

重庆大学城市建设与环境工程学院

# 科研简报

(2018 年第 3 期)

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## 一、科研活动

序号	时间	活动名称	备注
1	2018 年 4 月 18 日	张宗益校长来我院调研“双一流”建设和学科发展情况	
2	2018 年 4 月 24 日	我院环境科学与工程、生态学一级学科博士学位授权点合格评估顺利通过	
3	2018 年 5 月 12 日	三峡库区生态环境教育部重点实验室学术会议顺利召开	
4	2018 年 6 月 21 日	我院环境工程专业进入全球工程教育“第一方阵”	

## 二、科研论文

序号	论文名称	奖励作者	期刊名称	期刊年	SCI 分区
1	Spatiotemporal distribution and potential risk assessment of microcystins in the Yulin River, a tributary of the Three Gorges Reservoir, China	艾海男	JOURNAL OF HAZARDOUS MATERIALS	2018	1
2	Soot formation characteristics of ethylene premixed burner-stabilized stagnation flame with dimethyl ether addition	亢银虎	ENERGY	2018	1
3	Coupling of earth-to-air heat exchangers and buoyancy for energy efficient ventilation of buildings considering dynamic thermal behavior and cooling/heating capacity	阳 东	ENERGY	2018	1
4	Intensified nitrogen and phosphorus removal by embedding electrolysis in an anaerobic-anoxic-oxic reactor treating low carbon/nitrogen wastewater	周 健	BIORESOURCE TECHNOLOGY	2018	1
5	A novel methanotrophic co-metabolic system with high soluble methane monooxygenase activity to biodegrade refractory organics in pulping wastewater	周 健	BIORESOURCE TECHNOLOGY	2018	1

6	Characterization of an aerobic denitrifier <i>Pseudomonas stutzeri</i> strain XL-2 to achieve efficient nitrate removal	安 强	BIORESOURCETECHNOLOGY	2018	1
7	The nitrogen removal performance and microbial communities in a two-stage deep sequencing constructed wetland for advanced treatment of secondary effluent	周 健	BIORESOURCETECHNOLOGY	2018	1
8	Bioaugmentation with <i>A. faecalis</i> strain NR for achieving simultaneous nitrogen and organic carbon removal in a biofilm reactor	赵 彬	BIORESOURCETECHNOLOGY	2018	1
9	Impacts of rapid urbanization on the water quality and macroinvertebrate communities of streams: A case study in Liangjiang New Area, China	胡学斌	SCIENCE OF THE TOTAL ENVIRONMENT	2018	2
10	Comparative study of vertical and horizontal indirect evaporative cooling heat recovery exchangers	卢 军	International Journal of Heat and Mass Transfer	2018	2
11	Mechanisms for center dot O-2(-) and center dot OH Production on Flowerlike BiVO <sub>4</sub> Photocatalysis Based on Electron Spin Resonance	刘国涛	FRONTIERS IN CHEMISTRY	2018	2
12	Experimental investigation on thermal comfort model between local thermal sensation and overall thermal sensation	刘 红	ENERGY AND BUILDINGS	2018	2
13	Improving visible-light-driven photocatalytic NO oxidation over BiOBr nanoplates through tunable oxygen vacancies	曾晓岚	CHINESE JOURNAL OF CATALYSIS	2018	2
14	A fast approach for large-scale Sky View Factor estimation using street view images	卢 军	BUILDING AND ENVIRONMENT	2018	2
15	Dermal exposure to phthalates in home environment: Handwipes, influencing factors and implications	喻 伟	BUILDING AND ENVIRONMENT	2018	2
16	Propagation and entrainment of buoyancy-driven flows in a narrow horizontal space and implications for buoyant contaminant transport under natural ventilation	阳 东	BUILDING AND ENVIRONMENT	2018	2
17	Auto-aggregation properties of a novel aerobic denitrifier <i>Enterobacter</i> sp strain FL	赵 彬	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2018	2
18	New insights into the impacts of suspended particulate matter on phytoplankton density in a tributary of the Three Gorges Reservoir	李 宏	Scientific Reports	2018	3
19	Buoyant back-layering and the critical condition for preventing back-layering fluid in inclined tunnels under natural ventilation: Brine water experiments	阳 东	EXPERIMENTAL THERMAL AND FLUID SCIENCE	2018	3

20	Behavioural, physiological and psychological responses of passengers to the thermal environment of boarding a flight in winter	刘 红	ERGONOMICS	2018	3
21	Suitable flow pattern increases the removal efficiency of nitrogen in gravity sewers: a suitable anoxic and aerobic environment in biofilms	李 宏	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018	3
22	Occurrence of organotins in the aquatic environment during an operating cycle of the Three Gorges Reservoir, China	高俊敏	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2018	3
23	Activation of sodium percarbonate with ferrous ions for degradation of chlorobenzene in aqueous solution: mechanism, pathway and comparison with hydrogen peroxide	胡学斌	ENVIRONMENTAL CHEMISTRY	2018	3
24	Synthesis, properties and mechanism of photodegradation of core-shell structured upconversion luminescent NaYF <sub>4</sub> :Yb <sup>3+</sup> ,Er <sup>3+</sup> @BiOCl	徐 璇	APPLIED ORGANOMETALLIC CHEMISTRY	2018	3
25	Modeling of methane formation in gravity sewer system: the impact of microorganism and hydraulic condition	艾海男	AMB EXPRESS	2018	3
26	Characterization of Dissolved Organic Matter in Mature Leachate during Ammonia Stripping and Two-Stage Aged-Refuse Bioreactor Treatment	曾晓岚	JOURNAL OF ENVIRONMENTAL ENGINEERING	2018	4
27	Numerical investigation of driving forces in a geyser event using a dynamic multi-phase Navier-Stokes model	邵知宇	ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS	2018	4
28	Potential for aerobic NO <sub>2</sub> (-) reduction and corresponding key enzyme genes involved in <i>Alcaligenes faecalis</i> strain NR	赵 彬	ARCHIVES OF MICROBIOLOGY	2018	4

### 三、发明专利

序号	专利名称	专利类型	获权时间	专利证书号	奖励发明人
1	一种自然压差驱动的地铁车站节能通风系统	发明	2018	CN106523013B	肖益民
2	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	2018	2793550	石德智
3	一种用于液化石油气钢瓶防爆的安全罐	发明	2018	2780154	黄小美
4	一种低能耗微气泡产生装置	实用新型	2018	CN207259247U	安强

  

序号	专利名称	专利类型	申请时间	专利申请号	发明人
1	一种改性介孔硅材料的制备方法及其在去除甾体雌激素中的应用	发明	2018-05-17	201810475117.3	阳春
2	垃圾焚烧飞灰同步稳定重金属和降解多环芳烃的方法	发明	2018-05-22	201810495561.1	石德智

### 四、专著

(无)