

重庆大学环境与生态学院

科研简报

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科研办公室编

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一、科研论文

2025 年 1-6 月学院发表各类学术论文 122 篇，其中 JCR 一区论文 97 篇（自然指数期刊论文 12 篇），二、三区及四区论文 8 篇。

序号	论文题目	期刊名称	出版时间	参与作者	JCR 分区
1	Enhanced Release and Reactivity of Soil Water-Extractable Organic Matter Following Wildfire in a Subtropical Forest	ENVIRONMENTAL SCIENCE & TECHNOLOGY	2025-03-01	马华*, 崔福义	一区
2	Uncovering the Impacts of 2D and 3D Urbanization on Urban Heat Islands in 384 Chinese Cities	ENVIRONMENTAL SCIENCE & TECHNOLOGY	2025-04-07	谷依露, 高小峰*	一区
3	Wildfire-Derived Pyrogenic Dissolved Organic Matter (pyDOM) Enhances Riverine DOM Reactivities and Nitrogen Metabolisms	ENVIRONMENTAL SCIENCE & TECHNOLOGY	2025-03-01	马华*, 崔福义	一区
4	Comammox rather than AOB dominated the efficient autotrophic nitrification-denitrification process in an extremely oxygen-limited environment	WATER RESEARCH	2025-01-01	柴宏祥*	一区
5	Effluent organic matter facilitates anaerobic methane oxidation coupled with nitrous oxide reduction in river sediments	WATER RESEARCH	2025-06-01	何强, 聂文博*, 陈一*	一区
6	Enhance Fe(III) reduction in sludge fermentation for vivianite formation using exogenous H ₂ assisted by activated carbon	WATER RESEARCH	2025-01-01	古励*	一区
7	Enhancing rejection of short-chain per- and polyfluoroalkyl substances by tailoring the surface charge of nanofiltration membranes	WATER RESEARCH	2025-03-01	智悦, 韩乐, 柴宏祥, 何强, 刘彩虹*	一区
8	Improved anaerobic digestion of food waste under ammonia stress by side-stream hydrogen domestication	WATER RESEARCH	2025-01-01	古励*	一区
9	Improved ultrafiltration performance through dielectric barrier discharge/sulfite pretreatment: Effects of water matrices and mechanistic insights	WATER RESEARCH	2025-01-01	张冰*	一区
10	In-depth analysis of the roles and mechanisms of sulfate radical and hydroxyl radical in the degradation of metal-cyanide complexes	WATER RESEARCH	2025-01-01	魏云梅*, 梁嘉良	一区
11	Regulating gypsum scaling-induced wetting in membrane distillation by heterogeneous crystallization: Role of filter media	WATER RESEARCH	2025-04-01	刘彩虹	一区
12	Structure-activity relationship between crystal plane and pyrite-	WATER RESEARCH	2025-01-01	周健, 何强	一区

	driven autotrophic denitrification efficacy: Electron transfer and metagenome-based microbial mechanism				
13	Tuning Three-Electron Oxygen Reduction Pathway for $\bullet\text{OH}$ Production from O_2 : A Critical Review of Fundamental Principles, Catalyst/Electrode Development, and Application	ACS ES&T ENGINEERING	2025-03-01	叶志洪	一区
14	Climate change promotes shifts of summer maize yield and water productivity in the Weihe River Basin: A regionalization study based on a distributed crop model	AGRICULTURAL WATER MANAGEMENT	2025-06-01	冉辉*	一区
15	Nonlinear water stress response functions can improve the performance of the DSSAT-CERES-Wheat model under water deficit conditions	AGRICULTURAL WATER MANAGEMENT	2025-02-01	冉辉	一区
16	d-band center modulated water molecule adsorption and activation towards highly photocatalytic toluene mineralization	APPLIED CATALYSIS B-ENVIRONMENT AND ENERGY	2025-02-01	刘元元*	一区
17	Fe(III) Alleviates pH Dependence of Iron-based Bimetallic/PMS System for Organic Pollutant Oxidation	APPLIED CATALYSIS B-ENVIRONMENT AND ENERGY	2025-06-01	李伟*	一区
18	Modulating dynamic atomic hydrogen generation and utilization for selective electrocatalytic ammonia recovery from low-concentration nitrate-containing wastewater	APPLIED CATALYSIS B-ENVIRONMENT AND ENERGY	2025-06-01	许林季, 何强, 叶志洪*	一区
19	The role of microalgae in <i>Penaeus vannamei</i> aquaculture: Exploring the importance of biofloc technology	AQUACULTURE	2025-06-01	方芳	一区
20	Impacts of meteorology and emission reductions on haze pollution during the lockdown in the North China Plain	ATMOSPHERIC CHEMISTRY AND PHYSICS	2025-02-01	王锋文	一区
21	Revealing the chemical composition and sources of carbonaceous aerosols in $\text{PM}_{2.5}$: Insights from the Omicron-22 lockdown in Shanghai	ATMOSPHERIC ENVIRONMENT	2025-05-01	王锋文	一区
22	Seasonal variation and inhalation health risk of atmospheric polyfluoroalkyl and perfluoroalkyl substances in a metropolitan city centre of southwest China	ATMOSPHERIC ENVIRONMENT	2025-02-01	王锋文*	一区
23	The phase state and viscosity of organic aerosol and related impacts on atmospheric physicochemical processes: A review	ATMOSPHERIC ENVIRONMENT	2025-02-01	陈静*	一区
24	Photochemical loss and source apportionment of atmospheric	ATMOSPHERIC RESEARCH	2025-05-01	王锋文*, 卢培利	一区

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25	Anaerobic methane oxidation drives simultaneous nitrite and nitrous oxide removal	BIORESOURCE TECHNOLOGY	2025-05-01	聂文博	一区
26	Enhancing concurrent production of volatile fatty acids and phosphorus minerals from waste activated sludge via magnesium ferrate pre-oxidation	BIORESOURCE TECHNOLOGY	2025-04-01	李麟	一区
27	Harvesting of dissolved methane from anaerobic effluents for enhanced nitrogen removal in mainstream wastewater	BIORESOURCE TECHNOLOGY	2025-05-01	聂文博*, 阳春, 陈一*	一区
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29	Potential roles of quorum quenching in microbial aggregates during wastewater treatment	BIORESOURCE TECHNOLOGY	2025-03-01	陈猷鹏, 郭劲松, 晏鹏*	一区
30	A New insight for CO ₂ sequestration with heavy metal immobilization by calcium recycling using interpretative machine learning	CHEMICAL ENGINEERING JOURNAL	2025-05-01	陈志良	一区
31	A systematic review of accelerated carbonation technology for municipal solid waste incineration fly ash: Carbon sequestration, reuse and heavy metal risk assessment	CHEMICAL ENGINEERING JOURNAL	2025-03-01	陈志良	一区
32	Antimicrobial resistance control by liquid ground-electrode dielectric barrier discharge Plasma: The importance of oxidative reactive species	CHEMICAL ENGINEERING JOURNAL	2025-03-01	何强, 陈一*	一区
33	Effect of capsaicin on anaerobic lactic acid production from food waste	CHEMICAL ENGINEERING JOURNAL	2025-03-01	古励, 何强, 李麟*	一区
34	Enhanced nickel removal by N, S co-doped hierarchical porous biochar in capacitive deionization process: Performance and application	CHEMICAL ENGINEERING JOURNAL	2025-01-01	李莉*, 赵志伟*	一区
35	Enhancing the adaptation of anammox bacteria at low temperature: Alleviating the oxidative damage to anammoxosome membrane by ascorbic acid	CHEMICAL ENGINEERING JOURNAL	2025-02-01	陈猷鹏, 晏鹏*	一区
36	Unveiling multifactorial mechanisms of sludge bulking in aerobic granular sludge: New insights into performance and granular stability	CHEMICAL ENGINEERING JOURNAL	2025-06-01	晏鹏, 陈猷鹏, 方芳*, 郭劲松	一区
37	Vanillin as a quorum sensing	CHEMICAL	2025-05-01	李蕾*, 谷依露,	一区

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38	Development of low-carbon cement utilizing waste incineration ash: Mechanical properties, hydration behavior, and environmental impact	CONSTRUCTION AND BUILDING MATERIALS	2025-06-01	陈志良	一区
39	Spatiotemporal land use dynamics filter life history strategies to shape urban spontaneous plant assemblages	ECOLOGICAL APPLICATIONS	2025-01-01	黄俊龙, 钱深华*	一区
40	Tuning the oxygen reduction pathway in a flow-through electrocatalytic system to enable the in-situ production of hydroxyl radical and singlet oxygen for robust wastewater treatment	ELECTROCHIMICA ACTA	2025-06-01	许林季, 何强, 叶志洪*	一区
41	Evaluate the enantioselective behavior of ethiprole: Implications for aquatic systems health and human safety	EMERGING CONTAMINANTS	2025-01-01	庞明月, 瞿涵*	一区
42	Correlation between 6PPD-Q and immune along with metabolic dysregulation induced liver lesions in outdoor workers	ENVIRONMENT INTERNATIONAL	2025-05-01	陈忠礼, 郭劲松, 方芳, 邵迎*	一区
43	Global supply chain drivers of scarce water caused by grain production in China	ENVIRONMENTAL IMPACT ASSESSMENT REVIEW	2025-01-01	庞明月	一区
44	Nano-biochar reduces sustainable remediation of cadmium-contaminated soil more than micro-biochar: Evidence from cadmium removal and Eisenia foetida toxicity	ENVIRONMENTAL POLLUTION	2025-02-01	李伟, 李宏*	一区
45	Anaerobic digestion and biochar/hydrochar enhancement of antibiotic-containing wastewater: Current situation, mechanism and future prospects	ENVIRONMENTAL RESEARCH	2025-01-01	李麟	一区
46	Efficient degradation of ciprofloxacin in water using nZVI/g-C ₃ N ₄ enhanced dielectric barrier discharge plasma process	ENVIRONMENTAL RESEARCH	2025-03-01	何强, 陈一*	一区
47	Enhancing anaerobic digestion of sludge with dual-heteroatom-doped biochar derived from digested sludge: In-situ reuse of anaerobic residues for system self-circulation	ENVIRONMENTAL RESEARCH	2025-06-01	李麟	一区
48	Role of bio-chemical scale interactions in the Co-landfill of municipal solid waste and bottom ash	ENVIRONMENTAL RESEARCH	2025-02-01	王前	一区
49	Synchronous control of nitrogen and phosphorus release from sediments in shallow lakes under	ENVIRONMENTAL RESEARCH	2025-01-01	王圃	一区

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50	Effects of unmodified and amine-functionalized polystyrene nanoplastics on nitrogen removal by <i>Pseudomonas stutzeri</i> : strain characteristics, extracellular polymers, and transcriptomics	ENVIRONMENTAL SCIENCE-NANO	2025-03-01	许小伟, 郭劲松, 方芳*	一区
51	Interactions between N, P in the overlying water and flooding-induced decomposition of <i>Cynodon dactylon</i> in the water-level fluctuation zone	FRONTIERS IN PLANT SCIENCE	2025-02-01	蒋艳雪, 郭劲松*	一区
52	Effects of the coexistence of polystyrene microplastics and imidacloprid on nitrogen and phosphorus transformation in soil	FRONTIERS OF ENVIRONMENTAL SCIENCE & ENGINEERING	2025-02-01	许小伟, 蒋艳雪*, 郭劲松, 方芳	一区
53	Effects of "Grain for Green" program on soil hydraulic properties: A meta-analysis	GEODERMA	2025-01-01	张荣飞*	一区
54	Soil fauna promote litter mixture effects on nitrogen release but not carbon or phosphorus during decomposition in a subtropical forest	GEODERMA	2025-05-01	林敦梅*	一区
55	Extracellular polymeric substances enhanced photosynthesis over respiration in <i>Microcystis aeruginosa</i>	HARMFUL ALGAE	2025-05-01	方芳, 晏鹏, 陈猷鹏, 郭劲松*	一区
56	Fate of Exogenous Selenium in the Soil-Plant System: Se Accumulation, Translocation, and Effects on Growth in Vegetable, Legume, and Cereal Species	JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	2025-03-01	李俊*	一区
57	Spatial Variation and Climatic Correlates of Phylogenetic Diversity and Dispersion of Butterfly Faunas Worldwide	JOURNAL OF BIOGEOGRAPHY	2025-03-01	钱深华	一区
58	Application of microfluidics for revealing physiological metabolic response of algae at the single-cell level	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2025-04-01	陈猷鹏, 郭劲松, 晏鹏*	一区
59	Dissolved organic matter derived by microplastic: The release patterns, structure properties, composition, and the impact on rice	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2025-02-01	瞿涵, 陈一*	一区
60	Hydrothermal cotreatment of municipal solid waste incineration fly ash and leachate for organic contaminant degradation and heavy metal immobilization	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2025-04-01	陈志良*, 王心月	一区
61	Improved mathematical model simulates methane production during anaerobic digestion of food waste under stable and unstable acidification conditions	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2025-04-01	李蕾	一区
62	Nitrogen removal adaptation and	JOURNAL OF	2025-04-01	刘智萍, 龙曼, 郭	一区

	stability loss of anammox granular sludge under prolonged low-concentration PS-NPs and ciprofloxacin exposure	ENVIRONMENTAL CHEMICAL ENGINEERING		劲松, 方芳*	
63	Physiological and proteomic insights into silver nanoparticle-induced stress responses and resistance mechanisms in aerobic denitrifying <i>Enterobacter cloacae</i> HNR	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2025-04-01	陈猷鹏*	一区
64	Redox-active ligands for oxygen evolution reactions activity: Modulation of metal valence states in synthesis and accelerated reconstruction by rapid hydrolysis in alkaline electrolytes	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2025-06-01	李明洁	一区
65	Role of leachate characteristics on carbon dots/TiO ₂ photocatalytic and bactericidal inactivation mechanism	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2025-04-01	王前	一区
66	The effect mechanisms of acute combined exposure of microplastics and antibiotics on the performance of Anammox granular sludge based on scale effect	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2025-06-01	方芳	一区
67	Alteration of nitrogen sink and emission by vegetation distribution in a wetland with significant change in water level	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-01-01	李伟*	一区
68	Digestate-based organic amendment substitution improves the red soil quality and pakchoi yield	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-04-01	彭绪亚, 李蕾*	一区
69	Enhancing nitrogen removal performance of anammox granular sludge with ascorbic acid at low temperatures	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-04-01	陈猷鹏, 郭劲松, 晏鹏*	一区
70	Filamentous bacteria in activated sludge: Geographic distribution and impact of treatment processes	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-04-01	陈猷鹏, 郭劲松, 晏鹏*	一区
71	Impacts of sulfamethoxazole on heterotrophic nitrification-aerobic denitrification bacteria and its response strategies: Insights from physiology to proteomics	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-04-01	陈猷鹏*	一区
72	Insights into closed-wet ultrasonic carbonation of MSWI fly ash: Carbon sequestration, heavy metals stabilization, and PCDD/Fs migration and degradation	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-01-01	陈志良	一区
73	Removal of mixed PhACs by combined UV/H ₂ O ₂ and biologically activated carbon process: Toxicity assessment, transformation products and microbial community	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-01-01	于清淼, 耿金菊*	一区
74	Synchronous production of bioethanol and short-chain fatty acids associated with microbial	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-04-01	李麟	一区

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75	Unraveling the resistance mechanism of anammox granular sludge to iron nanoparticles	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025-01-01	高梦娇, 晏鹏, 陈猷鹏*	一区
76	Insight into the bimetallic structure sensibility of catalytic nitrate reduction over Pd-Cu nanocrystals	JOURNAL OF ENVIRONMENTAL SCIENCES	2025-03-01	时文歆	一区
77	Elimination of the interference of sulfides by zinc ions on the determination of hexavalent chromium in soil by Method 3060a & Method 7196a	JOURNAL OF HAZARDOUS MATERIALS	2025-06-01	李东*, 刘元元	一区
78	Mechanistic insights into carbonate radical-driven reactions: Selectivity and the hydrogen atom abstraction route	JOURNAL OF HAZARDOUS MATERIALS	2025-03-01	张赛, 赵志伟*, 李莉	一区
79	Transcriptional and molecular simulation analysis of the response mechanism of anammox bacteria to 3,4-dimethylpyrazole phosphate stress	JOURNAL OF HAZARDOUS MATERIALS	2025-03-01	许小伟, 晏鹏, 陈猷鹏*	一区
80	Spatiotemporal graph convolutional network using sparse monitoring data for accurate water-level reconstruction in urban drainage systems	JOURNAL OF HYDROLOGY	2025-05-01	陈磊	一区
81	Drought evolution and driving mechanisms in the China-Pakistan economic corridor under a changing environment	JOURNAL OF HYDROLOGY-REGIONAL STUDIES	2025-04-01	冉辉	一区
82	In-line granular filtration for mitigating gypsum scaling in membrane distillation	JOURNAL OF MEMBRANE SCIENCE	2025-01-01	刘彩虹	一区
83	Effect of hydraulic retention time on advanced nitrogen removal performance in denitrification and partial-denitrification anammox processes: NH_4^+ -N and organic matter from secondary influent as electron donors	JOURNAL OF WATER PROCESS ENGINEERING	2025-04-01	李俊*, 聂文博	一区
84	Unveiling the role of exogenous cobalamin on anammox performance: Nitrogen removal, sludge and microbial characterization	JOURNAL OF WATER PROCESS ENGINEERING	2025-04-01	高梦娇, 晏鹏, 陈猷鹏*	一区
85	Climate space, traits, and the spread of nonnative plants in North America	PLANT DIVERSITY	2025-03-01	钱深华	一区
86	Global patterns of taxonomic and phylogenetic endemism in liverwort assemblages	PLANT DIVERSITY	2025-01-01	钱深华	一区
87	Ammonia recovery from real biogas slurry in the up-scaled Donnan Dialysis-Osmotic Distillation membrane-based system: Performance and potentials	SEPARATION AND PURIFICATION TECHNOLOGY	2025-06-01	阳春, 姚婧梅*, 韩乐*	一区

88	Cobalt oxides grown in-situ on carbon nitride nanosheets for efficient peroxymonosulfate activation and organic contaminants degradation: Performance, mechanism, and application study	SEPARATION AND PURIFICATION TECHNOLOGY	2025-01-01	郑怀礼	一区
89	Efficient elimination of organic contaminants via a non-radical pathway involving activation of sulfite by synergistic adsorption-catalysis bifunctional chitosan-modified MOF derivative	SEPARATION AND PURIFICATION TECHNOLOGY	2025-02-24	梁嘉良	一区
90	Exploring electron-transfer pathways in co-pyrolyzed waste-derived carbocatalyst for enhanced peroxydisulfate activation	SEPARATION AND PURIFICATION TECHNOLOGY	2025-01-01	刘国涛*, 李蕾	一区
91	Mechanical insights into a novel ultra-efficient amorphous-Co ₃ S ₄ activator of peroxymonosulfate for rapid degradation of acetochlor	SEPARATION AND PURIFICATION TECHNOLOGY	2025-02-19	时文歆*	一区
92	New insights into the singlet oxygen-independent formation of TEMPO signals in electron paramagnetic resonance analysis	SEPARATION AND PURIFICATION TECHNOLOGY	2025-03-01	赵志伟	一区
93	Radical to non-radical conversion during PMS activation triggered by optimized electronic structure: Orientational regulation of oxidation pathway for water remediation	SEPARATION AND PURIFICATION TECHNOLOGY	2025-05-01	柴宏祥*	一区
94	Research hotspots and trends of molecular dynamics simulations in membrane-based water treatment: A bibliometric analysis from 2003 to 2023	SEPARATION AND PURIFICATION TECHNOLOGY	2025-06-01	刘彩虹*, 何强	一区
95	Strategy for clean phosphate recovery from polymerized aluminum chloride-treated sludge by alkaline anion exchange resins: High alkalinity and desorption	SEPARATION AND PURIFICATION TECHNOLOGY	2025-01-24	李金择, 古励*, 许林季*, 何强	一区
96	The promotional role of peroxydisulfate in Arsenic(III) oxidation by Fe(III)/Sulfite: Boosting and regulating the generation of radical and non-radical species	SEPARATION AND PURIFICATION TECHNOLOGY	2025-02-01	郑怀礼, 丁魏*, 李宏	一区
97	Hydrothermally-targeted synthesis of Al-substituted tobermorite using MSWI fly ash with industrial SiO ₂ for potentially high-quality utilization	WASTE MANAGEMENT	2025-04-01	高小峰	一区
98	Nitrogen Recovery through Dissimilatory Nitrate Reduction to Ammonium: Impact of Environmental Factors	ACS OMEGA	2025-03-01	陈猷鹏	二区
99	Assessment In Depth on the Anti-seasonal Water Fluctuations and	ECOHYDROLOGY	2025-03-01	邵迎, 陈忠礼*	二区

	Vegetation Dynamic Trends in a Plateau Lake, Southern China				
100	Nondestructive three-dimensional structure and growth characteristics of anammox granular sludge	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	2025-02-01	陈猷鹏	二区
101	Synergistic remediation of electroplating wastewater contaminated soil and reduction of risk of groundwater contamination by biochar and <i>Pseudomonas hibiscicola</i> strain L1	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	2025-01-01	安强*, 赵彬*	二区
102	Dual cross-linked hydrogel microbial reactor: An improved microbial immobilization technology to treat mixed electroplating wastewater	PROCESS BIOCHEMISTRY	2025-03-01	安强*, 赵彬	二区
103	Environmental Impacts of Shale Gas Development on Groundwater, and Flowback and Produced Water Treatment Management: A Review	SUSTAINABILITY	2025-06-01	卢培利*	二区
104	Synchronicity Between the Rates of Reaeration and Pollutants Degradation During Self-Purification in a Large River	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	2025-02-01	钱深华, 李伟*	三区
105	Zinc precipitation from ammonia leaching solutions of electric arc furnace dust by acetic acid	INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING	2025-03-01	安强*	四区

二、授权专利

序号	专利名称	专利类型	参与专利人	授权日期
1	基于智能控制的固废多效过滤净化处理装置	发明	曾洁, 杨永川, 李莉, 高俊敏	2025-01-28
2	一种基于智能反馈的生活污水处理设备	发明	曾洁, 杨永川, 李莉, 高俊敏	2025-06-24
3	一种厌氧氨氧化细菌的细菌铁蛋白的分离纯化方法	发明	陈猷鹏, 晏鹏, 方芳, 郭劲松	2025-02-18
4	基于分段非线性函数的填埋场好氧稳定化修复耗时预测方法	发明	李蕾, 彭绪亚	2025-03-18
5	一种全等压均衡曝气装置及其安装使用方法	发明	马华	2025-03-25
6	一种同步强化 O ₂ 传输和 H ₂ O ₂ 选择性的气体扩散电极、制备方 法和应用	发明	叶志洪, 何强	2025-05-20
7	一种初期雨水自动分流装置	发明	柴宏祥	2025-05-30
8	一种碳酸盐岩溶蚀速率测定方法	发明	王锋文	2025-06-20

三、数据分析

