重庆大学环境与生态学院

科研简报

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2	分类厨余垃圾高效干式厌氧消化全流程关键技术与应用示范	2	王小铭(1),王前(4)	中华环保联合会科学技术奖科技进步奖	一等奖

二、科研论文

2025 年 1-9 月学院发表各类学术论文 230 篇，其中 JCR 一区论文 171 篇（自然指数期刊论文 33 篇），二区、三区及四区论文 18 篇。

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2	Recyclable Quasi-Homogeneous Carbon Nitride Colloidal Catalyst for Sustainable Photocatalytic H2O2 Generation	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	2025-03-01	陈飞	一区
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120	Fe(III)-induced ammonium production	JOURNAL OF	2025-09-01	聂文博	一区

	and its control strategy during nitrogen removal in denitrifying dependent anaerobic methane oxidation system	ENVIRONMENTAL MANAGEMENT			
121	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
122	Characteristics of temporal variations in organic and elemental carbon aerosols from Eastern China in 2011-2020	JOURNAL OF ENVIRONMENTAL SCIENCES	2025-09-01	王锋文	一区
123	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
124	Redox potentials of sulfonamide antibiotics mediating the electron transfer process in single-atom Cu catalyst/peroxymonosulfate system: Selective removal mechanisms for sulfonamides	JOURNAL OF HAZARDOUS MATERIALS	2025-03-01	段丕俊	一区
125	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
126	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
127	A novel single-chamber bio-electro-Fenton for E2-3S removal: Insights into the effects of wastewater-derived DOM composition from molecular and species levels	JOURNAL OF HAZARDOUS MATERIALS	2025-07-01	于清淼, 耿金菊*	一区
128	Uncovering the effects of the North Pacific Subtropical Gyre on per- and polyfluoroalkyl substances distribution in the Tropical Western Pacific	JOURNAL OF HAZARDOUS MATERIALS	2025-08-01	张利兰*	一区
129	The vertical migration of a pesticide mixture in sandy soil is strongly driven by their sorption behavior and can be altered by Polyethylene Microplastics	JOURNAL OF HAZARDOUS MATERIALS	2025-08-01	陈忠礼	一区
130	Review of the zebrafish (Danio rerio) model in disinfection by-products (DBPs) toxicity research: Opportunities and challenges	JOURNAL OF HAZARDOUS MATERIALS	2025-09-01	曾洁, 高俊敏*	一区
131	Single-atom Zn anchored on reduced graphene oxide for enhanced peroxymonosulfate activation: Critical role of Zn-O3 coordination structure and catalytic mechanism	JOURNAL OF HAZARDOUS MATERIALS	2025-08-01	张利兰	一区
132	Regulating phenoxyl radical-mediated advanced oxidation processes via CuO-CeO2 heterostructure engineering for sustainable water	JOURNAL OF HAZARDOUS MATERIALS	2025-09-01	钟德来*	一区

	purification				
133	From leachate to dipteran insects in municipal solid waste landfills: The sink and transfer of PFASs driven by environmental conditions	JOURNAL OF HAZARDOUS MATERIALS	2025-09-01	钱深华, 王小铭, 智悦, 李伟*	一区
134	Mn/Fe bimetallic MOF-driven sulfite activation for synergistic non-radical oxidation and chemisorption of arsenite: Involvement of high-valent Fe (IV)/Mn(V) species	JOURNAL OF HAZARDOUS MATERIALS	2025-09-01	郑怀礼, 丁魏*, 李宏	一区
135	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
136	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
137	Diversified physical and virtual water flows in affecting water scarcity in the Beijing-Tianjin-Hebei region, China	JOURNAL OF HYDROLOGY-REGIONAL STUDIES	2025-06-01	庞明月	一区
138	In-line granular filtration for mitigating gypsum scaling in membrane distillation	JOURNAL OF MEMBRANE SCIENCE	2025-01-01	刘彩虹	一区
139	Novel insights into membrane fouling mechanism in membrane distillation for aquacultural wastewater treatment: Intrinsic relationship between ammonia nitrogen and BSA fouling	JOURNAL OF MEMBRANE SCIENCE	2025-09-01	时文歆*	一区
140	Micro-nano bubbles enhance the Fe(II)/persulfate process for ultrafiltration membrane fouling control: Performance and mechanisms	JOURNAL OF MEMBRANE SCIENCE	2025-09-01	时文歆*	一区
141	Regulating biofiltration and predation to trigger gravity-driven membrane System: Biofilm transformation and membrane efficiency	JOURNAL OF MEMBRANE SCIENCE	2025-09-01	刘彩虹*, 姚婧梅, 何强	一区
142	Exploring the physical disruptions of anammox granular sludge under propylene glycol stress: Implications for nitrogen removal and long-term stability	JOURNAL OF WATER PROCESS ENGINEERING	2025-03-01	晏鹏, 许小伟*, 陈猷鹏	一区
143	Effect of hydraulic retention time on advanced nitrogen removal performance in denitrification and partial-denitrification anammox processes: NH4+-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
144	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
145	Modified microbial flocculant-enhanced ferric chloride pre-	JOURNAL OF WATER PROCESS ENGINEERING	2025-02-01	张冰*, 时文歆	一区

	coagulation for membrane fouling mitigation during the treatment of actual funeral wastewater: Role and concentration effects of modified microbial flocculant				
146	Performance and mechanism of ZIF-67 composite carbon dots for activation of peroxymonosulfate for Bisphenol A degradation	JOURNAL OF WATER PROCESS ENGINEERING	2025-08-01	张静, 梁建军*	一区
147	Global patterns of taxonomic and phylogenetic endemism in liverwort assemblages	PLANT DIVERSITY	2025-01-01	钱深华	一区
148	Climate space, traits, and the spread of nonnative plants in North America	PLANT DIVERSITY	2025-03-01	钱深华	一区
149	The island rule-like patterns of plant size variation in a young land-bridge archipelago: Roles of environmental circumstance and biotic competition	PLANT DIVERSITY	2025-03-01	杨永川	一区
150	Deciphering advanced coagulation strategies for AGMBR membrane fouling control: Comparative analysis of five inorganic/modified microbial flocculant systems	PROCESS SAFETY AND ENVIRONMENTAL PROTECTION	2025-06-01	时文歆	一区
151	Seamounts create local hotspots of per- and polyfluoroalkyl substances in the oligotrophic open ocean	PROGRESS IN OCEANOGRAPHY	2025-09-01	张利兰*	一区
152	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
153	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
154	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
155	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
156	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
157	Mechanical insights into a novel ultra-efficient amorphous-Co3S4 activator of peroxymonosulfate for rapid degradation of acetochlor	SEPARATION AND PURIFICATION TECHNOLOGY	2025-02-19	时文歆*	一区
158	Exploring electron-transfer pathways in co-pyrolyzed waste-derived carbocatalyst for enhanced	SEPARATION AND PURIFICATION TECHNOLOGY	2025-01-01	刘国涛*, 李蕾	一区

	peroxydisulfate activation				
159	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
160	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
161	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
162	Enhanced electron transfer for superior Cr(VI) removal in water using ball-milled aluminum/biochar composite with embedded structure: Efficiency and mechanism	SEPARATION AND PURIFICATION TECHNOLOGY	2025-07-01	李莉, 赵志伟, 张赛*	一区
163	Application of a novel amorphous-Co3S4/PMS oxidation system in the ultrafiltration treatment of surface water: A promising tool for membrane fouling alleviation	SEPARATION AND PURIFICATION TECHNOLOGY	2025-08-01	时文歆*	一区
164	Hydrothermally-targeted synthesis of Al-substituted tobermorite using MSWI fly ash with industrial SiO2 for potentially high-quality utilization	WASTE MANAGEMENT	2025-04-01	高小峰	一区
165	Integrated social development on analyzing the distribution, risk and source apportionment of antibiotics pollution in mountainous rivers	WATER RESEARCH X	2025-09-01	邵迎, 陈忠礼*	一区
166	Tuning Three-Electron Oxygen Reduction Pathway for ？OH Production from O2: A Critical Review of Fundamental Principles, Catalyst/Electrode Development, and Application	ACS ES&T ENGINEERING	2025-03-01	叶志洪	一区
167	Deciphering the Impact of Halogen Ions on the Oxidative Dynamics and Halogenated Byproduct Transformation in the Ferrate(VI)-Periodate Combined System	ACS ES&T ENGINEERING	2025-01-01	段丕俊, 陈飞*	一区
168	Prediction of Dimethylsulfide in Large Rivers Using Explainable Machine Learning and Online Monitoring	ACS ES&T WATER	2025-03-01	李伟	一区
169	Wildfire-Derived Pyrogenic Dissolved Organic Matter (pyDOM) Chlorination: Molecular Transformation and Cytotoxic Drivers	ACS ES&T WATER	2025-03-01	崔福义, 马华*	一区
170	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
171	Physiological and proteomic insights into silver nanoparticle-induced stress responses and resistance	JOURNAL OF ENVIRONMENTAL CHEMICAL	2025-04-01	陈猷鹏*	一区

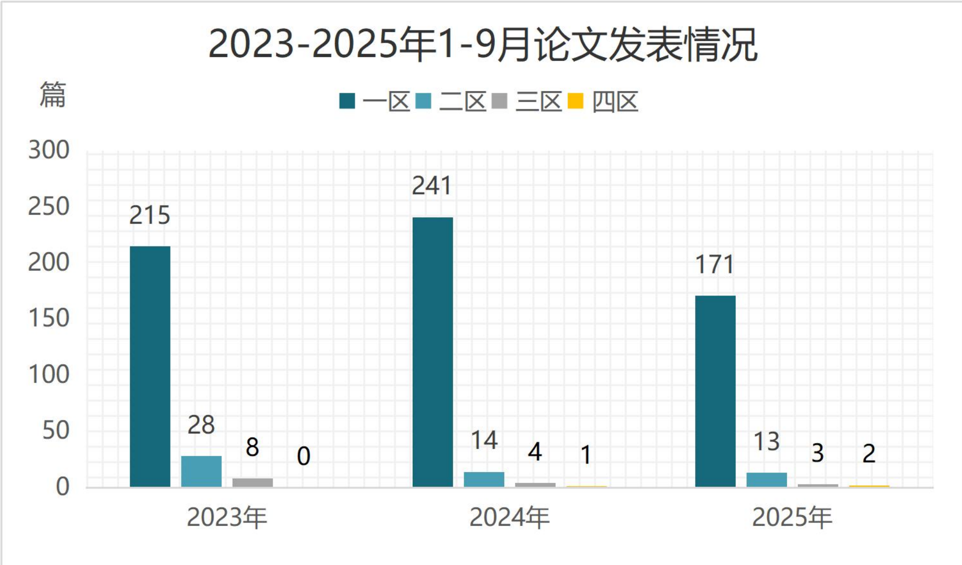
	mechanisms in aerobic denitrifying Enterobacter cloacae HNR	ENGINEERING			
172	Nitrogen Recovery through Dissimilatory Nitrate Reduction to Ammonium: Impact of Environmental Factors	ACS OMEGA	2025-03-01	陈猷鹏	二区
173	Impacts of the combined application of digestate-based compost and biochar on the heavy metal Cd distribution and stress in the plant-soil system	BIOCHEMICAL ENGINEERING JOURNAL	2025-09-01	李蕾*	二区
174	Effects of nano valent iron size on two-phase anaerobic digestion of food and kitchen waste	BIOPROCESS AND BIOSYSTEMS ENGINEERING	2025-09-01	李蕾	二区
175	Assessment In Depth on the Anti-seasonal Water Fluctuations and Vegetation Dynamic Trends in a Plateau Lake, Southern China	ECOHYDROLOGY	2025-03-01	邵迎, 陈忠礼*	二区
176	Riparian Vegetation Adapts to the Antiseasonal Water Fluctuations: Insights From Plant Functional Traits	ECOHYDROLOGY	2025-04-01	邵迎, 陈忠礼*	二区
177	Revegetation potential assessment on the Hanfeng Lake of the Three Gorges Reservoir: Evidence from soil seed bank	ECOHYDROLOGY & HYDROBIOLOGY	2025-04-01	邵迎, 陈忠礼*	二区
178	Synergistic remediation of electroplating wastewater contaminated soil and reduction of risk of groundwater contamination by biochar and Pseudomonas hibiscicola strain L1	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	2025-01-01	安强*, 赵彬*	二区
179	Nondestructive three-dimensional structure and growth characteristics of anammox granular sludge	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	2025-02-01	陈猷鹏	二区
180	Zn2+-Mediated Co-Deposition of Dopamine/Tannic Acid/ZIF-8 on PVDF Hollow Fiber Membranes for Enhanced Antifouling Performance and Protein Separation	MEMBRANES	2025-09-01	刘彩虹*	二区
181	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
182	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
183	Improved Stability of Aerobic Granular Sludge Under Low Hydraulic Shear Force by Adding Magnetic Modified Low Expansion Vermiculite as Nucleating Agent	WATER AIR AND SOIL POLLUTION	2025-08-01	李麟	二区
184	Prolonged Atmospheric Chemical Lifetime of Unsaturated Fatty Acids From Cooking Sources Observed in Beijing During Wintertime	JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES	2025-09-01	陈静	二区
185	Synchronicity Between the Rates of Reaeration and Pollutants	BULLETIN OF ENVIRONMENTAL CONTAMINATION	2025-02-01	钱深华, 李伟*	三区

	Degradation During Self-Purification in a Large River	AND TOXICOLOGY			
186	Numerical Simulation on Aerodynamic Noise of (K)TS Control Valves in Natural Gas Transmission and Distribution Stations in Southwest China	ENERGIES	2025-02-01	高俊敏*	三区
187	Pumped Hydro Energy Storage Plants in China: Increasing Demand and Multidimensional Impacts Identification	ENERGIES	2025-04-01	庞明月	三区
188	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
189	Fluorescence Detection of Perfluorooctanoic Acid by High Performance Liquid Chromatography with Pre-Column Derivatization	JOURNAL OF ANALYTICAL CHEMISTRY	2025-06-01	丁文川, 曾晓岚*	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	BIORETENTION POND FOR RAINWATER TREATMENT	发明	柴宏祥,邵知宇,马海元,何强	2025-08-05
2	A high-efficiency environmentally friendly defoamer for anaerobic digestion systems and its preparation method	发明	李蕾	2025-01-17
3	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
4	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
5	一种初期雨水自动分流装置	发明	柴宏祥	2025-05-30
6	一种钾和多种类碘共掺杂氮化碳及其制备方法和应用	发明	陈飞,陈猷鹏	2025-05-16
7	一种钴单原子纳米岛催化剂的制备方法及降解磺胺类有机污染物的应用	发明	陈飞,段丕俊,陈猷鹏	2025-02-11
8	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
9	一种垃圾焚烧飞灰高效解毒提质再利用方法和系统	发明	陈志良,王心月	2025-09-16
10	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
11	一种生物复合有机絮凝剂及制备方法和应用	发明	李伟	2025-08-01
12	一种污水处理装置	发明	李伟	2025-08-22
13	污水处理剂、污水处理系统及应用	发明	李伟	2025-09-23
14	一种环境土壤检测用土壤取样装置	发明	李伟,钱深华	2025-07-25
15	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
16	一种利用光化学降解 SDBS 的方法和设施	发明	马华,崔福义	2025-07-15
17	一种碳酸盐岩溶蚀速率测定方法	发明	王锋文	2025-06-20
18	一种同步强化 O2 传输和 H2O2 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
19	基于流体流动诱导催化剂位置选择性负载的方法及系统	发明	钟德来,智悦,刘彩虹,何强	2025-07-01

四、数据分析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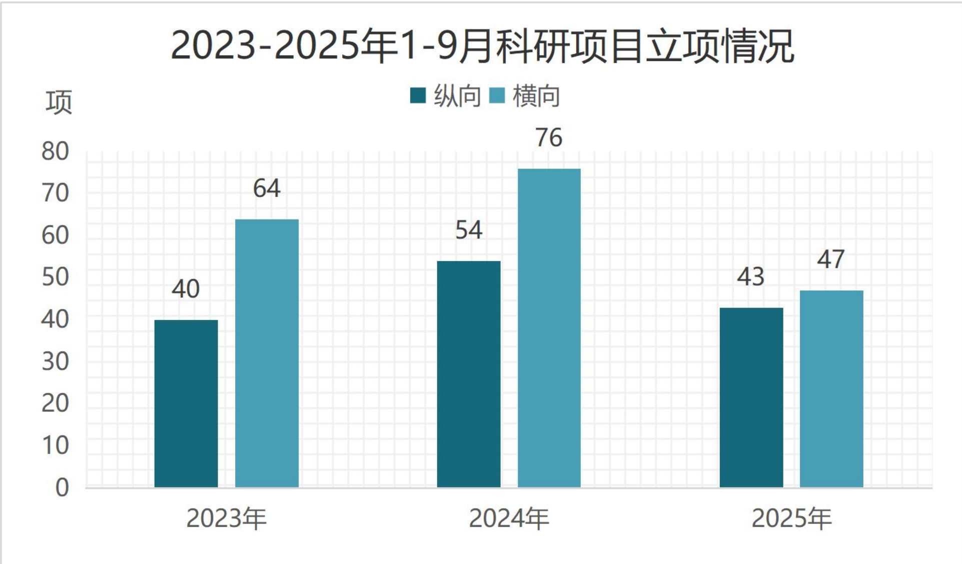
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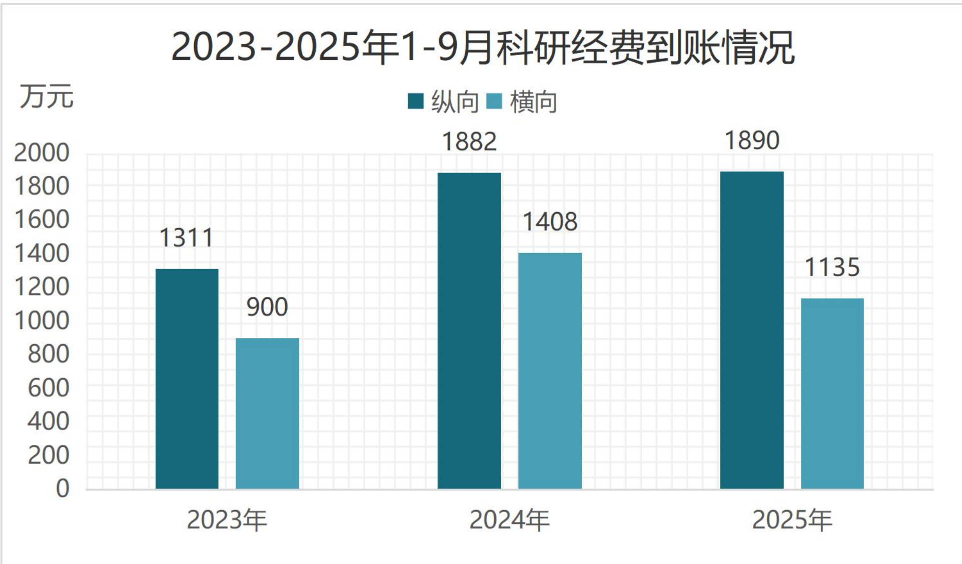
2023-2025年1-9月科研经费到账情况
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2023年
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