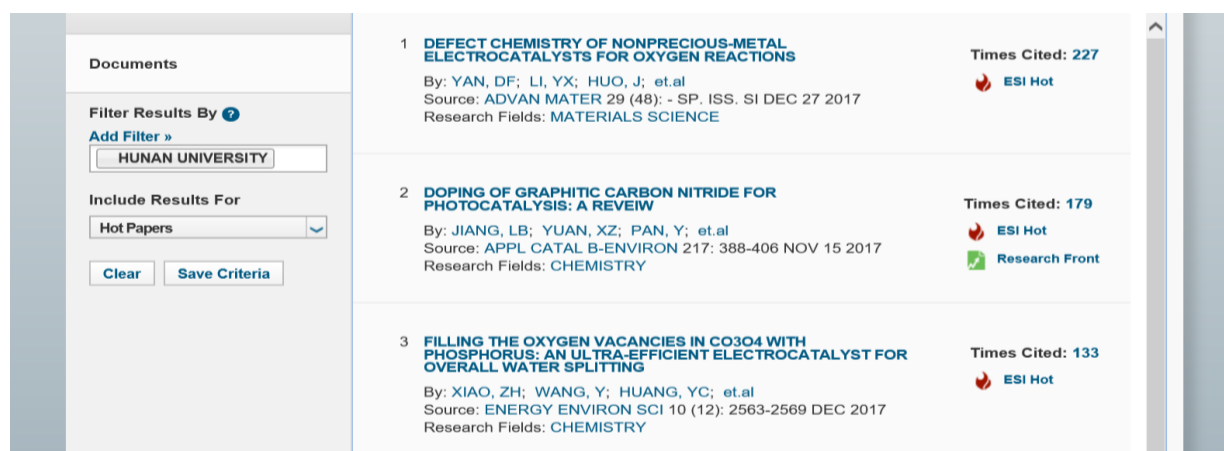
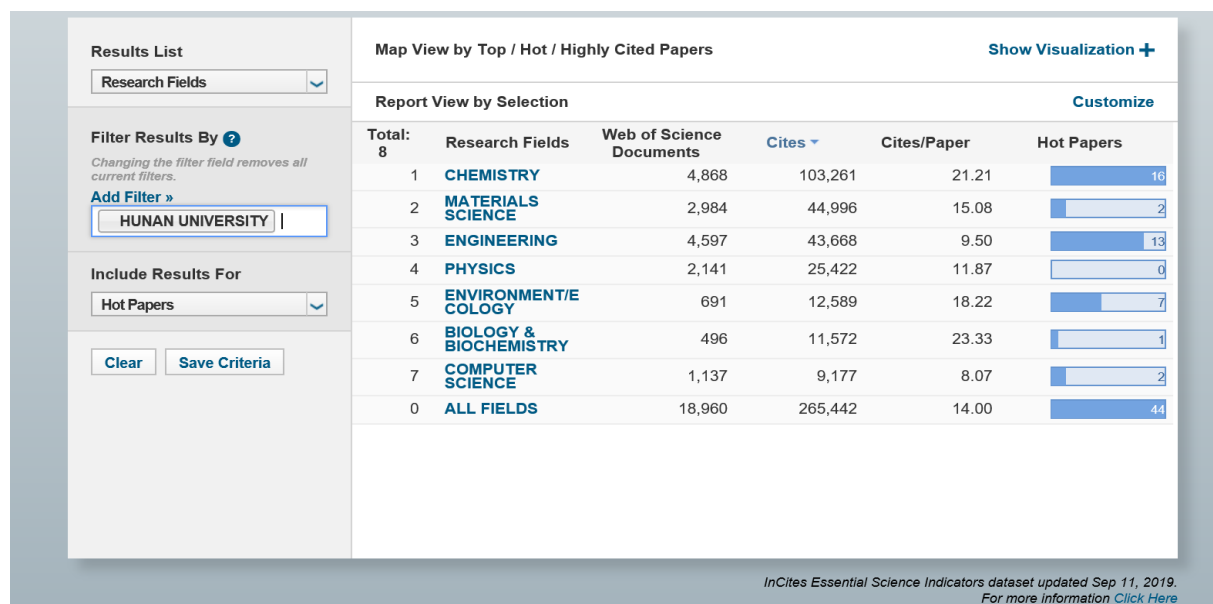


Essential Science Indicators for Hot papers for Hunan Univ on 11 Sep 2019 from 09 May 2019

1. Essential Science Indicators for Hot papers for Hunan Univ on 11 Sep 2019



Clear Save Criteria	7 SELECTIVE PREPARED CARBON NANOMATERIALS FOR ADVANCED PHOTOCATALYTIC APPLICATION IN ENVIRONMENTAL POLLUTANT TREATMENT AND HYDROGEN PRODUCTION By: YI, H; HUANG, DL; QIN, L; et.al Source: APPL CATAL B-ENVIRON 239: 408-424 DEC 30 2018 Research Fields: CHEMISTRY Times Cited: 65 ESI Hot Research Front
	8 FARADAIC REACTIONS IN CAPACITIVE DEIONIZATION (CDI) - PROBLEMS AND POSSIBILITIES: A REVIEW By: ZHANG, CY; HE, D; MA, JX; et.al Source: WATER RES 128: 314-330 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY Times Cited: 64 ESI Hot Research Front
	9 ADSORPTION OF TETRACYCLINE ANTIBIOTICS FROM AQUEOUS SOLUTIONS ON NANOCOMPOSITE MULTI-WALLED CARBON NANOTUBE FUNCTIONALIZED MIL-53 (FE) AS NEW ADSORBENT By: XIONG, WP; ZENG, GM; YANG, ZH; et.al Source: SCI TOTAL ENVIR 627: 235-244 JUN 15 2018 Research Fields: ENVIRONMENT/ECOLOGY Times Cited: 61 ESI Hot Research Front

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	11 FACILE HYDROTHERMAL SYNTHESIS OF Z-SCHEME Bi2Fe4O9/Bi2WO6 HETEROJUNCTION PHOTOCATALYST WITH ENHANCED VISIBLE LIGHT PHOTOCATALYTIC ACTIVITY By: LI, BS; LAI, C; ZENG, GM; et.al Source: ACS APPL MATER INTERFACES 10 (22): 18824-18836 JUN 6 2018 Research Fields: MATERIALS SCIENCE Times Cited: 51 ESI Hot Research Front
	12 CONSTRUCTION OF IODINE VACANCY-RICH BIOI/AG@AGI Z-SCHEME HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE-LIGHT-DRIVEN TETRACYCLINE DEGRADATION: TRANSFORMATION PATHWAYS AND MECHANISM INSIGHT By: YANG, Y; ZENG, ZT; ZHANG, C; et.al Source: CHEM ENG J 349: 808-821 OCT 1 2018 Research Fields: ENGINEERING Times Cited: 49 ESI Hot Research Front

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	14 EFFECT OF EXOGENOUS CARBONACEOUS MATERIALS ON THE BIOAVAILABILITY OF ORGANIC POLLUTANTS AND THEIR ECOLOGICAL RISKS By: REN, XY; ZENG, GM; TANG, L; et.al Source: SOIL BIOL BIOCHEM 116: 70-81 JAN 2018 Research Fields: AGRICULTURAL SCIENCES Times Cited: 46 ESI Hot Research Front
	15 RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES By: HE, L; LI, J; LIU, CY; et.al Source: IEEE TRANS GEOSCI REMOT SEN 56 (3): 1579-1597 MAR 2018 Research Fields: GEOSCIENCES Times Cited: 41 ESI Hot

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16
ENSEMBLE OF DIFFERENTIAL EVOLUTION VARIANTS

By: WU, GH; SHEN, X; LI, HF; et.al
Source: INFORM SCIENCES 423: 172-186 JAN 2018
Research Fields: COMPUTER SCIENCE

Times Cited: 37
 ESI Hot
 Research Front

17
INSIGHTS INTO ATRAZINE DEGRADATION BY PERSULFATE ACTIVATION USING COMPOSITE OF NANOSCALE ZERO-VALENT IRON AND GRAPHENE: PERFORMANCES AND MECHANISMS

By: WU, SH; HE, HJ; LI, X; et.al
Source: CHEM ENG J 341: 126-136 JUN 1 2018
Research Fields: ENGINEERING

Times Cited: 33
 ESI Hot
 Research Front

18
WASTE-MINIMIZED PROTOCOL FOR THE SYNTHESIS OF SULFONYLATED N-HETEROAROMATICS IN WATER

By: XIE, LY; PENG, S; TAN, JX; et.al
Source: ACS SUSTAIN CHEM ENG 6 (12): 16976-+ DEC 2018
Research Fields: CHEMISTRY

Times Cited: 32
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19
METAL-FREE DEOXYGENATIVE 2-AMIDATION OF QUINOLINE N-OXIDES WITH NITRILES VIA A RADICAL ACTIVATION PATHWAY

By: XIE, LY; PENG, S; LIU, F; et.al
Source: ADV SYNTH CATAL 360 (21): 4259-4264 NOV 5 2018
Research Fields: CHEMISTRY

Times Cited: 32
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20
VISIBLE-LIGHT-DRIVEN REMOVAL OF TETRACYCLINE ANTIBIOTICS AND RECLAMATION OF HYDROGEN ENERGY FROM NATURAL WATER MATRICES AND WASTEWATER BY POLYMERIC CARBON NITRIDE FOAM

By: WANG, H; WU, Y; FENG, MB; et.al
Source: WATER RES 144: 215-225 NOV 1 2018
Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 32
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21
MULTI-WALLED CARBON NANOTUBE/AMINO-FUNCTIONALIZED MIL-53(Fe) COMPOSITES: REMARKABLE ADSORPTIVE REMOVAL OF ANTIBIOTICS FROM AQUEOUS SOLUTIONS

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

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RECENT PROGRESSES IN SMALL-MOLECULE ENZYMATIC FLUORESCENT PROBES FOR CANCER IMAGING

By: LIU, HW; CHEN, LL; XU, CY; et.al
Source: CHEM SOC REV 47 (18): 7140-7180 SEP 21 2018
Research Fields: CHEMISTRY

Times Cited: 31
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23
CRYPTANALYZING AN IMAGE ENCRYPTION ALGORITHM BASED ON AUTOBLOCKING AND ELECTROCARDIOGRAPHY

By: LI, CQ; LIN, DD; LU, JH; et.al
Source: IEEE MULTIMEDIA 25 (4): 46-56 OCT-DEC 2018
Research Fields: COMPUTER SCIENCE

Times Cited: 28
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24
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: CHEM ENG J 353: 126-137 DEC 1 2018
Research Fields: ENGINEERING

Times Cited: 25
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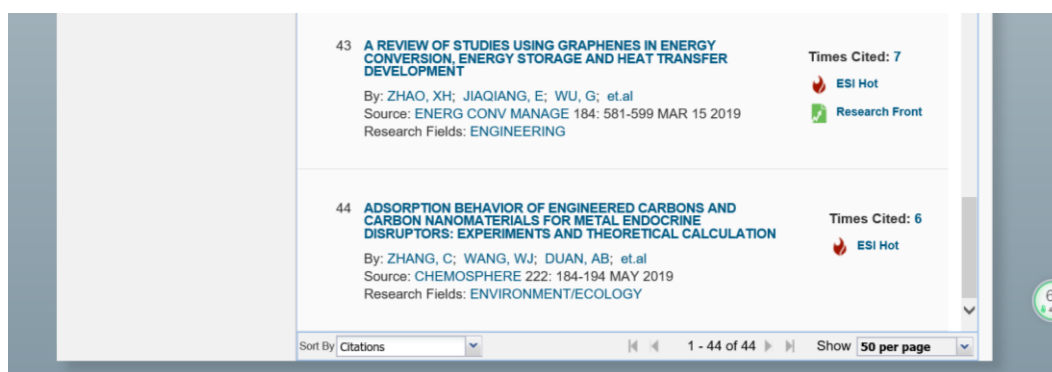
Add Filter » HUNAN UNIVERSITY Include Results For Hot Papers Clear Save Criteria	28 ELECTROSPUN COSE@N-DOPED CARBON NANOFIBERS WITH HIGHLY CAPACITIVE LI STORAGE By: LIU, JD; LIANG, JJ; WANG, CY; et.al Source: J ENERGY CHEM 33: 160-166 JUN 2019 Research Fields: CHEMISTRY Times Cited: 20 ESI Hot Research Front 29 PRECISE NANOMEDICINE FOR INTELLIGENT THERAPY OF CANCER By: CHEN, HB; GU, ZJ; AN, HW; et.al Source: SCI CHINA-CHEM 61 (12): 1503-1552 DEC 2018 Research Fields: CHEMISTRY Times Cited: 19 ESI Hot 30 MOLYBDENUM AND TUNGSTEN CHALCOGENIDES FOR LITHIUM/SODIUM-ION BATTERIES: BEYOND MOS₂ By: HUANG, JD; WEI, ZX; LIAO, JQ; et.al Source: J ENERGY CHEM 33: 100-124 JUN 2019 Research Fields: CHEMISTRY Times Cited: 18 ESI Hot Research Front
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Include Results For Hot Papers Clear Save Criteria	31 ENGINEERING MOS₂ NANOMESH WITH HOLES AND LATTICE DEFECTS FOR HIGHLY ACTIVE HYDROGEN EVOLUTION REACTION By: LI, Y; YIN, K; WANG, LL; et.al Source: APPL CATAL B-ENVIRON 239: 537-544 DEC 30 2018 Research Fields: CHEMISTRY Times Cited: 17 ESI Hot 32 A CELLULAR METASTRUCTURE INCORPORATING COUPLED NEGATIVE THERMAL EXPANSION AND NEGATIVE POISSONS RATIO By: WEI, K; PENG, Y; QU, ZL; et.al Source: INT J SOLIDS STRUCT 150: 255-267 OCT 1 2018 Research Fields: ENGINEERING Times Cited: 16 ESI Hot Research Front 33 PERFORMANCES AND MECHANISMS OF EFFICIENT DEGRADATION OF ATRAZINE USING PEROXYMONOSULFATE AND FERRATE AS OXIDANTS By: WU, SH; LI, HR; LI, X; et.al Source: CHEM ENG J 353: 533-541 DEC 1 2018 Research Fields: ENGINEERING Times Cited: 15 ESI Hot
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	35 CALCIUM PEROXIDE PROMOTES HYDROGEN PRODUCTION FROM DARK FERMENTATION OF WASTE ACTIVATED SLUDGE By: WANG, DB; ZHANG, D; XU, QX; et.al Source: CHEM ENG J 355: 22-32 JAN 1 2019 Research Fields: ENGINEERING	Times Cited: 11 ESI Hot Research Front
	36 MECHANISMS OF PEROXYMONOSULFATE PRETREATMENT ENHANCING PRODUCTION OF SHORT-CHAIN FATTY ACIDS FROM WASTE ACTIVATED SLUDGE By: YANG, JN; LIU, XR; WANG, DB; et.al Source: WATER RES 148: 239-249 JAN 1 2019 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 11 ESI Hot Research Front

Hot Papers Clear Save Criteria	37 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: CHEM ENG J 358: 891-902 FEB 15 2019 Research Fields: ENGINEERING	Times Cited: 10 ESI Hot Research Front
	38 RATIONAL DESIGN OF GRAPHIC CARBON NITRIDE COPOLYMERS BY MOLECULAR DOPING FOR VISIBLE-LIGHT-DRIVEN DEGRADATION OF AQUEOUS SULFAMETHAZINE AND HYDROGEN EVOLUTION By: ZHOU, CY; XU, P; LAI, C; et.al Source: CHEM ENG J 359: 186-196 MAR 1 2019 Research Fields: ENGINEERING	Times Cited: 10 ESI Hot Research Front
	39 PERFORMANCE ENHANCEMENT OF MICROWAVE ASSISTED REGENERATION IN A WALL-FLOW DIESEL PARTICULATE FILTER BASED ON FIELD SYNERGY THEORY By: JIAQIANG, E; ZHAO, XH; XIE, LF; et.al Source: ENERGY 169: 719-729 FEB 15 2019 Research Fields: ENGINEERING	Times Cited: 10 ESI Hot Research Front

	40 THE EFFICACY OF NANOEMULSION-BASED DELIVERY TO IMPROVE VITAMIN D ABSORPTION: COMPARISON OF IN VITRO AND IN VIVO STUDIES By: KADAPPAN, AS; GUO, C; GUMUS, CE; et.al Source: MOL NUTR FOOD RES 62 (4): - FEB 2018 Research Fields: AGRICULTURAL SCIENCES	Times Cited: 10 ESI Hot
	41 PREPARATION OF SIZE-CONTROLLED SILVER PHOSPHATE CATALYSTS AND THEIR ENHANCED PHOTOCATALYSIS PERFORMANCE VIA SYNERGETIC EFFECT WITH MWCNTS AND PANI By: LIN, Y; WU, SH; YANG, CP; et.al Source: APPL CATAL B-ENVIRON 245: 71-86 MAY 15 2019 Research Fields: CHEMISTRY	Times Cited: 8 ESI Hot Research Front
	42 A SIMPLE CORROSION FATIGUE DESIGN METHOD FOR BRIDGES CONSIDERING THE COUPLED CORROSION-OVERLOADING EFFECT By: DENG, L; YAN, WC; NIE, L; Source: ENG STRUCT 178: 309-317 JAN 1 2019 Research Fields: ENGINEERING	Times Cited: 8 ESI Hot



以上 44 篇 Hot Paper 中 有 22 篇是环境学院的论文:

- 1) Longbo Jiang, Xingzhong Yuan*, Yang Pan, Jie Liang, Guangming Zeng, Zhibin Wu, Hou Wang,*. Doping of graphitic carbon nitride for photocatalysis: A review. Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2017. 217: 388–406(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 7 次上榜)
- 2) Biao Song, Guangming Zeng*, Jilai Gong*, Jie Liang, Piao Xu, Zhifeng Liu, Yi Zhang, Chen Zhang, Min Cheng, Yang Liu, Shujing Ye, Huan Yi, Xiaoya Ren.Evaluation methods for assessing effectiveness of in situ remediation of soil and sediment contaminated with organic pollutants and heavy metals. Environment International (SCI 2018 IF=7.943) . 2017.105: 43-55 (ESI Highly Cited Paper and Research Front and ESI Hot Paper, ESI Hot Paper 第 3 次上榜)
- 3) 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 2018 IF=14.229). 2018.239:408-424(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 4 次上榜)
- 4) Zhang Changyong, He Di, Ma Jinxing, Tang Wangwang, Waite T. David *.Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review. Water Research (SCI 2018 IF=7.913).2018.128:314-330 (ESI Hot Paper and ESI Highly Cited Paper, 环境学院唐旺旺副教授与 Univ New South Wales 合作成果, ESI Hot Paper 第 3 次上榜)
- 5) Weiping Xiong, Guangming Zeng*, Zhaohui Yang*, Yaoyu Zhou, Chen Zhang, Min Cheng, Yang Liu, Liang Hu, Jia Wan, Chengyun Zhou, Rui Xu, Xin Li.Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent.Science of the Total Environment (SCI 2018 IF=5.589, 中科院 2 区, JCR 1 区) .2018.627:235-244(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
- 6) Bisheng Li, Cui Lai*, Guangming Zeng*, Lei Qin, Huan Yi, Danlian Huang, Chengyun Zhou, Xigui Liu, Min Cheng, Piao Xu, Chen Zhang, Fanglong Huang, and Shiyu Liu. Facile Hydrothermal Synthesis of Z-Scheme Bi₂Fe₄O₉/Bi₂WO₆ Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. ACS APPLIED MATERIALS & INTERFACES(SCI 2018 IF=8.456).2019.10(22):18824-18836 (ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
- 7) Yang Yang1, Zhuotong Zeng1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Rong Xiao*, Cui Lai, 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 2018

- IF=8.355). 2018. 349: 808-821(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 3 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)
- 8) Xiaoya Ren, Guangming Zeng*, Lin Tang*, Jingjing Wang, Jia Wan, Haopeng Feng, Biao Song, Chao Huang, Xian Tang. Effect of exogenous carbonaceous materials on the bioavailability of organic pollutants and their ecological risks. *Soil Biology & Biochemistry* (SCI 2018 IF=5.290, 在土壤科学界, 该刊物是双一区且排名第一的期刊). 2018.116:70-81 (ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 5 次上榜)
 - 9) Shaohua Wu, Huijun He, Xiang Li, Chunping Yang*, Guangming Zeng, Bin Wu, Shanying He, Li Lu. Insights into atrazine degradation by persulfate activation using composite of nanoscale zero-valent iron and graphene: Performances and mechanisms. *Chemical Engineering Journal* (SCI 2018 IF=8.355). 2018.341: 126 – 136 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
 - 10) Wang Hou, Wu Yan, 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 2018 IF=7.913). 2018.144: 215-225 (ESI Hot Paper, ESI Hot Paper 第 2 次上榜, 王侯助理教授与新加坡南洋理工的合作成果)
 - 11) Weiping Xiong¹, Zhuotong Zeng¹, Xin Li¹, Guangming Zeng*, Rong Xiao*, Zhaozhui Yang, Yaoyu Zhou, Chen Zhang, Min Cheng, Liang Hu, Chengyun Zhou, Lei Qin, Rui Xu, Yanru Zhang. Multiwall carbon nanotube/aminomino-functionalized -53 (Fe) composites: remarkable adsorptive removal of antibiotics from aqueous solutions. *Chemosphere* (SCI 2018 IF=5.108) (中科院分区 2 区, JCR 分区 1 区). 2018.210:1061-1069 (ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 2 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)
 - 12) Cao Jiao, Yang Zhao-hui*, Xiong Wei-ping, Zhou Yao-yu, Peng Yan-rong, Li Xin, Zhou Cheng-yun, Xu Rui, Zhang Yan-ru. One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. *Chemical Engineering Journal* (SCI 2018 IF=8.355). 2018. 353 : 126-137 (ESI Hot Paper, ESI Hot Paper 第 3 次上榜)
 - 13) Huan Yi¹, Lei Qin¹, Danlian Huang¹, Guangming Zeng*, Cui Lai*, Xigui Liu, Bisheng Li, Han Wang, Chengyun Zhou, Fanglong Huang, Shiyu Liu, Xueying Guo. Nano-structured bismuth tungstate with controlled morphology: fabrication, modification, environmental application and mechanism insight. *Chemical Engineering Journal* (SCI 2018 IF=8.355). 2019.358:480-496 (ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 2 次上榜)
 - 14) Li Yue, Yin Kai, Wang Longlu*, Lu Xiaolong, Zhang Yaqi, Liu Yutang*, Yan Dafeng, Song Yuze, Luo Shenglian. Engineering MoS₂ nanomesh with holes and lattice defects for highly active hydrogen evolution reaction. *Applied Catalysis B: Environmental* (SCI 2018 IF=14.229). 239:537-544 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜, 环境学院刘玉堂教授与物理学院的合作成果)
 - 15) Wu Shaohua, Li Huiru, Li Xiang, He Huijun, Yang Chunping. Performances and mechanisms of efficient degradation of atrazine using peroxymonosulfate and ferrate as oxidants. *CHEMICAL ENGINEERING JOURNAL* (SCI 2018 IF=8.355). 2018.353:533-541 (ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)
 - 16) 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 2018 IF=14.229). 2019.245:87-99 (ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)

- 17) Wang Dongbo*, Zhang Dan, Xu Qiuxiang, Liu Yiwen, Wang Qilin, Ni Bing-Jie, Yang Qi*, Li Xiaoming, Yang Fan. Calcium peroxide promotes hydrogen production from dark fermentation of waste activated sludge. *CHEMICAL ENGINEERING JOURNAL*. 2019. 355:22-32 (ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)
- 18) Jingnan Yang¹, Xuran Liu¹, Dongbo Wang *, Qiuxiang Xu, Qi Yang, Guangming Zeng, Xiaoming Li, Yiwen Liu **, Jilai Gong, Jun Ye, Hailong Li. Mechanisms of peroxymonosulfate pretreatment enhancing production of short-chain fatty acids from waste activated sludge. *Water Research* (SCI 2018 IF=7.913). 2019. 148 :239-249 (ESI Highly Cited Paper and ESI Hot Paper and Research Front , ESI Hot Paper 第 1 次上榜)
- 19) 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 (0 4 0) binary heterojunction photocatalysts with enhanced photocatalytic activity for Ciprofloxacin degradation and mechanism insight. *Chemical Engineering Journal* (SCI 2018 IF=8.355). 2019. 358 :891 – 902 (ESI Highly Cited Paper and ESI Hot Paper and Research Front, ESI Hot Paper 第 1 次上榜)
- 20) 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 2018 IF=8.355). 2019. 359: 186-196 (ESI Highly Cited Paper and Hot Paper and Research Front, ESI Hot Paper 第 1 次上榜)
- 21) Lin Yan, Wu Shaohua, Yang Chunping*, Chen Ming*, Li Xiang. Preparation of size-controlled silver phosphate catalysts and their enhanced photocatalysis performance via synergetic effect with MWCNTs and PANI. *Applied Catalysis B: Environmental* (SCI 2018 IF=14.229). 2019. 245:71-86 (ESI Highly Cited Paper and Hot Paper and Research Front, ESI Hot Paper 第 1 次上榜)
- 22) Chen Zhang *, Wenjun Wang, Abing Duan**, Guangming Zeng, Danlian Huang, Cui Lai, Xiaofei Tan, Min Cheng, Rongzhong Wang, Chengyun Zhou, Weiping Xiong, Yang Yang. Adsorption behavior of engineered carbons and carbon nanomaterials for metal endocrine disruptors: Experiments and theoretical calculation. *Chemosphere* (SCI 2018 IF=5.108). 2019. 184-194 ((ESI Highly Cited Paper and ESI Hot Paper)

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2	MATERIALS SCIENCE	2,880	42,109	14.62	4
3	ENGINEERING	4,426	41,217	9.31	14
4	PHYSICS	2,054	24,149	11.76	0
5	ENVIRONMENT/ECOLOGY	632	10,766	17.03	12
6	BIOLOGY & BIOCHEMISTRY	445	10,239	23.01	0
7	COMPUTER SCIENCE	1,098	8,505	7.75	0
0	ALL FIELDS	18,304	249,604	13.64	42

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1 **THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE**
By: SUN, HT; MEI, L; LIANG, JF; et.al
Source: SCIENCE 356 (6338): 599-604 MAY 12 2017
Research Fields: MATERIALS SCIENCE
Times Cited: 267

2 **DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS**
By: YAN, DF; LI, YX; HUO, J; et.al
Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017
Research Fields: MATERIALS SCIENCE
Times Cited: 194

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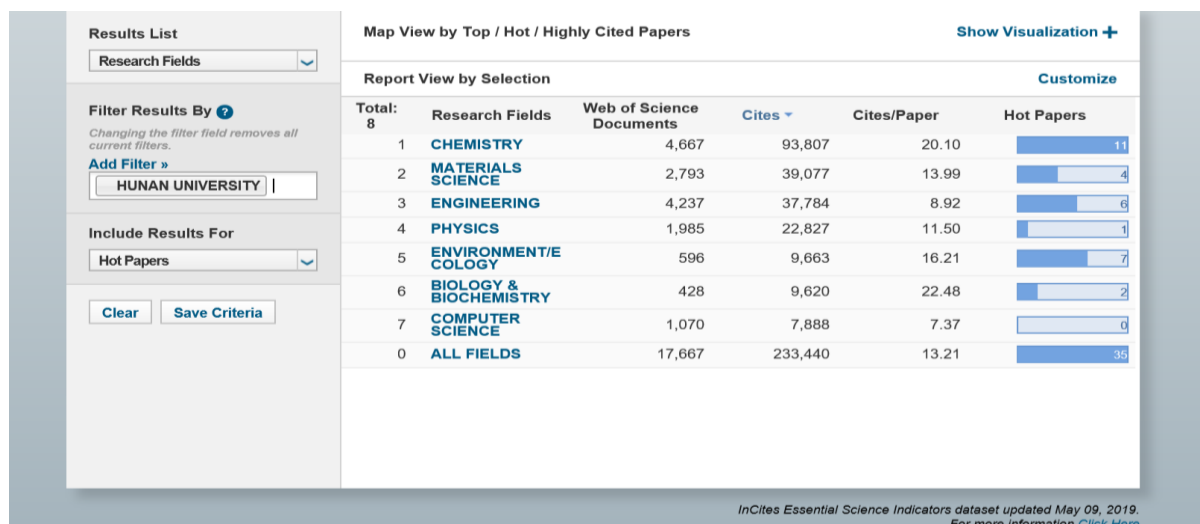
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- 19) Shaohua Wu, Huijun He, Xiang Li, Chunping Yang*, Guangming Zeng, Bin Wu,Shanying He, Li Lu. Insights into atrazine degradation by persulfate activation using composite of nanoscale zero-valent iron and graphene: Performances and mechanisms. Chemical Engineering Journal (SCI 2018 IF=8.355).2018.341: 126 – 136(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)
- 20) Wang Hou, Wu Yan, 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 2018 IF=7.913).2018.144: 215-225(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜,王侯助理教授与新加坡南洋理工的合作成果)
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- 22) Cao Jiao, Yang Zhao-hui*, Xiong Wei-ping, Zhou Yao-yu, Peng Yan-rong, Li Xin, Zhou Cheng-yun, Xu Rui, Zhang Yan-ru. One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. Chemical Engineering Journal (SCI 2018 IF=8.355).2018. 353 : 126-137(ESI Hot Paper, ESI Hot Paper 第 2 次上榜)
- 23) Lei Zhang, Cheng-Gang Niu*, Chao Liang, Xiao-Ju Wen, Da-Wei Huang, Hai Guo,Xiu-Fei Zhao, Guang-Ming Zeng*..One-step in situ synthesis of CdS/SnO2 heterostructure with excellent photocatalytic performance for Cr(VI) reduction and tetracycline degradation.Chemical Engineering Journal (SCI 2018 IF=8.355).2018. 352:863 – 875(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)
- 24) Zhuotong Zeng1, Shujing Ye1, Haipeng Wu1, Rong Xiao*, Guangming Zeng*, Jie Liang, Chang Zhang, Jiangfang Yu, Yilong Fang, Biao Song.Research on the sustainable efficacy of g-MoS2 decorated biochar nanocomposites for removing tetracycline hydrochloride from antibiotic-polluted aqueous solution. Science of the Total Environment (SCI 2018 IF=5.589, 中科院 2 区, JCR 1 区) .2019. 648: 206-217(ESI Highly Cited Paper and ESI Hot Paper , ESI Hot Paper 第 1 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)
- 25) Huan Yi1, Lei Qin1, Danlian Huang1, Guangming Zeng*, Cui Lai*, Xigui Liu, Bisheng Li, Han Wang, Chengyun Zhou, Fanglong Huang, Shiyu Liu, Xueying Guo.Nano-structured bismuth tungstate with controlled morphology: fabrication, modification, environmental application and mechanism

insight.Chemical Engineering Journal (SCI 2018 IF=8.355).2019.358:480-496(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)

- 26) Danlian Huang*, Zhihao Li, Guangming Zeng*, Chengyun Zhou, Wenjing Xue,Xiaomin Gong, Xuelei Yan, Sha Chen, Wenjun Wang, Min Cheng. egamerger in photocatalytic field: 2D g-C3N4 nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. Applied Catalysis B: Environmental(SCI 2018 IF=14.229) .2019. 240 :153-173 (ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
- 27) Wenjing Xue, Danlian Huang *, Guangming Zeng**, Jia Wan, Min Cheng,Chen Zhang, Chanjuan Hu, Jing Li. Performance and toxicity assessment of nanoscale zero valent iron particles in the remediation of contaminated soil: A review. Chemosphere(SCI 2018 IF=5.108)(中科院分区 2 区, JCR 分区 1 区).2018. 210 :1145-1156 (ESI Highly Cited Paper and ESI Highly Hot Paper, ESI Hot Paper 第 1 次上榜)
- 28) 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 2018 IF=7.044) .2019.140:278-285(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)
- 29) Tan Cheng, He Calvin, Tang Wangwang, Kovalsky Peter, Fletcher John, Waite T. David*.Integration of photovoltaic energy supply with membrane capacitive deionization (MCDI) for salt removal from brackish waters. Water Research(SCI 2018 IF=7.913). 2018.147:276-286(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜, 环境学院唐旺旺副教授与 Univ New South Wales 合作成果)

3. Essential Science Indicators for Hot papers for Hunan Univ on 09 May 2019



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By: SUN, HT; MEI, L; LIANG, JF; et.al
Source: SCIENCE 356 (6338): 599-604 MAY 12 2017
Research Fields: MATERIALS SCIENCE
- DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS**
Times Cited: 158
ESI Hot

By: YAN, DF; LI, YX; HUO, J; et.al
Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017
Research Fields: MATERIALS SCIENCE
- DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW**
Times Cited: 139
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By: JIANG, LB; YUAN, XZ; PAN, Y; et.al
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Research Fields: CHEMISTRY

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- HIERARCHICAL CO(OH)F SUPERSTRUCTURE BUILT BY LOW-DIMENSIONAL SUBSTRUCTURES FOR ELECTROCATALYTIC WATER OXIDATION**
Times Cited: 85
ESI Hot

By: WAN, S; QI, J; ZHANG, W; et.al
Source: ADVAN MATER 29 (28): - JUL 26 2017
Research Fields: MATERIALS SCIENCE
- HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN**
Times Cited: 83
ESI Hot

By: ZHOU, CY; LAI, C; HUANG, DL; et.al
Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018
Research Fields: CHEMISTRY
- PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW**
Times Cited: 79
ESI Hot

By: ZENG, GM; WAN, J; HUANG, DL; et.al
Source: J HAZARD MATER 339: 354-367 OCT 5 2017
Research Fields: ENGINEERING

- A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE**
Times Cited: 77
ESI Hot

By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al
Source: NAT ENERGY 2 (9): - SEP 2017
Research Fields: ENGINEERING
- GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN₄C₄ SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES**
Times Cited: 75
ESI Hot

By: FEI, HL; DONG, JC; FENG, YX; et.al
Source: NAT CATAL 1 (1): 63-72 JAN 2018
Research Fields: CHEMISTRY
- SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL**
Times Cited: 72
ESI Hot

By: REN, XY; ZENG, GM; TANG, L; et.al
Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018
Research Fields: ENVIRONMENT/ECOLOGY

	10	IN SITU GROWN AGL/Bi12O17CL2 HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE LIGHT DEGRADATION OF SULFAMETHAZINE: EFFICIENCY, PATHWAY, AND MECHANISM	Times Cited: 53  ESI Hot
		By: ZHOU, CY; LAI, C; XU, P; et.al Source: ACS SUSTAIN CHEM ENG 6 (3): 4174-4184 MAR 2018 Research Fields: CHEMISTRY	
	11	MODIFICATION OF BIOCHAR DERIVED FROM SAWDUST AND ITS APPLICATION IN REMOVAL OF TETRACYCLINE AND COPPER FROM AQUEOUS SOLUTION: ADSORPTION MECHANISM AND MODELLING	Times Cited: 51  ESI Hot
		By: ZHOU, YY; LIU, XC; XIANG, YJ; et.al Source: BIORESOURCE TECHNOL 245: 266-273 PART A DEC 2017 Research Fields: BIOLOGY & BIOCHEMISTRY	
	12	APPROACHING THE SCHOTTKY-MOTT LIMIT IN VAN DER WAALS METAL-SEMICONDUCTOR JUNCTIONS	Times Cited: 37  ESI Hot
		By: LIU, Y; GUO, J; ZHU, EB; et.al Source: NATURE 557 (7707): 696-+ MAY 31 2018 Research Fields: MATERIALS SCIENCE	
	13	NANOSCALE ZERO-VALENT IRON COATED WITH RHAMNOLIPID AS AN EFFECTIVE STABILIZER FOR IMMOBILIZATION OF CD AND PB IN RIVER SEDIMENTS	Times Cited: 31  ESI Hot
		By: XUE, WJ; HUANG, DL; ZENG, GM; et.al Source: J HAZARD MATER 341: 381-389 JAN 5 2018 Research Fields: ENGINEERING	
	14	PLASMONICALLY INDUCED TRANSPARENCY IN DOUBLE-LAYERED GRAPHENE NANORIBBONS	Times Cited: 30  ESI Hot
		By: XIA, SX; ZHAI, X; WANG, LL; et.al Source: PHOTONICS RES 6 (7): 692-702 JUL 1 2018 Research Fields: PHYSICS	
	15	ADSORPTION OF TETRACYCLINE ANTIBIOTICS FROM AQUEOUS SOLUTIONS ON NANOCOMPOSITE MULTI-WALLED CARBON NANOTUBE FUNCTIONALIZED MIL-53 (FE) AS NEW ADSORBENT	Times Cited: 29  ESI Hot
		By: XIONG, WP; ZENG, GM; YANG, ZH; et.al Source: SCI TOTAL ENVIR 627: 235-244 JUN 15 2018 Research Fields: ENVIRONMENT/ECOLOGY	
	16	ULTRASOUND-PROMOTED BRONSTED ACID IONIC LIQUID-CATALYZED HYDROTHIOCYANATION OF ACTIVATED ALKYNES UNDER MINIMAL SOLVENT CONDITIONS	Times Cited: 27  ESI Hot
		By: WU, C; LU, LH; PENG, AZ; et.al Source: GREEN CHEM 20 (16): - AUG 21 2018 Research Fields: CHEMISTRY	
	17	EFFECT OF EXOGENOUS CARBONACEOUS MATERIALS ON THE BIOAVAILABILITY OF ORGANIC POLLUTANTS AND THEIR ECOLOGICAL RISKS	Times Cited: 27  ESI Hot
		By: REN, XY; ZENG, GM; TANG, L; et.al Source: SOIL BIOL BIOCHEM 116: 70-81 JAN 2018 Research Fields: AGRICULTURAL SCIENCES	
	18	GOLD RUSH IN MODERN SCIENCE: FABRICATION STRATEGIES AND TYPICAL ADVANCED APPLICATIONS OF GOLD NANOPARTICLES IN SENSING	Times Cited: 26  ESI Hot
		By: QIN, L; ZENG, GM; LAI, C; et.al Source: COORD CHEM REV 359: 1-31 MAR 15 2018 Research Fields: CHEMISTRY	

19	RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES By: HE, L.; LI, J.; LIU, CY; et.al Source: IEEE TRANS GEOSCI REMOT SEN 56 (3): 1579-1597 MAR 2018 Research Fields: GEOSCIENCES	Times Cited: 26  ESI Hot
20	CORRELATION STRUCTURE AND EVOLUTION OF WORLD STOCK MARKETS: EVIDENCE FROM PEARSON AND PARTIAL CORRELATION-BASED NETWORKS By: WANG, GJ; XIE, C; STANLEY, HE; Source: COMPUT ECON 51 (3): 607-635 MAR 2018 Research Fields: ECONOMICS & BUSINESS	Times Cited: 25  ESI Hot
21	SELECTIVE PREPARED CARBON NANOMATERIALS FOR ADVANCED PHOTOCATALYTIC APPLICATION IN ENVIRONMENTAL POLLUTANT TREATMENT AND HYDROGEN PRODUCTION By: YI, H; HUANG, DL; QIN, L; et.al Source: APPL CATAL B-ENVIRON 239: 408-424 DEC 30 2018 Research Fields: CHEMISTRY	Times Cited: 23  ESI Hot
22	CONSTRUCTION OF AN ALL-SOLID-STATE Z-SCHEME PHOTOCATALYST BASED ON GRAPHITE CARBON NITRIDE AND ITS ENHANCEMENT TO CATALYTIC ACTIVITY By: JIANG, LB; YUAN, XZ; ZENG, GM; et.al Source: ENVIRON-SCI NANO 5 (3): 599-615 MAR 1 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 23  ESI Hot
23	EFFICIENT DEGRADATION OF SULFAMETHAZINE IN SIMULATED AND REAL WASTEWATER AT SLIGHTLY BASIC PH VALUES USING CO-SAM-SCS /H2O2 FENTON-LIKE SYSTEM By: CHENG, M; ZENG, GM; HUANG, DL; et.al Source: WATER RES 138: 7-18 JUL 1 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 21  ESI Hot
24	CONSTRUCTION OF IODINE VACANCY-RICH BIO/AG@AGI Z-SCHEME HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE-LIGHT-DRIVEN TETRACYCLINE DEGRADATION: TRANSFORMATION PATHWAYS AND MECHANISM INSIGHT By: YANG, Y; ZENG, ZT; ZHANG, C; et.al Source: CHEM ENG J 349: 808-821 OCT 1 2018 Research Fields: ENGINEERING	Times Cited: 19  ESI Hot
25	BIOSORPTION OF CD(II) FROM SYNTHETIC WASTEWATER USING DRY BIOFILMS FROM BIOTRICKLING FILTERS By: HE, HJ; XIANG, ZH; CHEN, XJ; et.al Source: INT J ENVIRON SCI TECHNOL 15 (7): 1491-1500 JUL 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 18  ESI Hot
26	INSIGHT INTO ELECTRO-FENTON AND PHOTO-FENTON FOR THE DEGRADATION OF ANTIBIOTICS: MECHANISM STUDY AND RESEARCH GAPS By: LIU, XC; ZHOU, YY; ZHANG, JC; et.al Source: CHEM ENG J 347: 379-397 SEP 1 2018 Research Fields: ENGINEERING	Times Cited: 15  ESI Hot
27	VISIBLE-LIGHT-DRIVEN REMOVAL OF TETRACYCLINE ANTIBIOTICS AND RECLAMATION OF HYDROGEN ENERGY FROM NATURAL WATER MATRICES AND WASTEWATER BY POLYMERIC CARBON NITRIDE FOAM By: WANG, H; WU, Y; FENG, MB; et.al Source: WATER RES 144: 215-225 NOV 1 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 13  ESI Hot

	28	WASTE-MINIMIZED PROTOCOL FOR THE SYNTHESIS OF SULFONYLATED N-HETEROAROMATICS IN WATER By: XIE, LY; PENG, S; TAN, JX; et.al Source: ACS SUSTAIN CHEM ENG 6 (12): 16976-16981 DEC 2018 Research Fields: CHEMISTRY	Times Cited: 11  ESI Hot
	29	INTERCONNECTEDNESS AND SYSTEMIC RISK OF CHINAS FINANCIAL INSTITUTIONS By: WANG, GJ; JIANG, ZQ; LIN, M; et.al Source: EMERG MARK REV 35: 1-18 JUN 2018 Research Fields: ECONOMICS & BUSINESS	Times Cited: 11  ESI Hot
	30	CHARACTERISTICS OF STEEL SLAGS AND THEIR USE IN CEMENT AND CONCRETE-A REVIEW By: JIANG, Y; LING, TC; SHI, CJ; et.al Source: RESOUR CONSERV RECYCL 136: 187-197 SEP 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 11  ESI Hot
	31	METAL-FREE DEOXYGENATIVE 2-AMIDATION OF QUINOLINE N-OXIDES WITH NITRILES VIA A RADICAL ACTIVATION PATHWAY By: XIE, LY; PENG, S; LIU, F; et.al Source: ADV SYNTH CATAL 360 (21): 4259-4264 NOV 5 2018 Research Fields: CHEMISTRY	Times Cited: 11  ESI Hot
	32	SEMICONDUCTOR/BORON NITRIDE COMPOSITES: SYNTHESIS, PROPERTIES, AND PHOTOCATALYSIS APPLICATIONS By: ZHOU, CY; LAI, C; ZHANG, C; et.al Source: APPL CATAL B-ENVIRON 238: 6-18 DEC 15 2018 Research Fields: CHEMISTRY	Times Cited: 10  ESI Hot
	33	IMPROVED METHANE PRODUCTION FROM WASTE ACTIVATED SLUDGE BY COMBINING FREE AMMONIA WITH HEAT PRETREATMENT: PERFORMANCE, MECHANISMS AND APPLICATIONS By: LIU, XR; XU, QX; WANG, DB; et.al Source: BIORESOURCE TECHNOL 268: 230-236 NOV 2018 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 10  ESI Hot
	34	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: CHEM ENG J 353: 126-137 DEC 1 2018 Research Fields: ENGINEERING	Times Cited: 9  ESI Hot
	35	METAL- AND SOLVENT-FREE ULTRASONIC MULTICOMPONENT SYNTHESIS OF (Z)-BETA-LODO VINYLTHIOCYANATES By: LU, LH; ZHOU, SJ; SUN, M; et.al Source: ACS SUSTAIN CHEM ENG 7 (1): 1574-1579 JAN 7 2019 Research Fields: CHEMISTRY	Times Cited: 7  ESI Hot

以上 35 篇 Hot Paper 中 有 20 篇是环境学院的论文:

- 1) Longbo Jiang, Xingzhong Yuan*, Yang Pan, Jie Liang, Guangming Zeng, Zhibin Wu, Hou Wang,*. Doping of graphitic carbon nitride for photocatalysis: A review. Applied Catalysis B: Environmental(SCI 2017 IF=11.69). 2017. 217: 388–406(ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 5 次上榜)
- 2) Chengyun Zhou, Cui Lai, Danlian Huang*, Guangming Zeng*, Chen Zhang, Min Cheng, Liang Hu, Jia Wan, Weiping Xiong, Ming Wen, Xiaofeng Wen, Lei Qin.Highly porous carbon nitride by supramolecular preassembly of monomers for photocatalytic removal of sulfamethazine under visible

- light driven. *Applied Catalysis B: Environmental*(SCI 2017 IF=11.69). 2018. 220:202-210(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 4 次上榜)
- 3) Guangming Zeng*, Jia Wan, Danlian Huang*, Liang Hu, Chao Huang, Min Cheng, Wenjing Xue, Xiaomin Gong, Rongzhong Wang, Danni Jiang. Precipitation, adsorption and rhizosphere effect: the mechanisms for Phosphate-induced Pb immobilization in soils-A review. *Journal of Hazardous Materials*(SCI 2017 IF=6.434) . 2017. 339:354-367 (ESI Hot Paper and ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 4 次上榜)
 - 4) Xiaoya Ren, Guangming Zeng*, Lin Tang, Jingjing Wang, Jia Wan, Yani Liu, Jiangfang Yu, Huan Yi, Shujing Ye, Rui Deng. Sorption, transport and biodegradation - An insight into bioavailability of persistent organic pollutants in soil. *Science of the Total Environment* (SCI 2017 IF=4.610) . 2018. 610-611:1154-1163(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 5 次上榜)
 - 5) Zhou Chengyun, Lai Cui, Xu Piao, Zeng Guangming*, Huang Danlian*, Zhang Chen, Cheng Min, Hu Liang, Wan Jia, Liu Yang, Xiong Weiping, Deng Yaocheng, Wen Ming. In Situ Grown AgI/Bi₂O₃/TiO₂ Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway and Mechanism. *ACS Sustainable Chemistry & Engineering*(SCI 2017 IF=6.140). 2018. 6:4174-4184 (ESI Highly Cited Paper and ESI Hot Paper , ESI Hot Paper 第 3 次上榜)
 - 6) Zhou YY , Liu XC , Xiang YJ , Wang P, Zhang JC, Zhang FF, Wei JH, Luo L , Lei M , Tang L . Modification of biochar derived from sawdust and its application in removal of tetracycline and copper from aqueous solution: Adsorption mechanism and modelling. *Bioresource Technology*(SCI 2017 IF=5.807). 2017. 245:266-273(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 3 次上榜, 环境学院汤琳教授与湖南农大的合作成果)
 - 7) Wenjing Xue, Danlian Huang*, Guangming Zeng*, Jia Wan, Chen Zhang, Rui Xu, Min Cheng, Rui Deng. Nanoscale zero-valent iron coated with rhamnolipid as an effective stabilizer for immobilization of Cd and Pb in river sediments. *Journal of Hazardous Materials*(SCI 2017 IF=6.434). 2018. 341 :381–389(ESI Hot Paper and ESI Highly Cited Paper and Research Front , ESI Hot Paper 第 1 次上榜)
 - 8) Weiping Xiong, Guangming Zeng*, Zhaohui Yang*, Yaoyu Zhou, Chen Zhang, Min Cheng, Yang Liu, Liang Hu, Jia Wan, Chengyun Zhou, Rui Xu, Xin Li. Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent. *Science of the Total Environment* (SCI 2017 IF=4.610 , 中科院 2 区 , JCR 1 区) . 2018. 627:235-244(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
 - 9) Xiaoya Ren, Guangming Zeng*, Lin Tang*, Jingjing Wang, Jia Wan, Haopeng Feng, Biao Song, Chao Huang, Xian Tang. Effect of exogenous carbonaceous materials on the bioavailability of organic pollutants and their ecological risks. *Soil Biology & Biochemistry* (SCI 2017 IF=4.926, 在土壤科学界, 该刊物是双一区且排名第一的期刊). 2018. 116:70-81 (ESI Highly Cited Paper and ESI Highly Hot Paper, ESI Hot Paper 第 3 次上榜)
 - 10) Lei Qin, Guangming Zeng*, Cui Lai*, Danlian Huang, Piao Xu, Chen Zhang, Min Cheng, Xigui Liu, Liu Shiyu, Bisheng Li, Huan Yi. “Gold Rush” in Modern Science: Fabrication Strategies and Typical Advanced Applications of Gold Nanoparticles in Sensing. *Coordination Chemistry Reviews*(SCI 2017 IF=14.499). 2018. 359:1-31(本期论文首篇论文) (ESI Hot Paper and ESI Highly Cited Paper and Research Front , ESI Hot Paper 第 1 次上榜)
 - 11) 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 , ESI Hot Paper 第 2 次上榜)

- 12) Longbo Jiang, Xingzhong Yuan*, Guangming Zeng, Jie Liang*, Zhibin Wu, Hou Wang. Construction of an all-solid-state Z-scheme photocatalyst based on graphite carbon nitride and its enhancement to catalytic activity . Environmental Science-Nano(SCI 2017 IF=6.087).2018.5:599–615 (ESI Hot Paper and ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 1 次上榜)
- 13) Min Cheng, Guangming Zeng*, Danlian Huang*, Cui Lai, Yang Liu, Chen Zhang, Jia Wan, Liang Hu, Chengyun Zhou, Weiping Xiong. Efficient degradation of sulfamethazine in simulated and real wastewater at slightly basic pH values using Co-SAM-SCS /H₂O₂ Fenton-like system. Water Research(SCI 2017 IF=7.051). 2018. 138:7-18(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 3 次上榜)
- 14) 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 2017 IF=6.735). 2018. 349: 808-821(ESI Hot Paper, ESI Hot Paper 第 1 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)
- 15) He HJ¹, Xiang ZH¹, Chen XJ¹, Chen H, Huang H, Wen M, Yang CP*. Biosorption of Cd(II) from synthetic wastewater using dry biofilms from biotrickling filters. International Journal of Environmental Science and Technology (SCI 2017 IF=2.037). 2018,.15(7): 1491-1500(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
- 16) Liu Xiaocheng, Zhou Yaoyu*, Zhang Jiachao, Luo Lin, Yang Yuan, Huang Hongli, Peng Hui, Tang Lin, Mu Yang. Insight into electro-Fenton and photo-Fenton for the degradation of antibiotics: Mechanism study and research gaps. CHEMICAL ENGINEERING JOURNAL.2018.347: 379-397(ESI Hot Paper, ESI Hot Paper 第 1 次上榜,环境学院汤琳教授与湖南农大的合作成果)
- 17) Wang Hou, Wu Yan, 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 2017 IF=7.051).2018.144: 215-225(ESI Hot Paper, ESI Hot Paper 第 1 次上榜,王侯助理教授与新加坡南洋理工的合作成果)
- 18) Zhou Chengyun, Lai Cui,Xu Piao,Zeng Guangming*,Huang Danlian*,Zhang Chen,Cheng Min,Hu Liang,Wan Jia,Liu Yang,Xiong Weiping.Deng Yaocheng,Wen Ming. In Situ Grown AgI/Bi₂O₃/Bi₂WO₆ Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway and Mechanism. ACS Sustainable Chemistry & Engineering(SCI 2017 IF=6.140).2018.6:4174-4184 (ESI Highly Cited Paper and ESI Hot Paper , ESI Hot Paper 第 3 次上榜)
- 19) Xuran Liu, Qiuxiang Xu, Dongbo Wang*, Jianwei Zhao, Yanxin Wu, Yiwen Liu,Bing-Jie Ni, Qilin Wang, Guangming Zeng, Xiaoming Li, Qi Yang. Improved methane production from waste activated sludge by combining free ammonia with heat pretreatment: Performance, mechanisms and Applications. Bioresource Technology(SCI 2017 IF=5.807).2018. 268: 230 – 236(ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
- 20) Cao Jiao, Yang Zhao-hui*, Xiong Wei-ping, Zhou Yao-yu, Peng Yan-rong, Li Xin, Zhou Cheng-yun, Xu Rui, Zhang Yan-ru. 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) .2018. 353 : 126-137(ESI Hot Paper, ESI Hot Paper 第 1 次上榜)