

重庆大学城市建设与环境工程学院

科研简报

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本年度学院获得各类科技奖励共 11 项。其中由何强院长主持的“三峡水库城镇水污染控制关键技术研究与应用”获得华夏建设科学技术奖特等奖，该奖项是 2018 年华夏奖获奖项目中唯一一项特等奖，也是华夏奖自 2003 年设立以来的第二个特等奖；由郑怀礼教授主持“高效水处理混凝剂及新型深度氧化方法基础研究”获得重庆市科学技术奖自然科学奖一等奖；由柴宏祥教授主持的“山地城镇合流制污水处理与资源化技术及产业化”获得中国产学研合作创新成果一等奖。

学院全年发表各类学术论文 267 篇，其中 SCI 期刊收录论文 179 篇：SCI1 区期刊论文 45 篇，SCI 2 区期刊论文 70 篇，SCI 3、4 区期刊论文 64 篇。相比较 2017 年度，我院 SCI1 区论文发表数量翻了 5 倍，论文整体质量和数量上都有很大的提升。

学院新获授权专利 26 项，其中：国家发明专利 19 项，实用新型专利 7 项；本年度学院出版专著 4 部。

一、学术获奖

序号	获奖名称	获奖人	获奖类别	获奖等级
1	三峡水库城镇水污染控制关键技术研究与应用	何强(1),柴宏祥(2),艾海男(4),张智(5),周健(6),翟俊(8),古励(9),吉芳英(10),李莉(12),阳春(13) (重大为第一单位)	华夏建设科学技术奖	特等奖
2	高效水处理混凝剂及新型深度氧化方法基础研究	郑怀礼(1),赵纯(3) (重大为第一单位)	重庆市科学技术奖自然科学奖	一等奖
3	山地城镇合流制污水处理与资源化技术及产业化	柴宏祥(1),何强(2),邵知宇(5),吉芳英(7),周健(8) (重大为第一单位)	中国产学研合作创新成果奖	一等奖
4	餐厨垃圾收运处理与资源化成套关键技术及产业化	彭绪亚(3),安强(12),李蕾(13) (重大为第二单位)	重庆市科学技术奖科技进步奖	一等奖
5	海绵城市雨水模型研究与Uwater平台构建	邵知宇(2),柴宏祥(6) (重大为第二单位)	地理信息科技进步奖	一等奖
6	三峡库区及重庆市水中PTS健康效应、污染过程及去除工艺的研究	郭劲松(3) (重大为第二单位)	中华医学科技奖	一等奖
7	GB/T 31060—2014 水处理剂 硫酸铝等 4 项标准	郑怀礼(5) (重大为第一单位)	中国标准创新贡献奖	三等奖
8	《热源塔热泵系统应用技术规程》CECS 362:2014	卢军(9) (重大为第九单位)	标准科技创新奖	三等奖
9	城镇污水处理碳捕捉与碳排放控制技术及应用	柴宏祥(1),何强(3),周健(5),吉芳英(6) (重大为第一单位)	重庆大学科学技术奖技术发明奖	一等奖
10	三峡水库城镇水污染控制关键技术研究及应用	何强(1),柴宏祥(2),艾海男(4),张智(5),周健(6),翟俊(8),古励(9),吉芳英(10),李莉(12),阳春(13) (重大为第一单位)	重庆大学科学技术奖科技进步奖	一等奖
11	复合型人工湿地污水处理技术及应用	翟俊(1),张智(2),陈忠礼(3),林艳(4),陈一(5),肖海文(6),姚婧梅(7),李伟(8),梁建军(10) (重大为第一单位)	重庆大学科学技术奖科技进步奖	二等奖

二、 科研论文

序号	论文题目	期刊名称	出版时间	参与作者	SCI 分区
1	Identifying long-term stable refugia for relict plant species in East Asia	NATURE COMMUNICATIONS	2018-10-26	杨永川, 钱深华	1
2	Spatiotemporal distribution and potential risk assessment of microcystins in the Yulin River, a tributary of the Three Gorges Reservoir, China	JOURNAL OF HAZARDOUS MATERIALS	2018-04-01	艾海男, 何强, 李宏	1
3	Characterization of an aerobic denitrifier <i>Pseudomonas stutzeri</i> strain XL-2 to achieve efficient nitrate removal	BIORESOURCE TECHNOLOGY	2018-02-01	安强, 赵彬, 郭劲松,	1
4	A Co,N co-doped hierarchically porous carbon hybrid as a highly efficient oxidase mimetic for glutathione detection	SENSORS AND ACTUATORS B-CHEMICAL	2018-07-01	柴宏祥	1
5	FeNPs@Co3O4 hollow nanocages hybrids as effective peroxidase mimics for glucose biosensing	SENSORS AND ACTUATORS B-CHEMICAL	2018-06-15	柴宏祥	1
6	High peroxidase-like activity of metallic cobalt nanoparticles encapsulated in metal-organic frameworks derived carbon for biosensing	SENSORS AND ACTUATORS B-CHEMICAL	2018-02-01	柴宏祥	1
7	One-pot synthesis of the CuNCs/ZIF-8 nanocomposites for sensitively detecting H ₂ O ₂ and screening of oxidase activity	BIOSENSORS & BIOELECTRONICS	2018-05-15	柴宏祥	1
8	ZIF-67 derived hollow cobalt sulfide as superior adsorbent for effective adsorption removal of ciprofloxacin antibiotics	CHEMICAL ENGINEERING JOURNAL	2018-07-15	柴宏祥	1
9	Acute and chronic responses of macrophyte and microorganisms in constructed wetlands to cerium dioxide nanoparticles: Implications for wastewater treatment	CHEMICAL ENGINEERING JOURNAL	2018-09-15	陈一, 胡学斌	1
10	New insight into sludge reduction induced by different substrate allocation strategy between oxygen and nitrate/nitrite as terminal electron acceptor	BIORESOURCE TECHNOLOGY	2018-06-01	陈猷鹏, 方芳, 晏鹏	1
11	Response-surface-model-based system sizing for Nearly/Net zero energy buildings under uncertainty	APPLIED ENERGY	2018-10-15	程勇	1

12	Ultrathin two-dimensional BiOBr _x I _{1-x} solid solution with rich oxygen vacancies for enhanced visible-light-driven photoactivity in environmental remediation	Elsevier B.V.	2018-11-15	崔福义	1
13	Dynamic changes of the fouling layer in forward osmosis based membrane processes for municipal wastewater treatment	JOURNAL OF MEMBRANE SCIENCE	2018-03-01	崔福义, 时文歆	1
14	High speed water purification and efficient phosphate rejection by active nanofibrous membrane for microbial contamination and regrowth control	CHEMICAL ENGINEERING JOURNAL	2018-04-01	崔福义, 时文歆	1
15	Magnetic nitrogen-doped nanocarbons for enhanced metal-free catalytic oxidation: Integrated experimental and theoretical investigations for mechanism and application	Chemical Engineering Journal	2018-08-09	崔福义, 时文歆	1
16	Impacts of sludge retention time on the performance of an algal-bacterial bioreactor	CHEMICAL ENGINEERING JOURNAL	2018-07-01	方芳, 郭劲松, 马华	1
17	Mesophilic anaerobic co-digestion of residual sludge with different lignocellulosic wastes in the batch digester	Bioresource technology	2018-07-27	古励, 何强, 石德智	1
18	Influence of titanium dioxide nanoparticles on functionalities of constructed wetlands for wastewater treatment	CHEMICAL ENGINEERING JOURNAL	2018-11-15	何强, 陈一	1
19	A novel methanotrophic co-metabolic system with high soluble methane monooxygenase activity to biodegrade refractory organics in pulping wastewater	Bioresource Technology	2018-02-13	何强, 周健	1
20	Evaluation of porous calcium silicate hydrate derived from carbide slag for removing phosphate from wastewater	CHEMICAL ENGINEERING JOURNAL	2018-12-15	吉芳英, 许晓毅	1
21	Microbial community structures and functions of wastewater treatment systems in plateau and cold regions	BIORESOURCE TECHNOLOGY	2018-02-01	吉芳英, 许晓毅	1
22	Soot formation characteristics of ethylene premixed burner-stabilized stagnation flame with dimethyl ether addition	ENERGY	2018-05-01	亢银虎	1
23	Residential risk factors for childhood pneumonia: A cross-sectional study in eight cities of China	ENVIRONMENT INTERNATIONAL	2018-07-01	李百战	1
24	Interactions between suspended particulate matter and algal cells contributed to the reconstruction of phytoplankton communities in turbulent waters	Water Research	2018-11-05	李宏, 何强, 艾海男	1

25	Long-term high-solids anaerobic digestion of food waste: Effects of ammonia on process performance and microbial community	BIORESOURCE TECHNOLOGY	2018-08-01	李蕾,彭绪亚,石德智	1
26	Prediction and verification of risk loss cost for improved natural gas network layout optimization	ENERGY	2018-04-01	彭世尼	1
27	Anaerobic digestion of food waste: A review focusing on process stability	BIORESOURCE TECHNOLOGY	2018-01-01	彭绪亚,李蕾,王小铭	1
28	Enhanced aerobic granulation by applying the low-intensity direct current electric field via reactive iron anode	WATER RESEARCH	2018-12-05	时文歆,崔福义	1
29	Insights into simultaneous ammonia-selective and anti-fouling mechanism over forward osmosis membrane for resource recovery from domestic wastewater	JOURNAL OF MEMBRANE SCIENCE	2018-11-28	时文歆,崔福义	1
30	Pd and Pt nanoparticles supported on the mesoporous silica molecular sieve SBA-15 with enhanced activity and stability in catalytic bromate reduction	CHEMICAL ENGINEERING JOURNAL	2018-07-15	时文歆,崔福义	1
31	Alkaline-assisted leaching of iron-cyanide complex from contaminated soils	CHEMICAL ENGINEERING JOURNAL	2018-12-11	魏云梅,石德智	1
32	Research on cooling performance of phase change material-filled earth-air heat exchanger	ENERGY CONVERSION AND MANAGEMENT	2018-12-01	肖益民	1
33	Coupling of earth-to-air heat exchangers and buoyancy for energy efficient ventilation of buildings considering dynamic thermal behavior and cooling/heating capacity	ENERGY	2018-03-01	阳东	1
34	Effect of ammonium nitrogen on microalgal growth, biochemical composition and photosynthetic performance in mixotrophic cultivation	Bioresource Technology	2018-11-12	翟俊,李伟	1
35	Effect of nitrogen limitation on biochemical composition and photosynthetic performance for fed-batch mixotrophic cultivation of microalga <i>Spirulina platensis</i>	BIORESOURCE TECHNOLOGY	2018-09-01	翟俊,李伟	1
36	Assessing the performance of a sequencing batch biofilm reactor bioaugmented with <i>P. stutzeri</i> strain XL-2 treating ammonium-rich wastewater	BIORESOURCE TECHNOLOGY	2018-12-30	赵彬,安强,郭劲松	1
37	Bioaugmentation with <i>A. faecalis</i> strain NR for achieving simultaneous nitrogen and organic carbon removal in a biofilm reactor	BIORESOURCE TECHNOLOGY	2018-01-01	赵彬,安强,郭劲松,	1

38	Removal of carbamazepine in water by electro-activated carbon fiber-peroxydisulfate: Comparison, optimization, recycle, and mechanism study	CHEMICAL ENGINEERING JOURNAL	2018-07-01	赵纯,王圃,郑怀礼	1
39	Degradation of p-arsanilic acid and simultaneous in-situ removal of arsenic species with ferrate(VI): Kinetics, intermediate and degradation pathway	CHEMICAL ENGINEERING JOURNAL	2018-10-15	赵志伟	1
40	Visible-light-driven photocatalytic degradation of ciprofloxacin by a ternary Mn ₂ O ₃ /Mn ₃ O ₄ /MnO ₂ valence state heterojunction	CHEMICAL ENGINEERING JOURNAL	2018-07-26	赵志伟	1
41	Low-temperature sintered high-strength CuO doped ceramic hollow fiber membrane: Preparation, characterization and catalytic activity	JOURNAL OF MEMBRANE SCIENCE	2018-10-27	赵志伟,崔福义	1
42	Efficient degradation of p-arsanilic acid with arsenic adsorption by magnetic CuO-Fe ₃ O ₄ nanoparticles under visible light irradiation	CHEMICAL ENGINEERING JOURNAL	2018-02-15	赵志伟,梁志杰,时文歆	1
43	Synthesis of novel modified magnetic chitosan particles and their adsorption performance toward Cr(VI)	BIORESOURCE TECHNOLOGY	2018-11-01	郑怀礼,安强	1
44	The nitrogen removal performance and microbial communities in a two-stage deep sequencing constructed wetland for advanced treatment of secondary effluent	BIORESOURCE TECHNOLOGY	2018-01-01	周健	1
45	Intensified nitrogen and phosphorus removal by embedding electrolysis in an anaerobic-anoxic-oxic reactor treating low carbon/nitrogen wastewater	BIORESOURCE TECHNOLOGY	2018-05-01	周健,何强,	1
46	Effects of green roofs' variations on the regional thermal environment using measurements and simulations in Chongqing, China	URBAN FORESTRY & URBAN GREENING	2018-01-01	白雪莲	2
47	Improving visible-light-driven photocatalytic NO oxidation over BiOBr nanoplates through tunable oxygen vacancies	CHINESE JOURNAL OF CATALYSIS	2018-04-01	曾晓岚	2
48	Recent advances in the construction and analytical applications of metal-organic frameworks-based nanozymes	TRAC-TRENDS IN ANALYTICAL CHEMISTRY	2018-08-01	柴宏祥	2
49	Acute response of soil denitrification and N ₂ O emissions to chlorothalonil: A comprehensive molecular mechanism	Science of the total environment	2018-09-15	陈一,胡学斌	2
50	Cellular analysis and detection using surface plasmon resonance imaging	Trends in Analytical Chemistry	2018-06-01	陈猷鹏,郭劲松,方芳	2
51	Dynamic control of room air temperature for stratum ventilation based on heat removal efficiency: Method and experimental validations	BUILDING AND ENVIRONMENT	2018-08-01	程勇	2

52	Field study on adaptive thermal comfort in typical air conditioned classrooms	BUILDING AND ENVIRONMENT	2018-04-01	程勇	2
53	Heat removal efficiency based multi-node model for both stratum ventilation and displacement ventilation	BUILDING AND ENVIRONMENT	2018-10-01	程勇	2
54	Modeling non-uniform thermal environment of stratum ventilation with supply and exit air conditions	BUILDING AND ENVIRONMENT	2018-10-15	程勇	2
55	Effect of light intensity on the characteristics of algal-bacterial granular sludge and the role of N-acyl-homoserine lactone in the granulation	SCIENCE OF THE TOTAL ENVIRONMENT	2018-12-19	崔福义,时文歆	2
56	Experimental study on mixing and stratification of buoyancy-driven flows produced by continuous buoyant source in narrow inclined tank	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	2018-06-01	杜涛,阳东	2
57	Propagation and entrainment of buoyancy-driven flows in a narrow horizontal space and implications for buoyant contaminant transport under natural ventilation	BUILDING AND ENVIRONMENT	2018-03-01	杜涛,阳东	2
58	Transient evolution and backlayering of buoyancy-driven contaminants in a narrow inclined space	BUILDING AND ENVIRONMENT	2018-09-01	杜涛,阳东	2
59	Electricity generation and microbial community in long-running microbial fuel cell for high-salinity mustard tuber wastewater treatment	Bioelectrochemistry	2018-12-11	付国楷,张智	2
60	Organotins in the aquatic media of secondary anabranches in the Three Gorges Reservoir Region, China	Chemosphere	2018-10-30	高俊敏,郭劲松	2
61	Microalgae in Microwell Arrays Exhibit Differences with Those in Flasks: Evidence from Growth Rate, Cellular Carotenoid, and Oxygen Production	FRONTIERS IN PLANT SCIENCE	2018-01-10	郭劲松	2
62	Dynamic Dispersal of Surface Layer Biofilm Induced by Nanosized TiO ₂ Based on Surface Plasmon Resonance and Waveguide	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2018-05-01	郭劲松,晏鹏,陈猷鹏	2
63	Effect of high salinity in wastewater on surface properties of anammox granular sludge	CHEMOSPHERE	2018-11-01	郭劲松,晏鹏,方芳	2
64	Highly sensitive and selective determination of Hg(II) based on microfluidic chip with on-line fluorescent derivatization	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	2018-11-05	何强,陈一	2
65	Phytoplankton response to polystyrene microplastics: Perspective from an entire growth period	Chemosphere	2018-10-01	何强,李宏,艾海男	2
66	Immobilization of powdery calcium silicate hydrate via PVA covalent cross-linking process for phosphorus removal	SCIENCE OF THE TOTAL ENVIRONMENT	2018-12-15	吉芳英	2

67	Lifetime-ever pneumonia among pre-school children across China - Associations with pre-natal and post-natal early life environmental factors	ENVIRONMENTAL RESEARCH	2018-11-01	李百战	2
68	Influence of human thermal adaptation and its development on human thermal responses to warm environments	BUILDING & ENVIRONMENT	2018-07-01	李百战,程勇,刘红	2
69	Gender differences in physiological and psychological responses to the thermal environment with varying clothing ensembles	Building and Environment	2018-08-15	李百战,刘红	2
70	Quantifying the cooling efficiency of air velocity by heat loss from skin surface in warm and hot environments	BUILDING AND ENVIRONMENT	2018-05-15	李百战,刘红,姚润明	2
71	Exploring the "black box" of thermal adaptation using information entropy	BUILDING AND ENVIRONMENT	2018-12-01	李百战,姚润明	2
72	A modified method of evaluating the impact of air humidity on human acceptable air temperatures in hot-humid environments	ENERGY AND BUILDINGS	2018-01-01	李百战,姚润明,刘红	2
73	Indoor thermal environments in Chinese residential buildings responding to the diversity of climates	APPLIED THERMAL ENGINEERING	2018-01-25	李百战,姚润明,喻伟	2
74	Turn the potential greenhouse gases into biomass in harmful algal blooms waters: A microcosm study	Science of the Total Environment	2018-11-18	李宏,艾海男,何强	2
75	A novel flake-ball-like magnetic Fe ₃ O ₄ /gamma-MnO ₂ meso-porous nano-composite: Adsorption of fluorine and effect of water chemistry	CHEMOSPHERE	2018-06-15	梁志杰,赵志伟,阳春	2
76	A novel flake-ball-like magnetic Fe ₃ O ₄ /gamma-MnO ₂ meso-porous nano-composite: Adsorption of fluorine and effect of water chemistry.	Chemosphere	2018-06-15	梁志杰,赵志伟,阳春	2
77	Mechanisms for center dot O ²⁻ and center dot OH Production on Flowerlike BiVO ₄ Photocatalysis Based on Electron Spin Resonance	FRONTIERS IN CHEMISTRY	2018-03-01	刘国涛,徐璇	2
78	Experimental investigation on thermal comfort model between local thermal sensation and overall thermal sensation	ENERGY AND BUILDINGS	2018-01-01	刘红,李百战	2
79	Exposure to formaldehyde and diisononyl phthalate exacerbate neuroinflammation through NF-kappa B activation in a mouse asthma model	ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY	2018-11-15	刘红,李百战,喻伟	2
80	How green building rating systems affect designing green	BUILDING AND ENVIRONMENT	2018-04-01	刘猛,李百战	2
81	Occurrence and Distribution of Tetracycline Antibiotics and Resistance Genes in Longshore Sediments of the Three Gorges Reservoir, China	FRONTIERS IN MICROBIOLOGY	2018-08-17	刘智萍,郭劲松	2
82	Comparative study of vertical and horizontal indirect evaporative cooling heat recovery exchangers	International Journal of Heat and Mass Transfer	2018-09-01	卢军,李永财	2

83	A fast approach for large-scale Sky View Factor estimation using street view images	Building and Environment	2018-05-01	卢军,李永财,	2
84	Optical properties of straw-derived dissolved organic matter and growth inhibition of <i>Microcystis aeruginosa</i> by straw-derived dissolved organic matter via photo-generated hydrogen peroxide	ENVIRONMENTAL POLLUTION	2018-11-01	马华,石德智	2
85	Investigation the Corrosion Inhibition Effect of Itraconazole on Copper in H ₂ SO ₄ at Different Temperatures: Combining Experimental and Theoretical Studies	MATERIALS	2018-10-26	彭世尼,黄小美	2
86	Anaerobic digestion of food waste: Correlation of kinetic parameters with operational conditions and process performance	BIOCHEMICAL ENGINEERING JOURNAL	2018-02-15	彭绪亚,李蕾,王小铭	2
87	Antimicrobial peptide modification enhances the gene delivery and bactericidal efficiency of gold nanoparticles for accelerating diabetic wound healing	BIOMATERIALS SCIENCE	2018-10-01	石德智	2
88	A novel polyester composite nanofiltration membrane prepared by interfacial polymerization catalysed by 4-dimethylaminopyridine: Enhanced the water permeability and anti-fouling ability	POLYMER	2018-08-01	时文歆,崔福义	2
89	The attachment potential and N-acyl-homoserine lactone-based quorum sensing in aerobic granular sludge and algal-bacterial granular sludge	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2018-06-01	时文歆,崔福义	2
90	Genotoxicity effects of <i>Phanerochaete chrysosporium</i> against harmful algal bloom species by micronucleus test and comet assay	Chemosphere	2018-11-24	王圃	2
91	An integrated predictive model of the long-term performance of ground source heat pump (GSHP) systems	ENERGY AND BUILDINGS	2018-01-15	王勇	2
92	Experimental and numerical investigations on heat transfer in stratified subsurface materials	APPLIED THERMAL ENGINEERING	2018-05-05	王勇	2
93	Fabrication of slag particle three-dimensional electrode system for methylene blue degradation: Characterization, performance and mechanism study	CHEMOSPHERE	2018-12-01	王昭阳,赵纯	2
94	Experimental study of the effectiveness of air curtains of variable width and injection angle to block fire-induced smoke in a tunnel configuration	INTERNATIONAL JOURNAL OF THERMAL SCIENCES	2018-12-01	翁庙成,刘方	2
95	Study on the smoke stratification length under longitudinal ventilation in tunnel fires	INTERNATIONAL JOURNAL OF THERMAL SCIENCES	2018-10-01	翁庙成,刘方	2

96	Effect of high salinity in wastewater on surface properties of anammox granular sludge	Chemosphere	2018-07-11	晏鹏,郭劲松,方芳	2
97	Combining diverse driving forces for smoke control in complex urban traffic link tunnels (UTLTs) using one-dimensional flow modelling	SUSTAINABLE CITIES AND SOCIETY	2018-11-01	阳东,肖益民	2
98	Formation of inorganic nitrogenous byproducts in aqueous solution under ultrasound irradiation	ULTRASONICS SONOCHEMISTRY	2018-04-01	姚娟娟,张智	2
99	A 'heart rate'-based model (PHSHR) for predicting personal heat stress in dynamic working environments	BUILDING AND ENVIRONMENT	2018-05-01	姚润明,李百战	2
100	Dermal exposure to phthalates in home environment: Handwipes, influencing factors and implications	BUILDING AND ENVIRONMENT	2018-04-01	喻伟,李百战,	2
101	Exposure to a combination of formaldehyde and DINP aggravated asthma-like pathology through oxidative stress and NF-kappa B activation	TOXICOLOGY	2018-07-01	喻伟,刘红,李百战	2
102	Degradation mechanisms of carbamazepine by delta-MnO ₂ : Role of protonation of degradation intermediates	SCIENCE OF THE TOTAL ENVIRONMENT	2018-11-01	翟俊,梁嘉良,刘文博	2
103	A method of selecting cold and heat sources for enterprises in an industrial park with combined cooling, heating, and power	JOURNAL OF CLEANER PRODUCTION	2018-07-20	张华玲	2
104	Emergy analysis of Organic Rankine Cycle (ORC) for waste heat power generation	JOURNAL OF CLEANER PRODUCTION	2018-05-10	张华玲	2
105	Role of oxalate in permanganate oxidation of 4-chlorophenol	CHEMOSPHERE	2018-07-01	张静	2
106	Auto-aggregation properties of a novel aerobic denitrifier <i>Enterobacter</i> sp strain FL	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2018-02-01	赵彬,安强,郭劲松	2
107	A novel carboxyl-rich chitosan-based polymer and its application for clay flocculation and cationic dye removal	SCIENCE OF THE TOTAL ENVIRONMENT	2018-11-01	郑怀礼	2
108	Evaluation of a novel dextran-based flocculant on treatment of dye wastewater: Effect of kaolin particles	SCIENCE OF THE TOTAL ENVIRONMENT	2018-11-01	郑怀礼	2
109	In-situ pre-concentration through repeated sampling and pyrolysis for ultrasensitive determination of thallium in drinking water by electrothermal atomic absorption spectrometry	TALANTA	2018-03-01	郑怀礼	2
110	Optimization of resin wafer electrodeionization for brackish water desalination	SEPARATION AND PURIFICATION TECHNOLOGY	2018-04-03	郑怀礼	2
111	Polymer-Functionalized Magnetic Nanoparticles: Synthesis, Characterization, and Methylene Blue Adsorption	MATERIALS	2018-08-01	郑怀礼	2

112	Rapid and efficient removal of heavy metal and cationic dye by carboxylate-rich magnetic chitosan flocculants: Role of ionic groups	CARBOHYDRATE POLYMERS	2018-02-01	郑怀礼	2
113	Ultrasound-initiated synthesis of cationic polyacrylamide for oily wastewater treatment: Enhanced interaction between the flocculant and contaminants	ULTRASONICS SONOCHEMISTRY	2018-04-01	郑怀礼	2
114	Using ultrasonic (US)-initiated template copolymerization for preparation of an enhanced cationic polyacrylamide (CPAM) and its application in sludge dewatering	Ultrasonics-Sonochemistry	2018-06-01	郑怀礼,梁建军	2
115	Robustness and microbial consortia succession of simultaneous partial nitrification, ANAMMOX and denitrification (SNAD) process for mature landfill leachate treatment under low temperature	BIOCHEMICAL ENGINEERING JOURNAL	2018-04-15	周健	2
116	Modeling of methane formation in gravity sewer system: the impact of microorganism and hydraulic condition	AMB EXPRESS	2018-03-01	艾海男,何强,李宏	3
117	Suitable flow pattern increases the removal efficiency of nitrogen in gravity sewers: a suitable anoxic and aerobic environment in biofilms	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-06-01	艾海男,何强,李宏	3
118	The potential adsorption mechanism of the biochars with different modification processes to Cr(VI)	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-11-01	安强	3
119	Annual variation patterns of the effluent water quality from a green roof and the overall impacts of its structure	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-10-01	柴宏祥,邵知宇,何强	3
120	Estimation of oxygen effective diffusion coefficient in a non-steady-state biofilm based on response time	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-04-01	陈猷鹏,郭劲松,晏鹏	3
121	Nitrogen doped hierarchically structured porous carbon fibers with an ultrahigh specific surface area for removal of organic dyes	RSC ADVANCES	2018-05-24	崔福义	3
122	Synchronous, efficient and fast removal of phosphate and organic matter by carbon-coated lanthanum nanorods	RSC ADVANCES	2018-03-27	崔福义	3
123	Driving force for preventing smoke backlayering in downhill tunnel fires using forced longitudinal ventilation	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	2018-09-01	杜涛,阳东	3
124	Occurrence of organotins in the aquatic environment during an operating cycle of the Three Gorges Reservoir, China	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-01-01	高俊敏,陈猷鹏,郭劲松	3
125	Occurrence and health risk assessment of organotins in waterworks and the source water of the Three Gorges Reservoir Region, China	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-05-01	高俊敏,姜文超	3

126	Characterization of potassium hydroxide modified anthracite particles and enhanced removal of 17 alpha-ethinylestradiol and bisphenol A	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-08-01	郭劲松,方芳	3
127	Deposition of engineered nanoparticles (ENPs) on surfaces in aquatic systems: a review of interaction forces, experimental approaches, and influencing factors	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-11-01	何强,皇甫小留	3
128	Factors affecting N-nitrosodimethylamine formation from poly(diallyldimethylammonium chloride) degradation during chloramination	ROYAL SOCIETY OPEN SCIENCE	2018-08-01	蒋绍阶	3
129	Behavioural, physiological and psychological responses of passengers to the thermal environment of boarding a flight in winter	ERGONOMICS	2018-01-01	刘红,李百战,程勇	3
130	Graphene enhanced transformation of lignin in laccase-ABTS system by accelerating electron transfer	Enzyme and Microbial Technology	2018-08-18	马华,李伟	3
131	A combination of experiment and theoretical methods to study the novel and low-cost corrosion inhibitor 1-hydroxy-7-azabenzotriazole for mild steel in 1 M sulfuric acid	RSC ADVANCES	2018-11-15	彭世尼,陈杰	3
132	Conservation and development in conflict: regeneration of wild <i>Davidia involucrata</i> (Nyssaceae) communities weakened by bamboo management in south-central China	ORYX	2018-07-01	钱深华,杨永川,赵亮	3
133	Enhancement of Organic Matter Removal in an Integrated Biofilm-Membrane Bioreactor Treating High-Salinity Wastewater	ARCHAEA-AN INTERNATIONAL MICROBIOLOGICAL JOURNAL	2018-08-29	邵知宇,柴宏祥,何强	3
134	Efficiency of packaging waste management in a European Union candidate country	RESOURCES CONSERVATION AND RECYCLING	2018-09-01	王小铭	3
135	A numerical study on smoke movement in a metro tunnel with a non-axisymmetric cross-section	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	2018-03-01	翁庙成,刘方	3
136	Experimental studies on fire-induced temperature distribution below ceiling in a longitudinal ventilated metro tunnel	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	2018-02-01	翁庙成,刘方	3
137	Experimental study on thermal and smoke control using transverse ventilation in a sloping urban traffic link tunnel fire	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	2018-01-01	翁庙成,刘方	3
138	The inhibition of <i>Microcystis aeruginos</i> by electrochemical oxidation using boron-doped diamond electrode	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018-07-01	向平	3
139	The formation of multi-steady-states of buoyancy ventilation in underground building	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	2018-12-01	肖益民	3

140	Synthesis, properties and mechanism of photodegradation of core-shell structured upconversion luminescent NaYF ₄ :Yb ³⁺ ,Er ³⁺ @BiOCl	APPLIED ORGANOMETALLIC CHEMISTRY	2018-04-01	徐璇	3
141	Buoyant back-layering and the critical condition for preventing back-layering fluid in inclined tunnels under natural ventilation: Brine water experiments	EXPERIMENTAL THERMAL AND FLUID SCIENCE	2018-01-01	阳东,杜涛	3
142	Risk assessment of inhalation exposure to VOCs in dwellings in Chongqing, China	TOXICOLOGY RESEARCH	2018-01-01	喻伟,李百战,王晗	3
143	Comparison of Fenton, ultraviolet-Fenton and ultrasonic-Fenton processes on organics and colour removal from pre-treated natural gas produced water	INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY	2018-11-01	翟俊,陈忠礼	3
144	Activation of sodium percarbonate with ferrous ions for degradation of chlorobenzene in aqueous solution: mechanism, pathway and comparison with hydrogen peroxide	ENVIRONMENTAL CHEMISTRY	2018-03-16	张赛,胡学斌,李莉	3
145	Sodium dodecylsulfate-layered double hydroxide and its use in the adsorption of 17-estradiol in wastewater	RSC ADVANCES	2018-08-01	张智	3
146	Synthesis of different crystallographic FeOOH catalysts for peroxymonosulfate activation towards organic matter degradation	RSC ADVANCES	2018-01-01	赵志伟	3
147	Synthesis of a cationic polyacrylamide by a photocatalytic surface-initiated method and evaluation of its flocculation and dewatering performance: nano-TiO ₂ as a photo initiator	RSC ADVANCES	2018-08-01	郑怀礼	3
148	The investigation of the specific behavior of a cationic block structure and its excellent flocculation performance in high-turbidity water treatment	RSC ADVANCES	2018-01-01	郑怀礼	3
149	Adsorptive removal of anionic dyes by chitosan-based magnetic microspheres with pH-responsive properties	JOURNAL OF MOLECULAR LIQUIDS	2018-04-15	郑怀礼,赵纯	3
150	Poly(2-acrylamido-2-methylpropane sulfonic acid) grafted magnetic chitosan microspheres: Preparation, characterization and dye adsorption	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	2018-06-01	郑怀礼,赵纯,向文英	3
151	Characterization of Dissolved Organic Matter in Mature Leachate during Ammonia Stripping and Two-Stage Aged-Refuse Bioreactor Treatment	JOURNAL OF ENVIRONMENTAL ENGINEERING	2018-01-01	曾晓岚,丁文川,曾晓岚	4
152	Treatment and energy-consumption analysis of high-salt mustard wastewater using combined anaerobic, partial nitrification and ANAMMOX processes	DESALINATION AND WATER TREATMENT	2018-08-01	陈猷鹏,方芳,郭劲松	4

153	Screening of Antibiotic-Resistant Bacteria in Activated Sludge and Study of Their Raman Spectroscopy	SPECTROSCOPY AND SPECTRAL ANALYSIS	2018-09-01	陈猷鹏,郭劲松	4
154	Effect of coagulation and adsorption on DON removal and DBPs formation potential in municipal wastewater effluent	DESALINATION AND WATER TREATMENT	2018-03-01	古励	4
155	Study of Phosphorus Removal by Using Sponge Iron Adsorption	WATER AIR AND SOIL POLLUTION	2018-05-01	古励,何强	4
156	Thermodynamics of the interaction between antibiotics and extracellular polymeric substances within activated sludge	Environmental technology	2018-01-24	郭劲松,陈猷鹏,吉芳英	4
157	Migration and transformation of nitrogen in algae organic matter (AOM) during the growth of <i>Microcystis aeruginosa</i>	DESALINATION AND WATER TREATMENT	2018-04-01	何强,古励	4
158	Preparation and coagulation performance of hybrid coagulant polyacrylamide-polymeric aluminum ferric chloride	JOURNAL OF APPLIED POLYMER SCIENCE	2018-06-15	蒋绍阶	4
159	Removal of nitrate using activated carbon-based electrodes for capacitive deionization	Water Science and Technology: Water Supply	2018-12-01	蒋绍阶	4
160	Effect of nozzle air supply temperature and volume flowrate on the jet flow from a typical ventilation nozzle in aircraft cabins	INDOOR AND BUILT ENVIRONMENT	2018-04-01	李百战,刘红	4
161	Thermal comfort and skin temperature responses to the supplied air from personal air nozzles in aircraft cabins	INDOOR AND BUILT ENVIRONMENT	2018-07-01	刘红,李百战,程勇	4
162	Water quality model with axial dispersion solved by Eulerian-Lagrangian operator-splitting method in water distribution system	WATER SCIENCE AND TECHNOLOGY-WATER SUPPLY	2018-06-01	龙天渝	4
163	A mathematical hypothesis to research the effects of heat and humidity from the TGR on the local climate	Journal of Water and Climate Change	2018-07-04	罗庆	4
164	Experimental and computational investigations of 2-amino-6-bromobenzothiazole as a corrosion inhibitor for copper in sulfuric acid	JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY	2018-05-03	彭世尼,陈杰	4
165	The Inhibition Effect of 1-hydroxy-7-azabenzotriazole on X60 Pipeline Steel Corrosion in 1 M HCl Solution	INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE	2018-07-05	彭世尼,陈杰	4
166	Numerical investigation of driving forces in a geyser event using a dynamic multi-phase Navier-Stokes model	ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS	2018-04-01	邵知宇	4
167	Analysis of the sediment remobilization phenomenon in a rain garden using CSTR theory	JOURNAL OF WATER AND CLIMATE CHANGE	2018-06-01	邵知宇,柴宏祥,何强	4

168	Effect of Source-Classified Collection of Municipal Solid Waste on Heavy Metals and Pozzolanic Properties of Incineration Residues	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH	2018-10-01	石德智,许晓毅,古励	4
169	Analysis of FDS 6 Simulation Results for Planar Air Curtain Related Flows from Straight Rectangular Ducts	FIRE TECHNOLOGY	2018-03-01	翁庙成,刘方	4
170	Assessment of Numerical Simulation Capabilities of the Fire Dynamics Simulator (FDS 6) for Planar Air Curtain Flows	FIRE TECHNOLOGY	2018-05-01	翁庙成,刘方	4
171	Numerical simulation and experimental study of electrocoagulation grid flocculation tank	WATER SCIENCE AND TECHNOLOGY	2018-08-01	向平	4
172	Comparative study on turbulence models simulating inorganic particle removal in a Pista grit chamber	ENVIRONMENTAL TECHNOLOGY	2018-12-17	许晓毅,吉芳英	4
173	Degradation of ofloxacin by UVA-LED/TiO ₂ nanotube arrays photocatalytic fuel cells	CHEMICAL PAPERS	2018-02-01	姚娟娟,张智	4
174	Potential for aerobic NO ₂ (-) reduction and corresponding key enzyme genes involved in Alcaligenes faecalis strain NR	ARCHIVES OF MICROBIOLOGY	2018-01-01	赵彬,安强,赵彬	4
175	An Effective Flocculation Method to the Kaolin Wastewater Treatment by a Cationic Polyacrylamide (CPAM): Preparation, Characterization, and Flocculation Performance	INTERNATIONAL JOURNAL OF POLYMER SCIENCE	2018-06-01	郑怀礼	4
176	Review of the Template Copolymerization of Cationic Polyacrylamide	MINI-REVIEWS IN ORGANIC CHEMISTRY	2018-01-01	郑怀礼	4
177	Optimized synthesis of polyacrylamide (PAM) with UV/H ₂ O ₂ initiating system and evaluation of its application performance	DESALINATION AND WATER TREATMENT	2018-05-01	郑怀礼,赵纯	4
178	Cometabolism degradation of lignin in sequencing batch biofilm reactors	ENVIRONMENTAL ENGINEERING RESEARCH	2018-09-01	周健	4
179	Effect of different hydrolytic enzymes pretreatment for improving the hydrolysis and biodegradability of waste activated sludge	WATER SCIENCE AND TECHNOLOGY	2018-05-01	周健	4

三、 发明专利

序号	专利名称	专利类型	参与专利人	授权日期	专利证书号
1	一种集中空调节能控制系统及其控制策略	发明	丁勇, 李百战, 高亚锋	2018-08-24	3048194

2	基于室内热舒适状态的空调系统启停控制装置及控制方法	发明	丁勇, 李百战, 高亚锋	2018-08-24	3047795
3	一种智能控制的百叶遮阳系统	发明	丁勇, 李百战, 高亚锋	2018-01-05	2767655
4	一种绿色建筑运行效果监测平台	发明	丁勇, 李百战, 洪玲笑(学)	2018-01-05	2767811
5	一种用于液化石油气钢瓶防爆的安全罐	发明	黄小美, 黄细明(学), 尹鑫林(学)	2018-01-16	
6	一种燃气流动监测装置和室内安全保护系统	发明	黄小美, 周阳(学), 张迎旭(外)	2018-05-13	2919714
7	一种能够回收刹车能量的自行车	发明	郑洁, 段依然(学), 逢书帆(学)	2018-07-10	2994801
8	一种自行车及其刹车装置	发明	郑洁, 段依然(学), 逢书帆(学)	2018-06-19	2966643
9	一种初期雨水弃流装置	发明	柴宏祥, 邵知宇, 阳妍(学)	2018-05-25	2935287
10	一种筒式辐射对流换热器及其换热处理方法	发明	陈金华, 吴钟雷(学), 梁秋锦(学)	2018-10-16	3108521
11	一种检测污水脱氮过程中亚硝化速率与亚硝酸盐降解速率的方法	发明	方芳, 李凯(学), 王晗(学)	2018-10-09	3098830
12	一种添加晶种诱导水热稳定垃圾焚烧飞灰中重金属的方法	发明	石德智, 李鹏飞(学), 张超(学)	2018-01-26	
13	一种双向离子迁移微生物燃料电池	发明	汪昆平, 翟俊, 肖海文	2018-07-20	3005530
14	一种垃圾热处理灰渣中含铁矿物质的富集方法	发明	魏云梅, 梅小霞(外), 周英(外)	2018-02-23	2824430
15	一种自然压差驱动的地铁车站节能通风系统	发明	肖益民, 渠永通(学), 郭敏(学)	2018-05-04	
16	自清式微曝气复合人工湿地污水处理系统	发明	翟俊, 胡学斌, 梅龙跃(外)	2018-02-13	2815958
17	纳米复合吸附材料的制备方法、用于处理废水中三羟基三苯甲烷类物质的吸附剂及处理方法	发明	张智, 卢鹏(学), 胡雪利(外)	2018-07-20	3006867
18	一株阴沟肠杆菌及其应用	发明	赵彬, 安强, 郭龙杰(学)	2018-05-15	2925406
19	一种可实现多热源余热回收的换热装置	发明	张华玲, 黄锋(学), 段波(学)	2018-11-06	3136846
20	一种新风除湿机	实用新型	张华玲, 李伊凡(学), 徐浩森(学)	2018-01-12	6842938

21	一种新风机组	实用新型	张华玲, 孙宇翔(学), 徐浩森(学)	2018-09-28	7909121
22	一种低能耗微气泡产生装置	实用新型	安强, 田东伟(学), 江俊南(学)	2018-04-20	
23	一种合流制溢流污水处理集成设施	实用新型	皇甫小留, 徐仰辉(学), 何强	2018-05-22	7377573
24	一种用于中餐炒菜灶的防空烧装置	实用新型	黄小美, 谢依桐(学), 吴文南(学)	2018-01-05	6825056
25	大中型厨房余热回收利用系统	实用新型	卢军, 黄书晨(学), 惠豫川(学)	2018-10-19	7972285
26	一种处理含藻水的电化学反应池	实用新型	向平, 连慧兰(学), 万一会(学)	2018-08-24	7739604

四、 专著

序号	著作名称	作者	出版单位	出版时间
1	重庆市建筑绿色化发展年度报告(2017)	丁勇	科学出版社	2018-03-01
2	时间序列特征驱动的城市供水量预测方法及应用研究	王圃	科学出版社	2018-05-01
3	隧道通风与火灾排烟理论基础及应用	阳东	中国建筑工业出版社	2018-05-06
4	建筑多能互补能源系统技术及应用	卢军	科学出版社	2018-06-01