*,何强	二区
163	Differences in exopolysaccharides of three microbial aggregates	ENVIRONMENTAL TECHNOLOGY	2022-08-24	方芳*,郭劲松,龙曼	三区
164	Effects of Environmental Factors on the Spatial Succession of the Bacterial Community in Municipal Solid-Waste Landfills	JOURNAL OF ENVIRONMENTAL ENGINEERING	2022-07-01	石德智,王小铭	三区
165	The Fate of Xylene Spilled into Soil: Effects of Heavy Metals and Rainfall	WATER AIR AND SOIL POLLUTION	2022-05-01	刘元元*	三区
166	Synergistic Effects of Aquatic Plants and Cyanobacterial Blooms on the Nitrous Oxide Emission from Wetlands	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	2022-03-01	钱深华*, 李伟	四区
167	Removal of humic acid from aqueous solution by a carbon nanotubes/ reduced graphene oxide composite hydrogel	DESALINATION AND WATER TREATMENT	2022-03-01	智悦	四区

三、授权专利

序号	专利名称	专利类型	参与专利人	授权日期
1	测定垃圾渗滤液中全氟辛酸浓度的高效液相 色谱荧光检测法	发明	曾晓岚,丁文川	2022-06-17
2	一种适用于低温条件下污水氨氮处理的潜流 人工湿地装置	实用新型	陈一,程呈,胡碧波	2022-01-28
3	一种微污染河流水体生态修复装置	发明	陈忠礼,晏鹏,郭劲松	2022-07-22
4	一种 Cu-TiO2 复合材料及应用	发明	丁魏,郑怀礼	2022-06-24
5	一种六价铬污染土壤的修复方法	发明	李东	2022-09-09
6	一种高盐高有机物工业废水的生物处理系统 及方法	发明	刘彩虹,何强	2022-01-18
7	一种基于过碳酸钠的石油烃污染土壤修复法	发明	刘元元	2022-03-18
8	一种基于泡沫强化的石油烃污染土壤原位修 复法	发明	刘元元	2022-03-08
9	一种用于吸附硫化氢的 Cu-HAP-生物炭复合 材料及其制备方法	发明	石德智,吉芳英	2022-04-15
10	一种核壳结构磁性纳米复合催化剂的制备方法及应用	发明	赵志伟	2022-02-22
11	强化臭氧氧化有机污染物的铁基催化剂及其制备方法	发明	赵志伟	2022-03-15
12	一种磁性羧甲基壳聚糖吸附剂的制备方法	发明	郑怀礼	2022-03-01
13	一种生活污水序批式生物膜-电解处理与回用 设备及方法	发明	周健	2022-04-19

四、数据对比





