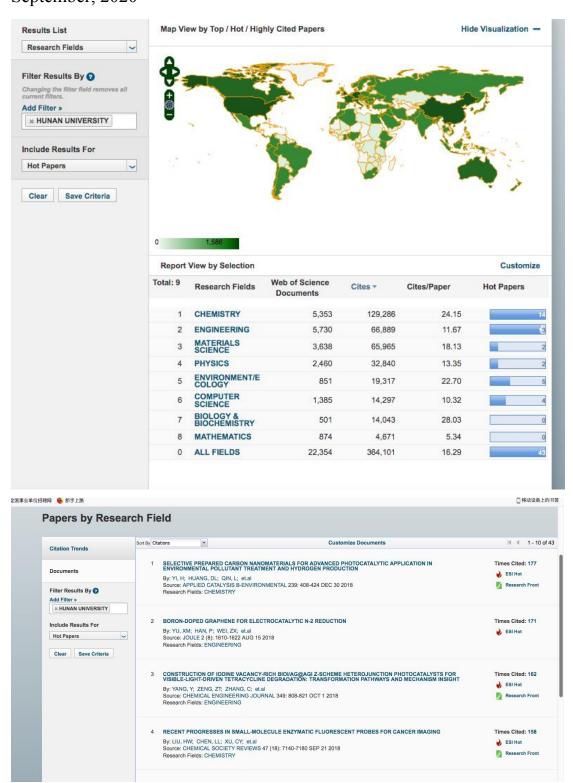
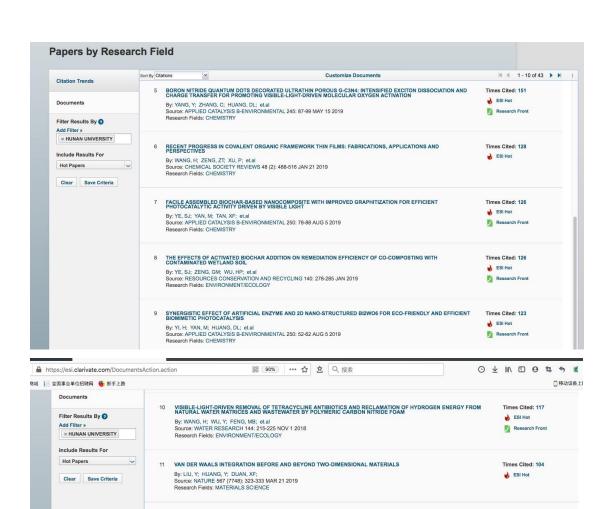
Essential Science Indicators for Hot papers for Hunan University on 11
September, 2020





12 SEMICONDUCTOR/BORON NITRIDE COMPOSITES: SYNTHESIS, PROPERTIES, AND PHOTOCATALYSIS APPLICATIONS

13 A REVIEW OF THE HYDROTHERMAL CARBONIZATION OF BIOMASS WASTE FOR HYDROCHAR FORMATION: PROCESS CONDITIONS, FUNDAMENTALS, AND PHYSICOCHEMICAL PROPERTIES

14 MULTI-WALLED CARBON NANOTUBE/AMINO-FUNCTIONALIZED MIL-53(FE) COMPOSITES: REMARKABLE ADSORPTIVE REMOVAL OF ANTIBIOTICS FROM AQUEOUS SOLUTIONS

By: ZHOU, CY; LAI, C; ZHANG, C; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 238: 6-18 DEC 15 2018 Research Fields: CHEMISTRY

By: WANG, TF; ZHAI, YB; ZHU, Y; et.al Source: RENEWABLE & SUSTAINABLE ENERGY REVIEWS 90: 223-247 JUL 2018 Research Fields: ENGINEERING

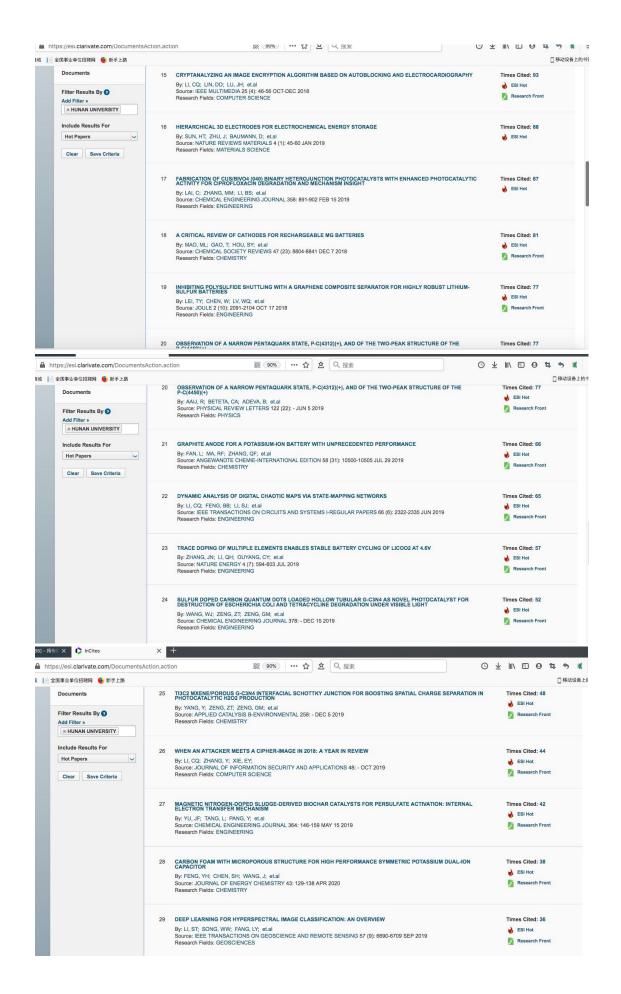
By: XIONG, WP; ZENG, ZT; LI, X; et.al Source: CHEMOSPHERE 210: 1061-1069 NOV 2018 Research Fields: ENVIRONMENT/ECOLOGY Times Cited: 103

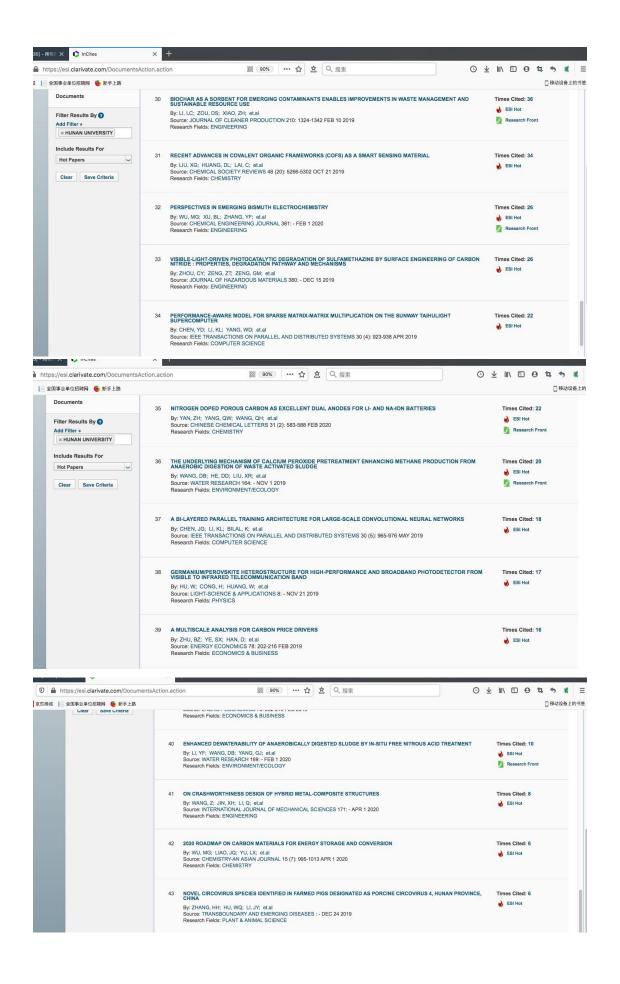
Times Cited: 103

Times Cited: 97

Research Front

ESI Hot





以上 43 篇论文中有 19 篇是环境学院的论文:

- 1) Yang Yang1, Zhuotong Zeng1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Rong Xiao*, Cui Laia, Chengyun Zhou, Hai Guo, Wenjing Xue, Min Cheng, Wenjun Wang, Jiajia Wang.Construction of iodine vacancy-rich BiOI/Ag@AgI Z-scheme heterojunction photocatalysts for visible-light-driven tetracycline degradation: transformation pathways and mechanism insight. Chemical Engineering Journal (SCI 2019 IF=10.652). 2018. 349: 808-821 (ESI Hot Paper and ESI Highly Cited Paper and ESI research Front, ESI Hot Paper 第 6 次上榜,环境学院曾光明教 授与中南大学湘雅附二医院的合作成果)
- 2) Yang Yang1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Jinhui Huang*, Cui Lai, Chengyun Zhou, Wenjun Wang, Hai Guo, Wenjing Xue, Rui Deng, Min Cheng, Weiping Xiong. Boron nitride quantum dots decorated ultrathin porous g-C3N4: Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation. Applied Catalysis B: Environmental (SCI 2019 IF=16.683), 2019, 245, 87-99 (ESI Highly Cited Paper and Hot Paper and ESI Research Front, ESI Hot Paper 第 6 次上榜).
- 3) Yang Yang1, Zhuotong Zeng1, Guangming Zeng*, Danlian Huang*, Rong Xiao*, Chen Zhang, Chengyun Zhou, Weiping Xiong, Wenjun Wang, Min Cheng, Wenjing Xue, Hai Guo, Xiang Tang, Donghui He, Ti3C2 Mxene/porous g-C3N4 interfacial Schottky junction for boosting spatial charge separation in photocatalytic H2O2 production, APPLIED CATALYSIS B-ENVIRONMENTAL, 2019, 258, 117956 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 2 次上榜)
- 4) Shujing Ye1, Min Yan1, Xiaofei Tan1, Jie Liang1, Guangming Zeng*, Haipeng Wu*, Biao Song, Chengyun Zhou, Yang Yang, Han Wang. Facile assembled biochar-based nanocomposite with improved graphitization for efficient photocatalytic activity driven by visible light. Applied Catalysis B: Environmental, 2019, 250, 78-88 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 4 次上榜)
- 5) Shujing Ye, Guangming Zeng*, Haipeng Wu*, Jie Liang, Chang Zhang, Juan Dai, Weiping Xiong, Biao Song, Shaohua Wu, Jiangfang Yu. The effects of activated biochar addition on remediation efficiency of co-composting with contaminated wetland soil.Resources, Conservation & Recycling (SCI 2019 IF=8.086).2019.140:278-285 (ESI Hot Paper and ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 4 次上榜)
- 6) Huan Yi1, Ming Yan1, Danlian Huang1, Guangming Zeng*, Cui Lai*, Minfang Li, Xiuqin Huo, Lei Qin, Shiyu Liu, Xigui Liu, Bisheng Li, Han Wang, Maocai Shen, Yukui Fu, Xueying

- Guo. Synergistic effect of artificial enzyme and 2D nano-structured Bi2WO6 for eco-friendly and efficient biomimetic photocatalysis. Applied Catalysis B: Environmental, 2019, 250, 52-62 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 4 次上榜)
- 7) Huan Yi1, Danlian Huang1, Lei Qin1,Guangming Zeng*, Cui Lai*, Min Cheng, Shujing Ye, Biao Song, Xiaoya Ren, Xueying Guo.Selective Prepared Carbon Nanomaterials for Advanced Photocatalytic Application in Environmental Pollutant Treatment and Hydrogen Production.Applied Catalysis B:Environmental(SCI 2017 IF=11.69). 2018.239:408-424 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)
- 8) Chengyun Zhou1, Zhuotong Zeng1, Guangming Zeng*, Danlian Huang*, Rong Xiao*, Min Cheng, Chen Zhang, Weiping Xiong, Cui Lai, Yang Yang, Wenjun Wang, Huan Yi, Bisheng Li. Visible-light-driven photocatalytic degradation of sulfamethazine by surface engineering of carbon nitride:Properties, degradation pathway and mechanisms. Journal of Hazardous Materials(SCI 2019 IF=9.038), 2019, 380,120815.(ESI Hot Paper, ESI Hot Paper 第 2 次上榜).
- 9) Chengyun Zhou1, Cui Lai1, Chen Zhang1, Guangming Zeng*, Danlian Huang*, Min Cheng, Liang Hu, Weiping Xiong, Ming Chen, Jiajia Wang, Yang Yang, Longbo Jiang. Semiconductor/boron nitride composites: synthesis, properties, and photocatalysis applications . Applied Catalysis B: Environmental(SCI 2019 IF=16.683). 2018.238: 6-18(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 3 次上榜)
- 10) Cui Lai*, Mingming Zhang, Bisheng Li, Danlian Huang*, Guangming Zeng, Lei Qin, Xigui Liu, Huan Yi, Min Cheng, Ling Li, Zhang Chen, Liang Chen. Fabrication of CuS/BiVO4 (040) binary heterojunction photocatalysts with enhanced photocatalytic activity for Ciprofloxacin degradation and mechanism insight. Chemical Engineering Journal (SCI 2019 IF=10.652).2019,358:891-902. (ESI Highly Cited Paper and ESI Hot Paper and Research Front, ESI Hot Paper 第 5 次上榜)
- 11) Han Wang1,Zhuotong Zeng1,Piao Xu1,Lianshan Li1,Guangming Zeng*,Rong Xiao*,Zhiyong Tang*,Danlian Huang,Lin Tang,Cui Lai,Danni Jiang,Yang Liu,Huan Yi,Lei Qin, Shujing Ye, Xiaoya Ren and Wangwang Tang. Recent progress in covalent organic framework thin films: fabrications, applications and perspectives.Chemical Society Reviews (SCI 2017)
- IF=40.182, 中科院 JCR 1 区, TOP 期刊). 2019.48: 488-516 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 4 次上榜)
- 12) Wenjun Wang1, Zhuotong Zeng1, Guangming Zeng*, Chen Zhang*, Rong Xiao*, Chengyun Zhou, Weiping Xiong, Yang Yang, Lei Lei, Yang Liu, Danlian Huang, Min Cheng, YayaYang, Yukui Fu, Hanzhuo Luo, Yin Zhou, Sulfur doped carbon quantum dots loaded hollow tubular g-C3N4 as novel photocatalyst for destruction of Escherichia coli and tetracycline

degradation under visible light, Chemical Engineering Journal, 2019, 378, 122132 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 3 次上榜)

- 13) Tengfei Wang, Yunbo Zhai*, Yun Zhu, Caiting Li, Guangming Zeng. A review of the hydrothermal carbonization of biomass waste for hydrochar formation: Process conditions, fundamentals, and physicochemical properties. Renewable and Sustainable Energy Reviews (SCI 2019 IF=12.110), 2018, 90,223-247.(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜).
- 14) Wang Hou1, Wu Yan1, Feng Mingbao, Tu Wenguang, Xiao Tong, Xiong Ting, Ang Huixiang, Yuan Xingzhong, Chew Jia Wei*. Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. Water Research(SCI 2019 IF=9.130), 2018, 144, 215-225(ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 6 次上榜,王侯助理教授与新加坡南洋理工的合作成果).
- 15) Xiong Weiping1, Zeng Zhuotong1, Li Xin1, Zeng Guangming*, Xiao Rong*, Yang Zhaohui, Xu Haiyin, Chen Hongbo, Cao Jiao, Zhou Chengyun, Qin Lei, Ni-doped MIL-53(Fe) nanoparticles for optimized doxycycline removal by using response surface methodology from aqueous solution, CHEMOSPHERE, 2019, 232, 186-194 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 2 次上榜)
- 16) Jiangfang Yu, Lin Tang*, Ya Pang*, Guangming Zeng, Jiajia Wang, Yaocheng Deng, Yani Liu, Haopeng Feng, Song Chen, Xiaoya Ren. Magnetic nitrogen-doped sludge-derived biochar catalysts for persulfate activation: Internal electron transfer mechanism. Chemical Engineering Journal, 2019, 364, 146-159 (ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 2 次上榜)
- 17) Xigui Liu, Danlian Huang*, Cui Lai*, Guangming Zeng, Lei Qin, Han Wang, Huan Yi, Bisheng Li, Shiyu Liu, Mingming Zhang, Rui Deng, Yukui Fu, Ling Li, Wenjing Xue, Sha Chen. Recent advances in covalent organic frameworks (COFs) as a smart sensing material. Chemical Society Reviews (SCI 2019 IF=42.846), 2019, 48(20), 5266-5302.(ESI Hot Paper, ESI Hot Paper 第 2 次上榜).
- Yifu Li; Dongbo Wang; Guojing Yang; Xingzhong Yuan; Qiuxiang Xu; Qi Yang; Yiwen Liu; Qilin Wang; Bing-Jie Ni; Wangwang Tang; Longbo Jiang. Enhanced dewaterability of anaerobically digested sludge by in-situ free nitrous acid treatment. Water Research,2019, 169:115264. (SCI 2019 IF=9.130) ESI Hot Paper, ESI Hot Paper 第 1 次上榜).

19) Dongbo Wang, Dandan He, Xuran Liu, Qiuxiang Xu, Qi Yang, Xiaoming Li, Yiwen Liu, Qilin Wang, Bing-Jie Ni, Hailong Li, The underlying mechanism of calcium peroxide pretreatment enhancing methane production from anaerobic digestion of waste activated sludge, Water Research, 2019, 164:114934.(SCI 2019 IF=9.130) ESI Hot Paper, ESI Hot Paper 第 1 次上榜).