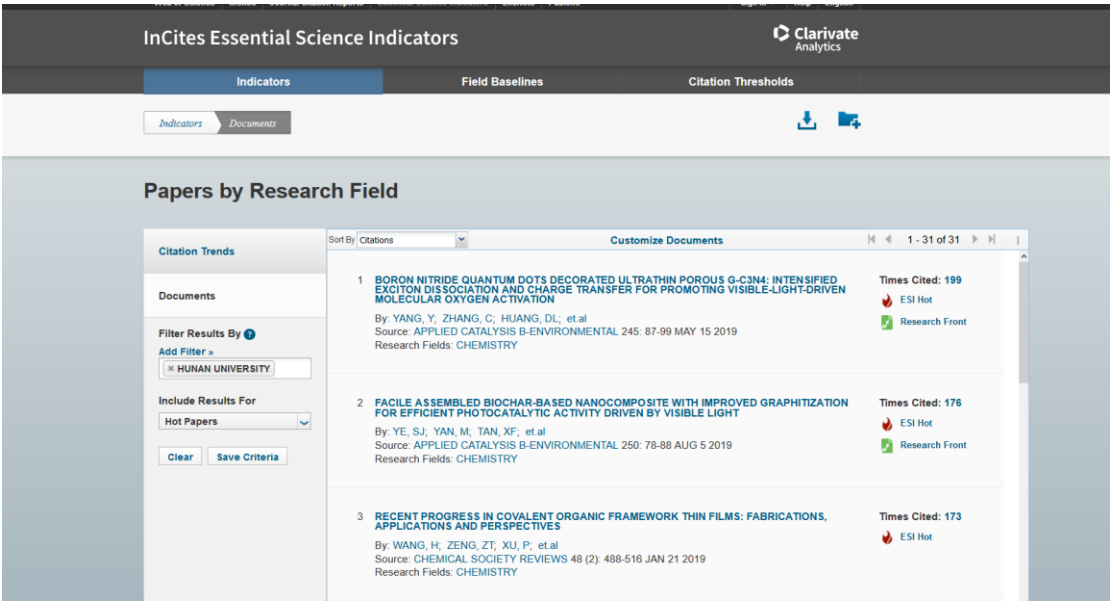


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4	THE EFFECTS OF ACTIVATED BIOCHAR ADDITION ON REMEDIATION EFFICIENCY OF CO-COMPOSTING WITH CONTAMINATED WETLAND SOIL By: YE, SJ, ZENG, GM, WU, HP, et.al Source: RESOURCES CONSERVATION AND RECYCLING 140: 278-285 JAN 2019 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 170 ESI Hot Research Front
5	VAN DER WAALS INTEGRATION BEFORE AND BEYOND TWO-DIMENSIONAL MATERIALS By: LIU, Y, HUANG, Y, DUAN, XF; Source: NATURE 567 (7748): 323-333 MAR 21 2019 Research Fields: MATERIALS SCIENCE	Times Cited: 165 ESI Hot
6	HIERARCHICAL 3D ELECTRODES FOR ELECTROCHEMICAL ENERGY STORAGE By: SUN, HT, ZHU, J, BAUMANN, D, et.al Source: NATURE REVIEWS MATERIALS 4 (1): 45-60 JAN 2019 Research Fields: MATERIALS SCIENCE	Times Cited: 129 ESI Hot
7	FABRICATION OF CUS/BIVO4 (040) BINARY HETEROJUNCTION PHOTOCATALYSTS WITH ENHANCED PHOTOCATALYTIC ACTIVITY FOR CIPROFLOXACIN DEGRADATION AND MECHANISM INSIGHT By: LAI, C, ZHANG, MM, LI, BS, et.al Source: CHEMICAL ENGINEERING JOURNAL 358: 891-902 FEB 15 2019 Research Fields: ENGINEERING	Times Cited: 122 ESI Hot
8	GRAPHITE ANODE FOR A POTASSIUM-ION BATTERY WITH UNPRECEDENTED PERFORMANCE By: FAN, L, MA, RF, ZHANG, QF, et.al Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 58 (31): 10500-10505 JUL 29 2019 Research Fields: CHEMISTRY	Times Cited: 114 ESI Hot Research Front

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9	ONE-STEP SYNTHESIS OF CO-DOPED UiO-66 NANOPARTICLE WITH ENHANCED REMOVAL EFFICIENCY OF TETRACYCLINE: SIMULTANEOUS ADSORPTION AND PHOTOCATALYSIS By: CAO, J, YANG, ZH, XIONG, WP, et.al Source: CHEMICAL ENGINEERING JOURNAL 353: 126-137 DEC 1 2018 Research Fields: ENGINEERING	Times Cited: 108 ESI Hot
10	LARGE-AREA GRAPHENE-NANOMESH/CARBON-NANOTUBE HYBRID MEMBRANES FOR IONIC AND MOLECULAR NANOFILTRATION By: YANG, YB, YANG, XD, LIANG, L, et.al Source: SCIENCE 364 (6445): 1057-+ SP. ISS. SI JUN 14 2019 Research Fields: MATERIALS SCIENCE	Times Cited: 99 ESI Hot
11	DEEP LEARNING FOR HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW By: LI, ST, SONG, WW, FANG, LY, et.al Source: IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING 57 (9): 6690-6709 SEP 2019 Research Fields: GEOSCIENCES	Times Cited: 83 ESI Hot
12	Ti3C2 MXENE/POROUS G-C3N4 INTERFACIAL SCHOTTKY JUNCTION FOR BOOSTING SPATIAL CHARGE SEPARATION IN PHOTOCATALYTIC H2O2 PRODUCTION By: YANG, Y, ZENG, ZT, ZENG, GM, et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 258: - DEC 5 2019 Research Fields: CHEMISTRY	Times Cited: 79 ESI Hot Research Front
13	SULFUR DOPED CARBON QUANTUM DOTS LOADED HOLLOW TUBULAR G-C3N4 AS NOVEL PHOTOCATALYST FOR DESTRUCTION OF ESCHERICHIA COLI AND TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT By: WANG, WJ, ZENG, ZT, ZENG, GM, et.al Source: CHEMICAL ENGINEERING JOURNAL 378: - DEC 15 2019 Research Fields: ENGINEERING	Times Cited: 79 ESI Hot Research Front

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14	TRACE DOPING OF MULTIPLE ELEMENTS ENABLES STABLE BATTERY CYCLING OF LICOO2 AT 4.6V	Times Cited: 78 ESI Hot Research Front
By: ZHANG, JN; LI, OH; OUYANG, CY; et.al Source: NATURE ENERGY 4 (7): 594-603 JUL 2019 Research Fields: ENGINEERING		
15	CARBON FOAM WITH MICROPOROUS STRUCTURE FOR HIGH PERFORMANCE SYMMETRIC POTASSIUM DUAL-ION CAPACITOR	Times Cited: 75 ESI Hot Research Front
By: FENG, YH; CHEN, SH; WANG, J; et.al Source: JOURNAL OF ENERGY CHEMISTRY 43: 129-138 APR 2020 Research Fields: CHEMISTRY		
16	RECENT ADVANCES IN COVALENT ORGANIC FRAMEWORKS (COFs) AS A SMART SENSING MATERIAL	Times Cited: 68 ESI Hot
By: LIU, XG; HUANG, DL; LAI, C; et.al Source: CHEMICAL SOCIETY REVIEWS 48 (20): 5266-5302 OCT 21 2019 Research Fields: CHEMISTRY		
17	2020 ROADMAP ON TWO-DIMENSIONAL MATERIALS FOR ENERGY STORAGE AND CONVERSION	Times Cited: 56 ESI Hot Research Front
By: XU, BL; QI, SH; JIN, MM; et.al Source: CHINESE CHEMICAL LETTERS 30 (12): 2053-2064 DEC 2019 Research Fields: CHEMISTRY		
18	DEGRADATION OF NAPHTHALENE WITH MAGNETIC BIO-CHAR ACTIVATE HYDROGEN PEROXIDE: SYNERGISM OF BIO-CHAR AND FE-MN BINARY OXIDES	Times Cited: 54 ESI Hot Research Front
By: LI, L; LAI, C; HUANG, FL; et.al Source: WATER RESEARCH 160: 238-248 SEP 1 2019 Research Fields: ENVIRONMENT/ECOLOGY		

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19	PEDOT:PSS FOR FLEXIBLE AND STRETCHABLE ELECTRONICS: MODIFICATIONS, STRATEGIES, AND APPLICATIONS	Times Cited: 63 ESI Hot
By: FAN, X; NIE, WY; TSAI, SH; et.al Source: ADVANCED SCIENCE 6 (19): - OCT 2019 Research Fields: PHYSICS		
20	NATURE OF FESE2/N-C ANODE FOR HIGH PERFORMANCE POTASSIUM ION HYBRID CAPACITOR	Times Cited: 37 ESI Hot
By: GE, JM; WANG, B; WANG, J; et.al Source: ADVANCED ENERGY MATERIALS 10 (4): - JAN 2020 Research Fields: MATERIALS SCIENCE		
21	RECENT ADVANCES IN BIOCHAR-BASED CATALYSTS: PROPERTIES, APPLICATIONS AND MECHANISMS FOR POLLUTION REMEDIATION	Times Cited: 32 ESI Hot
By: WANG, RZ; HUANG, DL; LIU, YG; et.al Source: CHEMICAL ENGINEERING JOURNAL 371: 380-403 SEP 1 2019 Research Fields: ENGINEERING		
22	2020 ROADMAP ON CARBON MATERIALS FOR ENERGY STORAGE AND CONVERSION	Times Cited: 30 ESI Hot
By: WU, MG; LIAO, JQ; YU, LX; et.al Source: CHEMISTRY-AN ASIAN JOURNAL 15 (7): 995-1013 APR 1 2020 Research Fields: CHEMISTRY		
23	FUTURE PHYSICS PROGRAMME OF BESIII	Times Cited: 25 ESI Hot
By: ABLIKIM, M; ACHASOV, MN; ADLARSON, P; et.al Source: CHINESE PHYSICS C 44 (4): - APR 2020 Research Fields: PHYSICS		

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24	MEMRISTOR-BASED DESIGN OF SPARSE COMPACT CONVOLUTIONAL NEURAL NETWORK By: WEN, SP; WEI, HQ; YAN, Z; et.al Source: IEEE TRANSACTIONS ON NETWORK SCIENCE AND ENGINEERING 7 (3): 1431-1440 JUL-SEP 2020 Research Fields: ENGINEERING	Times Cited: 23 ESI Hot Research Front
25	COMPARATIVE STUDY ON METAL/CFRP HYBRID STRUCTURES UNDER STATIC AND DYNAMIC LOADING By: ZHU, GH; LIAO, JP; SUN, GY; et.al Source: INTERNATIONAL JOURNAL OF IMPACT ENGINEERING 141: - JUL 2020 Research Fields: ENGINEERING	Times Cited: 20 ESI Hot Research Front
26	DEEP REINFORCEMENT LEARNING FOR RESOURCE PROTECTION AND REAL-TIME DETECTION IN IOT ENVIRONMENT By: LIANG, W; HUANG, WH; LONG, J; et.al Source: IEEE INTERNET OF THINGS JOURNAL 7 (7): 6392-6401 JUL 2020 Research Fields: COMPUTER SCIENCE	Times Cited: 17 ESI Hot Research Front
27	PLUM PUDDING MODEL INSPIRED KVPO4F@3DC AS HIGH-VOLTAGE AND HYPERSTABLE CATHODE FOR POTASSIUM ION BATTERIES By: LIU, ZM; WANG, J; LU, BA; Source: SCIENCE BULLETIN 65 (15): 1242-1251 AUG 15 2020 Research Fields: MATERIALS SCIENCE	Times Cited: 16 ESI Hot
28	MOLECULAR ENGINEERING OF POLYMERIC CARBON NITRIDE FOR HIGHLY EFFICIENT PHOTOCATALYTIC OXYTETRACYCLINE DEGRADATION AND H2O2 PRODUCTION By: YANG, Y; ZENG, GM; HUANG, DL; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 272: - SEP 5 2020 Research Fields: CHEMISTRY	Times Cited: 13 ESI Hot
29	OPERANDO IDENTIFICATION OF THE DYNAMIC BEHAVIOR OF OXYGEN VACANCY-RICH CO3O4 FOR OXYGEN EVOLUTION REACTION By: XIAO, ZH; HUANG, YC; DONG, CL; et.al Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 142 (28): 12087-12095 JUL 15 2020 Research Fields: CHEMISTRY	Times Cited: 8 ESI Hot
30	ADSORPTIVE REMOVAL OF DYE AND ANTIBIOTIC FROM WATER WITH FUNCTIONALIZED ZIRCONIUM-BASED METAL ORGANIC FRAMEWORK AND GRAPHENE OXIDE COMPOSITE NANOMATERIAL UiO-66-(OH)(2)/GO By: SUN, YZ; CHEN, M; LIU, H; et.al Source: APPLIED SURFACE SCIENCE 525: - SEP 30 2020 Research Fields: MATERIALS SCIENCE	Times Cited: 7 ESI Hot
31	RALF1-FERONIA COMPLEX AFFECTS SPLICING DYNAMICS TO MODULATE STRESS RESPONSES AND GROWTH IN PLANTS By: WANG, L; YANG, T; WANG, BQ; et.al Source: SCIENCE ADVANCES 6 (21): - MAY 2020 Research Fields: PLANT & ANIMAL SCIENCE	Times Cited: 7 ESI Hot

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以上 31 篇论文中有 13 篇是环境学院的论文：

- 1) 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 8 次上榜).
- 2) 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* (SCI 2019 IF=16.683), 2019, 250, 78-88 (ESI Hot Paper and

ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 6 次上榜)

- 3) 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 (SCI 2019 IF=10.652), 2019, 378, 122132 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 4 次上榜)
- 4) 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 2019 IF=42.846, 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 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)
- 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 6 次上榜)
- 6) 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 6 次上榜)
- 7) Jiao Cao, Zhao-hui Yang*, Wei-ping Xiong, Yao-yu Zhou, Yan-rong Peng, Xin Li, Cheng-yun Zhou, Rui Xu, Yan-ru Zhang. One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. Chemical Engineering Journal (SCI 2019 IF=10.652) 353 (2018) 126–137 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 6 次上榜)
- 8) 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 (SCI 2019 IF=16.683), 2019, 258, 117956 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 4 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)

- 9) 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 4 次上榜).
- 10) Ling Li, Cui Lai*, Fanglong Huang, Min Cheng*, Guangming Zeng, Danlian Huang, Bisheng Li, Shiyu Liu, MingMing Zhang, Lei Qin, Minfang Li, Jiangfan He, Yujin Zhang, Liang Chen. Degradation of naphthalene with magnetic bio-char activate hydrogen peroxide: Synergism of bio-char and Fe–Mn binary oxides. *Water Research*(SCI 2019 IF=9.130), 2019, 160, 238-248. (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 3 次上榜).
- 11) Rong-Zhong Wang, Dan-Lian Huang*, Yun-Guo Liu*, Chen Zhang, Cui Lai, Xin Wang, Guang-Ming Zeng, Xiao-Min Gong , Abing Duan, Qing Zhang, Piao Xu. Recent advances in biochar-based catalysts: properties, applications and mechanisms for pollution remediation. *Chemical Engineering Journal* (SCI 2019 IF=10.652) 2019, 371:380-403. (ESI Hot Paper, ESI Hot Paper 第 1 次上榜).
- 12) Yang Yang, Guangming Zeng*, Danlian Huang*, Chen Zhang*, Donghui He, Chengyun Zhou, Wenjun Wang, Weiping Xiong, Xiaopei Li, Bisheng Li, Wanyue Dong, Yin Zhou, Molecular engineering of polymeric carbon nitride for highly efficient photocatalytic oxytetracycline degradation and H₂O₂ production, *Applied Catalysis B: Environmental* (SCI 2019 IF=16.683), 2020, 272, 118970 (ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
- 13) Yingzhu Sun, Ming Chen*, Hao Liu, Yi Zhu, Dongbo Wang, Ming Yan, Adsorptive removal of dye and antibiotic from water with functionalized zirconium-based metal organic framework and graphene oxide composite nanomaterial UiO-66-(OH)₂/GO, *Applied Surface Science* (SCI 2019 IF=6.182), 2020, 525,146614 (ESI Hot Paper, ESI Hot Paper 第 1 次上榜).