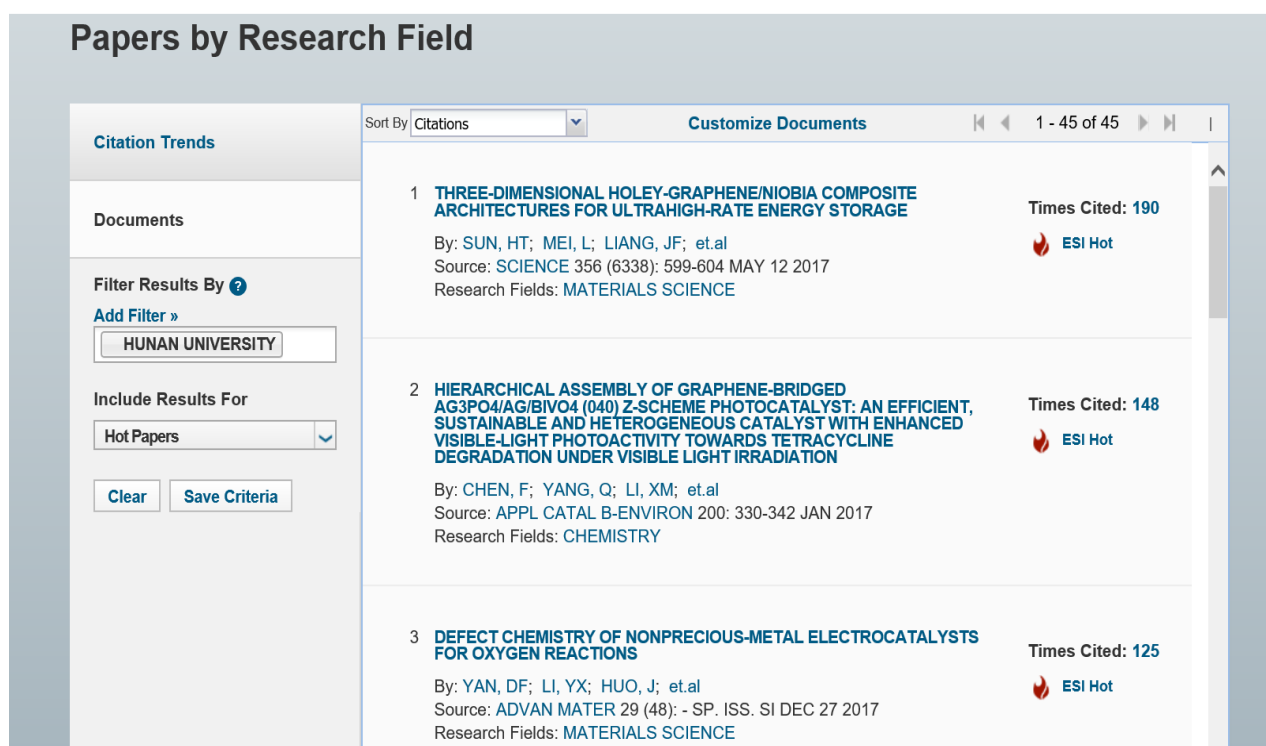
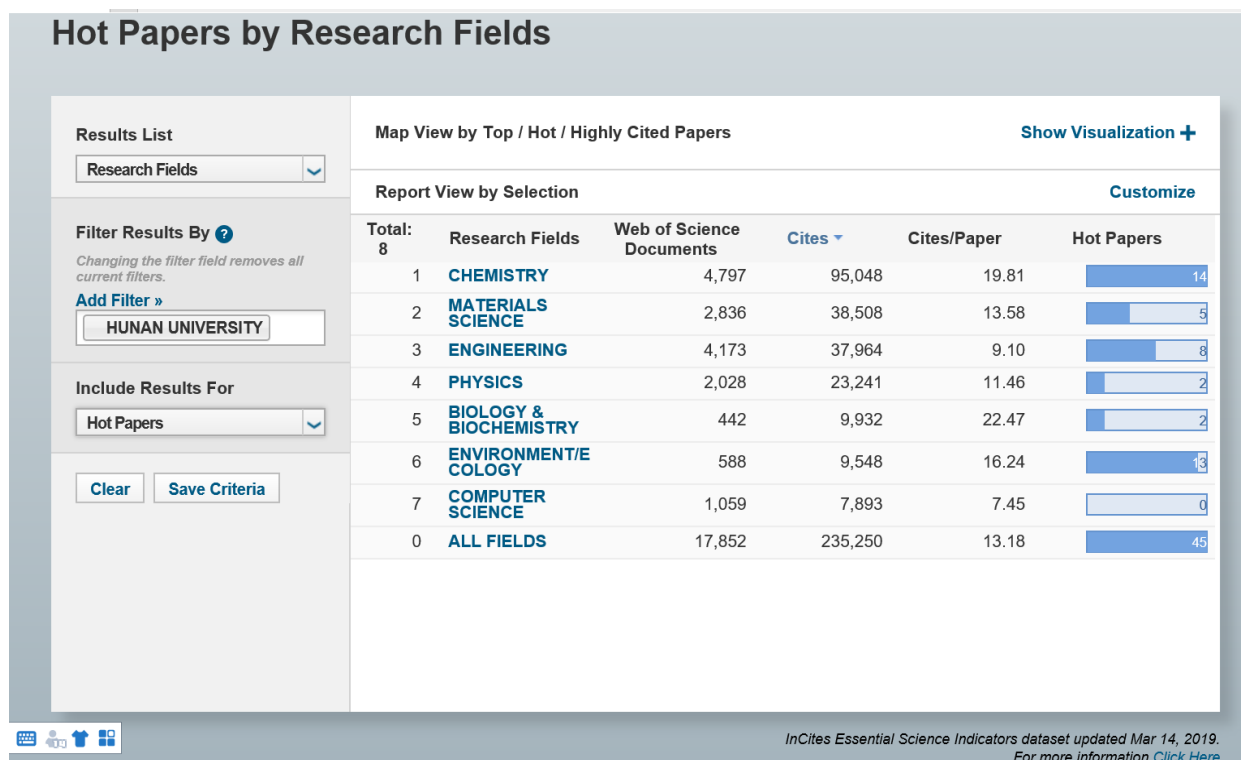


Essential Science Indicators for Hot papers for Hunan Univ on 14 March 2019 from 10 Nov 2016

1. Essential Science Indicators for Hot papers for Hunan Univ on 14 March 2019



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4	<b>DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW</b>	Times Cited: 108	ESI Hot
By: JIANG, LB; YUAN, XZ; PAN, Y; et.al Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017 Research Fields: CHEMISTRY			
5	<b>WATER-PLASMA-ENABLED EXFOLIATION OF ULTRATHIN LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIVACANCIES FOR WATER OXIDATION</b>	Times Cited: 93	ESI Hot
By: LIU, R; WANG, YY; LIU, DD; et.al Source: ADVAN MATER 29 (30): - AUG 11 2017 Research Fields: MATERIALS SCIENCE			
6	<b>THE INTERACTIONS OF COMPOSTING AND BIOCHAR AND THEIR IMPLICATIONS FOR SOIL AMENDMENT AND POLLUTION REMEDIATION: A REVIEW</b>	Times Cited: 84	ESI Hot
By: WU, HP; LAI, C; ZENG, GM; et.al Source: CRIT REV BIOTECHNOL 37 (6): 754-764 2017 Research Fields: BIOLOGY & BIOCHEMISTRY			
7	<b>FILLING THE OXYGEN VACANCIES IN CO<sub>3</sub>O<sub>4</sub> WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING</b>	Times Cited: 82	ESI Hot
By: XIAO, ZH; WANG, Y; HUANG, YC; et.al Source: ENERGY ENVIRON SCI 10 (12): 2563-2569 DEC 2017 Research Fields: CHEMISTRY			

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8	<b>HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN</b>	Times Cited: 63	ESI Hot
By: ZHOU, CY; LAI, C; HUANG, DL; et.al Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018 Research Fields: CHEMISTRY			
9	<b>COMBINATION OF FENTON PROCESSES AND BIOTREATMENT FOR WASTEWATER TREATMENT AND SOIL REMEDIATION</b>	Times Cited: 58	ESI Hot
By: HUANG, DL; HU, CJ; ZENG, GM; et.al Source: SCI TOTAL ENVIR 574: 1599-1610 JAN 1 2017 Research Fields: ENVIRONMENT/ECOLOGY			
10	<b>A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE</b>	Times Cited: 57	ESI Hot
By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al Source: NAT ENERGY 2 (9): - SEP 2017 Research Fields: ENGINEERING			
11	<b>SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL</b>	Times Cited: 57	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			

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12	<b>GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN<sub>4</sub>C<sub>4</sub> SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES</b>	Times Cited: 51	ESI Hot
By: FEI, HL; DONG, JC; FENG, YX; et.al Source: NAT CATAL 1 (1): 63-72 JAN 2018 Research Fields: CHEMISTRY			
13	<b>MULTI-CRITERIA DECISION-MAKING METHOD BASED ON SINGLE-VALUED NEUTROSOPHIC LINGUISTIC MACLAURIN SYMMETRIC MEAN OPERATORS</b>	Times Cited: 50	ESI Hot
By: WANG, JQ; YANG, Y; LI, L; Source: NEURAL COMPUT APPL 30 (5): 1529-1547 SEP 2018 Research Fields: ENGINEERING			
14	<b>COMPREHENSIVE EVALUATION OF THE CYTOTOXICITY OF CDSE/ZNS QUANTUM DOTS IN PHANEROCHAETE CHRYSOSPORIUM BY CELLULAR UPTAKE AND OXIDATIVE STRESS</b>	Times Cited: 44	ESI Hot
By: HU, L; WAN, J; ZENG, GM; et.al Source: ENVIRON-SCI NANO 4 (10): 2018-2029 OCT 1 2017 Research Fields: ENVIRONMENT/ECOLOGY			
15	<b>METAL-FREE EFFICIENT PHOTOCATALYST FOR STABLE VISIBLE-LIGHT PHOTOCATALYTIC DEGRADATION OF REFRACTORY POLLUTANT</b>	Times Cited: 43	ESI Hot
By: JIANG, LB; YUAN, XZ; ZENG, GM; et.al Source: APPL CATAL B-ENVIRON 221: 715-725 FEB 2018 Research Fields: CHEMISTRY			

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16	<b>EXPLOITING EXTRACELLULAR POLYMERIC SUBSTANCES (EPS) CONTROLLING STRATEGIES FOR PERFORMANCE ENHANCEMENT OF BIOLOGICAL WASTEWATER TREATMENTS: AN OVERVIEW</b>	Times Cited: 40 ESI Hot
By: SHI, YH; HUANG, JH; ZENG, GM; et.al Source: CHEMOSPHERE 180: 396-411 AUG 2017 Research Fields: ENVIRONMENT/ECOLOGY		
17	<b>IN SITU GROWN AGL/Bi2O17CL2 HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE LIGHT DEGRADATION OF SULFAMETHAZINE: EFFICIENCY, PATHWAY, AND MECHANISM</b>	Times Cited: 39 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		
18	<b>PLASMONIC RESONANCE EXCITED DUAL Z-SCHEME BiVO4/Ag/Cu2O NANOCOMPOSITE: SYNTHESIS AND MECHANISM FOR ENHANCED PHOTOCATALYTIC PERFORMANCE IN RECALCITRANT ANTIBIOTIC DEGRADATION</b>	Times Cited: 32 ESI Hot
By: DENG, YC; TANG, L; ZENG, GM; et.al Source: ENVIRON-SCI NANO 4 (7): 1494-1511 JUL 1 2017 Research Fields: ENVIRONMENT/ECOLOGY		
19	<b>STABILIZED NANOSCALE ZEROVALENT IRON MEDIATED CADMIUM ACCUMULATION AND OXIDATIVE DAMAGE OF BOEHMERIA NIVEA (L.) GAUDICH CULTIVATED IN CADMIUM CONTAMINATED SEDIMENTS</b>	Times Cited: 30 ESI Hot
By: GONG, XM; HUANG, DL; LIU, YG; et.al Source: ENVIRON SCI TECHNOL 51 (19): 11308-11316 OCT 3 2017 Research Fields: ENVIRONMENT/ECOLOGY		

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20	<b>HIGHLY EFFICIENT VISIBLE-LIGHT-INDUCED PHOTOACTIVITY OF Z-SCHEME Ag2CO3/Ag/WO3 PHOTOCATALYSTS FOR ORGANIC POLLUTANT DEGRADATION</b>	Times Cited: 26 ESI Hot
By: YUAN, XZ; JIANG, LB; CHEN, XH; et.al Source: ENVIRON-SCI NANO 4 (11): 2175-2185 NOV 1 2017 Research Fields: ENVIRONMENT/ECOLOGY		
21	<b>OD/2D INTERFACE ENGINEERING OF CARBON QUANTUM DOTS MODIFIED Bi2WO6 ULTRATHIN NANOSHEETS WITH ENHANCED PHOTOACTIVITY FOR FULL SPECTRUM LIGHT UTILIZATION AND MECHANISM INSIGHT</b>	Times Cited: 26 ESI Hot
By: WANG, JJ; TANG, L; ZENG, GM; et.al Source: APPL CATAL B-ENVIRON 222: 115-123 MAR 2018 Research Fields: CHEMISTRY		
22	<b>REDUCTION OF ENERGY REQUIREMENT OF CO2 DESORPTION FROM A RICH CO2-LOADED MEA SOLUTION BY USING SOLID ACID CATALYSTS</b>	Times Cited: 26 ESI Hot
By: ZHANG, XW; ZHANG, X; LIU, HL; et.al Source: APPL ENERG 202: 673-684 SEP 15 2017 Research Fields: ENGINEERING		
23	<b>FARADAIC REACTIONS IN CAPACITIVE DEIONIZATION (CDI) - PROBLEMS AND POSSIBILITIES: A REVIEW</b>	Times Cited: 25 ESI Hot
By: ZHANG, CY; HE, D; MA, JX; et.al Source: WATER RES 128: 314-330 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY		

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24	<b>ON BUCKLING AND POSTBUCKLING BEHAVIOR OF NANOTUBES</b>	Times Cited: 23 ESI Hot
By: SHE, GL; YUAN, FG; REN, YR; et.al Source: INT J ENG SCI 121: 130-142 DEC 2017 Research Fields: ENGINEERING		
25	<b>PLASMA-ASSISTED SYNTHESIS AND SURFACE MODIFICATION OF ELECTRODE MATERIALS FOR RENEWABLE ENERGY</b>	Times Cited: 23 ESI Hot
By: DOU, S; TAO, L; WANG, RL; et.al Source: ADVAN MATER 30 (21): - MAY 24 2018 Research Fields: MATERIALS SCIENCE		
26	<b>EFFECT OF EXOGENOUS CARBONACEOUS MATERIALS ON THE BIOAVAILABILITY OF ORGANIC POLLUTANTS AND THEIR ECOLOGICAL RISKS</b>	Times Cited: 21 ESI Hot
By: REN, XY; ZENG, GM; TANG, L; et.al Source: SOIL BIOL BIOCHEM 116: 70-81 JAN 2018 Research Fields: AGRICULTURAL SCIENCES		
27	<b>PLASMONICALLY INDUCED TRANSPARENCY IN DOUBLE-LAYERED GRAPHENE NANORIBBONS</b>	Times Cited: 19 ESI Hot
By: XIA, SX; ZHAI, X; WANG, LL; et.al Source: PHOTONICS RES 6 (7): 692-702 JUL 1 2018 Research Fields: PHYSICS		

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28	<b>ON VIBRATIONS OF POROUS NANOTUBES</b> By: SHE, GL; REN, YR; YUAN, FG; et.al Source: INT J ENG SCI 125: 23-35 APR 2018 Research Fields: ENGINEERING	Times Cited: 19 ESI Hot
29	<b>LAYERED TIN SULFIDE AND SELENIDE ANODE MATERIALS FOR LI- AND NA-ION BATTERIES</b> By: WEI, ZX; WANG, L; ZHUO, M; et.al Source: J MATER CHEM A 6 (26): 12185-12214 JUL 14 2018 Research Fields: MATERIALS SCIENCE	Times Cited: 17 ESI Hot
30	<b>RATIONAL DESIGN OF CARBON-DOPED CARBON NITRIDE/BiH2O17CL2 COMPOSITES: A PROMISING CANDIDATE PHOTOCATALYST FOR BOOSTING VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC DEGRADATION OF TETRACYCLINE</b> By: ZHOU, CY; LAI, C; XU, P; et.al Source: ACS SUSTAIN CHEM ENG 6 (5): 6941-+ MAY 2018 Research Fields: CHEMISTRY	Times Cited: 17 ESI Hot
31	<b>BIS(METHOXYPROPYL) ETHER-PROMOTED OXIDATION OF AROMATIC ALCOHOLS INTO AROMATIC CARBOXYLIC ACIDS AND AROMATIC KETONES WITH O-2 UNDER METAL- AND BASE-FREE CONDITIONS</b> By: LIU, KJ; JIANG, S; LU, LH; et.al Source: GREEN CHEM 20 (13): 3038-3043 JUL 7 2018 Research Fields: CHEMISTRY	Times Cited: 17 ESI Hot

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32	<b>FREE AMMONIA ENHANCES DARK FERMENTATIVE HYDROGEN PRODUCTION FROM WASTE ACTIVATED SLUDGE</b> By: WANG, DB; DUAN, YY; YANG, Q; et.al Source: WATER RES 133: 272-281 APR 15 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 16 ESI Hot
33	<b>MODELING THE TRANSPORT OF SODIUM DODECYL BENZENE SULFONATE IN RIVERINE SEDIMENT IN THE PRESENCE OF MULTI-WALLED CARBON NANOTUBES</b> By: SONG, B; XU, P; ZENG, GM; et.al Source: WATER RES 129: 20-28 FEB 1 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 15 ESI Hot
34	<b>RECENT PROGRESS ON LAYERED DOUBLE HYDROXIDES AND THEIR DERIVATIVES FOR ELECTROCATALYTIC WATER SPLITTING</b> By: WANG, YY; YAN, DF; EL HANKARI, S; et.al Source: ADVANCED SCI 5 (8): - AUG 2018 Research Fields: PHYSICS	Times Cited: 14 ESI Hot
35	<b>EFFICIENT DEGRADATION OF SULFAMETHAZINE IN SIMULATED AND REAL WASTEWATER AT SLIGHTLY BASIC PH VALUES USING CO-SAM-SCS /H2O2 FENTON-LIKE SYSTEM</b> By: CHENG, M; ZENG, GM; HUANG, DL; et.al Source: WATER RES 138: 7-18 JUL 1 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 13 ESI Hot

36	<b>METAL-ORGANIC FRAMEWORKS FOR HIGHLY EFFICIENT HETEROGENEOUS FENTON-LIKE CATALYSIS</b> By: CHENG, M; LAI, C; LIU, Y; et.al Source: COORD CHEM REV 368: 80-92 AUG 1 2018 Research Fields: CHEMISTRY	Times Cited: 13 ESI Hot
37	<b>IN-SITU SYNTHESIS OF DIRECT SOLID-STATE DUAL Z-SCHEME WO3/G-C3N4/Bi2O3 PHOTOCATALYST FOR THE DEGRADATION OF REFRACTORY POLLUTANT</b> By: JIANG, LB; YUAN, XZ; ZENG, GM; et.al Source: APPL CATAL B-ENVIRON 227: 376-385 JUL 5 2018 Research Fields: CHEMISTRY	Times Cited: 13 ESI Hot
38	<b>ADSORPTION OF TETRACYCLINE ANTIBIOTICS FROM AQUEOUS SOLUTIONS ON NANOCOMPOSITE MULTI-WALLED CARBON NANOTUBE FUNCTIONALIZED MIL-53 (FE) AS NEW ADSORBENT</b> 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: 11 ESI Hot
39	<b>EVALUATING CO2 DESORPTION PERFORMANCE IN CO2-LOADED AQUEOUS TRI-SOLVENT BLEND AMINES WITH AND WITHOUT SOLID ACID CATALYSTS</b> By: ZHANG, XW; ZHANG, R; LIU, HL; et.al Source: APPL ENERG 218: 417-429 MAY 15 2018 Research Fields: ENGINEERING	Times Cited: 11 ESI Hot

40	<b>ON WAVE PROPAGATION OF POROUS NANOTUBES</b> By: SHE, GL; YUAN, FG; REN, YR; Source: INT J ENG SCI 130: 62-74 SEP 2018 Research Fields: ENGINEERING	Times Cited: 10 ESI Hot
41	<b>ENHANCED SHORT-CHAIN FATTY ACIDS PRODUCTION FROM WASTE ACTIVATED SLUDGE BY COMBINING CALCIUM PEROXIDE WITH FREE AMMONIA PRETREATMENT</b> By: WANG, DB; SHUAI, K; XU, QX; et.al Source: BIORESOURCE TECHNOL 262: 114-123 AUG 2018 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 10 ESI Hot
42	<b>SELECTIVE PREPARED CARBON NANOMATERIALS FOR ADVANCED PHOTOCATALYTIC APPLICATION IN ENVIRONMENTAL POLLUTANT TREATMENT AND HYDROGEN PRODUCTION</b> 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: 8 ESI Hot
43	<b>SOIL-TUNNEL INTERACTION MODELLING FOR SHIELD TUNNELS CONSIDERING SHEARING DISLOCATION IN LONGITUDINAL JOINTS</b> By: WU, HN; SHEN, SL; YANG, J; et.al Source: TUNN UNDERGR SPACE TECHNOL 78: 168-177 AUG 2018 Research Fields: ENGINEERING	Times Cited: 6 ESI Hot
44	<b>POSITIONING CYANAMIDE DEFECTS IN G-C3N4: ENGINEERING ENERGY LEVELS AND ACTIVE SITES FOR SUPERIOR PHOTOCATALYTIC HYDROGEN EVOLUTION</b> By: YUAN, JL; LIU, X; TANG, YH; et.al Source: APPL CATAL B-ENVIRON 237: 24-31 DEC 5 2018 Research Fields: CHEMISTRY	Times Cited: 6 ESI Hot
45	<b>CO-MN LAYERED DOUBLE HYDROXIDE AS AN EFFECTIVE HETEROGENEOUS CATALYST FOR DEGRADATION OF ORGANIC DYES BY ACTIVATION OF PEROXYMONOSULFATE</b> By: ZHAO, XF; NIU, CG; ZHANG, L; et.al Source: CHEMOSPHERE 204: 11-21 AUG 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 5 ESI Hot

以上 45 篇 Hot Paper 中 有 27 篇是环境学院的论文:

- 1) Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. Applied Catalysis B: Environmental (SCI 2017 IF=11.69). 2017. 200: 330-342 ( ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper, ESI Hot Paper 第 3 次上榜)
- 2) 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 4 次上榜)
- 3) Haipeng Wu, Cui Lai, Guangming Zeng\*, Jie Liang\*, Jin Chen, Jijun Xu, Juan Dai, Xiaodong Li, Junfeng Liu, Ming Chen, Lunhui Lu, Liang Hu, Jia Wan. The interactions of composting and biochar and their implications for soil amendment and pollution remediation: a review. Critical Reviews in Biotechnology (SCI 2017 IF=5.239). 2017. 37 :754-764 (ESI Hot Paper and ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 1 次上榜)

- 4) 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 3 次上榜)
- 5) Danlian Huang\*, Chanjuan Hu, Guangming Zeng\*, Min Cheng, Piao Xu, Xiaomin Gong, Rongzhong Wang, Wenjing Xue. Combination of Fenton processes and biotreatment for wastewater treatment and soil remediation. *Science of the Total Environment*(SCI 2016 IF=4.9). 2017. 574: 1599–1610( ESI Highly Cited Paper and ESI Research Front and ESI Hot Paper, ESI Hot Paper 第 4 次上榜)
- 6) 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 4 次上榜)
- 7) Liang Hu, Jia Wan, Guangming Zeng\*, Anwei Chen\*, Guiqiu Chen, Zhenzhen Huang, Kai He, Min Cheng, Chengyun Zhou, Weiping Xiong, Cui Lai, Piao Xu. Comprehensive evaluation of the cytotoxicity of CdSe/ZnS quantum dots in *Phanerochaete chrysosporium* by cellular uptake and oxidative stress. *Environmental Science-Nano*(SCI 2017 IF=6.087). 2017.4: 2018-2029 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 3 次上榜)
- 8) Longbo Jiang, Xingzhong Yuan\*, Guangming Zeng, Zhibin Wu, Jie Liang, Xiaohong Chen, Lijian Leng, Hui Wang, Hou Wang\*. Metal-free efficient photocatalyst for stable visible-light photocatalytic degradation of refractory pollutant. *Applied Catalysis B: Environmental*(SCI 2017 IF=11.69). 2018.221:715-725(ESI Hot Paper and ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 1 次上榜)
- 9) Yahui Shi, Jinhui Huang\*, Guangming Zeng\*, Yanling Gu, Yaoning Chen, Yi Hu, Bi Tang, Jianxin Zhou, Ying Yang, Lixiu Shi. Exploiting extracellular polymeric substances (EPS) controlling strategies for performance enhancement of biological wastewater treatments: An overview. *Chemosphere* ( SCI 2017 IF = 4.427 ) . 2017. 180: 396-411 (ESI Highly Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)
- 10) 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/Bi<sub>2</sub>O<sub>3</sub>/ZnO 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 2 次上榜)
- 11) Yaocheng Deng, Lin Tang\*, Guangming Zeng\*, Chengyang Feng, Haoran Dong, Jiajia Wang, Haopeng Feng, Yani Liu, Yaoyu Zhou, Ya Pang. Plasmonic resonance excited dual Z-scheme BiVO<sub>4</sub>/Ag/Cu<sub>2</sub>O nanocomposite: Synthesis and mechanism for enhanced photocatalytic performance in recalcitrant antibiotics degradation. *Environmental Science-Nano*(SCI 2017 IF=6.087).2017,4,1494–1511(ESI Hot Paper and ESI Highly Cited Paper , ESI Hot Paper 第 1 次上榜)
- 12) Xiaomin Gong, Danlian Huang\*, Yunguo Liu\*, Guangming Zeng, Rongzhong Wang, Jia Wan, Chen Zhang, Min Cheng, Xiang Qin, Wenjing Xue. Stabilized nanoscale zero-valent iron mediated cadmium accumulation and oxidative damage of *Boehmeria nivea* (L.) Gaudich cultivated in cadmium contaminated sediments. *Environmental Science & Technology* ( SCI 2016 IF=6.198 ) . 2017.51:11308-11316(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)

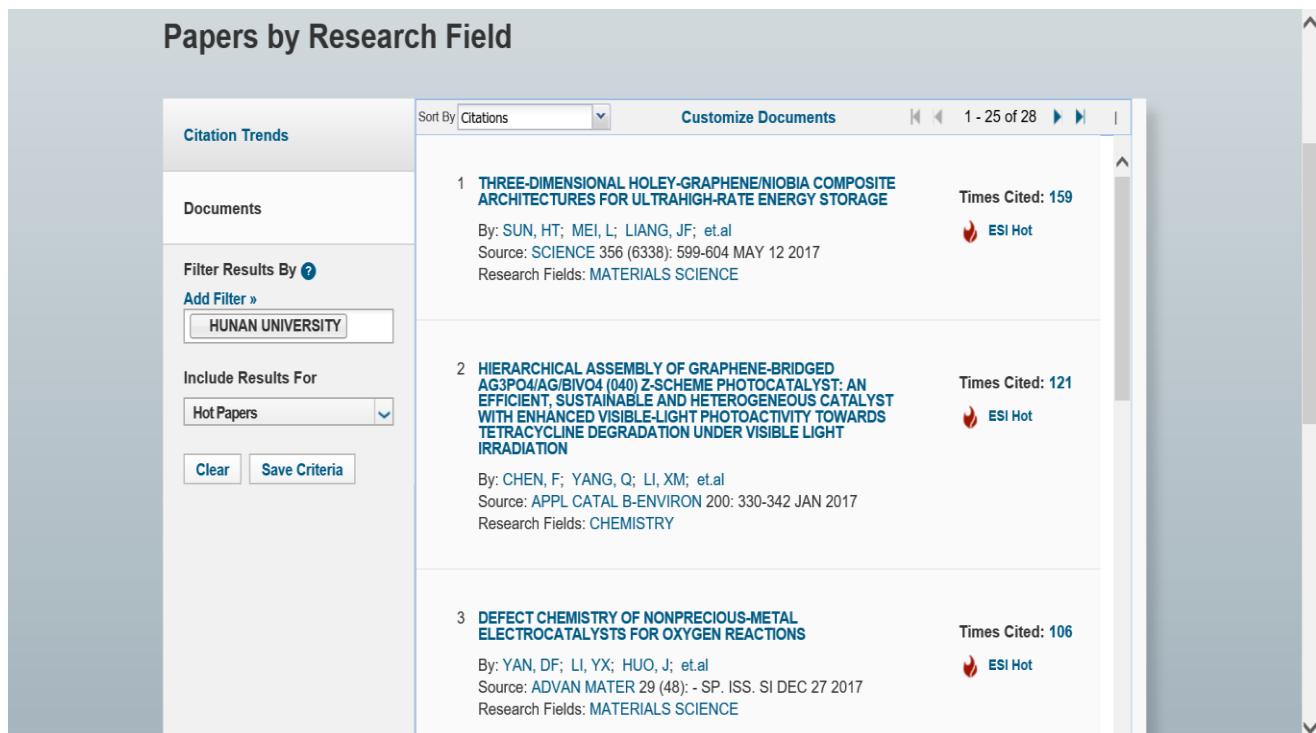
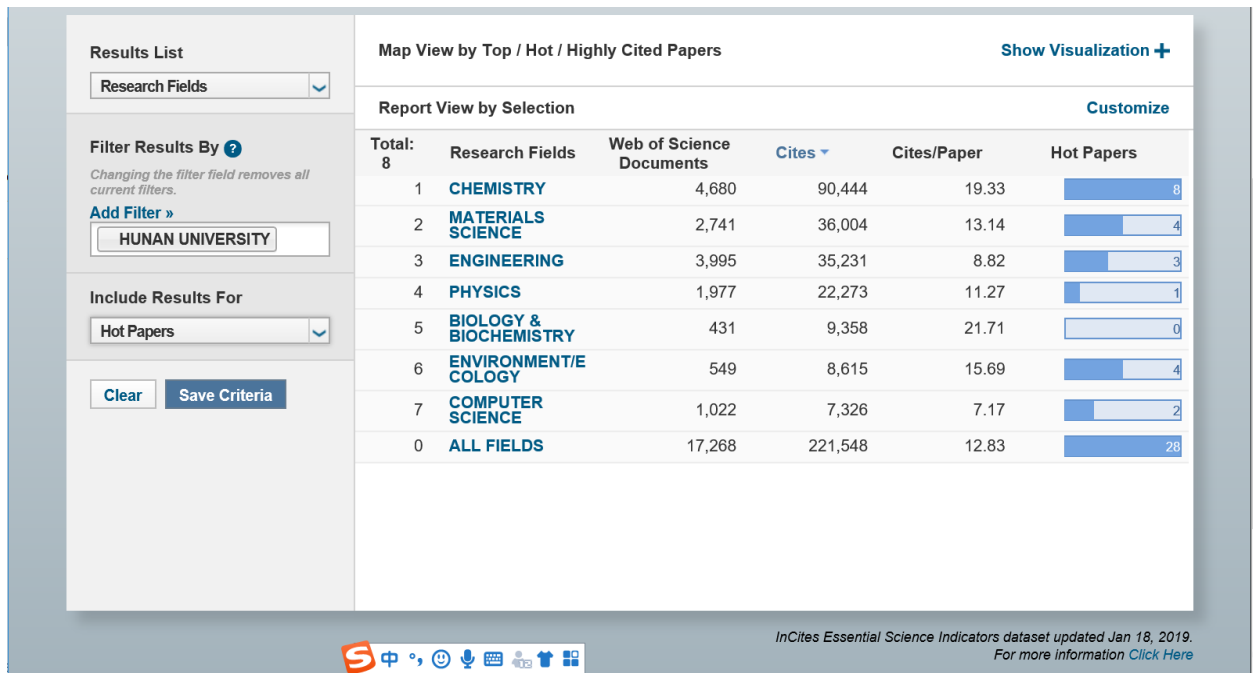
- 13) Yuan XZ\*, Jiang LB\*, Chen XH, Leng LJ, Wang H, Wu ZB, Xiong T, Liang J, Zeng GM. Highly efficient visible-light-induced photoactivity of Z-scheme Ag<sub>2</sub>CO<sub>3</sub>/Ag/WO<sub>3</sub> photocatalysts for organic pollutant degradation. *Environmental Science-Nano*(SCI 2017 IF=6.087).2017.4(11):2175-2185(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
- 14) Jiajia Wang, Lin Tang\*, Guangming Zeng\*, Yaocheng Deng, Haoran Dong, Yani Liu, Longlu Wang, Bo Peng, Chen Zhang, Fei Chen. 0D/2D Interface Engineering of Carbon Quantum Dots Modified Bi<sub>2</sub>WO<sub>6</sub> Ultrathin Nanosheets with Enhanced Photoactivity for Full Spectrum Light Utilization and Mechanism Insight.*Applied Catalysis B: Environmental*(SCI 2017 IF=11.69). 2018.222:115-123(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
- 15) 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 2017 IF=7.051).2018.128:314-330 (ESI Hot Paper, 环境学院唐旺旺副教授与 Univ New South Wales 合作成果, ESI Hot Paper 第 1 次上榜)
- 16) 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 2 次上榜)
- 17) Chengyun Zhou<sup>1</sup>, Cui Lai<sup>1</sup>, Piao Xu<sup>1</sup>, Guangming Zeng\*<sup>1</sup>, Danlian Huang\*<sup>1</sup>, Zhihao Li, Chen Zhang, Min Cheng, Liang Hu, Jia Wan, Fei Chen, Weiping Xiong, Rui Deng. Rational Design of Carbon-Doped Carbon Nitride/Bi<sub>12</sub>O<sub>17</sub>Cl<sub>2</sub> Composites: A Promising Candidate Photocatalyst for Boosting Visible-Light-Driven Photocatalytic Degradation of Tetracycline. *ACS Sustainable Chemistry & Engineering* (SCI 2017 IF=6.140) .2018 .6:6941-6949 (ESI Highly Cited Paper and ESI Hot Paper , ESI Hot Paper 第 2 次上榜)
- 18) Dongbo Wang\*; Yuying Duan; Qi Yang; Yiwen Liu; Bingjie Ni; Qinlin Wang; Guangming Zeng; Xiaoming Li; Zhiguo Yuan. Free Ammonia Enhances Dark Fermentative Hydrogen Production from Waste Activated Sludge. *Water Research*(SCI 2017 IF=7.051). 2018.133: 272-281(ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)
- 19) Biao Song; Piao Xu; Guangming Zeng\*; Jilai Gong\*; Xiaoxiao Wang; Jin Yan; Shengfan Wang; Peng Zhang; Weicheng Cao; Shujing Ye. Modeling the transport of sodium dodecyl benzene sulfonate in riverine sediment in the presence of multi-walled carbon nanotubes. *Water Research*(SCI 2017 IF=7.051). 2018.129:20-28(ESI Hot Paper and ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 1 次上榜)
- 20) 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 /H<sub>2</sub>O<sub>2</sub> 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 2 次上榜)
- 21) Min Cheng<sup>1</sup>, Cui Lai<sup>1</sup>, Yang Liu<sup>1</sup>, Guangming Zeng\*, Danlian Huang\*, Chen Zhang, Lei Qin, Liang Hu, Chengyun Zhou, Weiping Xiong. Metal-organic frameworks for highly efficient heterogeneous Fenton-like catalysis *Coordination Chemistry Reviews*(SCI 2017 IF=14.499).2018. 368:80-92(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
- 22) Longbo Jiang, Xingzhong Yuan\*, Guangming Zeng, Jie Liang\*, Xiaohong Chen, Hanbo Yu, Hou Wang, Zhibin Wu, Jin Zhang, Ting Xiong. In-situ synthesis of direct solid-state dual Z-scheme

WO<sub>3</sub>/g-C<sub>3</sub>N<sub>4</sub>/Bi<sub>2</sub>O<sub>3</sub> photocatalyst for the degradation of refractory pollutant. *Applied Catalysis B: Environmental*(SCI 2017 IF=11.69).2018. 227 : 376 – 385((ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)

- 23) 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 1 次上榜)
- 24) Dongbo Wang\*, Kun Shuai, Qiuxiang Xu, Xuran Liu, Yifu Li, Yiwen Liu, Qilin Wang, Xiaoming Li, Guangming Zeng, Qi Yang. Enhanced short-chain fatty acids production from waste activated sludge by combining calcium peroxide with free ammonia pretreatment. *Bioresource Technology*(SCI 2017 IF=5.807).2018.262:114 – 123(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
- 25) Huan Yi<sup>1</sup>, Danlian Huang<sup>1</sup>, Lei Qin<sup>1</sup>, 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 1 次上榜)
- 26) Yuan Jili, Liu Xia, Tang Yanhong, Zeng Yunxiong, Wang Longlu, Zhang, Shuqu, Cai Tao, Liu Yutang, Luo Shenglian, Pei Yong, Liu Chengbin. Positioning cyanamide defects in g-C<sub>3</sub>N<sub>4</sub>: Engineering energy levels and active sites for superior photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*(SCI 2017 IF=11.69). 2018.237:24-31(ESI Hot Paper, 环境学院刘玉堂研究员和博士生蔡涛与化学化工学院合作成果, ESI Hot Paper 第 1 次上榜 )
- 27) Xiufei Zhao, Chenggang Niu\*, Lei Zhang, Hai Guo, Xiaoju Wen, Chao Liang, Guangming Zeng. Co-Mn layered double hydroxide as an effective heterogeneous catalyst for degradation of organic dyes by activation of Peroxymonosulfate. *Chemosphere* (SCI 2017 IF = 4.427) 中科院分区 2 区, JCR 分区 1 区) .2018. 204:11-21(ESI Highly Cited Paper and ESI Hot Paper )



## 2. Essential Science Indicators for Hot papers for Hunan Univ on 18 Jan 2019



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 By: JIANG, LB; YUAN, XZ; PAN, Y; et.al  
 Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017  
 Research Fields: CHEMISTRY  
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5 **FILLING THE OXYGEN VACANCIES IN CO<sub>3</sub>O<sub>4</sub> WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING** Times Cited: 63  
 By: XIAO, ZH; WANG, Y; HUANG, YC; et.al  
 Source: ENERGY ENVIRON SCI 10 (12): 2563-2569 DEC 2017  
 Research Fields: CHEMISTRY  
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6 **PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW** Times Cited: 60  
 By: ZENG, GM; WAN, J; HUANG, DL; et.al  
 Source: J HAZARD MATER 339: 354-367 OCT 5 2017  
 Research Fields: ENGINEERING  
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7 **A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE** Times Cited: 47  
 By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al  
 Source: NAT ENERGY 2 (9): - SEP 2017  
 Research Fields: ENGINEERING  
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8 **COMBINATION OF FENTON PROCESSES AND BIOTREATMENT FOR WASTEWATER TREATMENT AND SOIL REMEDIATION** Times Cited: 44  
 By: HUANG, DL; HU, CJ; ZENG, GM; et.al  
 Source: SCI TOTAL ENVIR 574: 1599-1610 JAN 1 2017  
 Research Fields: ENVIRONMENT/ECOLOGY  
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9 **SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL** Times Cited: 43  
 By: REN, XY; ZENG, GM; TANG, L; et.al  
 Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018  
 Research Fields: ENVIRONMENT/ECOLOGY  
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10 **HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN** Times Cited: 39  
 By: ZHOU, CY; LAI, C; HUANG, DL; et.al  
 Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018  
 Research Fields: CHEMISTRY  
 ESI Hot

11 **STABILIZATION OF NANOSCALE ZERO-VALENT IRON (NZVI) WITH MODIFIED BIOCHAR FOR CR(VI) REMOVAL FROM AQUEOUS SOLUTION** Times Cited: 38  
 By: DONG, HR; DENG, JM; XIE, YK; et.al  
 Source: J HAZARD MATER 332: 79-86 JUN 15 2017  
 Research Fields: ENGINEERING  
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Hot Papers	
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	<p>13 <b>GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN4C4 SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES</b> Times Cited: 32   ESI Hot            By: FEI, HL; DONG, JC; FENG, YX; et.al            Source: NAT CATAL 1 (1): 63-72 JAN 2018            Research Fields: CHEMISTRY</p>
	<p>14 <b>CELL IMAGING OF DOPAMINE RECEPTOR USING AGONIST LABELING IRIIDIUM(III) COMPLEX</b> Times Cited: 29   ESI Hot            By: VELLAISAMY, K; LI, GD; KO, CN; et.al            Source: CHEM SCI 9 (5): 1119-1125 FEB 7 2018            Research Fields: CHEMISTRY</p>
	<p>15 <b>COMPREHENSIVE EVALUATION OF THE CYTOTOXICITY OF CdSe/ZNS QUANTUM DOTS IN PHANEROCHAETE CHRYSOSPORIUM BY CELLULAR UPTAKE AND OXIDATIVE STRESS</b> Times Cited: 28   ESI Hot            By: HU, L; WAN, J; ZENG, GM; et.al            Source: ENVIRON-SCI NANO 4 (10): 2018-2029 OCT 1 2017            Research Fields: ENVIRONMENT/ECOLOGY</p>

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	<p>17 <b>OXYGEN-DEFICIENT ANATASE TiO<sub>2</sub>@C NANOSPINDLES WITH PSEUDOCAPACITIVE CONTRIBUTION FOR ENHANCING LITHIUM STORAGE</b> Times Cited: 24   ESI Hot            By: DENG, XL; WEI, ZX; CUI, CY; et.al            Source: J MATER CHEM A 6 (9): 4013-4022 MAR 7 2018            Research Fields: MATERIALS SCIENCE</p>
	<p>18 <b>IN SITU GROWN Ag<sub>2</sub>S/Bi<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE LIGHT DEGRADATION OF SULFAMETHAZINE: EFFICIENCY, PATHWAY, AND MECHANISM</b> Times Cited: 22   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</p>

19	<b>RATIONAL DESIGN OF CARBON-DOPED CARBON NITRIDE/BI12O17CL2 COMPOSITES: A PROMISING CANDIDATE PHOTOCATALYST FOR BOOSTING VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC DEGRADATION OF TETRACYCLINE</b>	Times Cited: 22  ESI Hot
By: ZHOU, CY; LAI, C; XU, P; et.al Source: ACS SUSTAIN CHEM ENG 6 (5): 6941-+ MAY 2018 Research Fields: CHEMISTRY		
20	<b>A MULTI-CRITERIA DECISION-MAKING MODEL FOR HOTEL SELECTION WITH LINGUISTIC DISTRIBUTION ASSESSMENTS</b>	Times Cited: 22  ESI Hot
By: YU, SM; WANG, J; WANG, JQ; et.al Source: APPL SOFT COMPUT 67: 741-755 JUN 2018 Research Fields: COMPUTER SCIENCE		
21	<b>CORRELATION STRUCTURE AND EVOLUTION OF WORLD STOCK MARKETS: EVIDENCE FROM PEARSON AND PARTIAL CORRELATION-BASED NETWORKS</b>	Times Cited: 17  ESI Hot
By: WANG, GJ; XIE, C; STANLEY, HE; Source: COMPUT ECON 51 (3): 607-635 MAR 2018 Research Fields: ECONOMICS & BUSINESS		
22	<b>EXTREME RISK SPILLOVER NETWORK: APPLICATION TO FINANCIAL INSTITUTIONS</b>	Times Cited: 16  ESI Hot
By: WANG, GJ; XIE, C; HE, KJ; et.al Source: QUANT FINANC 17 (9): 1417-1433 2017 Research Fields: ECONOMICS & BUSINESS		

23	<b>EFFECT OF EXOGENOUS CARBONACEOUS MATERIALS ON THE BIOAVAILABILITY OF ORGANIC POLLUTANTS AND THEIR ECOLOGICAL RISKS</b>	Times Cited: 13  ESI Hot
By: REN, XY; ZENG, GM; TANG, L; et.al Source: SOIL BIOL BIOCHEM 116: 70-81 JAN 2018 Research Fields: AGRICULTURAL SCIENCES		
24	<b>MULTISCALE CORRELATION NETWORKS ANALYSIS OF THE US STOCK MARKET: A WAVELET ANALYSIS</b>	Times Cited: 12  ESI Hot
By: WANG, GJ; XIE, C; CHEN, S; Source: J ECON INTERACT COORD 12 (3): 561-594 OCT 2017 Research Fields: ECONOMICS & BUSINESS		
25	<b>PLASMA-ASSISTED SYNTHESIS AND SURFACE MODIFICATION OF ELECTRODE MATERIALS FOR RENEWABLE ENERGY</b>	Times Cited: 12  ESI Hot
By: DOU, S; TAO, L; WANG, RL; et.al Source: ADVAN MATER 30 (21): - MAY 24 2018 Research Fields: MATERIALS SCIENCE		

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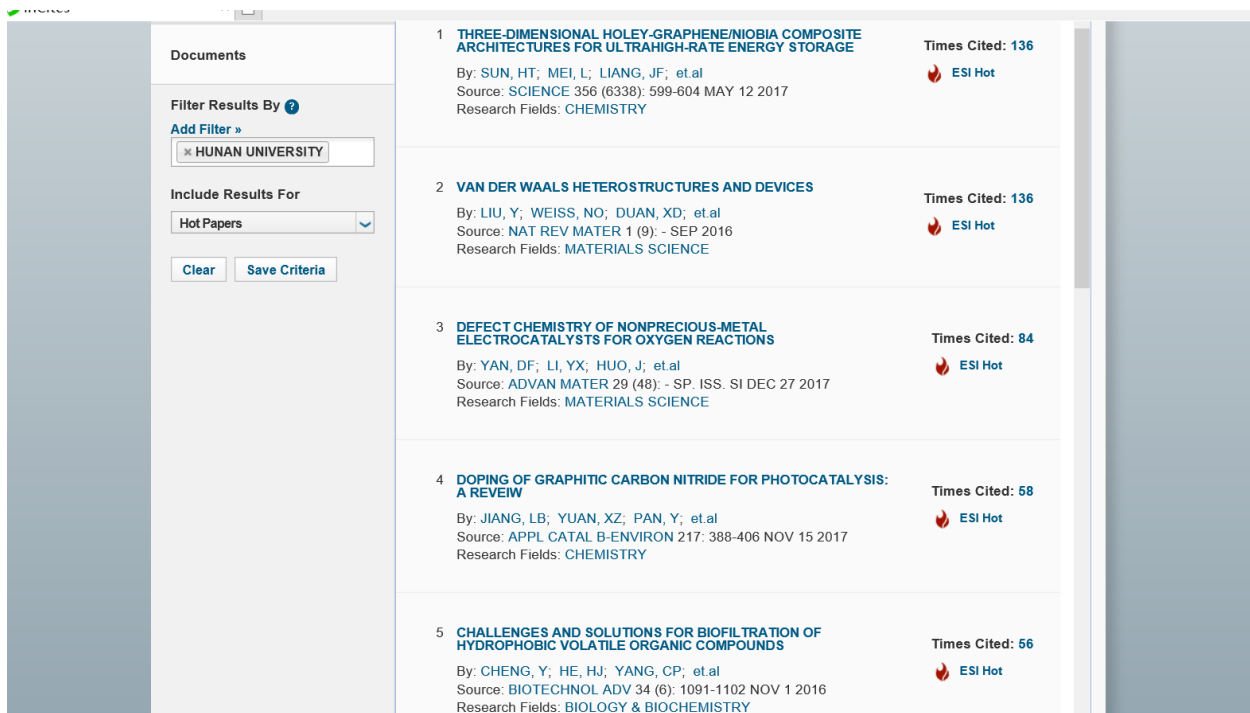
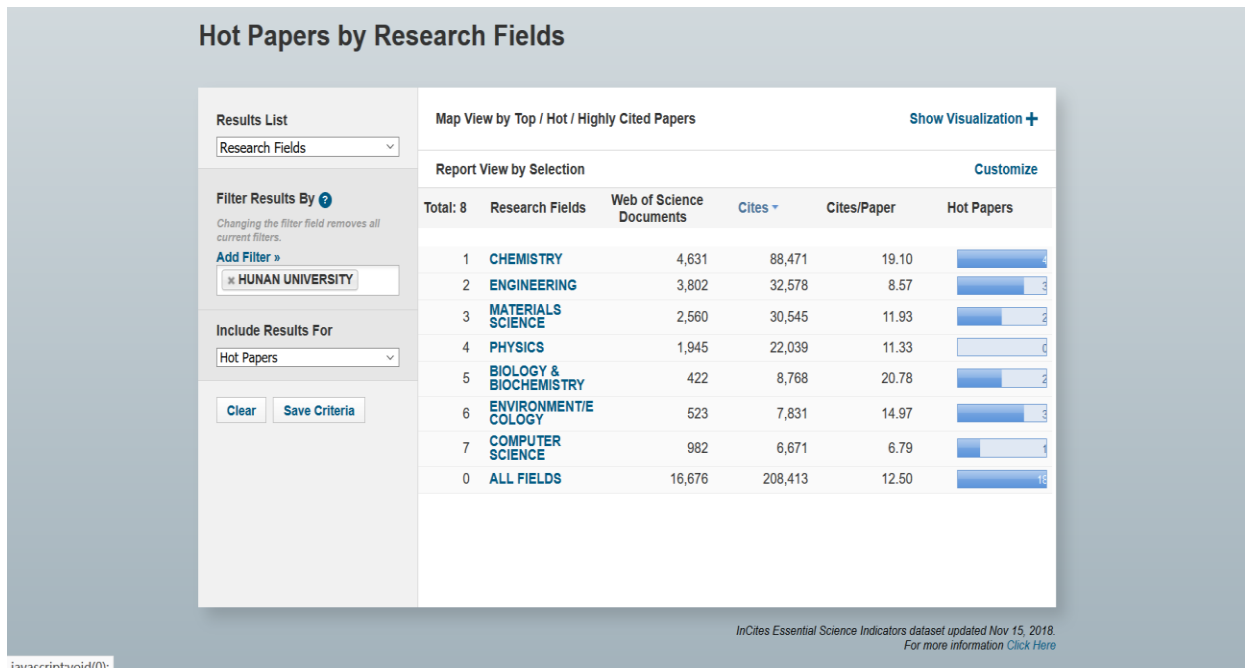
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 By: CHENG, M; ZENG, GM; HUANG, DL; et.al  
 Source: WATER RES 138: 7-18 JUL 1 2018  
 Research Fields: ENVIRONMENT/ECOLOGY  
 Times Cited: 8  
 ESI Hot
  - 27 PLASMONICALLY INDUCED TRANSPARENCY IN DOUBLE-LAYERED GRAPHENE NANORIBBONS**  
 By: XIA, SX; ZHAI, X; WANG, LL; et.al  
 Source: PHOTONICS RES 6 (7): 692-702 JUL 1 2018  
 Research Fields: PHYSICS  
 Times Cited: 8  
 ESI Hot
  - 28 MINIMIZING SLA VIOLATION AND POWER CONSUMPTION IN CLOUD DATA CENTERS USING ADAPTIVE ENERGY-AWARE ALGORITHMS**  
 By: ZHOU, Z; ABAWAJY, J; CHOWDHURY, M; et.al  
 Source: FUTURE GENER COMPUT SYST 86: 836-850 SEP 2018  
 Research Fields: COMPUTER SCIENCE  
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以上 28 篇 Hot Paper 中 有 12 篇是环境学院的论文:

- 1) Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaoheng Deng. Hierarchical assembly of graphene-bridged Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. Applied Catalysis B: Environmental(SCI 2017 IF=11.69). 2017. 200: 330-342 ( ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper, ESI Hot Paper 第 2 次上榜)
- 2) 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 3 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, ESI Hot Paper 第 3 次上榜)
- 4) Danlian Huang\*, Chanjuan Hu, Guangming Zeng\*, Min Cheng, Piao Xu, Xiaomin Gong, Rongzhong Wang, Wenjing Xue. Combination of Fenton processes and biotreatment for wastewater treatment and soil remediation. Science of the Total Environment(SCI 2016 IF=4.9). 2017. 574: 1599-1610( ESI Highly Cited Paper and ESI Research Front and ESI Hot Paper, ESI Hot Paper 第 3 次上榜)
- 5) 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 3 次上榜)
- 6) 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2次上榜)
- 7) Haoran Dong\*, Junmin Deng, Yankai Xie, Cong Zhang, Zhao Jiang, Yujun Cheng, Kunjie Hou, Guangming Zeng. Stabilization of nanoscale zero-valent iron (nZVI) with modified biochar for Cr(VI) removal from aqueous solution. *Journal of Hazardous Materials*(SCI 2017 IF=6.434) . 2017. 332: 79–86(ESI Highly Cited Paper and ESI Research Front and ESI Highly Hot Paper )
  - 8) Liang Hu, Jia Wan, Guangming Zeng\*, Anwei Chen\*, Guiqiu Chen, Zhenzhen Huang, Kai He, Min Cheng, Chengyun Zhou, Weiping Xiong, Cui Lai, Piao Xu. Comprehensive evaluation of the cytotoxicity of CdSe/ZnS quantum dots in *Phanerochaete chrysosporium* by cellular uptake and oxidative stress. *Environmental Science-Nano*(SCI 2017 IF=6.087). 2017.4: 2018-2029 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第2次上榜)
  - 9) 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 Ag/Bi<sub>2</sub>O<sub>3</sub>/Bi<sub>2</sub>WO<sub>6</sub> 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 )
  - 10) Chengyun Zhou<sup>1</sup>, Cui Lai<sup>1</sup>, Piao Xu<sup>1</sup>, Guangming Zeng\*, Danlian Huang\*, Zhihao Li, Chen Zhang, Min Cheng, Liang Hu, Jia Wan, Fei Chen, Weiping Xiong, Rui Deng. Rational Design of Carbon-Doped Carbon Nitride/Bi<sub>2</sub>O<sub>3</sub>/Bi<sub>2</sub>WO<sub>6</sub> Composites: A Promising Candidate Photocatalyst for Boosting Visible-Light-Driven Photocatalytic Degradation of Tetracycline. *ACS Sustainable Chemistry & Engineering* (SCI 2017 IF=6.140) . 2018 .6:6941-6949 (ESI Highly Cited Paper and ESI Hot Paper )
  - 11) 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 )
  - 12) 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 /H<sub>2</sub>O<sub>2</sub> Fenton-like system. *Water Research*(SCI 2017 IF=7.051). 2018. 138:7-18( ESI Highly Cited Paper and ESI Hot Paper )

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By: LI, ST; KANG, XD; FANG, LY; et al Source: INF FUSION 33: 100-112 JAN 2017 Research Fields: COMPUTER SCIENCE		
7	<b>PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW</b>	Times Cited: 47 ESI Hot
By: ZENG, GM; WAN, J; HUANG, DL; et al Source: J HAZARD MATER 339: 354-367 OCT 5 2017 Research Fields: ENGINEERING		
8	<b>A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE</b>	Times Cited: 33 ESI Hot
By: LIANG, X; PANG, Q; KOCHETKOV, IR; et al Source: NAT ENERGY 2 (9): - SEP 2017 Research Fields: ENGINEERING		
9	<b>CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA</b>	Times Cited: 25 ESI Hot
By: ZHANG, YJ; PENG, YL; MA, CQ; et al Source: ENERGETICS POLICY 100: 18-28 JAN 2017 Research Fields: SOCIAL SCIENCES, GENERAL		

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10	<b>RHAMNOLIPID STABILIZED NANO-CHLORAPATITE: SYNTHESIS AND ENHANCEMENT EFFECT ON PB-AND CD-IMMOBILIZATION IN POLLUTED SEDIMENT</b>	Times Cited: 24 ESI Hot
By: WAN, J; ZENG, GM; HUANG, DL; et al Source: J HAZARD MATER 343: 332-339 FEB 5 2018 Research Fields: ENGINEERING		
11	<b>SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL</b>	Times Cited: 21 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		
12	<b>GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN4C4 SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES</b>	Times Cited: 17 ESI Hot
By: FEI, HL; DONG, JC; FENG, YX; et al Source: NAT CATAL 1 (1): 63-72 JAN 2018 Research Fields: CHEMISTRY		
13	<b>MODIFICATION OF BIOCHAR DERIVED FROM SAWDUST AND ITS APPLICATION IN REMOVAL OF TETRACYCLINE AND COPPER FROM AQUEOUS SOLUTION: ADSORPTION MECHANISM AND MODELLING</b>	Times Cited: 14 ESI Hot
By: ZHOU, YY; LIU, XC; XIANG, YJ; et al Source: BIORESOURCE TECHNOLOGICAL 245: 266-273 PART A DEC 2017 Research Fields: BIOLOGY & BIOCHEMISTRY		



14	<b>HIGHLY EFFICIENT VISIBLE-LIGHT-INDUCED PHOTOACTIVITY OF Z-SCHEME Ag<sub>2</sub>CO<sub>3</sub>/Ag/WO<sub>3</sub> PHOTOCATALYSTS FOR ORGANIC POLLUTANT DEGRADATION</b> By: YUAN, XZ; JIANG, LB; CHEN, XH; et.al Source: ENVIRON-SCI NANO 4 (11): 2175-2185 NOV 1 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 9 ESI Hot
15	<b>SCALABLE ONE-STEP PRODUCTION OF POROUS OXYGEN-DOPED G-C<sub>3</sub>N<sub>4</sub> NANORODS WITH EFFECTIVE ELECTRON SEPARATION FOR EXCELLENT VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY</b> By: ZENG, YX; LIU, X; LIU, CB; et.al Source: APPL CATAL B-ENVIRON 224: 1-9 MAY 2018 Research Fields: CHEMISTRY	Times Cited: 7 ESI Hot
16	<b>RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES</b> 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: 7 ESI Hot

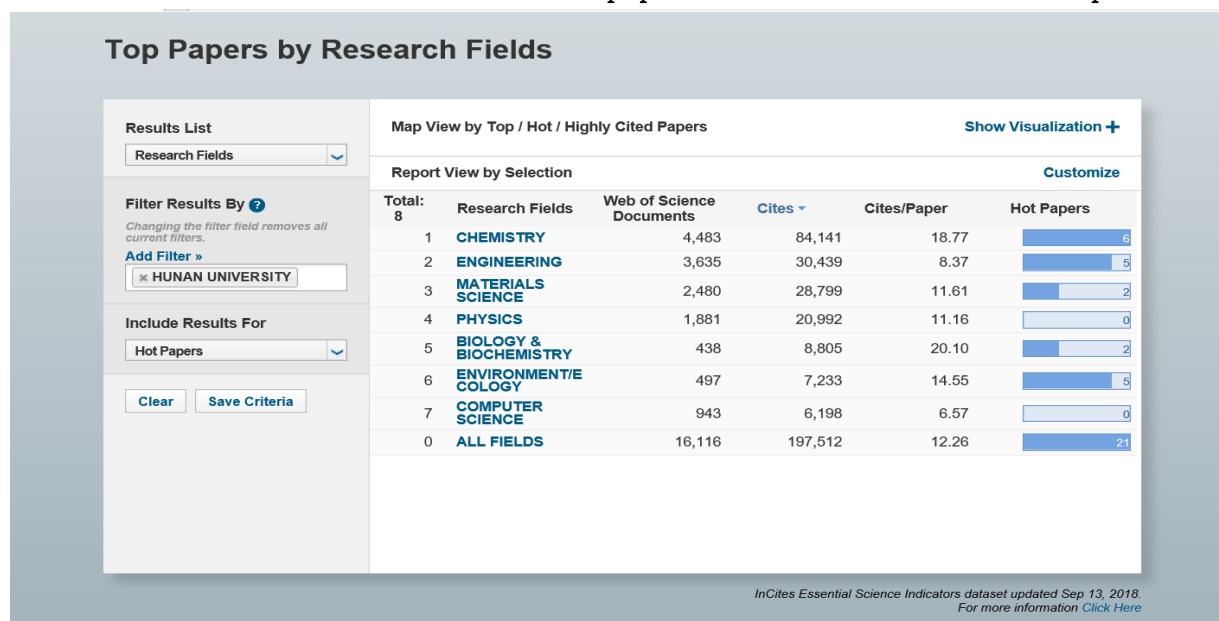
16	<b>RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES</b> By: HE, L; LI, J; LIU, CY; et.al Source: IEEE TRANS GEOSCI REMOT SEN 56 (3): 1579-1597 MAR 2018 Research Fields: GEOSCIENCES	Times Cited: 7 ESI Hot
17	<b>FACTORS INFLUENCING DEGRADATION OF TRICHLOROETHYLENE BY SULFIDE-MODIFIED NANOSCALE ZERO-VALENT IRON IN AQUEOUS SOLUTION</b> By: DONG, HR; ZHANG, C; DENG, JM; et.al Source: WATER RES 135: 1-10 MAY 15 2018 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 4 ESI Hot
18	<b>THE LINKAGES OF SECTORAL CARBON DIOXIDE EMISSION CAUSED BY HOUSEHOLD CONSUMPTION IN CHINA: EVIDENCE FROM THE HYPOTHETICAL EXTRACTION METHOD</b> By: ZHANG, YJ; BIAN, XJ; TAN, WP; Source: EMPIR ECON 54 (4): 1743-1775 JUN 2018 Research Fields: ECONOMICS & BUSINESS	Times Cited: 2 ESI Hot

以上 18 篇 Hot Paper 中 有 8 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 2 次上榜)
- 2) Cheng Y, He HJ, Yang CP\*, Zeng GM\*, Li X, Chen H, Yu GL. Challenges and solutions for biofiltration of hydrophobic volatile organic compounds. Biotechnology Advances (SCI 2017 IF=11.452).2016.34 (6): 1091-1102 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 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, ESI Hot Paper 第 2 次上榜)
- 4) Jia Wan, Guangming Zeng\*, Danlian Huang\*, Liang Hu, Piao Xu, Chao Huang, Rui Deng, Wenjing Xue, Cui Lai, Chengyun Zhou, Kaixuan Zheng, Xiaoya Ren, Xiaomin Gong.Rhamnolipid stabilized nano-chlorapatite: synthesis and enhancement effect on Pb-and Cd-immobilization in polluted sediment.Journal of Hazardous Materials(SCI 2017 IF=6.434). 2018.343:332-339( ESI Highly Cited Paper and Research Front and ESI Hot Paper, ESI Hot Paper 第 2 次上榜)
- 5) 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 2 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*.2017.245:266-273( ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 2 次上榜,环境学院汤琳教授与湖南农大的合作成果)
  - 7) Yuan XZ, Jiang LB, Chen XH, Leng LJ, Wang H, Wu ZB, Xiong T, Liang J, Zeng GM. Highly efficient visible-light-induced photoactivity of Z-scheme Ag<sub>2</sub>CO<sub>3</sub>/Ag/WO<sub>3</sub> photocatalysts for organic pollutant degradation. *Environmental Science-Nano*(SCI 2017 IF=6.087).4(11):2175-2185 (ESI Hot Paper)
  - 8) Haoran Dong; Cong Zhang; Junmin Deng; Zhao Jiang; Lihua Zhang; Yujun Cheng; Kunjie Hou; Lin Tang; Guangming Zeng. Factors influencing degradation of trichloroethylene by sulfide-modified nanoscale zero-valent iron in aqueous solution. *Water Research*(SCI 2017 IF=7.051) . 2018.135:1-10 (ESI Hot Paper)

#### 4. Essential Science Indicators for Hot papers for Hunan Univ on 13 Sep 2018



# Papers by Research Field

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1	<p><b>THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE</b></p> <p>By: SUN, HT; MEI, L; LIANG, JF; et.al                      Source: SCIENCE 356 (6338): 599-604 MAY 12 2017                      Research Fields: CHEMISTRY</p>	<p>Times Cited: 108</p> <p> ESI Hot</p>
2	<p><b>LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS</b></p> <p>By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al                      Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017                      Research Fields: CHEMISTRY</p>	<p>Times Cited: 78</p> <p> ESI Hot</p>
3	<p><b>DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS</b></p> <p>By: YAN, DF; LI, YX; HUO, J; et.al                      Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017                      Research Fields: MATERIALS SCIENCE</p>	<p>Times Cited: 63</p> <p> ESI Hot</p>

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4	<p><b>WATER-PLASMA-ENABLED EXFOLIATION OF ULTRATHIN LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIVACANCIES FOR WATER OXIDATION</b></p> <p>By: LIU, R; WANG, YY; LIU, DD; et.al                      Source: ADVAN MATER 29 (30): - AUG 11 2017                      Research Fields: MATERIALS SCIENCE</p>	<p>Times Cited: 54</p> <p> ESI Hot</p>
5	<p><b>IMMOBILIZATION OF CD IN RIVER SEDIMENTS BY SODIUM ALGINATE MODIFIED NANOSCALE ZERO-VALENT IRON: IMPACT ON ENZYME ACTIVITIES AND MICROBIAL COMMUNITY DIVERSITY</b></p> <p>By: HUANG, DL; XUE, WJ; ZENG, GM; et.al                      Source: WATER RES 106: 15-25 DEC 1 2016                      Research Fields: ENVIRONMENT/ECOLOGY</p>	<p>Times Cited: 45</p> <p> ESI Hot</p>
6	<p><b>CHALLENGES AND SOLUTIONS FOR BIOFILTRATION OF HYDROPHOBIC VOLATILE ORGANIC COMPOUNDS</b></p> <p>By: CHENG, Y; HE, HJ; YANG, CP; et.al                      Source: BIOTECHNOL ADV 34 (6): 1091-1102 NOV 1 2016                      Research Fields: BIOLOGY &amp; BIOCHEMISTRY</p>	<p>Times Cited: 45</p> <p> ESI Hot</p>

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	<p>8 <b>PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW</b></p> <p>By: ZENG, GM; WAN, J; HUANG, DL; et.al Source: J HAZARD MATER 339: 354-367 OCT 5 2017 Research Fields: ENGINEERING</p> <p>Times Cited: 39  ESI Hot</p>
	<p>9 <b>SRTiO3 NANOCUBES DECORATED WITH Ag/AgCl NANOPARTICLES AS PHOTOCATALYSTS WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY TOWARDS THE DEGRADATION OF DYES, PHENOL AND BISPHENOL A</b></p> <p>By: YANG, SF; NIU, CG; HUANG, DW; et.al Source: ENVIRON-SCI NANO 4 (3): 585-595 MAR 1 2017 Research Fields: ENVIRONMENT/ECOLOGY</p> <p>Times Cited: 37  ESI Hot</p>
	<p>10 <b>FILLING THE OXYGEN VACANCIES IN CO3O4 WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING</b></p> <p>By: XIAO, ZH; WANG, Y; HUANG, YC; et.al Source: ENERGY ENVIRON SCI 10 (12): 2563-2569 DEC 2017 Research Fields: CHEMISTRY</p> <p>Times Cited: 30  ESI Hot</p>

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	<p>12 <b>EFFECT OF PHANEROCHAETE CHRYSOSPORIUM INOCULATION ON BACTERIAL COMMUNITY AND METAL STABILIZATION IN LEAD-CONTAMINATED AGRICULTURAL WASTE COMPOSTING</b></p> <p>By: HUANG, C; ZENG, GM; HUANG, DL; et.al Source: BIORESOURCE TECHNOL 243: 294-303 NOV 2017 Research Fields: BIOLOGY &amp; BIOCHEMISTRY</p> <p>Times Cited: 19  ESI Hot</p>
	<p>13 <b>THEORETICAL, NUMERICAL, AND EXPERIMENTAL STUDY ON LATERALLY VARIABLE THICKNESS (LVT) MULTI-CELL TUBES FOR CRASHWORTHINESS</b></p> <p>By: ZHENG, G; PANG, T; SUN, GY; et.al Source: INT J MECH SCI 118: 283-297 NOV 2016 Research Fields: ENGINEERING</p> <p>Times Cited: 18  ESI Hot</p>

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	<p>15 <b>DIRECTIONAL GROWTH OF ULTRALONG CSPBBR3 PEROVSKITE NANOWIRES FOR HIGH-PERFORMANCE PHOTODETECTORS</b></p> <p>By: SHOAIB, M; ZHANG, XH; WANG, XX; et.al Source: J AM CHEM SOC 139 (44): 15592-15595 NOV 8 2017 Research Fields: CHEMISTRY</p> <p>Times Cited: 16  ESI Hot</p>
	<p>16 <b>RHAMNOLIPID STABILIZED NANO-CHLORAPATITE: SYNTHESIS AND ENHANCEMENT EFFECT ON Pb-AND Cd-IMMOBILIZATION IN POLLUTED SEDIMENT</b></p> <p>By: WAN, J; ZENG, GM; HUANG, DL; et.al Source: J HAZARD MATER 343: 332-339 FEB 5 2018 Research Fields: ENGINEERING</p> <p>Times Cited: 15  ESI Hot</p>

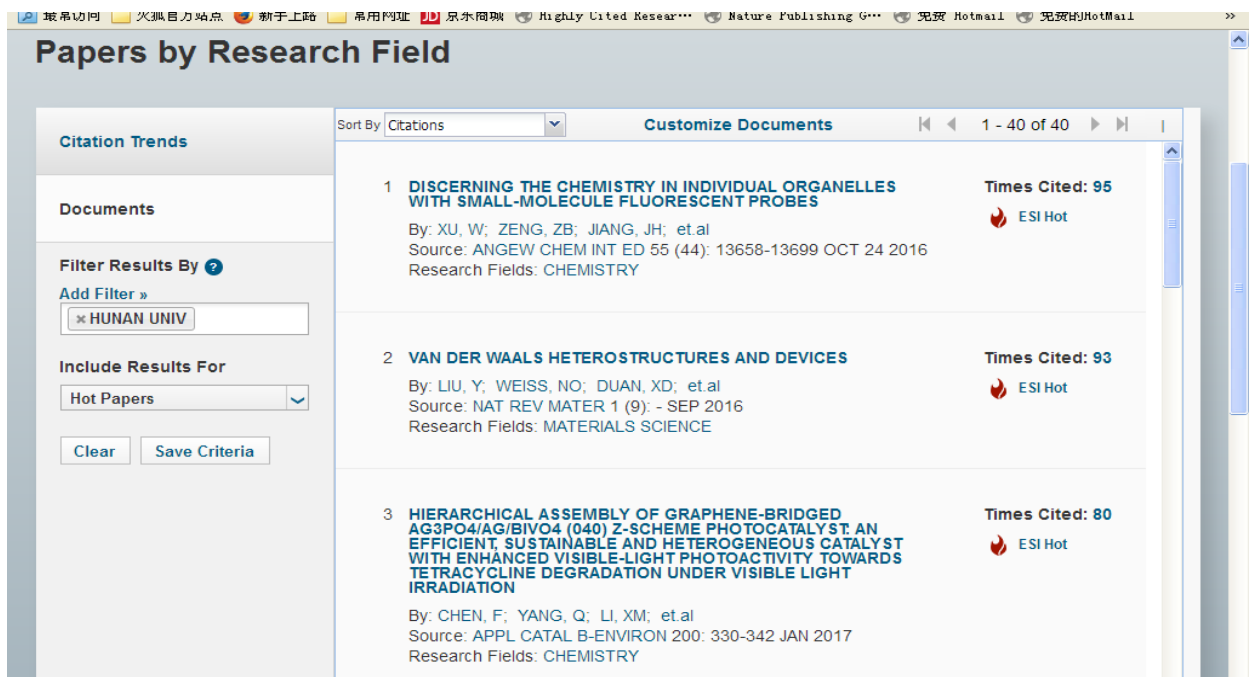
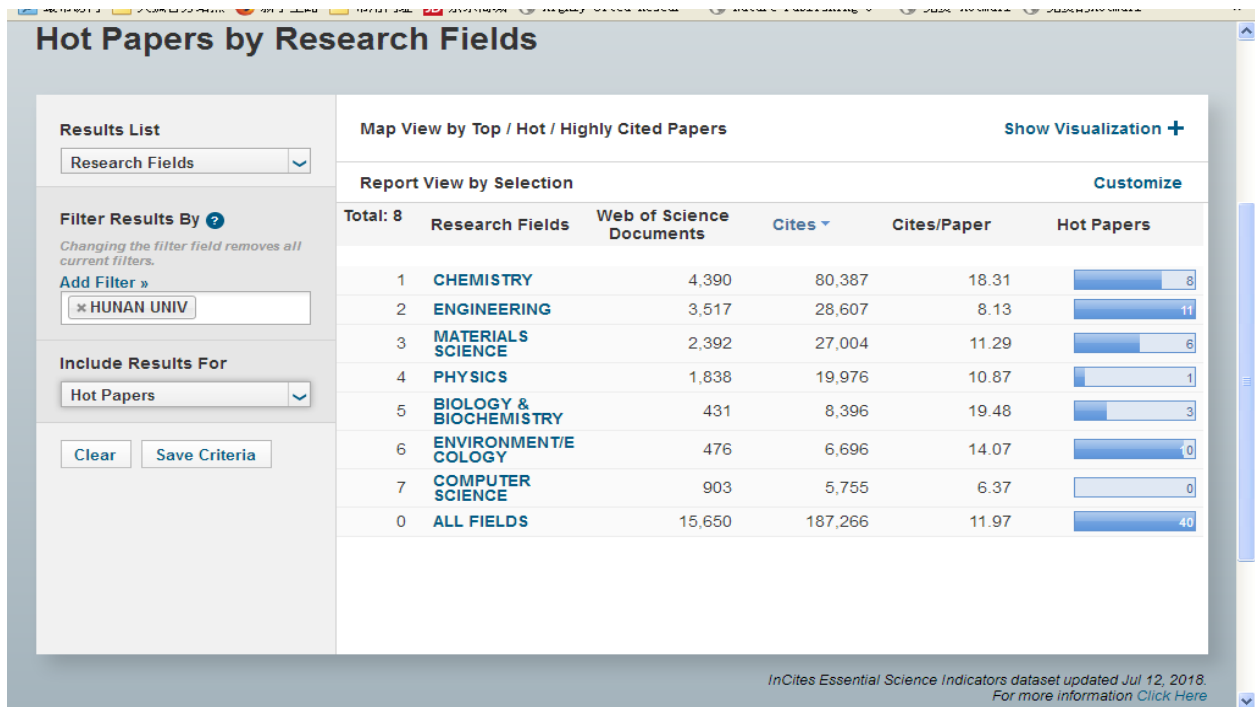
	<p>17 <b>HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN</b></p> <p>By: ZHOU, CY; LAI, C; HUANG, DL; et.al Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018 Research Fields: CHEMISTRY</p>	<p>Times Cited: 13 ESI Hot</p>
	<p>18 <b>SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL</b></p> <p>By: REN, XY; ZENG, GM; TANG, L; et.al Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY</p>	<p>Times Cited: 12 ESI Hot</p>
	<p>19 <b>CORRELATION STRUCTURE AND EVOLUTION OF WORLD STOCK MARKETS: EVIDENCE FROM PEARSON AND PARTIAL CORRELATION-BASED NETWORKS</b></p> <p>By: WANG, GJ; XIE, C; STANLEY, HE; Source: COMPUT ECON 51 (3): 607-635 MAR 2018 Research Fields: ECONOMICS &amp; BUSINESS</p>	<p>Times Cited: 10 ESI Hot</p>
	<p>20 <b>FARADAIC REACTIONS IN CAPACITIVE DEIONIZATION (CDI) - PROBLEMS AND POSSIBILITIES: A REVIEW</b></p> <p>By: ZHANG, CY; HE, D; MA, JX; et.al Source: WATER RES 128: 314-330 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY</p>	<p>Times Cited: 9 ESI Hot</p>
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以上 21 篇 Hot Paper 中 有 11 篇是环境学院的论文:

- 1) Danlian Huang\*, Wenjing Xue, Guangming Zeng\*, Jia Wan, Guomin Chen, Chao Huang, Chen Zhang, Min Cheng, Piao Xu. Immobilization of Cd in river sediments by sodium alginate modified nanoscale zero-valent iron: Impact on enzyme activities and microbial community diversity. Water Research (SCI 2017 IF=7.051).2016. 106: 15-25 (ESI Hot Paper and ESI Highly Cited Paper )
- 2) Cheng Y, He HJ, Yang CP\*, Zeng GM\*, Li X, Chen H, Yu GL. Challenges and solutions for biofiltration of hydrophobic volatile organic compounds. Biotechnology Advances (SCI 2017 IF=11.452).2016.34 (6): 1091-1102 (ESI Hot Paper and ESI Highly Cited Paper )
- 3) 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)
- 4) 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)
- 5) Shi-Feng Yang,Cheng-Gang Niu,\* Da-Wei Huang, Huan Zhang,Chao Liang and Guang-Ming Zeng\*. SrTiO3 nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. Environmental Science-Nano(SCI 2017 IF=6.087). 2017. 4:585–595(ESI Highly Cited Paper and ESI Hot Paper )

- 6) Chao Huang, Guangming Zeng\* , Danlian Huang, Cui Lai, Piao Xu, Chen Zhang, Min Chen , Jia Wan, Liang Hu, Yi Zhang.Effect of Phanerochaete chrysosporium Phanerochaete chrysosporium inoculation on bacterial community and metal stabilization in lead -contaminated agricultural waste composting.Bioresource Technology(SCI 2017 IF=5.807).2017.243:294-303( ESI Hot Paper)
- 7) Jie Liang\*, Zhaoxue Yang, Lin Tang, Guangming Zeng, Man Yu, Xiaodong Li, Haipeng Wu, Yingying Qian, Xuemei Li, Yuan Luo. Changes in heavy metal mobility and availability from contaminated wetland soil remediated with combined biochar-compost. Chemosphere (SCI 2017 IF = 4.427) . 2017. 181 : 281-288(ESI Hot Paper )
- 8) Jia Wan, Guangming Zeng\*, Danlian Huang\*, Liang Hu, Piao Xu, Chao Huang, Rui Deng, Wenjing Xue, Cui Lai, Chengyun Zhou, Kaixuan Zheng, Xiaoya Ren, Xiaomin Gong.Rhamnolipid stabilized nano-chlorapatite: synthesis and enhancement effect on Pb-and Cd-immobilization in polluted sediment.Journal of Hazardous Materials(SCI 2017 IF=6.434). 2018.343:332-339( ESI Highly Cited Paper and Research Front and ESI Hot Paper)
- 9) 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 )
- 10) 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 )
- 11) Zhang Changyong, He Di, Ma Jinxing, Tang Wangwang, Waite T. David\*.Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review.(Tang Wangwang 副教授博士与 Univ New South Wales 的 Waite T. David 教授的合作论文)

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 By: SUN, HT; MEI, L; LIANG, JF; et al  
 Source: SCIENCE 356 (6338): 599-604 MAY 12 2017  
 Research Fields: CHEMISTRY

5 **IN SITU SYNTHESIS OF IN<sub>2</sub>S<sub>3</sub>@MIL-125(TI) CORE-SHELL MICROPARTICLE FOR THE REMOVAL OF TETRACYCLINE FROM WASTEWATER BY INTEGRATED ADSORPTION AND VISIBLE-LIGHT-DRIVEN PHOTOCATALYSIS** Times Cited: 71  
 By: WANG, H; YUAN, XZ; WU, Y; et al  
 Source: APPL CATAL B-ENVIRON 186: 19-29 JUN 5 2016  
 Research Fields: CHEMISTRY

6 **EFFICACY OF CARBONACEOUS NANOCOMPOSITES FOR SORBING IONIZABLE ANTIBIOTIC SULFAMETHAZINE FROM AQUEOUS SOLUTION** Times Cited: 62  
 By: ZHANG, C; LAI, C; ZENG, GM; et al  
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7 **LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS** Times Cited: 61  
 By: WANG, YY; ZHANG, YQ; LIU, ZJ; et al  
 Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017  
 Research Fields: CHEMISTRY

8 **IN SITU EXFOLIATED, EDGE-RICH, OXYGEN-FUNCTIONALIZED GRAPHENE FROM CARBON FIBERS FOR OXYGEN ELECTROCATALYSIS** Times Cited: 57  
 By: LIU, ZJ; ZHAO, ZH; WANG, YY; et al  
 Source: ADVAN MATER 29 (18): - MAY 10 2017  
 Research Fields: MATERIALS SCIENCE

9 **SELECTIVE VISUALIZATION OF THE ENDOGENOUS PEROXYNITRITE IN AN INFLAMED MOUSE MODEL BY A MITOCHONDRIA-TARGETABLE TWO-PHOTON RATIO-METRIC FLUORESCENT PROBE** Times Cited: 55  
 By: CHENG, D; PAN, Y; WANG, L; et al  
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 By: YAN, DF; LI, YX; HUO, J; et al  
 Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017  
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11 **WATER-PLASMA-ENABLED EXFOLIATION OF ULTRATHIN LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIVACANCIES FOR WATER OXIDATION** Times Cited: 37  
 By: LIU, R; WANG, YY; LIU, DD; et al  
 Source: ADVAN MATER 29 (30): - AUG 11 2017  
 Research Fields: MATERIALS SCIENCE

12 **IMMOBILIZATION OF CD IN RIVER SEDIMENTS BY SODIUM ALGINATE MODIFIED NANOSCALE ZERO-VALENT IRON: IMPACT ON ENZYME ACTIVITIES AND MICROBIAL COMMUNITY DIVERSITY** Times Cited: 33  
 By: HUANG, DL; XUE, WJ; ZENG, GM; et al  
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14	<b>PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW</b> By: ZENG, GM; WAN, J; HUANG, DL; et.al Source: J HAZARD MATER 339: 354-367 OCT 5 2017 Research Fields: ENGINEERING	Times Cited: 29 ESI Hot
15	<b>ATOMIC-SCALE COOX SPECIES IN METAL-ORGANIC FRAMEWORKS FOR OXYGEN EVOLUTION REACTION</b> By: DOU, S; DONG, CL; HU, Z; et.al Source: ADV FUNCT MATER 27 (36): - SEP 26 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 29 ESI Hot
16	<b>DEGRADATION OF ATRAZINE BY A NOVEL FENTON-LIKE PROCESS AND ASSESSMENT THE INFLUENCE ON THE TREATED SOIL</b> By: CHENG, M; ZENG, GM; HUANG, DL; et.al Source: J HAZARD MATER 312: 184-191 JUL 15 2016 Research Fields: ENGINEERING	Times Cited: 29 ESI Hot

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17	<b>PARAMETERIZATION OF CRISS-CROSS CONFIGURATIONS FOR MULTIOBJECTIVE CRASHWORTHINESS OPTIMIZATION</b> By: SUN, GY; PANG, T; FANG, JG; et.al Source: INT J MECH SCI 124: 145-157 MAY 2017 Research Fields: ENGINEERING	Times Cited: 28 ESI Hot
18	<b>ROBUST EPITAXIAL GROWTH OF TWO-DIMENSIONAL HETEROSTRUCTURES, MULTIHETEROSTRUCTURES, AND SUPERLATTICES</b> By: ZHANG, ZW; CHEN, P; DUAN, XD; et.al Source: SCIENCE 357 (6353): 788-+ AUG 25 2017 Research Fields: PHYSICS	Times Cited: 28 ESI Hot
19	<b>SrTiO<sub>3</sub> NANOCUBES DECORATED WITH Ag/AgCl NANOPARTICLES AS PHOTOCATALYSTS WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY TOWARDS THE DEGRADATION OF DYES, PHENOL AND BISPHENOL A</b> By: YANG, SF; NIU, CG; HUANG, DW; et.al Source: ENVIRON-SCI NANO 4 (3): 585-595 MAR 1 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 25 ESI Hot
20	<b>IS DENITRIFYING ANAEROBIC METHANE OXIDATION-CENTERED TECHNOLOGIES A SOLUTION FOR THE SUSTAINABLE OPERATION OF WASTEWATER TREATMENT PLANTS?</b> By: WANG, DB; WANG, YL; LIU, YW; et.al Source: BIORESOURCE TECHNOL 234: 456-465 JUN 2017 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 25 ESI Hot

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21	<b>SYNTHESIS AND EVALUATION OF A NEW CLASS OF STABILIZED NANO-CHLORAPATITE FOR PB IMMOBILIZATION IN SEDIMENT</b> By: WAN, J; ZHANG, C; ZENG, GM; et.al Source: J HAZARD MATER 320: 278-288 DEC 15 2016 Research Fields: ENGINEERING	Times Cited: 24  ESI Hot
22	<b>COMBINATION OF FENTON PROCESSES AND BIOTREATMENT FOR WASTEWATER TREATMENT AND SOIL REMEDIATION</b> By: HUANG, DL; HU, CJ; ZENG, GM; et.al Source: SCI TOTAL ENVIR 574: 1599-1610 JAN 1 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 21  ESI Hot
23	<b>APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION</b> By: WANG, DB; LIU, YW; NGO, HH; et.al Source: BIORESOURCE TECHNOL 238: 343-351 AUG 2017 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 20  ESI Hot
24	<b>ADVANTAGES AND CHALLENGES OF TWEEN 80 SURFACTANT-ENHANCED TECHNOLOGIES FOR THE REMEDIATION OF SOILS CONTAMINATED WITH HYDROPHOBIC ORGANIC COMPOUNDS</b> By: CHENG, M; ZENG, GM; HUANG, DL; et.al Source: CHEM ENG J 314: 98-113 APR 15 2017 Research Fields: ENGINEERING	Times Cited: 20  ESI Hot

25	<b>FILLING THE OXYGEN VACANCIES IN CO<sub>3</sub>O<sub>4</sub> WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING</b> By: XIAO, ZH; WANG, Y; HUANG, YC; et.al Source: ENERGY ENVIRON SCI 10 (12): 2563-2569 DEC 2017 Research Fields: CHEMISTRY	Times Cited: 20  ESI Hot
26	<b>EVALUATION METHODS FOR ASSESSING EFFECTIVENESS OF IN SITU REMEDIATION OF SOIL AND SEDIMENT CONTAMINATED WITH ORGANIC POLLUTANTS AND HEAVY METALS</b> By: SONG, B; ZENG, GM; GONG, JL; et.al Source: ENVIRON INT 105: 43-55 AUG 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 18  ESI Hot
27	<b>THE EFFECTS OF RICE STRAW BIOCHAR ON INDIGENOUS MICROBIAL COMMUNITY AND ENZYMES ACTIVITY IN HEAVY METAL-CONTAMINATED SEDIMENT</b> By: HUANG, DL; LIU, LS; ZENG, GM; et.al Source: CHEMOSPHERE 174: 545-553 MAY 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 17  ESI Hot

	<p>28 <b>AGED REFUSE ENHANCES ANAEROBIC DIGESTION OF WASTE ACTIVATED SLUDGE</b></p> <p>By: ZHAO, JW; GUI, L; WANG, QL; et.al  Source: WATER RES 123: 724-733 OCT 15 2017  Research Fields: ENVIRONMENT/ECOLOGY</p>	<p>Times Cited: 17</p> <p> ESI Hot</p>
	<p>29 <b>A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE</b></p> <p>By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al  Source: NAT ENERGY 2 (9): - SEP 2017  Research Fields: ENGINEERING</p>	<p>Times Cited: 16</p> <p> ESI Hot</p>
	<p>30 <b>A HYPER-CHAOS-BASED IMAGE ENCRYPTION ALGORITHM USING PIXEL-LEVEL PERMUTATION AND BIT-LEVEL PERMUTATION</b></p> <p>By: LI, YP; WANG, CH; CHEN, H;  Source: OPT LASER ENG 90: 238-246 MAR 2017  Research Fields: ENGINEERING</p>	<p>Times Cited: 13</p> <p> ESI Hot</p>
	<p>31 <b>UNDERSTANDING AND MITIGATING THE TOXICITY OF CADMIUM TO THE ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE</b></p> <p>By: XU, QX; LI, XM; DING, RR; et.al  Source: WATER RES 124: 269-279 NOV 1 2017  Research Fields: ENVIRONMENT/ECOLOGY</p>	<p>Times Cited: 13</p> <p> ESI Hot</p>

	<p>32 <b>EFFECT OF PHANEROCHAETE CHRYSOSPORIUM INOCULATION ON BACTERIAL COMMUNITY AND METAL STABILIZATION IN LEAD-CONTAMINATED AGRICULTURAL WASTE COMPOSTING</b></p> <p>By: HUANG, C; ZENG, GM; HUANG, DL; et.al  Source: BIORESOURCE TECHNOL 243: 294-303 NOV 2017  Research Fields: BIOLOGY &amp; BIOCHEMISTRY</p>	<p>Times Cited: 11</p> <p> ESI Hot</p>
	<p>33 <b>EFFECT OF DIFFERENT TECHNOLOGIES ON COMBUSTION AND EMISSIONS OF THE DIESEL ENGINE FUELED WITH BIODIESEL: A REVIEW</b></p> <p>By: JIAQIANG, E; PHAM, M; ZHAO, D; et.al  Source: RENEW SUSTAIN ENERGY REV 80: 620-647 DEC 2017  Research Fields: ENGINEERING</p>	<p>Times Cited: 11</p> <p> ESI Hot</p>
	<p>34 <b>COMPREHENSIVE EVALUATION OF THE CYTOTOXICITY OF CdSe/ZnS QUANTUM DOTS IN PHANEROCHAETE CHRYSOSPORIUM BY CELLULAR UPTAKE AND OXIDATIVE STRESS</b></p> <p>By: HU, L; WAN, J; ZENG, GM; et.al  Source: ENVIRON-SCI NANO 4 (10): 2018-2029 OCT 1 2017  Research Fields: ENVIRONMENT/ECOLOGY</p>	<p>Times Cited: 10</p> <p> ESI Hot</p>

35	<b>METAL-FREE CARBON MATERIALS FOR CO<sub>2</sub> ELECTROCHEMICAL REDUCTION</b> By: DUAN, XC; XU, JT; WEI, ZX; et.al Source: ADVAN MATER 29 (41): - NOV 6 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 9 ESI Hot
36	<b>TRICLOCARBAN ENHANCES SHORT-CHAIN FATTY ACIDS PRODUCTION FROM ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE</b> By: WANG, YL; WANG, DB; LIU, YW; et.al Source: WATER RES 127: 150-161 DEC 15 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 8 ESI Hot
37	<b>RHAMNOLIPID STABILIZED NANO-CHLORAPATITE: SYNTHESIS AND ENHANCEMENT EFFECT ON PB-AND CD-IMMOBILIZATION IN POLLUTED SEDIMENT</b> By: WAN, J; ZENG, GM; HUANG, DL; et.al Source: J HAZARD MATER 343: 332-339 FEB 5 2018 Research Fields: ENGINEERING	Times Cited: 7 ESI Hot
38	<b>HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN</b> By: ZHOU, CY; LAI, C; HUANG, DL; et.al Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018 Research Fields: CHEMISTRY	Times Cited: 6 ESI Hot

39	<b>EFFECT ANALYSIS ON FLOW AND BOILING HEAT TRANSFER PERFORMANCE OF COOLING WATER-JACKET OF BEARING IN THE GASOLINE ENGINE TURBOCHARGER</b> By: JIAQIANG, E; ZHANG, ZQ; TU, ZF; et.al Source: APPL THERM ENG 130: 754-766 FEB 5 2018 Research Fields: ENGINEERING	Times Cited: 4 ESI Hot
40	<b>UNDERSTANDING THE MECHANISMS OF HOW POLY ALUMINIUM CHLORIDE INHIBITS SHORT-CHAIN FATTY ACIDS PRODUCTION FROM ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE</b> By: CHEN, YN; WU, YX; WANG, DB; et.al Source: CHEM ENG J 334: 1351-1360 FEB 15 2018 Research Fields: ENGINEERING	Times Cited: 4 ESI Hot

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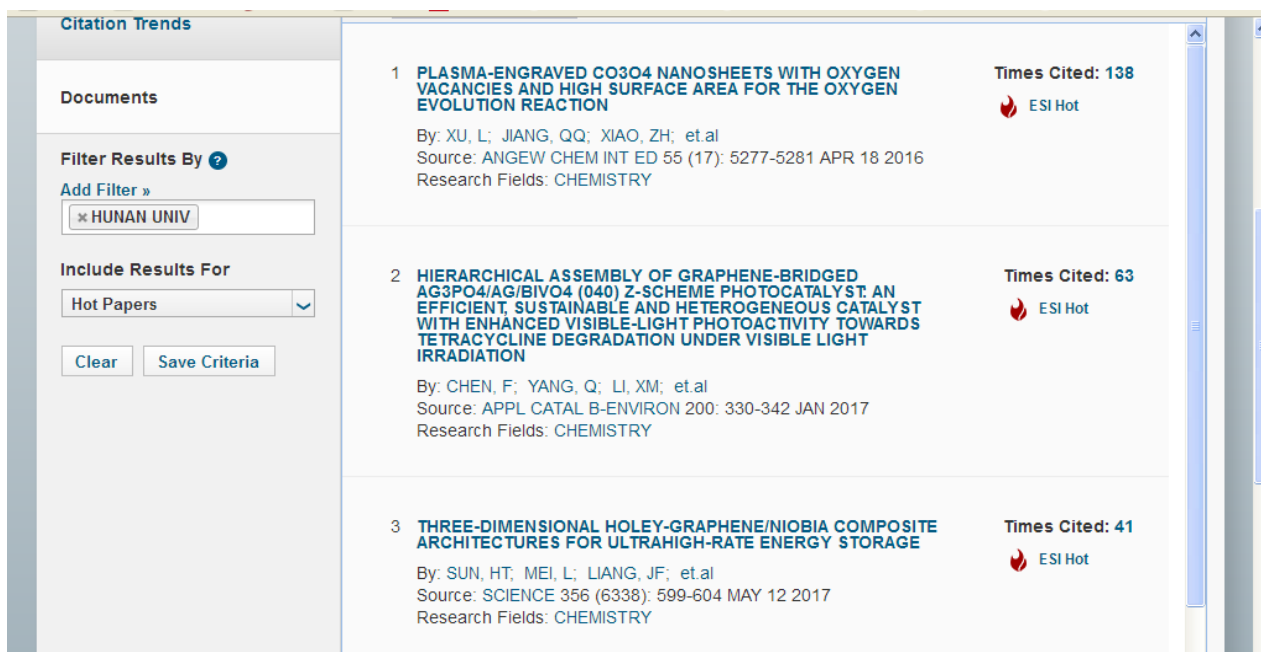
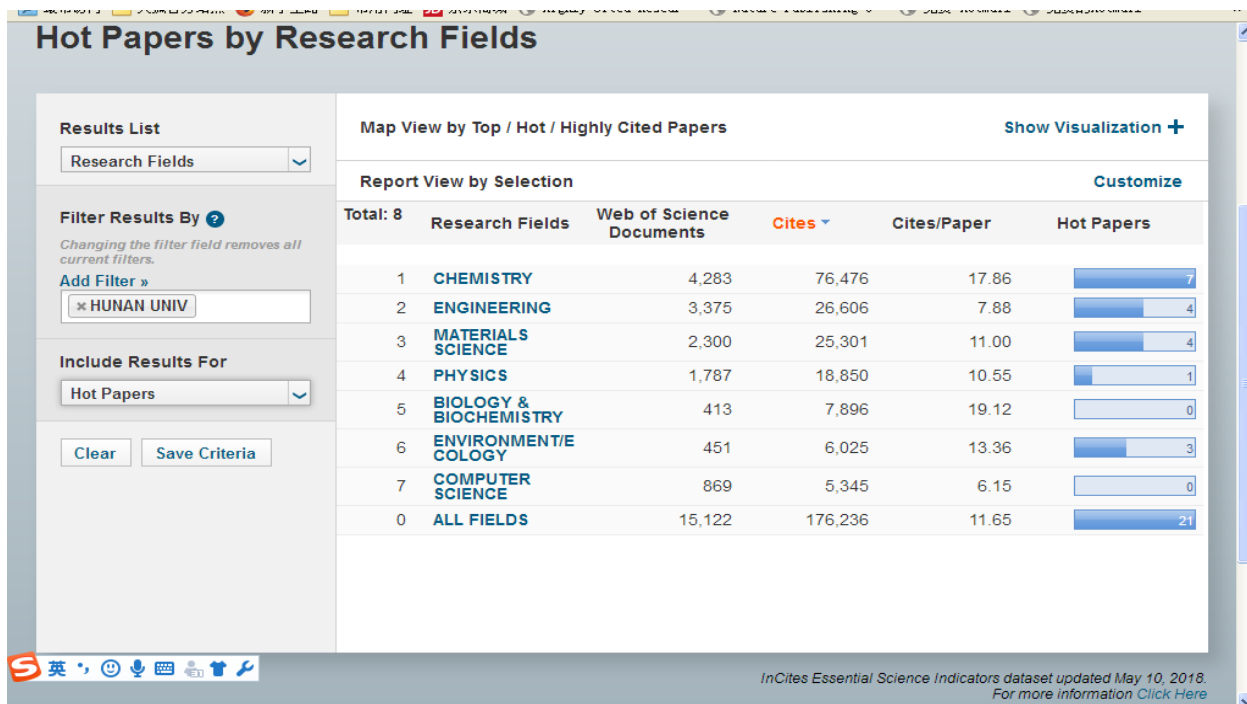
- 1) Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. Applied Catalysis B: Environmental(SCI 2017 IF=11.69). 2017. 200: 330-342 ( **ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper** )
- 2) Hou Wang, Xingzhong Yuan\*, Yan Wu, Guangming Zeng, Haoran Dong, Xiaohong Chen, Lijian Leng, Zhibin Wu, Lijuan Peng. In situ synthesis of In<sub>2</sub>S<sub>3</sub>@MIL-125(Ti) core-shell microparticle for the removal of tetracycline from wastewater by integrated adsorption and visible-light-driven photocatalysis. APPLIED CATALYSIS B: ENVIRONMENTAL(SCI 2017 IF=11.69) . 2016. 186:19-29 ( **ESI Highly Cited Paper and ESI Research Front** )
- 3) Chen Zhang, Cui Lai, Guang-Ming Zeng\*, Dan-Lian Huang\*, Chunping Yang, Yang Wang, Yao-Yu Zhou, Min Cheng. Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from

- aqueous solution. *Water Research*(SCI 2017 IF=7.051) . 2016.95:103-112(**ESI Hot Paper , ESI Highly Cited Paper and ESI Research Front; 2016 年中国百篇最具影响国际学术论文 )**)
- 4) Danlian Huang\*, Wenjing Xue, Guangming Zeng\*, Jia Wan, Guomin Chen, Chao Huang, Chen Zhang, Min Cheng, Piao Xu. Immobilization of Cd in river sediments by sodium alginate modified nanoscale zero-valent iron: Impact on enzyme activities and microbial community diversity. *Water Research* (SCI 2017 IF=7.051).2016. 106: 15-25 (**ESI Hot Paper and ESI Highly Cited Paper** )
  - 5) 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 2016 IF=6.065) . 2017. 339:354-367 ( **ESI Hot Paper and ESI Highly Cited Paper** )
  - 6) Min Cheng, Guangming Zeng, Danlian Huang, Cui Lai, Piao Xu, Chen Zhang, Jia Wan, Xiaomin Gong, Yang Liu, Chao Huang. Degradation of atrazine by a cost-effective Fenton-like process and assessment the influence on the treated soil. *Journal of Hazardous Materials* (SCI 2016 IF=6.065) .2016.312:184-191(**ESI Hot Paper and ESI Highly Cited Paper**)
  - 7) Shi-Feng Yang, Cheng-Gang Niu,\* Da-Wei Huang, Huan Zhang,Chao Liang and Guang-Ming Zeng\*. SrTiO<sub>3</sub> nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. *Environmental Science-Nano*(SCI 2017 IF=6.087). 2017. 4:585–595(**ESI Highly Cited Paper and ESI Hot Paper** )
  - 8) Dongbo Wang\*, Yali Wang, Yiwen Liu, Huo Hao Ngo, Yu Lian, Jianwei Zhao, Fei Chen, Qi Yang, Guangming Zeng, Xiaoming Li. Is Denitrifying Anaerobic Methane Oxidation-Centered Technologies a Solution for the Sustainable Operation of Wastewater Treatment Plants? *Bioresource Technology*(SCI 2017 IF=5.807). 2017. 234: 456-465(**ESI Highly Cited Paper and ESI Research Front and ESI Hot Paper**)
  - 9) Jia Wan, Chang Zhang, Guangming Zeng\*, Danlian Huang, Liang Hu, Chao Huang, Haipeng Wu, Lele Wang.Synthesis and evaluation of a new class of stabilized nanochlorapatite for Pb immobilization in sediment. *Journal of Hazardous Materials* (SCI 2016 IF=6.065) . 2016.320:278-288 (**ESI Hot Paper and ESI Highly Cited Paper**)
  - 10) Danlian Huang\*, Chanjuan Hu, Guangming Zeng\*, Min Cheng, Piao Xu, Xiaomin Gong, Rongzhong Wang, Wenjing Xue. Combination of Fenton processes and biotreatment for wastewater treatment and soil remediation. *Science of the Total Environment*(SCI 2016 IF=4.9). 2017. 574: 1599–1610(**ESI Highly Cited Paper and ESI Research Front and ESI Hot Paper**)
  - 11) Dongbo Wang, Yiwen Liu, Huo Hao Ngo\*, Chang Zhang, Qi Yang, Lai Peng, Dandan He,Guangming Zeng, Xiaoming Li, Bing-Jie Ni. Approach of describing dynamic production of volatile fatty acids from sludge alkaline fermentation. *Bioresource Technology*(SCI 2017 IF=5.807). 2017. 238 :343–351(**ESI Hot Paper and ESI Highly Cited Paper** )
  - 12) Min Cheng, Guangming Zeng\*, Danlian Huang\*, Chunping Yang, Cui Lai, Chen Zhang, Yang Liu.Advantages and challenges of Tween 80 surfactant-enhanced technologies for the remediation of soils contaminated with hydrophobic organic compounds. *Chemical Engineering Journal*(SCI 2017 IF=6.735). 2017. 314: 98-113 (**ESI Highly Cited Paper and Research Front and ESI Hot Paper**)
  - 13) 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 2017 IF=7.297) . 2017.105: 43-55 (**ESI Highly Cited Paper and Research Front and ESI Hot Paper**)

- 14) Danlian Huang\*, Linshan Liu, Guangming Zeng, Piao Xu, Chao Huang, Linjing Deng, Rongzhong Wang, Jia Wan. The effects of rice straw biochar on indigenous microbial community and enzymes activity in heavy metal-contaminated sediment. *Chemosphere* (SCI 2017 IF = 4.427) . 2017. 174:545-553 ( **ESI Highly Cited Paper and Research Front and ESI Hot Paper** )
- 15) Jianwei Zhao, Lin Gui, Qilin Wang, Yiwen Liu, Dongbo Wang \*, Bing-Jie Ni, Xiaoming Li, Rui Xu, Guangming Zeng, Qi Yang\*. Aged refuse enhances anaerobic digestion of waste activated sludge. *Water Research*(SCI 2017 IF=7.051) .2017. 123:724-733 ( **ESI Hot Paper and ESI Highly Cited Paper** )
- 16) Qiuxiang Xu, Xiaoming Li, Rongrong Ding, Dongbo Wang\*, Yiwen Liu ,Qilin Wang, Jianwei Zhao, Fei Chen, Guangming Zeng , Qi Yang \*\*,Hailong Li . Understanding and mitigating the toxicity of cadmium to the anaerobic fermentation of waste activated sludge. *Water Research*(SCI 2017 IF=7.051). 2017. 124 :269-279(**ESI Hot Paper and ESI Highly Cited Paper** )
- 17) Chao Huang, Guangming Zeng\* , Danlian Huang, Cui Lai, Piao Xu, Chen Zhang, Min Chen , Jia Wan, Liang Hu, Yi Zhang.Effect of Phanerochaete chrysosporium Phanerochaete chrysosporium inoculation on bacterial community and metal stabilization in lead -contaminated agricultural waste composting.*Bioresource Technology*(SCI 2017 IF=5.807).2017.243:294-303(**ESI Hot Paper** )
- 18) Liang Hu, Jia Wan, Guangming Zeng\*, Anwei Chen\*, Guiqiu Chen, Zhenzhen Huang,Kai He, Min Cheng, Chengyun Zhou, Weiping Xiong, Cui Lai, Piao Xu.Comprehensive evaluation of the cytotoxicity of CdSe/ZnS quantum dots in Phanerochaete chrysosporium by cellular uptake and oxidative stress.*Environmental Science-Nano*(SCI 2017 IF=6.087). 2017.4: 2018-2029 (**ESI Hot Paper and ESI Highly Cited Paper** )
- 19) Yali Wang, Dongbo Wang\*, Yiwen Liu, Qilin Wang, Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng,Hailong Li. Triclocarban Enhances Short-Chain Fatty Acids Production from Anaerobic Fermentation of Waste Activated Sludge. *Water Research* (SCI 2017IF= 7.051).2017.127:150-161(**ESI Hot Paper** )
- 20) Jia Wan, Guangming Zeng\*, Danlian Huang\*, Liang Hu, Piao Xu, Chao Huang, Rui Deng, Wenjing Xue, Cui Lai, Chengyun Zhou, Kaixuan Zheng, Xiaoya Ren, Xiaomin Gong.Rhamnolipid stabilized nano-chlorapatite: synthesis and enhancement effect on Pb-and Cd-immobilization in polluted sediment.*Journal of Hazardous Materials*(SCI 2017 IF=6.434). 2018.343:332-339( **ESI Highly Cited Paper and Research Front and ESI Hot Paper** )
- 21) 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** )
- 22) Yaoning Chen\*, Yanxin Wu, Dongbo Wang, Hailong Lic, Qilin Wangd, Yiwen Liue,Lai Peng, Qi Yang, Xiaoming Li, Guangming Zeng, Yanrong Chen. Understanding the mechanisms of how poly aluminium chloride inhibits short-chain fatty acids production from anaerobic fermentation of waste activated sludge. *Chemical Engineering Journal*(SCI 2017 IF=6.735).2018. 334:1351 - 1360(**ESI Hot Paper and ESI Highly Cited Paper** )

以上论文中，博士生陈飞的论文是第4次上榜 ESI Hot Paper；博士生王侯的论文是第2次上榜 ESI Hot Paper。

## 6. Essential Science Indicators for Hot papers for Hunan Univ on 10 May 2018



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4	<b>SELECTIVE VISUALIZATION OF THE ENDOGENOUS PEROXYNITRITE IN AN INFLAMED MOUSE MODEL BY A MITOCHONDRIA-TARGETABLE TWO-PHOTON RATIO-METRIC FLUORESCENT PROBE</b>	Times Cited: 40 ESI Hot
By: CHENG, D; PAN, Y; WANG, L; et.al Source: J AM CHEM SOC 139 (1): 285-292 JAN 11 2017 Research Fields: CHEMISTRY		
5	<b>LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS</b>	Times Cited: 37 ESI Hot
By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017 Research Fields: CHEMISTRY		
6	<b>WATER-PLASMA-ENABLED EXFOLIATION OF ULTRATHIN LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIVACANCIES FOR WATER OXIDATION</b>	Times Cited: 23 ESI Hot
By: LIU, R; WANG, YY; LIU, DD; et.al Source: ADVAN MATER 29 (30): - AUG 11 2017 Research Fields: MATERIALS SCIENCE		
7	<b>PARAMETERIZATION OF CRISS-CROSS CONFIGURATIONS FOR MULTIOBJECTIVE CRASHWORTHINESS OPTIMIZATION</b>	Times Cited: 21 ESI Hot
By: SUN, GY; PANG, T; FANG, JG; et.al Source: INT J MECH SCI 124: 145-157 MAY 2017 Research Fields: ENGINEERING		

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8	<b>FINITE-TIME STABILIZATION CONTROL OF MEMRISTOR-BASED NEURAL NETWORKS</b>	Times Cited: 20 ESI Hot
By: CAI, ZW; HUANG, LH; ZHU, MX; et.al Source: NONLINEAR ANAL-HYBRID SYST 20: 37-54 MAY 2016 Research Fields: MATHEMATICS		
9	<b>SrTiO<sub>3</sub> NANOCUBES DECORATED WITH Ag/AgCl NANOPARTICLES AS PHOTOCATALYSTS WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY TOWARDS THE DEGRADATION OF DYES, PHENOL AND BISPHENOL A</b>	Times Cited: 18 ESI Hot
By: YANG, SF; NIU, CG; HUANG, DW; et.al Source: ENVIRON-SCI NANO 4 (3): 585-595 MAR 1 2017 Research Fields: ENVIRONMENT/ECOLOGY		
10	<b>DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW</b>	Times Cited: 18 ESI Hot
By: JIANG, LB; YUAN, XZ; PAN, Y; et.al Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017 Research Fields: CHEMISTRY		
11	<b>CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA</b>	Times Cited: 17 ESI Hot
By: ZHANG, YJ; PENG, YL; MA, CQ; et.al Source: ENERG POLICY 100: 18-28 JAN 2017 Research Fields: SOCIAL SCIENCES, GENERAL		



12	<b>ATOMIC-SCALE COOX SPECIES IN METAL-ORGANIC FRAMEWORKS FOR OXYGEN EVOLUTION REACTION</b> By: DOU, S; DONG, CL; HU, Z; et.al Source: ADV FUNCT MATER 27 (36): - SEP 26 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 16  ESI Hot
13	<b>DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS</b> 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: 16  ESI Hot
14	<b>PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW</b> By: ZENG, GM; WAN, J; HUANG, DL; et.al Source: J HAZARD MATER 339: 354-367 OCT 5 2017 Research Fields: ENGINEERING	Times Cited: 13  ESI Hot
15	<b>ROBUST EPITAXIAL GROWTH OF TWO-DIMENSIONAL HETEROSTRUCTURES, MULTIHETEROSTRUCTURES, AND SUPERLATTICES</b> By: ZHANG, ZW; CHEN, P; DUAN, XD; et.al Source: SCIENCE 357 (6353): 788-+ AUG 25 2017 Research Fields: PHYSICS	Times Cited: 12  ESI Hot

16	<b>AGED REFUSE ENHANCES ANAEROBIC DIGESTION OF WASTE ACTIVATED SLUDGE</b> By: ZHAO, JW; GUI, L; WANG, QL; et.al Source: WATER RES 123: 724-733 OCT 15 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 8  ESI Hot
17	<b>A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE</b> By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al Source: NAT ENERGY 2 (9): - SEP 2017 Research Fields: ENGINEERING	Times Cited: 8  ESI Hot
18	<b>PHOTOCATALYTIC WASTEWATER PURIFICATION WITH SIMULTANEOUS HYDROGEN PRODUCTION USING MOS<sub>2</sub> QD-DECORATED HIERARCHICAL ASSEMBLY OF ZNIN<sub>2</sub>S<sub>4</sub> ON REDUCED GRAPHENE OXIDE PHOTOCATALYST</b> By: ZHANG, SQ; WANG, LL; LIU, CB; et.al Source: WATER RES 121: 11-19 SEP 15 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 6  ESI Hot

19	<b>CREATING COORDINATIVELY UNSATURATED METAL SITES IN METAL-ORGANIC-FRAMEWORKS AS EFFICIENT ELECTROCATALYSTS FOR THE OXYGEN EVOLUTION REACTION: INSIGHTS INTO THE ACTIVE CENTERS</b>	Times Cited: 6 ESI Hot
By: TAO, L; LIN, CY; DOU, S; et.al Source: NANO ENERGY 41: 417-425 NOV 2017 Research Fields: MATERIALS SCIENCE		
20	<b>A NEW MULTI-OBJECTIVE DISCRETE ROBUST OPTIMIZATION ALGORITHM FOR ENGINEERING DESIGN</b>	Times Cited: 5 ESI Hot
By: SUN, GY; ZHANG, HL; FANG, JG; et.al Source: APPL MATH MODEL 53: 602-621 JAN 2018 Research Fields: ENGINEERING		
21	<b>A NOVEL Ag<sub>2</sub>O/CeO<sub>2</sub> HETEROJUNCTION PHOTOCATALYSTS FOR PHOTOCATALYTIC DEGRADATION OF ENROFLOXACIN: POSSIBLE DEGRADATION PATHWAYS, MINERALIZATION ACTIVITY AND AN IN DEPTH MECHANISM INSIGHT</b>	Times Cited: 4 ESI Hot
By: WEN, XJ; NIU, CG; ZHANG, L; et.al Source: APPL CATAL B-ENVIRON 221: 701-714 FEB 2018 Research Fields: CHEMISTRY		

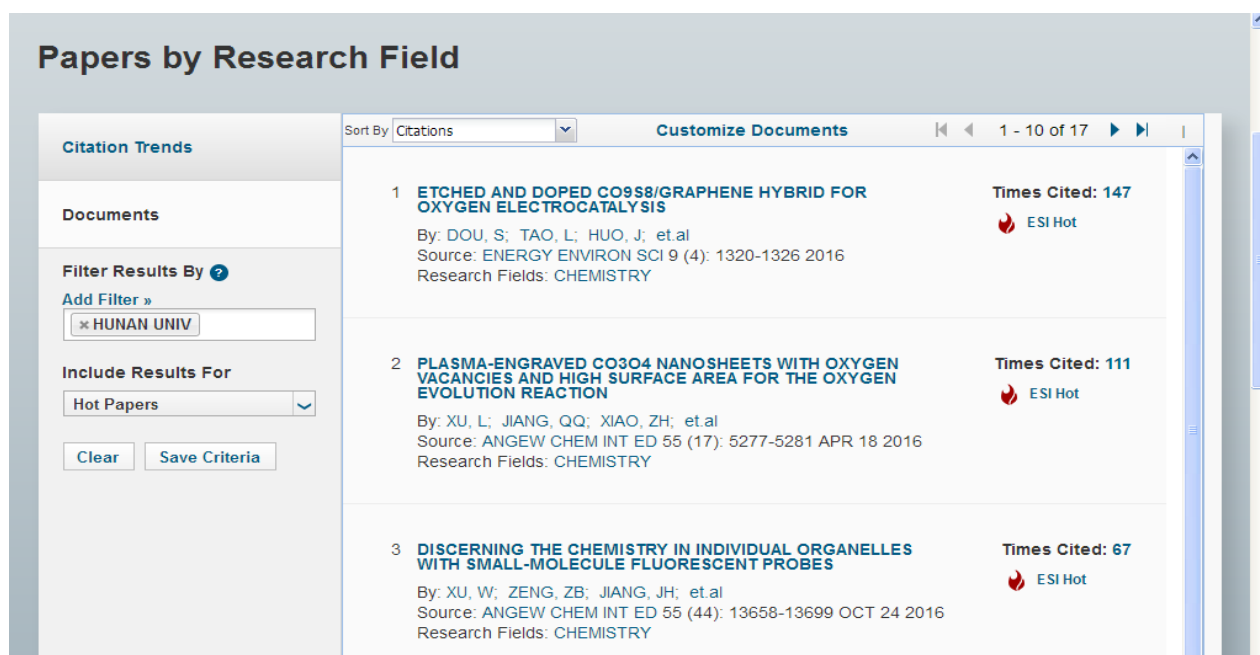
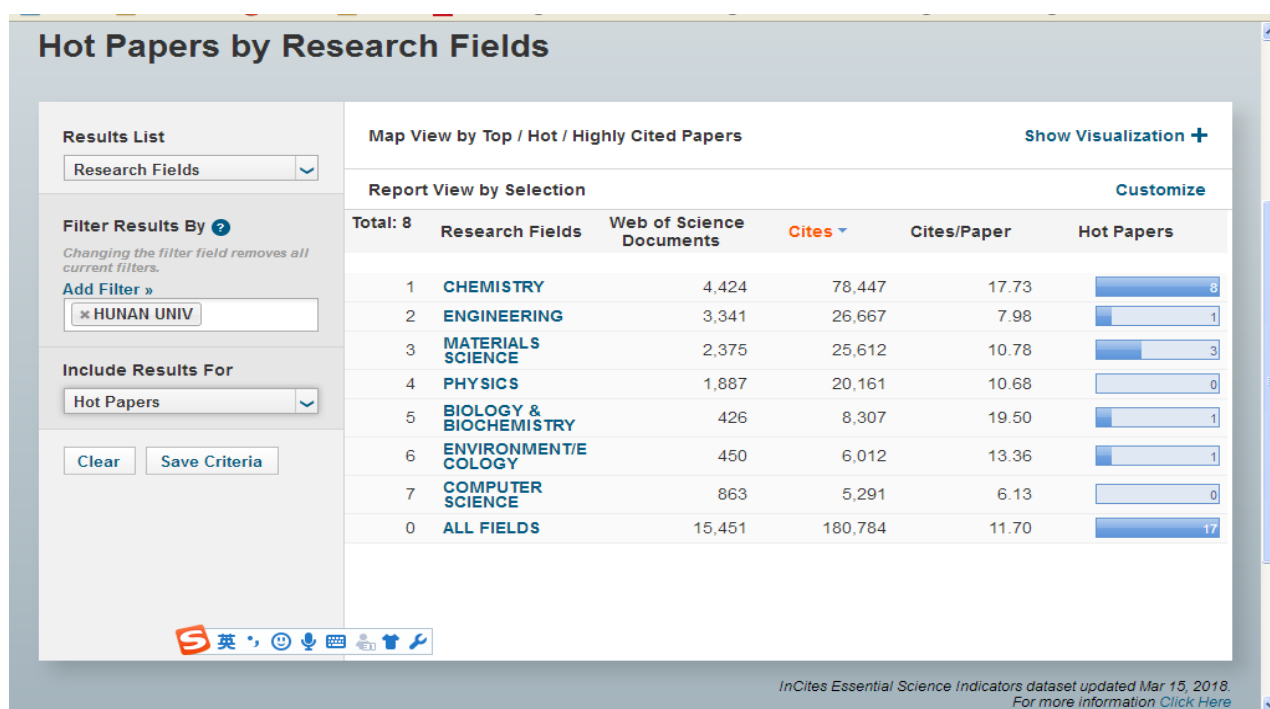
以上 21 篇 Hot Paper 中 有 7 篇是环境学院的论文:

- 1) Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. **Applied Catalysis B: Environmental (SCI 2016 IF=9.446)**. 2017. 200: 330-342 ( **ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper** )
- 2) Shi-Feng Yang, Cheng-Gang Niu, \* Da-Wei Huang, Huan Zhang, Chao Liang and Guang-Ming Zeng\*. SrTiO<sub>3</sub> nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. **Environmental Science-Nano (SCI 2016 IF=6.047)**. 2017. 4:585-595 ( **ESI Highly Cited Paper and ESI Hot Paper** )
- 3) 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 2016 IF=9.446)**. 2017. 217: 388-406 ( **ESI Hot Paper and ESI Highly Cited Paper** )
- 4) 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 2016 IF=6.065)** . 2017. 339:354-367 ( **ESI Hot Paper and ESI Highly Cited Paper** )
- 5) Jianwei Zhao, Lin Gui, Qilin Wang, Yiwen Liu, Dongbo Wang \*, Bing-Jie Ni, Xiaoming Li, Rui Xu, Guangming Zeng, Qi Yang\*. Aged refuse enhances anaerobic digestion of waste activated sludge. **Water Research (SCI 2016 IF=6.942)**. 2017. 123:724-733 ( **ESI Hot Paper and ESI Highly Cited Paper** )
- 6) Xiao-Ju Wen, Cheng-Gang Niu\*, Lei Zhang, Chao Liang, Guang-Ming Zeng. A novel Ag<sub>2</sub>O/CeO<sub>2</sub> heterojunction photocatalysts for photocatalytic degradation of enrofloxacin: possible degradation pathways, mineralization activity and an in depth mechanism insight. **Applied Catalysis B: Environmental (SCI 2016 IF=9.446)**. 2018. 221 : 701 - 714 ( **ESI Hot Paper** )
- 7) Shuqu Zhang<sup>1</sup>, Longlu Wang<sup>1</sup>, Chengbin Liu\*, Jinming Luo\*, John Crittenden, Xiaoliu, Tao Cai, Jili Yuan, Yongpei, Yutang Liu. Photocatalytic wastewater purification with simultaneous hydrogen production using MoS<sub>2</sub>

QD-decorated hierarchical assembly of ZnIn<sub>2</sub>S<sub>4</sub> on reduced graphene oxide photocatalyst. *Water Research* (SCI 2016 IF=6.942). 2017.121:11-19 ( [ESI Hot Paper and ESI Highly Cited Paper](#) )

博士生陈飞的论文是 第 3 次上榜 ESI Hot Paper。

## 7. Essential Science Indicators for Hot papers for Hunan Univ on 15 Mar 2018



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4	<b>VAN DER WAALS HETEROSTRUCTURES AND DEVICES</b> By: LIU, Y; WEISS, NO; DUAN, XD; et.al Source: NAT REV MATER 1 (9): - SEP 2016 Research Fields: MATERIALS SCIENCE	Times Cited: 61 ESI Hot
5	<b>NANOPARTICLE-STACKED POROUS NICKEL-IRON NITRIDE NANOSHEET: A HIGHLY EFFICIENT BIFUNCTIONAL ELECTROCATALYST FOR OVERALL WATER SPLITTING</b> By: WANG, YY; XIE, C; LIU, DD; et.al Source: ACS APPL MATER INTERFACES 8 (29): 18652-18657 JUL 27 2016 Research Fields: MATERIALS SCIENCE	Times Cited: 61 ESI Hot
6	<b>HIERARCHICAL ASSEMBLY OF GRAPHENE-BRIDGED AG<sub>3</sub>PO<sub>4</sub>/AG/BIVO<sub>4</sub> (040) Z-SCHEME PHOTOCATALYST: AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION</b> By: CHEN, F; YANG, Q; LI, XM; et.al Source: APPL CATAL B-ENVIRON 200: 330-342 JAN 2017 Research Fields: CHEMISTRY	Times Cited: 44 ESI Hot

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7	<b>THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE</b> By: SUN, HT; MEI, L; LIANG, JF; et.al Source: SCIENCE 356 (6338): 599-604 MAY 12 2017 Research Fields: CHEMISTRY	Times Cited: 28 ESI Hot
8	<b>A GENERAL APPROACH TO COBALT-BASED HOMOBIMETALLIC PHOSPHIDE ULTRATHIN NANOSHEETS FOR HIGHLY EFFICIENT OXYGEN EVOLUTION IN ALKALINE MEDIA</b> By: XIAO, XF; HE, CT; ZHAO, SL; et.al Source: ENERGY ENVIRON SCI 10 (4): 893-899 APR 1 2017 Research Fields: CHEMISTRY	Times Cited: 26 ESI Hot
9	<b>IN SITU EXFOLIATED, EDGE-RICH, OXYGEN-FUNCTIONALIZED GRAPHENE FROM CARBON FIBERS FOR OXYGEN ELECTROCATALYSIS</b> By: LIU, ZJ; ZHAO, ZH; WANG, YY; et.al Source: ADVAN MATER 29 (18): - MAY 10 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 24 ESI Hot
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<p>15 <b>APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION</b> <span style="float: right;">Times Cited: 8</span></p> <p>By: WANG, DB; LIU, YW; NGO, HH; et.al Source: BIORESOURCE TECHNOL 238: 343-351 AUG 2017 Research Fields: BIOLOGY &amp; BIOCHEMISTRY</p> <p style="text-align: right;"> ESI Hot</p> <hr/> <p>16 <b>ELECTROCATALYTIC PROPERTIES OF N-DOPED GRAPHITE FELT IN ELECTRO-FENTON PROCESS AND DEGRADATION MECHANISM OF LEVOFLOXACIN</b> <span style="float: right;">Times Cited: 5</span></p> <p>By: LIU, XC; YANG, DX; ZHOU, YY; et.al Source: CHEMOSPHERE 182: 306-315 SEP 2017 Research Fields: ENVIRONMENT/ECOLOGY</p> <p style="text-align: right;"> ESI Hot</p> <hr/> <p>17 <b>DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW</b> <span style="float: right;">Times Cited: 5</span></p> <p>By: JIANG, LB; YUAN, XZ; PAN, Y; et.al Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017 Research Fields: CHEMISTRY</p> <p style="text-align: right;"> ESI Hot</p>
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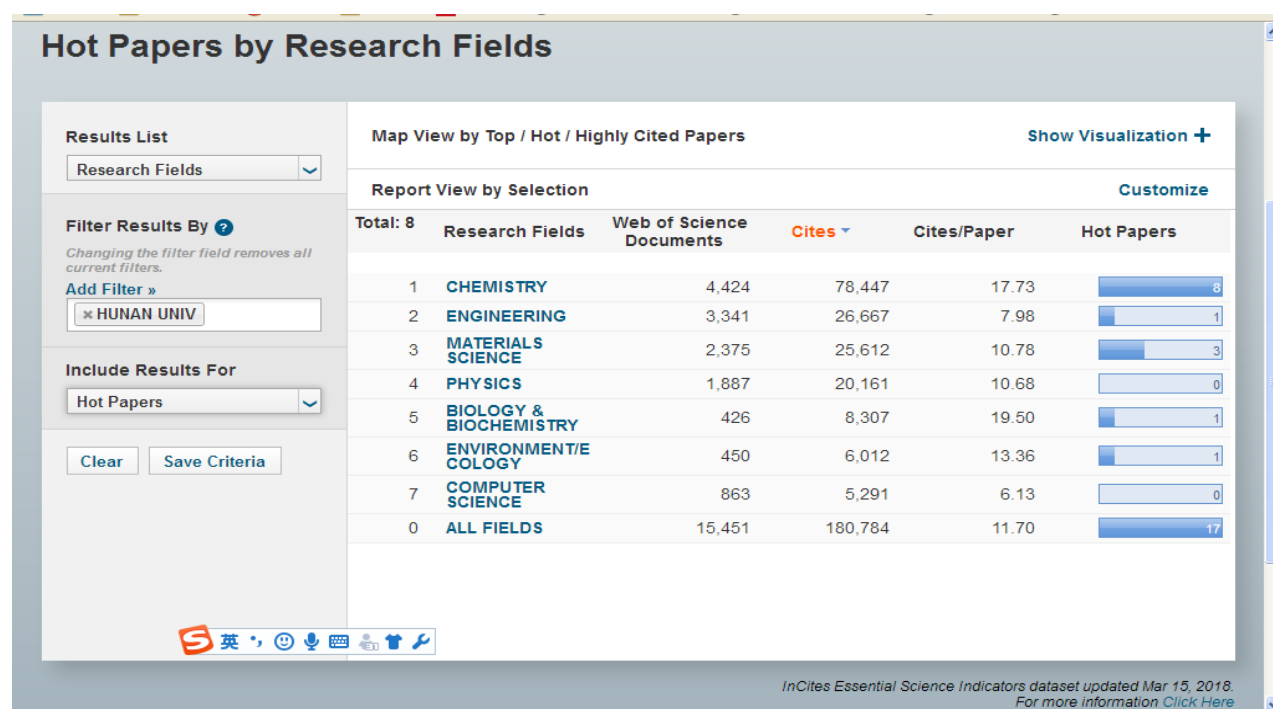
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- fermentation. **Bioresource Technology**(SCI 2016 IF=5.651). 2017. 238 :343–351(ESI Hot Paper and ESI Highly Cited Paper)
- 3) Liu Xiaocheng, Yang Danxing, Zhou Yaoyu\*, Zhang Jiachao\*, Luo Lin, Meng Sijun, Chen Song, TanMengjiao, Li Zhicheng, Tang Lin. Electrocatalytic properties of N-doped graphite felt in electro-Fenton process and degradation mechanism of levofloxacin. **CHEMOSPHERE**.2017.182:306-315(ESI Hot Paper and ESI Highly Cited Paper )
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## 8. Essential Science Indicators for Hot papers for Hunan Univ on 15 Mar 2018



## Papers by Research Field

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




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- 1 ETCHED AND DOPED CO<sub>9</sub>S<sub>8</sub>/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS** Times Cited: 147  
By: DOU, S; TAO, L; HUO, J; et.al  
Source: ENERGY ENVIRON SCI 9 (4): 1320-1326 2016  
Research Fields: CHEMISTRY  
ESI Hot
- 2 PLASMA-ENGRAVED CO<sub>3</sub>O<sub>4</sub> NANOSHEETS WITH OXYGEN VACANCIES AND HIGH SURFACE AREA FOR THE OXYGEN EVOLUTION REACTION** Times Cited: 111  
By: XU, L; JIANG, QQ; XIAO, ZH; et.al  
Source: ANGEW CHEM INT ED 55 (17): 5277-5281 APR 18 2016  
Research Fields: CHEMISTRY  
ESI Hot
- 3 DISCERNING THE CHEMISTRY IN INDIVIDUAL ORGANELLES WITH SMALL-MOLECULE FLUORESCENT PROBES** Times Cited: 67  
By: XU, W; ZENG, ZB; JIANG, JH; et.al  
Source: ANGEW CHEM INT ED 55 (44): 13658-13699 OCT 24 2016  
Research Fields: CHEMISTRY  
ESI Hot
- 4 VAN DER WAALS HETEROSTRUCTURES AND DEVICES** Times Cited: 61  
By: LIU, Y; WEISS, NO; DUAN, XD; et.al  
Source: NAT REV MATER 1 (9): - SEP 2016  
Research Fields: MATERIALS SCIENCE  
ESI Hot
- 5 NANOPARTICLE-STACKED POROUS NICKEL-IRON NITRIDE NANOSHEET: A HIGHLY EFFICIENT BIFUNCTIONAL ELECTROCATALYST FOR OVERALL WATER SPLITTING** Times Cited: 51  
By: WANG, YY; XIE, C; LIU, DD; et.al  
Source: ACS APPL MATER INTERFACES 8 (29): 18652-18657 JUL 27 2016  
Research Fields: MATERIALS SCIENCE  
ESI Hot
- 6 HIERARCHICAL ASSEMBLY OF GRAPHENE-BRIDGED Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Z-SCHEME PHOTOCATALYST: AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION** Times Cited: 44  
By: CHEN, F; YANG, Q; LI, XM; et.al  
Source: APPL CATAL B-ENVIRON 200: 330-342 JAN 2017  
Research Fields: CHEMISTRY  
ESI Hot

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7	<p><b>THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE</b></p> <p>By: SUN, HT; MEI, L; LIANG, JF; et.al            Source: SCIENCE 356 (6338): 599-604 MAY 12 2017            Research Fields: CHEMISTRY</p>	<p>Times Cited: 28</p> <p> ESI Hot</p>
8	<p><b>A GENERAL APPROACH TO COBALT-BASED HOMOBIMETALLIC PHOSPHIDE ULTRATHIN NANOSHEETS FOR HIGHLY EFFICIENT OXYGEN EVOLUTION IN ALKALINE MEDIA</b></p> <p>By: XIAO, XF; HE, CT; ZHAO, SL; et.al            Source: ENERGY ENVIRON SCI 10 (4): 893-899 APR 1 2017            Research Fields: CHEMISTRY</p>	<p>Times Cited: 26</p> <p> ESI Hot</p>
9	<p><b>IN SITU EXFOLIATED, EDGE-RICH, OXYGEN-FUNCTIONALIZED GRAPHENE FROM CARBON FIBERS FOR OXYGEN ELECTROCATALYSIS</b></p> <p>By: LIU, ZJ; ZHAO, ZH; WANG, YY; et.al            Source: ADVAN MATER 29 (18): - MAY 10 2017            Research Fields: MATERIALS SCIENCE</p>	<p>Times Cited: 24</p> <p> ESI Hot</p>
10	<p><b>LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS</b></p> <p>By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al            Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017            Research Fields: CHEMISTRY</p>	<p>Times Cited: 18</p> <p> ESI Hot</p>

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	<p>12</p>	<p><b>CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA</b></p> <p>By: ZHANG, YJ; PENG, YL; MA, CQ; et.al            Source: ENERG POLICY 100: 18-28 JAN 2017            Research Fields: SOCIAL SCIENCES, GENERAL</p>	<p>Times Cited: 13</p> <p> ESI Hot</p>
	<p>13</p>	<p><b>DROOP-BASED DISTRIBUTED COOPERATIVE CONTROL FOR MICROGRIDS WITH TIME-VARYING DELAYS</b></p> <p>By: LAI, JG; ZHOU, H; LU, XQ; et.al            Source: IEEE TRANS SMART GRID 7 (4): 1775-1789 JUL 2016            Research Fields: ENGINEERING</p>	<p>Times Cited: 12</p> <p> ESI Hot</p>
	<p>14</p>	<p><b>A STUDY ON THE MILD SOLUTION OF IMPULSIVE FRACTIONAL EVOLUTION EQUATIONS</b></p> <p>By: SHU, XB; SHI, YJ;            Source: APPL MATH COMPUT 273: 465-476 JAN 15 2016            Research Fields: MATHEMATICS</p>	<p>Times Cited: 11</p> <p> ESI Hot</p>



15	<b>APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION</b> By: WANG, DB; LIU, YW; NGO, HH; et.al Source: BIORESOURCE TECHNOLOG 238: 343-351 AUG 2017 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 8  ESI Hot
16	<b>ELECTROCATALYTIC PROPERTIES OF N-DOPED GRAPHITE FELT IN ELECTRO-FENTON PROCESS AND DEGRADATION MECHANISM OF LEVOFLOXACIN</b> By: LIU, XC; YANG, DX; ZHOU, YY; et.al Source: CHEMOSPHERE 182: 306-315 SEP 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 5  ESI Hot
17	<b>DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW</b> By: JIANG, LB; YUAN, XZ; PAN, Y; et.al Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017 Research Fields: CHEMISTRY	Times Cited: 5  ESI Hot

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9. Essential Science Indicators for Hot papers for Hunan Univ on 11Jan 2018

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2	ENGINEERING	3,230	24,878	7.70	2
3	MATERIALS SCIENCE	2,305	24,057	10.44	1
4	PHYSICS	1,826	19,282	10.56	0
5	BIOLOGY & BIOCHEMISTRY	411	7,866	19.14	0
6	ENVIRONMENT/ECOLOGY	431	5,539	12.85	1
7	COMPUTER SCIENCE	836	4,902	5.86	0
0	ALL FIELDS	15,023	171,126	11.39	9

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- ETCHED AND DOPED CO9S8/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS** Times Cited: 122

By: DOU, S; TAO, L; HUO, J; et.al ESI Hot

Source: ENERGY ENVIRON SCI 9 (4): 1320-1326 2016

Research Fields: CHEMISTRY
- HYDROXYL RADICALS BASED ADVANCED OXIDATION PROCESSES (AOPS) FOR REMEDIATION OF SOILS CONTAMINATED WITH ORGANIC COMPOUNDS: A REVIEW** Times Cited: 71

By: CHENG, M; ZENG, GM; HUANG, DL; et.al ESI Hot

Source: CHEM ENG J 284: 582-598 JAN 15 2016

Research Fields: ENGINEERING
- VAN DER WAALS HETEROSTRUCTURES AND DEVICES** Times Cited: 47

By: LIU, Y; WEISS, NO; DUAN, XD; et.al ESI Hot

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Research Fields: MATERIALS SCIENCE

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4 **A GENERAL APPROACH TO COBALT-BASED HOMOBIMETALLIC PHOSPHIDE ULTRATHIN NANOSHEETS FOR HIGHLY EFFICIENT OXYGEN EVOLUTION IN ALKALINE MEDIA** Times Cited: 15  
 ESI Hot  
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 By: SUN, HT; MEI, L; LIANG, JF; et.al  
 Source: SCIENCE 356 (6338): 599-604 MAY 12 2017  
 Research Fields: CHEMISTRY

6 **THE INDIRECT ENERGY CONSUMPTION AND CO2 EMISSION CAUSED BY HOUSEHOLD CONSUMPTION IN CHINA: AN ANALYSIS BASED ON THE INPUT-OUTPUT METHOD** Times Cited: 10  
 ESI Hot  
 By: ZHANG, YJ; BIAN, XJ; TAN, WP; et.al  
 Source: J CLEAN PROD 163: 69-83 OCT 1 2017  
 Research Fields: ENGINEERING

7 **RESPONSE OF SOIL ORGANIC CARBON AND NITROGEN STOCKS TO SOIL EROSION AND LAND USE TYPES IN THE LOESS HILLY-GULLY REGION OF CHINA** Times Cited: 10  
 ESI Hot  
 By: LI, ZW; LIU, C; DONG, YT; et.al  
 Source: SOIL TILL RES 166: 1-9 MAR 2017  
 Research Fields: AGRICULTURAL SCIENCES

8 **FINITE-TIME STABILIZATION CONTROL OF MEMRISTOR-BASED NEURAL NETWORKS** Times Cited: 9  
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 By: CAI, ZW; HUANG, LH; ZHU, MX; et.al  
 Source: NONLINEAR ANAL-HYBRID SYST 20: 37-54 MAY 2016  
 Research Fields: MATHEMATICS

9 **ADSORPTION OF ESTROGEN CONTAMINANTS BY GRAPHENE NANOMATERIALS UNDER NATURAL ORGANIC MATTER PRELOADING: COMPARISON TO CARBON NANOTUBE, BIOCHAR, AND ACTIVATED CARBON** Times Cited: 6  
 ESI Hot  
 By: JIANG, LH; LIU, YG; LIU, SB; et.al  
 Source: ENVIRON SCI TECHNOL 51 (11): 6352-6359 JUN 6 2017  
 Research Fields: ENVIRONMENT/ECOLOGY

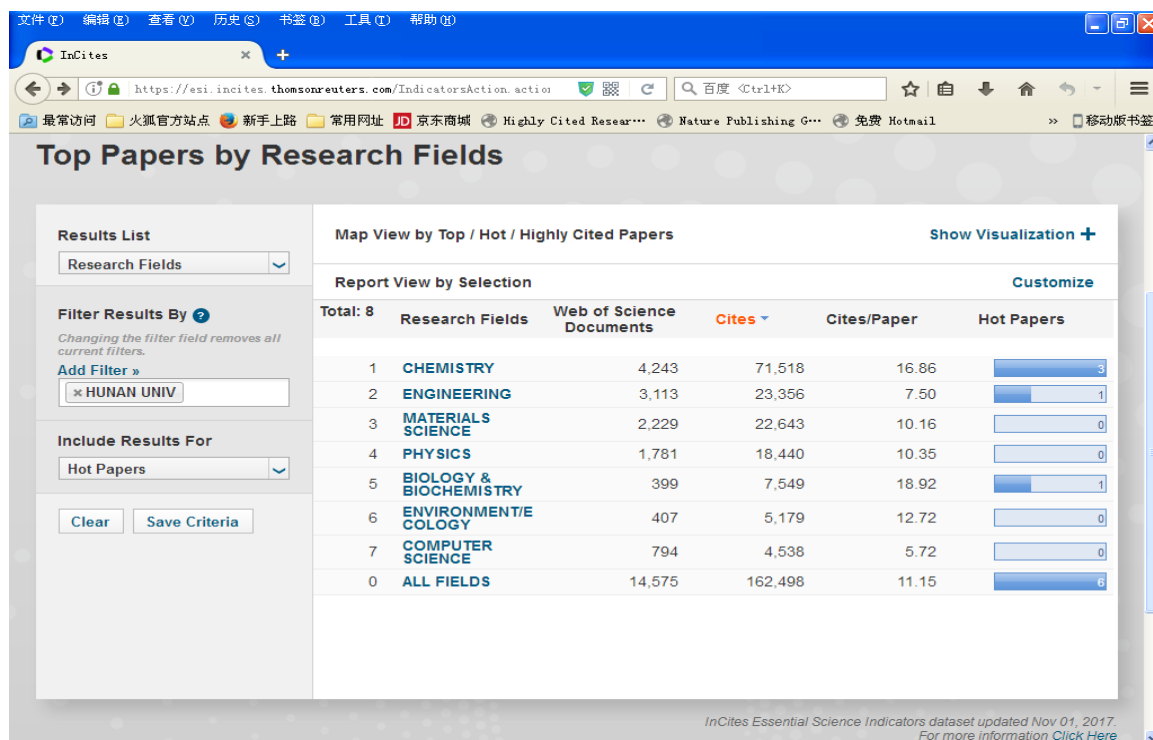
以上 9 篇 Hot Paper 中 有 3 篇是环境学院的论文:

- 1) **Min Cheng, Guangming Zeng\*, Danlian Huang\*, Cui Lai, Piao Xu, Chen Zhang, Yang Liu. Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. Chemical Engineering Journal (SCI 2016 IF=6.216). 2016. 284 : 582–598( ESI Hot Paper , ESI Highly Cited Paper and ESI Research Front)**
- 2) **Zhongwu Li\*, Chun Liu, Yuting Dong, Xiaofeng Chang, Xiaodong Nie, Lin Liu, Haibing Xiao, Yinmei Lu, Guangming Zeng. Response of soil organic carbon and nitrogen stocks to soil erosion and land use types in the Loess hilly–gully region of China. Soil & Tillage Research (SCI 2015 IF=2.709) . 2017.2017. 166 :1–9 ( ESI Highly Cited Paper and ESI Hot Paper )**

- 3) **Luhua Jiang, Yunguo Liu\*, Shaobo Liu, Guangming Zeng, Xinjiang Hu, Xi Hu, Zhi Guo, Xiaofei Tan, Lele Wang, Zhibin Wu. Adsorption of Estrogen Contaminants by Graphene Nanomaterials under Natural Organic Matter Preloading: Comparison to Carbon Nanotube, Biochar, and Activated Carbon. Environmental Science & Technology (SCI 2016 IF=6.198). 2017.51:6352-6359 ( ESI Highly Cited Paper and ESI Hot Paper )**

博士生程敏的论文是 第 4 次上榜 ESI Hot Paper。

## 10. Essential Science Indicators for Hot papers for Hunan Univ on 171109



## Papers by Research Field

Sort By Citations Customize Documents 1 - 6 of 6

**Citation Trends**

**Documents**

Filter Results By

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Hot Papers

Clear Save Criteria

1	<b>PLASMA-ENGRAVED CO<sub>3</sub>O<sub>4</sub> NANOSHEETS WITH OXYGEN VACANCIES AND HIGH SURFACE AREA FOR THE OXYGEN EVOLUTION REACTION</b>	Times Cited: 71 ESI Hot
By: XU, L; JIANG, QQ; XIAO, ZH; et.al Source: ANGEW CHEM INT ED 55 (17): 5277-5281 APR 18 2016 Research Fields: CHEMISTRY		
2	<b>HIERARCHICAL ASSEMBLY OF GRAPHENE-BRIDGED Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Z-SCHEME PHOTOCATALYST: AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION</b>	Times Cited: 22 ESI Hot
By: CHEN, F; YANG, Q; LI, XM; et.al Source: APPL CATAL B-ENVIRON 200: 330-342 JAN 2017 Research Fields: CHEMISTRY		
3	<b>ENHANCED PHOTOCATALYTIC DEGRADATION OF NORFLOXACIN IN AQUEOUS Bi<sub>2</sub>WO<sub>6</sub> DISPERSIONS CONTAINING NONIONIC SURFACTANT UNDER VISIBLE LIGHT IRRADIATION</b>	Times Cited: 19 ESI Hot
By: TANG, L; WANG, JJ; ZENG, GM; et.al Source: J HAZARD MATER 306: 295-304 APR 5 2016 Research Fields: ENGINEERING		

4	<b>NANOCONFINED IONIC LIQUIDS</b>	Times Cited: 6 ESI Hot
By: ZHANG, SG; ZHANG, JH; ZHANG, Y; et.al Source: CHEM REV 117 (10): 6755-6833 SP. ISS. SI MAY 24 2017 Research Fields: CHEMISTRY		
5	<b>CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA</b>	Times Cited: 5 ESI Hot
By: ZHANG, YJ; PENG, YL; MA, CQ; et.al Source: ENERG POLICY 100: 18-28 JAN 2017 Research Fields: SOCIAL SCIENCES, GENERAL		
6	<b>AUTOMATIC SEGMENTATION OF NINE RETINAL LAYER BOUNDARIES IN OCT IMAGES OF NON-EXUDATIVE AMD PATIENTS USING DEEP LEARNING AND GRAPH SEARCH</b>	Times Cited: 5 ESI Hot
By: FANG, LY; CUNEFARE, D; WANG, C; et.al Source: BIOMED OPT EXPRESS 8 (5): 2732-2744 MAY 1 2017 Research Fields: BIOLOGY & BIOCHEMISTRY		

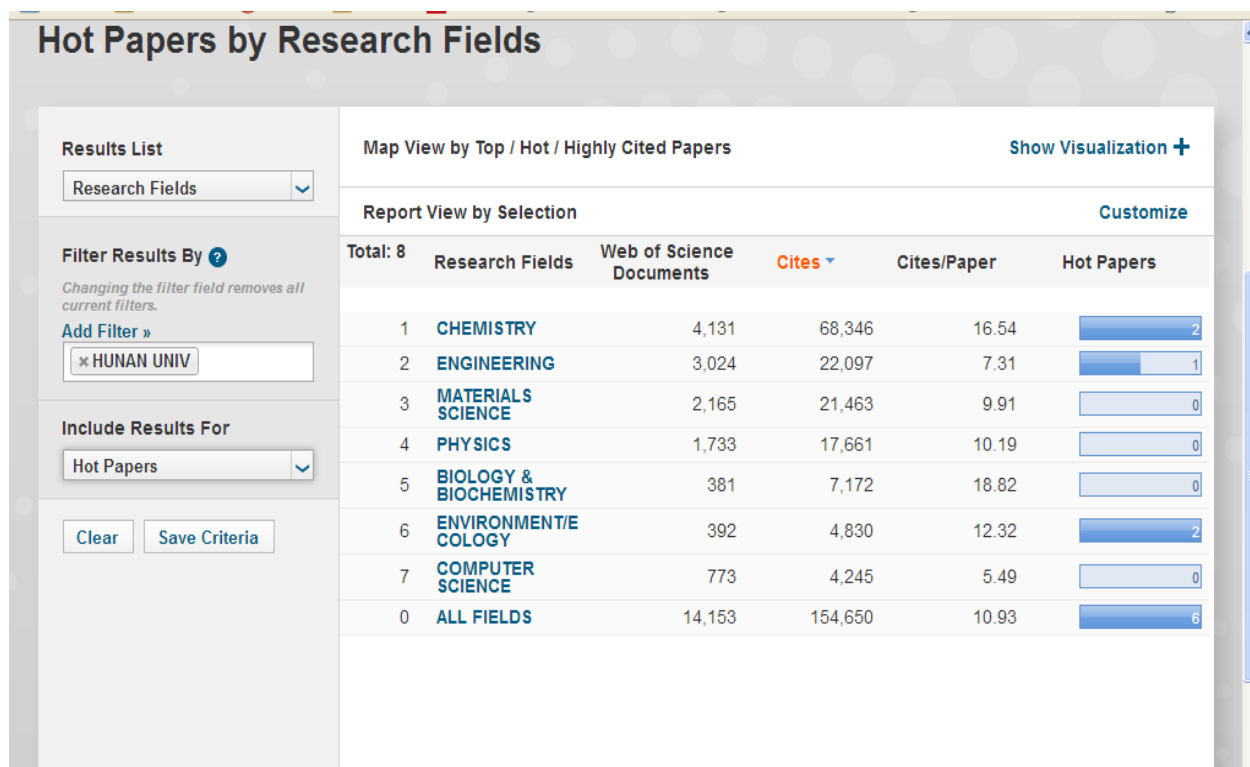
以上 6 篇 Hot Paper 中 有 2 篇是环境学院的论文:

- 1) Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng, Dongbo Wang\*, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme

photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. **Applied Catalysis B-Environmental (SCI 2016 IF=9.446)**. 2017. 200: 330-342 ( **ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper**)

- 2) Lin Tang\*, Jiajia Wang, Guangming Zeng\*, Yani Liu, Yaocheng Deng, Yaoyu Zhou, Jing Tang, Jingjing Wang, Zhi Guo. Enhanced Photocatalytic Degradation of Norfloxacin in Aqueous Bi<sub>2</sub>WO<sub>6</sub> Dispersions Containing Nonionic Surfactant under Visible Light Irradiation. **Journal of Hazardous Materials (SCI 2016 IF=6.065)** .2016. 306:295-304 ( **ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper**)

### 11. Essential Science Indicators for Hot papers for Hunan Univ on 170914



# Papers by Research Field

Citation Trends

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Documents

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Hot Papers

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- 1 ETCHED AND DOPED CO<sub>9</sub>S<sub>8</sub>/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS** Times Cited: 85  
By: DOU, S; TAO, L; HUO, J; et.al  
Source: ENERGY ENVIRON SCI 9 (4): 1320-1326 2016  
Research Fields: CHEMISTRY  
ESI Hot
- 2 AN OVERVIEW ON LIMITATIONS OF TiO<sub>2</sub>-BASED PARTICLES FOR PHOTOCATALYTIC DEGRADATION OF ORGANIC POLLUTANTS AND THE CORRESPONDING COUNTERMEASURES** Times Cited: 54  
By: DONG, HR; ZENG, GM; TANG, L; et.al  
Source: WATER RES 79: 128-146 AUG 1 2015  
Research Fields: ENVIRONMENT/ECOLOGY  
ESI Hot
- 3 HYDROXYL RADICALS BASED ADVANCED OXIDATION PROCESSES (AOPS) FOR REMEDIATION OF SOILS CONTAMINATED WITH ORGANIC COMPOUNDS: A REVIEW** Times Cited: 50  
By: CHENG, M; ZENG, GM; HUANG, DL; et.al  
Source: CHEM ENG J 284: 582-598 JAN 15 2016  
Research Fields: ENGINEERING  
ESI Hot

- 4 EFFICACY OF CARBONACEOUS NANOCOMPOSITES FOR SORBING IONIZABLE ANTIBIOTIC SULFAMETHAZINE FROM AQUEOUS SOLUTION** Times Cited: 27  
By: ZHANG, C; LAI, C; ZENG, GM; et.al  
Source: WATER RES 95: 103-112 MAY 15 2016  
Research Fields: ENVIRONMENT/ECOLOGY  
ESI Hot
- 5 NITROGEN-DOPED HIERARCHICALLY POROUS CARBON NETWORKS: SYNTHESIS AND APPLICATIONS IN LITHIUM-ION BATTERY, SODIUM-ION BATTERY AND ZINC-AIR BATTERY** Times Cited: 23  
By: WANG, L; YANG, CL; DOU, S; et.al  
Source: ELECTROCHIM ACTA 219: 592-603 NOV 20 2016  
Research Fields: CHEMISTRY  
ESI Hot
- 6 THE DIRECT AND INDIRECT CO<sub>2</sub> REBOUND EFFECT FOR PRIVATE CARS IN CHINA** Times Cited: 3  
By: ZHANG, YJ; LIU, Z; QIN, CX; et.al  
Source: ENERG POLICY 100: 149-161 JAN 2017  
Research Fields: SOCIAL SCIENCES, GENERAL  
ESI Hot

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以上 6 篇 Hot Paper 中 有 3 篇是环境学院的论文:

- 1) Haoran DONG\*, Guangming Zeng, Lin Tang, Changzheng Fan, Chang Zhang, Xiaoxiao He, Yan He. An overview on limitations of TiO<sub>2</sub>-based particles for photocatalytic degradation of organic pollutants and the corresponding countermeasures. *Water Research* (SCI 2016 IF=6.942). 2015.79:128-146 (ESI Hot paper and ESI Highly Cited Paper )
- 2) Min Cheng, Guangming Zeng\*, Danlian Huang\*, Cui Lai, Piao Xu, Chen Zhang, Yang Liu. Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. *Chemical Engineering Journal* 2016. 284 : 582–598 ( ESI Hot Paper and ESI Highly Cited Paper )
- 3) Chen Zhang, Cui Lai, Guang-Ming Zeng\*, Dan-Lian Huang\*, Chunping Yang, Yang Wang, Yao-Yu Zhou, Min Cheng. Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. *Water Research* . 2016.95:103-112 (ESI Hot Paper and ESI Highly Cited Paper )

## 12. Essential Science Indicators for Hot papers for Hunan Univ on 170714

**Papers by Research Field**

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- 1 **BROADBAND NONLINEAR OPTICAL RESPONSE IN MULTI-LAYER BLACK PHOSPHORUS: AN EMERGING INFRARED AND MID-INFRARED OPTICAL MATERIAL** Times Cited: 159  
By: LU, SB; MIAO, LL; GUO, ZN; et al  
Source: OPT EXPRESS 23 (9): 11183-11194 MAY 4 2015  
Research Fields: PHYSICS
- 2 **MECHANICALLY EXFOLIATED BLACK PHOSPHORUS AS A NEW SATURABLE ABSORBER FOR BOTH Q-SWITCHING AND MODE-LOCKING LASER OPERATION** Times Cited: 124  
By: CHEN, Y; JIANG, GB; CHEN, SQ; et al  
Source: OPT EXPRESS 23 (10): 12823-12833 MAY 18 2015  
Research Fields: PHYSICS
- 3 **THE LIMITATIONS OF APPLYING ZERO-VALENT IRON TECHNOLOGY IN CONTAMINANTS SEQUESTRATION AND THE CORRESPONDING COUNTERMEASURES: THE DEVELOPMENT IN ZERO-VALENT IRON TECHNOLOGY IN THE LAST TWO DECADES (1994-2014)** Times Cited: 79  
By: GUAN, XH; SUN, YK; QIN, HJ; et al  
Source: WATER RES 75: 224-248 MAY 15 2015  
Research Fields: ENVIRONMENT/ECOLOGY



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4	<b>SURFACE PLASMON-ENHANCED PHOTODETECTION IN FEW LAYER MOS<sub>2</sub> PHOTOTRANSISTORS WITH AU NANOSTRUCTURE ARRAYS</b>	<b>Times Cited: 74</b> ESI Hot
By: MIAO, JS; HU, WD; JING, YL; et.al Source: SMALL 11 (20): 2392-2398 MAY 27 2015 Research Fields: MATERIALS SCIENCE		
5	<b>HYDROXYL RADICALS BASED ADVANCED OXIDATION PROCESSES (AOPS) FOR REMEDIATION OF SOILS CONTAMINATED WITH ORGANIC COMPOUNDS: A REVIEW</b>	<b>Times Cited: 37</b> ESI Hot
By: CHENG, M; ZENG, GM; HUANG, DL; et.al Source: CHEM ENG J 284: 582-598 JAN 15 2016 Research Fields: ENGINEERING		
6	<b>EFFICACY OF CARBONACEOUS NANOCOMPOSITES FOR SORBING IONIZABLE ANTIBIOTIC SULFAMETHAZINE FROM AQUEOUS SOLUTION</b>	<b>Times Cited: 17</b> ESI Hot
By: ZHANG, C; LAI, C; ZENG, GM; et.al Source: WATER RES 95: 103-112 MAY 15 2016 Research Fields: ENVIRONMENT/ECOLOGY		
7	<b>SMART HOME ENERGY MANAGEMENT SYSTEMS: CONCEPT, CONFIGURATIONS, AND SCHEDULING STRATEGIES</b>	<b>Times Cited: 10</b> ESI Hot
By: ZHOU, B; LI, WT; CHAN, KW; et.al Source: RENEW SUSTAIN ENERGY REV 61: 30-40 AUG 2016 Research Fields: ENGINEERING		

8	<b>HOPF BIFURCATION IN A DIFFUSIVE LOTKA-VOLTERRA TYPE SYSTEM WITH NONLOCAL DELAY EFFECT</b>	<b>Times Cited: 7</b> ESI Hot
By: GUO, SJ; YAN, SL; Source: J DIFFERENTIAL EQUATIONS 260 (1): 781-817 JAN 5 2016 Research Fields: MATHEMATICS		
9	<b>POSITIVE SOLUTIONS OF KIRCHHOFF TYPE ELLIPTIC EQUATIONS IN R<sup>4</sup> WITH CRITICAL GROWTH</b>	<b>Times Cited: 2</b> ESI Hot
By: LIU, ZS; GUO, SJ; FANG, YQ; Source: MATH NACHR 290 (2-3): 367-381 FEB 2017 Research Fields: MATHEMATICS		

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- 1) GUAN XH, SUN YK, QIN HJ, LI JX, LO IMC, HE D, DONG HR\*. THE LIMITATIONS OF APPLYING ZERO-VALENT IRON TECHNOLOGY IN CONTAMINANTS SEQUESTRATION AND THE CORRESPONDING COUNTERMEASURES: THE DEVELOPMENT IN ZERO-VALENT IRON TECHNOLOGY IN THE LAST TWO DECADES (1994-2014). WATER RES. 2015. 75: 224-248
- 2) Min Cheng, Guangming Zeng\*, Danlian Huang\*, Cui Lai, Piao Xu, Chen Zhang, Yang Liu. Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. Chemical Engineering Journal 2016. 284 : 582-598

- Chen Zhang, Cui Lai, Guang-Ming Zeng\*, Dan-Lian Huang\*, Chunping Yang, Yang Wang, Yao-Yu Zhou, Min Cheng. Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. *Water Research*. 2016.95:103-112

### 13. Essential Science Indicators for Hot papers for Hunan Univ on 170511

#### Hot Papers by Institutions

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Total: 1	Institutions	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1	HUNAN UNIV	13,284	138,884	10.45	8

#### Papers by Research Field

**Citation Trends**

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× HUNAN UNIV

**Include Results For**  
Hot Papers

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- BROADBAND NONLINEAR OPTICAL RESPONSE IN MULTI-LAYER BLACK PHOSPHORUS: AN EMERGING INFRARED AND MID-INFRARED OPTICAL MATERIAL**

By: LU, SB; MIAO, LL; GUO, ZN; et al  
Source: OPT EXPRESS 23 (9): 11183-11194 MAY 4 2015  
Research Fields: PHYSICS

Times Cited: 137  
ESI Hot
- AN ULTRAFast RECHARGEABLE ALUMINIUM-ION BATTERY**

By: LIN, MC; GONG, M; LU, BG; et al  
Source: NATURE 520 (7547): 325-+ APR 16 2015  
Research Fields: CHEMISTRY

Times Cited: 113  
ESI Hot
- MECHANICALLY EXFOLIATED BLACK PHOSPHORUS AS A NEW SATURABLE ABSORBER FOR BOTH Q-SWITCHING AND MODE-LOCKING LASER OPERATION**

By: CHEN, Y; JIANG, GB; CHEN, SQ; et al  
Source: OPT EXPRESS 23 (10): 12823-12833 MAY 18 2015  
Research Fields: PHYSICS

Times Cited: 107  
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4	<p><b>APPLICATION OF BIOCHAR FOR THE REMOVAL OF POLLUTANTS FROM AQUEOUS SOLUTIONS</b></p> <p>By: TAN, XF; LIU, YG; ZENG, GM; et.al  Source: CHEMOSPHERE 125: 70-85 APR 2015  Research Fields: ENVIRONMENT/ECOLOGY</p>	<p><b>Times Cited: 77</b></p> <p> ESI Hot</p>
5	<p><b>SYNTHESIS AND APPLICATIONS OF NOVEL GRAPHITIC CARBON NITRIDE/METAL-ORGANIC FRAMEWORKS MESOPOROUS PHOTOCATALYST FOR DYES REMOVAL</b></p> <p>By: WANG, H; YUAN, XZ; WU, Y; et.al  Source: APPL CATAL B-ENVIRON 174: 445-454 SEP 2015  Research Fields: CHEMISTRY</p>	<p><b>Times Cited: 48</b></p> <p> ESI Hot</p>
6	<p><b>HYDROXYL RADICALS BASED ADVANCED OXIDATION PROCESSES (AOPS) FOR REMEDIATION OF SOILS CONTAMINATED WITH ORGANIC COMPOUNDS: A REVIEW</b></p> <p>By: CHENG, M; ZENG, GM; HUANG, DL; et.al  Source: CHEM ENG J 284: 582-598 JAN 15 2016  Research Fields: ENGINEERING</p>	<p><b>Times Cited: 28</b></p> <p> ESI Hot</p>
7	<p><b>DIRECT ENERGY REBOUND EFFECT FOR ROAD PASSENGER TRANSPORT IN CHINA: A DYNAMIC PANEL QUANTILE REGRESSION APPROACH</b></p> <p>By: ZHANG, YJ; PENG, HR; LIU, Z; et.al  Source: ENERG POLICY 87: 303-313 SP. ISS. SI DEC 2015  Research Fields: SOCIAL SCIENCES, GENERAL</p>	<p><b>Times Cited: 14</b></p> <p> ESI Hot</p>
8	<p><b>PHOTO-REDUCTION OF BROMATE IN DRINKING WATER BY METALLIC AG AND REDUCED GRAPHENE OXIDE (RGO) JOINTLY MODIFIED BIVO4 UNDER VISIBLE LIGHT IRRADIATION</b></p> <p>By: CHEN, F; YANG, Q; ZHONG, Y; et.al  Source: WATER RES 101: 555-563 SEP 15 2016  Research Fields: ENVIRONMENT/ECOLOGY</p>	<p><b>Times Cited: 8</b></p> <p> ESI Hot</p>

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以上 8 篇 Hot Paper 中 有 4 篇是环境学院的论文:

- 1) Xiaofei Tan, Yunguo Liu\*, Guangming Zeng, Xin Wang, Xinjiang Hu, Yanling Gu, Zhongzhu Yang. Application of biochar for the removal of pollutants from aqueous solutions. Chemosphere. 2015.125:70-85
- 2) Hou Wang; Xingzhong yuan\*; Yan Wu; Guangming Zeng; Xiaohong Chen; Lijian Leng; Hui Li. Synthesis and applications of novel graphitic carbon nitride/metal-organic frameworks mesoporous photocatalyst for dyes removal.Applied Catalysis B: Environmental .2015.174: 445-454
- 3) Min Cheng, Guangming Zeng\*, Danlian Huang\*, Cui Lai, Piao Xu, Chen Zhang, Yang Liu. Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. Chemical Engineering Journal 2016. 284 : 582–598
- 4) Fei Chen, Qi Yang\*, Yu Zhong, Hongxue An, Jianwei Zhao, Ting Xie, Qiuxiang Xu, Xiaoming Li, Dongbo Wang\*, Guangming Zeng. Photo-reduction of bromate in drinking water by metallic Ag and reduced

graphene oxide (RGO) jointly modified BiVO<sub>4</sub> under visible light irradiation. Water Research. 2016. 101:555-563

#### 14. Essential Science Indicators for Hot papers for Hunan Univ on 170309

### Hot Papers by Institutions

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Hot Papers

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Report View by Selection [Customize](#)

Total: 1	Institutions	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1	HUNAN UNIV	13,541	144,553	10.68	6

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### Papers by Research Field

**Citation Trends**

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**Include Results For**

Hot Papers

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Sort By Citations [Customize Documents](#) 1 - 6 of 6

- AN ULTRAFAST RECHARGEABLE ALUMINIUM-ION BATTERY** Times Cited: 78

By: LIN, MC; GONG, M; LU, BG; et.al ESI Hot

Source: NATURE 520 (7547): 325-+ APR 16 2015

Research Fields: CHEMISTRY
- APPLICATION OF BIOCHAR FOR THE REMOVAL OF POLLUTANTS FROM AQUEOUS SOLUTIONS** Times Cited: 64

By: TAN, XF; LIU, YG; ZENG, GM; et.al ESI Hot

Source: CHEMOSPHERE 125: 70-85 APR 2015

Research Fields: ENVIRONMENT/ECOLOGY
- THE DECOMPOSITION OF ENERGY-RELATED CARBON EMISSION AND ITS DECOUPLING WITH ECONOMIC GROWTH IN CHINA** Times Cited: 48

By: ZHANG, YJ; DA, YB; ESI Hot

Source: RENEW SUSTAIN ENERGY REV 41: 1255-1266 JAN 2015

Research Fields: ENGINEERING

4	<b>ETCHED AND DOPED CO<sub>9</sub>S<sub>8</sub>/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS</b> By: DOU, S; TAO, L; HUO, J; et.al Source: ENERGY ENVIRON SCI 9 (4): 1320-1326 2016 Research Fields: CHEMISTRY	Times Cited: 36 ESI Hot
5	<b>AN ENHANCED ELECTROCHEMICAL PLATFORM BASED ON GRAPHENE OXIDE AND MULTI-WALLED CARBON NANOTUBES NANOCOMPOSITE FOR SENSITIVE DETERMINATION OF SUNSET YELLOW AND TARTRAZINE</b> By: QIU, XL; LU, LM; LENG, J; et.al Source: FOOD CHEM 190: 889-895 JAN 1 2016 Research Fields: AGRICULTURAL SCIENCES	Times Cited: 12 ESI Hot
6	<b>INTERPRETING THE MOVEMENT OF OIL PRICES: DRIVEN BY FUNDAMENTALS OR BUBBLES?</b> By: ZHANG, YJ; YAO, T; Source: ECON MODEL 55: 226-240 JUN 2016 Research Fields: ECONOMICS & BUSINESS	Times Cited: 4 ESI Hot

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以上 6 篇 Hot Paper 中 有 1 篇是环境学院的论文:

### Application of biochar for the removal of pollutants from aqueous solutions

作者: Tan, XF (Tan, Xiaofei)<sup>[1,2]</sup>; Liu, YG (Liu, Yunguo)<sup>[1,2]</sup>; Zeng, GM (Zeng, Guangming)<sup>[1,2]</sup>; Wang, X (Wang, Xin)<sup>[3]</sup>; Hu, XJ (Hu, Xinjiang)<sup>[1,2]</sup>; Gu, YL (Gu, Yanling)<sup>[1,2]</sup>; Yang, ZZ (Yang, Zhongzhu)<sup>[1,2]</sup>  
[查看 ResearcherID 和 ORCID](#)

CHEMOSPHERE  
 卷: 125 页: 70-85  
 DOI: 10.1016/j.chemosphere.2014.12.058  
 出版年: APR 2015  
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**摘要**  
 In recent years, many studies have been devoted to investigate the application of biochar for pollutants removal from aqueous solutions. Biochar exhibits a great potential to efficiently tackle water contaminants considering the wide availability of feedstock, low-cost and favorable physical/chemical surface characteristics. This review provides an overview of biochar production technologies, biochar properties, and recent advances in the removal of heavy metals, organic pollutants and other inorganic pollutants using biochar. Experimental studies related to the adsorption behaviors of biochar toward various contaminants, key affecting factors and the underlying mechanisms proposed to explain the adsorption behaviors, have been comprehensively reviewed. Furthermore, research gaps and uncertainties that exist in the use of biochar as an adsorbent are identified. Further research needs for biochar and potential areas for future application of biochars are also proposed. (C) 2014 Elsevier Ltd. All rights reserved.

**关键词**  
 作者关键词: Biochar; Carbon sequestration; Adsorption; Aqueous solutions; Water pollution; Research

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**热点论文**  
**高被引论文**

needs

**KeyWords Plus:** POLYCYCLIC AROMATIC-HYDROCARBONS; DIFFERENT PYROLYTIC TEMPERATURES; BIOMASS-DERIVED BIOCHARS; SUGAR-BEET TAILINGS; HYDROTHERMAL CARBONIZATION; STRUCTURAL-PROPERTIES; CARBON SEQUESTRATION; SORPTION MECHANISMS; RESEARCH NEEDS; HEAVY-METALS

**作者信息**  
**通讯作者地址:** Liu, YG (通讯/作者)

- + Hunan Univ, Coll Environm Sci & Engn, Changsha 410082, Hunan, Peoples R China.

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- + [ 2 ] Hunan Univ, Key Lab Environm Biol & Pollut Control, Minist Educ, Changsha 410082, Hunan, Peoples R China
- + [ 3 ] Hunan Normal Univ, Coll Resources & Environm Sci, Changsha 410082, Hunan, Peoples R China

**电子邮件地址:** hnliuyunguo@gmail.com

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National Natural Science Foundation of China	41271332 41301339
Science and Technology Planning Project of Hunan Province, China	2012SK2021
Hunan Provincial Innovation Foundation for Postgraduate	CX2012B138

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 Vithanage, Meththika. Interaction of arsenic with biochar in soil and water: A critical review . CARBON, MAR 2017.  
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## 15. Essential Science Indicators for hot papers for Hunan Univ On 161214

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1 **BROADBAND NONLINEAR OPTICAL RESPONSE IN MULTI-LAYER BLACK PHOSPHORUS: AN EMERGING INFRARED AND MID-INFRARED OPTICAL MATERIAL** **Times Cited: 106**  
 ESI Hot  
 By: LU, SB; MIAO, LL; GUO, ZN; et.al  
 Source: OPT EXPRESS 23 (9): 11183-11194 MAY 4 2015  
 Research Fields: PHYSICS

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2 **MECHANICALLY EXFOLIATED BLACK PHOSPHORUS AS A NEW SATURABLE ABSORBER FOR BOTH Q-SWITCHING AND MODE-LOCKING LASER OPERATION** **Times Cited: 80**  
 ESI Hot  
 By: CHEN, Y; JIANG, GB; CHEN, SQ; et.al  
 Source: OPT EXPRESS 23 (10): 12823-12833 MAY 18 2015  
 Research Fields: PHYSICS

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3 **AN ULTRAFast RECHARGEABLE ALUMINIUM-ION BATTERY** **Times Cited: 60**  
 ESI Hot  
 By: LIN, MC; GONG, M; LU, BG; et.al  
 Source: NATURE 520 (7547): 325-+ APR 16 2015  
 Research Fields: CHEMISTRY

4 **THE LIMITATIONS OF APPLYING ZERO-VALENT IRON TECHNOLOGY IN CONTAMINANTS SEQUESTRATION AND THE CORRESPONDING COUNTERMEASURES: THE DEVELOPMENT IN ZERO-VALENT IRON TECHNOLOGY IN THE LAST TWO DECADES (1994-2014)**

Times Cited: 46



By: GUAN, XH; SUN, YK; QIN, HJ; et.al

Source: WATER RES 75: 224-248 MAY 15 2015

Research Fields: ENVIRONMENT/ECOLOGY

5 **ADVANCES IN UNDERSTANDING ALKALI-ACTIVATED MATERIALS**

Times Cited: 18



By: PROVIS, JL; PALOMO, A; SHI, CJ;

Source: CEM CONCR RES 78: 110-125 PART A SP. ISS. SI DEC 2015

Research Fields: MATERIALS SCIENCE

以上 6 篇 Hot Paper 中 有 1 篇是环境学院的论文:

### **The limitations of applying zero-valent iron technology in contaminants sequestration and the corresponding countermeasures: The development in zero-valent iron technology in the last two decades (1994-2014)**

作者: Guan, XH (Guan, Xiaohong)<sup>[1]</sup>; Sun, YK (Sun, Yuankui)<sup>[1]</sup>; Qin, HJ (Qin, Hejie)<sup>[1]</sup>; Li, JX (Li, Jinxiang)<sup>[1]</sup>; Lo, IMC (Lo, Irene M. C.)<sup>[2]</sup>; He, D (He, Di)<sup>[3]</sup>; Dong, HR (Dong, Haoran)<sup>[4]</sup>

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WATER RESEARCH

#### **作者信息**

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16. Essential Science Indicators has been updated as of November 10, 2016 to cover a 10-year plus 8-month period, January 1, 2006–August 31, 2016

## **HOT PAPERS** FOR (HUNAN UNIV)

Sorted by:

Citations

1 – 6 (of 6) [ 1 ] Page 1 of 1

### **1 Citations: 77**

Title: BROADBAND NONLINEAR OPTICAL RESPONSE IN MULTI-LAYER BLACK PHOSPHORUS: AN EMERGING INFRARED AND MID-INFRARED OPTICAL MATERIAL

Authors: LU SB; MIAO LL; GUO ZN; QI X; [ZHAO CJ](#); [ZHANG H](#); WEN SC; [TANG DY](#); FAN DY

Source: [OPT EXPRESS](#) 23 (9): 11183–11194 MAY 4 2015

Addresses: [Shenzhen Univ](#), Minist Educ & Guangdong Prov, Coll Optoelect Engn, SZU NUS Collaborat Innovat Ctr Optoelect Sci, Shenzhen 518060, Peoples R China.

[Shenzhen Univ](#), Coll Optoelect Engn, Minist Educ & Guangdong Prov, Key Lab Optoelect Devices & Syst, Shenzhen 518060, Peoples R China.

[Hunan Univ](#), Coll Phys & Microelect Sci, Minist Educ, Key Lab Micronano Optoelect Devices, Changsha 410082, Hunan, Peoples R China.

[Xiangtan Univ](#), Lab Quantum Engn & Micronano Energy Technol, Xiangtan 411105, Hunan, Peoples R China.

[Xiangtan Univ](#), Fac Mat & Optoelect Phys, Xiangtan 411105, Hunan, Peoples R China.

[Nanyang Technol Univ](#), Sch Elect & Elect Engn, Singapore 639798, [Singapore](#).

Field: [PHYSICS](#)

### **2 Citations: 40**

Title: CHLORINATED VOLATILE ORGANIC COMPOUNDS (CL-VOCS) IN ENVIRONMENT – SOURCES, POTENTIAL HUMAN HEALTH IMPACTS, AND CURRENT REMEDIATION TECHNOLOGIES

2

Authors: [HUANG BB](#); LEI C; [WEI CH](#); [ZENG GM](#)

Source: [ENVIRON INT](#) 71: 118–138 OCT 2014

Addresses: [Hunan Univ](#), Coll Environm Sci & Engn, Changsha 410082, Hunan, Peoples R China.

[Changsha Univ Sci & Technol](#), Sch Hydraul Engn, Changsha 410114,

Hunan, Peoples R China.

[S China Univ Technol](#), Guangdong Regular Higher Educ Inst, Key Lab Environm Protect & Ecoremediat, Guangzhou 510006, Guangdong, Peoples R China.

Field: [ENVIRONMENT/ECOLOGY](#)

### 3 Citations: 32

Title: THE LIMITATIONS OF APPLYING ZERO-VALENT IRON TECHNOLOGY IN CONTAMINANTS SEQUESTRATION AND THE CORRESPONDING COUNTERMEASURES: THE DEVELOPMENT IN ZERO-VALENT IRON TECHNOLOGY IN THE LAST TWO DECADES (1994-2014)

Authors: [GUAN XH](#); [SUN YK](#); [QIN HJ](#); [LI JX](#); [LO IMC](#); [HE D](#); [DONG HR](#)

Source: [WATER RES](#) 75: 224-248 MAY 15 2015

Addresses: [Tongji Univ](#), Coll Environm Sci & Engn, State Key Lab Pollut Control & Resources Reuse, Shanghai 200092, Peoples R China.

[Hong Kong Univ Sci & Technol](#), Dept Civil & Environm Engn, Hong Kong, Hong Kong, Peoples R China.

[Univ New S Wales](#), Sch Civil & Environm Engn, Sydney, NSW 2052, [Australia](#).

[Hunan Univ](#), Coll Environm Sci & Engn, Key Lab Environm Biol & Pollut Control, Changsha 410082, Hunan, Peoples R China.

Field: [ENVIRONMENT/ECOLOGY](#)

### 4 Citations: 12

Title: EXPERIMENTAL STUDIES OF REGENERATION HEAT DUTY FOR CO2 DESORPTION FROM DIETHYLENETRIAMINE (DETA) SOLUTION IN A STRIPPER COLUMN PACKED WITH DIXON RING RANDOM PACKING

Authors: [ZHANG X](#); [FU KY](#); [LIANG ZW](#); [RONGWONG W](#); [YANG Z](#); [IDEM R](#); [TONTIWACHWUTHIKUL P](#)

3

Source: [FUEL](#) 136: 261-267 NOV 15 2014

Addresses: [Hunan Univ](#), Joint Int Ctr Capture & Storage iCCS CO2, Prov Key Lab Cost Effect Utilizat Fossil Fuel Aim, Dept Chem Engn, Changsha 410082, Hunan, Peoples R China.

Field: [ENGINEERING](#)

### 5 Citations: 8

Title: HYDROXYL RADICALS BASED ADVANCED OXIDATION PROCESSES (AOPS) FOR REMEDIATION OF SOILS CONTAMINATED WITH ORGANIC COMPOUNDS: A REVIEW

Authors: [CHENG M](#); [ZENG GM](#); [HUANG DL](#); [LAI C](#); [XU P](#); [ZHANG C](#); [LIU Y](#)

Source: [CHEM ENG J](#) 284: 582-598 JAN 15 2016

Addresses: [Hunan Univ](#), Coll Environm Sci & Engn, Changsha 410082, Hunan, Peoples R China.

[Hunan Univ](#), Minist Educ, Key Lab Environm Biol & Pollut Control,  
Changsha 410082, Hunan, Peoples R China.

Field: [ENGINEERING](#)

### 6 Citations: 6

Title: NO-REFERENCE IMAGE BLUR ASSESSMENT BASED ON DISCRETE ORTHOGONAL  
MOMENTS

Authors: [LI LD](#); [LIN WS](#); [WANG XS](#); [YANG GB](#); [BAHRAMI K](#); [KOT AC](#)

Source: [IEE TRANS CYBERN](#) 46 (1): 39-50 JAN 2016

Addresses: [China Univ Min & Technol](#), Sch Informat & Elect Engn, Xuzhou  
221116, Peoples R China.

[Nanyang Technol Univ](#), Sch Comp Engn, Singapore 639798, [Singapore](#).

[Hunan Univ](#), Sch Informat Sci & Engn, Changsha 410082, Peoples R  
China.

[Nanyang Technol Univ](#), Sch Elect & Elect Engn, Singapore  
639798, [Singapore](#).

Field: [COMPUTER SCIENCE](#)

以上 6 篇 Hot Paper 中 有 2 篇是环境学院的论文。