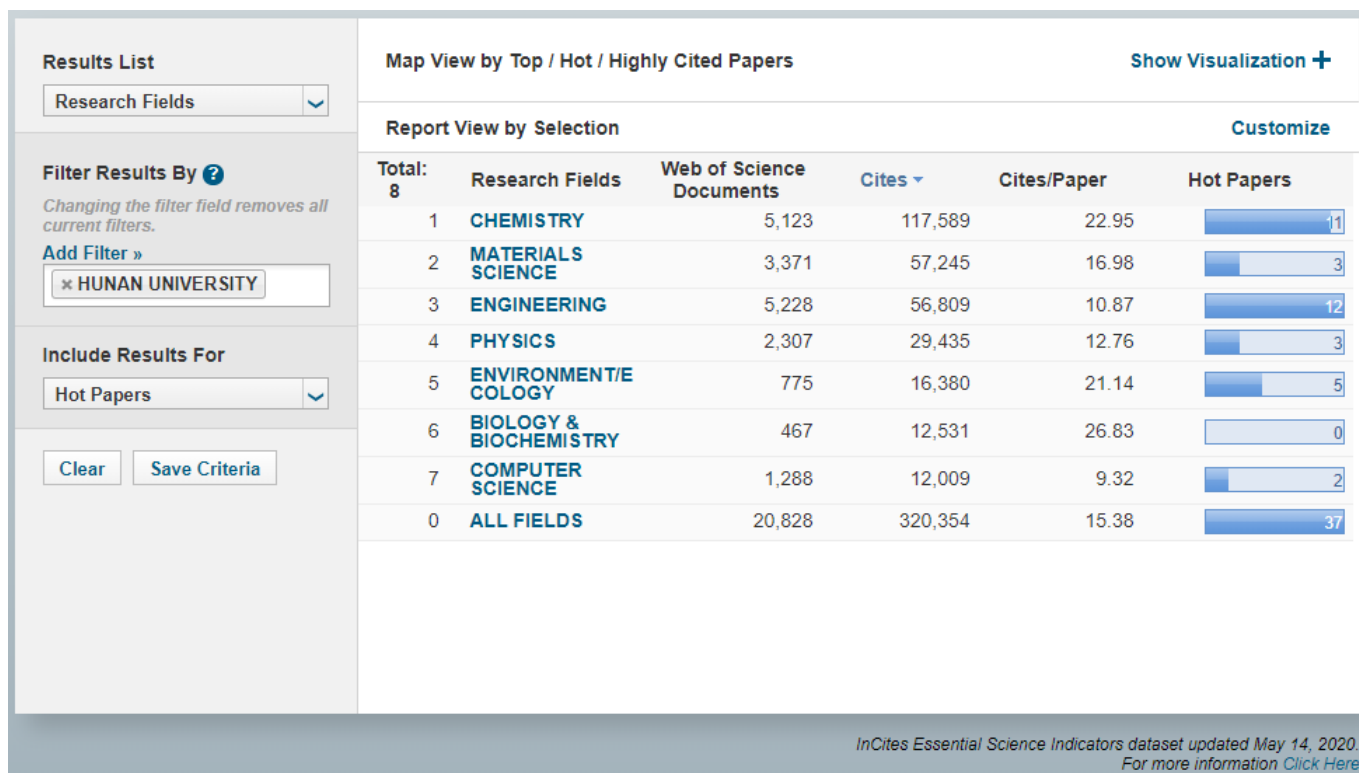


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| | | By: LIU, Y.; GUO, J.; ZHU, EB; et al Source: NATURE 557 (7707): 696-+ MAY 31 2018 Research Fields: MATERIALS SCIENCE | ESI Hot Research Front |
| | 2 | CONSTRUCTION OF IODINE VACANCY-RICH BIO/AG@AGI Z-SCHEME HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE-LIGHT-DRIVEN TETRACYCLINE DEGRADATION: TRANSFORMATION PATHWAYS AND MECHANISM INSIGHT | Times Cited: 132 |
| | | By: YANG, Y.; ZENG, ZT; ZHANG, C; et al Source: CHEMICAL ENGINEERING JOURNAL 349: 808-821 OCT 1 2018 Research Fields: ENGINEERING | ESI Hot Research Front |
| | 3 | BORON-DOPED GRAPHENE FOR ELECTROCATALYTIC N-2 REDUCTION | Times Cited: 121 |
| | | By: YU, XM; HAN, P; WEI, ZX; et al Source: JOULE 2 (8): 1610-1622 AUG 15 2018 Research Fields: ENGINEERING | ESI Hot |
| | 4 | RECENT PROGRESSES IN SMALL-MOLECULE ENZYMIC FLUORESCENT PROBES FOR CANCER IMAGING | Times Cited: 109 |
| | | By: LIU, HW; CHEN, LL; XU, CY; et al Source: CHEMICAL SOCIETY REVIEWS 47 (18): 7140-7180 SEP 21 2018 Research Fields: CHEMISTRY | ESI Hot Research Front |
| | 5 | BORON NITRIDE QUANTUM DOTS DECORATED ULTRATHIN POROUS G-C3N4: INTENSIFIED EXCITON DISSOCIATION AND CHARGE TRANSFER FOR PROMOTING VISIBLE-LIGHT-DRIVEN MOLECULAR OXYGEN ACTIVATION | Times Cited: 99 |
| | | By: YANG, Y.; ZHANG, C; HUANG, DL; et al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 245: 87-99 MAY 15 2019 Research Fields: CHEMISTRY | ESI Hot Research Front |

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| | | By: WANG, H; WU, Y; FENG, MB; et.al Source: WATER RESEARCH 144: 215-225 NOV 1 2018 Research Fields: ENVIRONMENT/ECOLOGY | |
| | 7 | RECENT PROGRESS ON LAYERED DOUBLE HYDROXIDES AND THEIR DERIVATIVES FOR ELECTROCATALYTIC WATER SPLITTING | Times Cited: 92 ESI Hot Research Front |
| | | By: WANG, YY; YAN, DF; EL HANKARI, S; et.al Source: ADVANCED SCIENCE 5 (8): - AUG 2018 Research Fields: PHYSICS | |
| | 8 | SOLUTION-PROCESSABLE 2D SEMICONDUCTORS FOR HIGH-PERFORMANCE LARGE-AREA ELECTRONICS | Times Cited: 89 ESI Hot |
| | | By: LIN, ZY; LIU, Y; HALIM, U; et.al Source: NATURE 562 (7726): 254-+ OCT 11 2018 Research Fields: MATERIALS SCIENCE | |
| | 9 | SYNERGISTIC EFFECT OF ARTIFICIAL ENZYME AND 2D NANO-STRUCTURED BI₂WO₆ FOR ECO-FRIENDLY AND EFFICIENT BIOMIMETIC PHOTOCATALYSIS | Times Cited: 88 ESI Hot Research Front |
| | | By: YI, H; YAN, M; HUANG, DL; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 250: 52-62 AUG 5 2019 Research Fields: CHEMISTRY | |
| | 10 | THE EFFECTS OF ACTIVATED BIOCHAR ADDITION ON REMEDIATION EFFICIENCY OF CO-COMPOSTING WITH CONTAMINATED WETLAND SOIL | Times Cited: 86 ESI Hot Research Front |
| | | By: YE, SJ; ZENG, GM; WU, HP; et.al Source: RESOURCES CONSERVATION AND RECYCLING 140: 278-285 JAN 2019 Research Fields: ENVIRONMENT/ECOLOGY | |
| | 11 | PRECISE NANOMEDICINE FOR INTELLIGENT THERAPY OF CANCER | Times Cited: 84 ESI Hot |
| | | By: CHEN, HB; GU, ZJ; AN, HW; et.al Source: SCIENCE CHINA-CHEMISTRY 61 (12): 1503-1552 DEC 2018 Research Fields: CHEMISTRY | |
| | 12 | RECENT PROGRESS IN COVALENT ORGANIC FRAMEWORK THIN FILMS: FABRICATIONS, APPLICATIONS AND PERSPECTIVES | Times Cited: 75 ESI Hot |
| | | By: WANG, H; ZENG, ZT; XU, P; et.al Source: CHEMICAL SOCIETY REVIEWS 48 (2): 488-516 JAN 21 2019 Research Fields: CHEMISTRY | |
| | 13 | QUASI-POLYMERIC CONSTRUCTION OF STABLE PEROVSKITE-TYPE LAFeO₃/G-C₃N₄ HETEROSTRUCTURED PHOTOCATALYST FOR IMPROVED Z-SCHEME PHOTOCATALYTIC ACTIVITY VIA SOLID P-N HETEROJUNCTION INTERFACIAL EFFECT | Times Cited: 75 ESI Hot Research Front |
| | | By: WU, Y; WANG, H; TU, W; et.al Source: JOURNAL OF HAZARDOUS MATERIALS 347: 412-422 APR 5 2018 Research Fields: ENGINEERING | |
| | 14 | FACILE ASSEMBLED BIOCHAR-BASED NANOCOMPOSITE WITH IMPROVED GRAPHITIZATION FOR EFFICIENT PHOTOCATALYTIC ACTIVITY DRIVEN BY VISIBLE LIGHT | Times Cited: 69 ESI Hot Research Front |
| | | By: YE, SJ; YAN, M; TAN, XF; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 250: 78-88 AUG 5 2019 Research Fields: CHEMISTRY | |
| | 15 | STRESS-DRIVEN LITHIUM DENDRITE GROWTH MECHANISM AND DENDRITE MITIGATION BY ELECTROPLATING ON SOFT SUBSTRATES | Times Cited: 67 ESI Hot |
| | | By: WANG, X; ZENG, W; HONG, L; et.al Source: NATURE ENERGY 3 (3): 227-235 MAR 2018 Research Fields: ENGINEERING | |
| | 16 | IN-SITU DEPOSITION OF GOLD NANOPARTICLES ONTO POLYDOPAMINE-DECORATED G-C₃N₄ FOR HIGHLY EFFICIENT REDUCTION OF NITROAROMATICS IN ENVIRONMENTAL WATER PURIFICATION | Times Cited: 63 ESI Hot Research Front |
| | | By: QIN, L; HUANG, DL; XU, P; et.al Source: JOURNAL OF COLLOID AND INTERFACE SCIENCE 534: 357-369 JAN 15 2019 Research Fields: CHEMISTRY | |
| | 17 | RATIONAL DESIGN OF GRAPHIC CARBON NITRIDE COPOLYMERS BY MOLECULAR DOPING FOR VISIBLE-LIGHT-DRIVEN DEGRADATION OF AQUEOUS SULFAMETHAZINE AND HYDROGEN EVOLUTION | Times Cited: 62 ESI Hot Research Front |
| | | By: ZHOU, CY; XU, P; LAI, C; et.al Source: CHEMICAL ENGINEERING JOURNAL 359: 186-196 MAR 1 2019 Research Fields: ENGINEERING | |

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| | 19 | 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: 58 ESI Hot |
| | 20 | OBSERVATION OF A NARROW PENTAQUARK STATE, P-C(4312)(+), AND OF THE TWO-PEAK STRUCTURE OF THE P-C(4450)(+) By: AAIJ, R; BETETA, CA; ADEVA, B; et.al Source: PHYSICAL REVIEW LETTERS 122 (22): - JUN 5 2019 Research Fields: PHYSICS | Times Cited: 54 ESI Hot Research Front |
| | 21 | 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: 52 ESI Hot |
| | 22 | FEATURE SELECTION IN MACHINE LEARNING: A NEW PERSPECTIVE By: CAI, J; LUO, JW; WANG, SL; et.al Source: NEUROCOMPUTING 300: 70-79 JUL 26 2018 Research Fields: COMPUTER SCIENCE | Times Cited: 45 ESI Hot |
| | 23 | PICTURE FUZZY NORMALIZED PROJECTION-BASED VIKOR METHOD FOR THE RISK EVALUATION OF CONSTRUCTION PROJECT By: WANG, L; ZHANG, HY; WANG, JQ; et.al Source: APPLIED SOFT COMPUTING 64: 216-226 MAR 2018 Research Fields: COMPUTER SCIENCE | Times Cited: 39 ESI Hot |
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| | 25 | FREE NITROUS ACID PROMOTES HYDROGEN PRODUCTION FROM DARK FERMENTATION OF WASTE ACTIVATED SLUDGE By: WANG, YL; ZHAO, JW; WANG, DB; et.al Source: WATER RESEARCH 145: 113-124 NOV 15 2018 Research Fields: ENVIRONMENT/ECOLOGY | Times Cited: 35 ESI Hot Research Front |
| | 26 | 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: 32 ESI Hot |
| | 27 | CHITOSAN FUNCTIONALIZED ACTIVATED COKE FOR AU NANOPARTICLES ANCHORING: GREEN SYNTHESIS AND CATALYTIC ACTIVITIES IN HYDROGENATION OF NITROPHENOLS AND AZO DYES By: FU, YK; QIN, L; HUANG, DL; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 255: - OCT 15 2019 Research Fields: CHEMISTRY | Times Cited: 27 ESI Hot Research Front |
| | 28 | MAGNETIC NITROGEN-DOPED SLUDGE-DERIVED BIOCHAR CATALYSTS FOR PERSULFATE ACTIVATION: INTERNAL ELECTRON TRANSFER MECHANISM By: YU, JF; TANG, L; PANG, Y; et.al Source: CHEMICAL ENGINEERING JOURNAL 364: 146-159 MAY 15 2019 Research Fields: ENGINEERING | Times Cited: 22 ESI Hot Research Front |
| | 29 | TRACE DOPING OF MULTIPLE ELEMENTS ENABLES STABLE BATTERY CYCLING OF LICOO2 AT 4.6V By: ZHANG, JN; LI, QH; OUYANG, CY; et.al Source: NATURE ENERGY 4 (7): 594-603 JUL 2019 Research Fields: ENGINEERING | Times Cited: 22 ESI Hot Research Front |

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| | 31 | GRAPHENE AND GRAPHENE-BASED NANOCOMPOSITES USED FOR ANTIBIOTICS REMOVAL IN WATER TREATMENT: A REVIEW By: LI, MF; LIU, YG; ZENG, GM; et.al Source: CHEMOSPHERE 226: 360-380 JUL 2019 Research Fields: ENVIRONMENT/ECOLOGY | Times Cited: 17 ESI Hot |
| | 32 | COOPERATIVE CATALYTIC PERFORMANCE OF BIMETALLIC NI-AU NANOCATALYST FOR HIGHLY EFFICIENT HYDROGENATION OF NITROAROMATICS AND CORRESPONDING MECHANISM INSIGHT By: QIN, L; ZENG, ZT; ZENG, GM; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 259: - DEC 15 2019 Research Fields: CHEMISTRY | Times Cited: 16 ESI Hot Research Front |
| | 33 | NI-DOPED MIL-53(Fe) NANOPARTICLES FOR OPTIMIZED DOXYCYCLINE REMOVAL BY USING RESPONSE SURFACE METHODOLOGY FROM AQUEOUS SOLUTION By: XIONG, WP; ZENG, ZT; LI, X; et.al Source: CHEMOSPHERE 232: 186-194 OCT 2019 Research Fields: ENVIRONMENT/ECOLOGY | Times Cited: 14 ESI Hot Research Front |
| | 34 | EFFECTS ANALYSIS ON OPTIMAL MICROWAVE ENERGY CONSUMPTION IN THE HEATING PROCESS OF COMPOSITE REGENERATION FOR THE DIESEL PARTICULATE FILTER By: E, JQ; ZHAO, XH; LIU, GL; et.al Source: APPLIED ENERGY 254: - NOV 15 2019 Research Fields: ENGINEERING | Times Cited: 13 ESI Hot Research Front |
| | 35 | PRECISE BOUNDS FOR THE WEIGHTED HOLDER MEAN OF THE COMPLETE P-ELLIPTIC INTEGRALS By: WANG, MK; CHU, HH; CHU, YM; Source: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS 480 (2): - DEC 15 2019 Research Fields: MATHEMATICS | Times Cited: 13 ESI Hot Research Front |
| | 36 | PERSPECTIVES IN EMERGING BISMUTH ELECTROCHEMISTRY By: WU, MG; XU, BL; ZHANG, YF; et.al Source: CHEMICAL ENGINEERING JOURNAL 381: - FEB 1 2020 Research Fields: ENGINEERING | Times Cited: 9 ESI Hot Research Front |
| | 37 | 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 | Times Cited: 8 ESI Hot |

以上 37 篇论文中有 18 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 2016 IF=6.216). 2018. 349: 808-821 (ESI Hot Paper and ESI Highly Cited Paper and ESI research Front, ESI Hot Paper 第 5 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 2017 IF=11.698). 2019. 245: 87-99 (ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 4 次上榜)

3) Yang Yang, Zhuotong Zeng, 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 1 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

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6) Qin Lei, Zeng Zhuotong, Zeng Guangming, Lai Cui, Duan Abing, Xiao Rong, Huang Danlian, Fu, Yukui, Yi Huan, Li Bisheng, Liu Xigui, Liu, Shiyu, Zhang Mingming, Jiang Danni, Cooperative catalytic performance of bimetallic Ni-Au nanocatalyst for highly efficient hydrogenation of nitroaromatics and corresponding mechanism insight, *APPLIED CATALYSIS B-ENVIRONMENTAL*, 2019, 259, 118035 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)

7) Lei Qin 1, Danlian Huang 1, Piao Xu 1, Guangming Zeng*, Cui Lai*, Yukui Fu, Huan Yi, Bisheng Li, Chen Zhang, Min Cheng, Chengyun Zhou, Xiaofeng Wen. In-situ deposition of gold nanoparticles onto polydopamine-decorated g-C₃N₄ for highly efficient reduction of nitroaromatics in environmental water purification. *Journal of Colloid and Interface Science* (SCI 2017 IF=5.091).2019. 534: 357–369 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)

8) 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 3 次上榜)

9) Chengyun Zhou1, Piao Xu1, Cui Lai1, Chen Zhang1, Guangming Zeng*, Danlian Huang*, Min Cheng, Liang Hu, Weiping Xiong, Xiaofeng Wen, Lei Qin, Jili Yuan, Wenjun Wang. Rational Design of Graphitic Carbon Nitride Copolymers by Molecular Doping for Visible-Light-Driven Degradation of Aqueous Sulfamethazine and Hydrogen Evolution. *Chemical Engineering Journal* (SCI 2017 IF=6.735).2019.359:186-196 (ESI Highly Cited Paper and Hot Paper and Research Front, 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 2017 IF=6.735).2019,358:891-902. (ESI Highly Cited Paper and ESI Hot Paper and Research Front, ESI Hot Paper 第 3 次上榜)

11) Mei-fang Li, Yun-guo Liu, Guang-ming Zeng, Ni Liu, Shao-bo Liu. Graphene and graphene-based nanocomposites used for antibiotics removal in water treatment: A review. *Chemosphere* (SCI 2017 IF=4.427). 2019, 226: 360-380 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 2 次上榜)

12) 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 2 次上榜)

13) Wenjun Wang, Zhuotong Zeng, Guangming Zeng, Chen Zhang, Rong Xiao, Chengyun Zhou, Weiping Xiong, Yang Yang, Lei Lei, Yang Liu, Danlian Huang, Min Cheng, Yaya Yang, 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 1 次上榜)

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15) Xiong Weiping, Zeng Zhuotong, Li Xin, 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 1 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 1 次上榜)

17) 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 2017 IF=6.735) 353 (2018) 126–137 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)

18) Yali Wang, Jianwei Zhao, Dongbo Wang, Yiwen Liu, Qilin Wang, Bing-Jie Ni, Fei Chen, Qi Yang, Xiaoming Li, Guangming Zeng, Zhiguo Yuan. Free Nitrous Acid Promotes Hydrogen Production from Dark Fermentation of Waste Activated Sludge. Water Research. 2018, 145, 113-124 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)