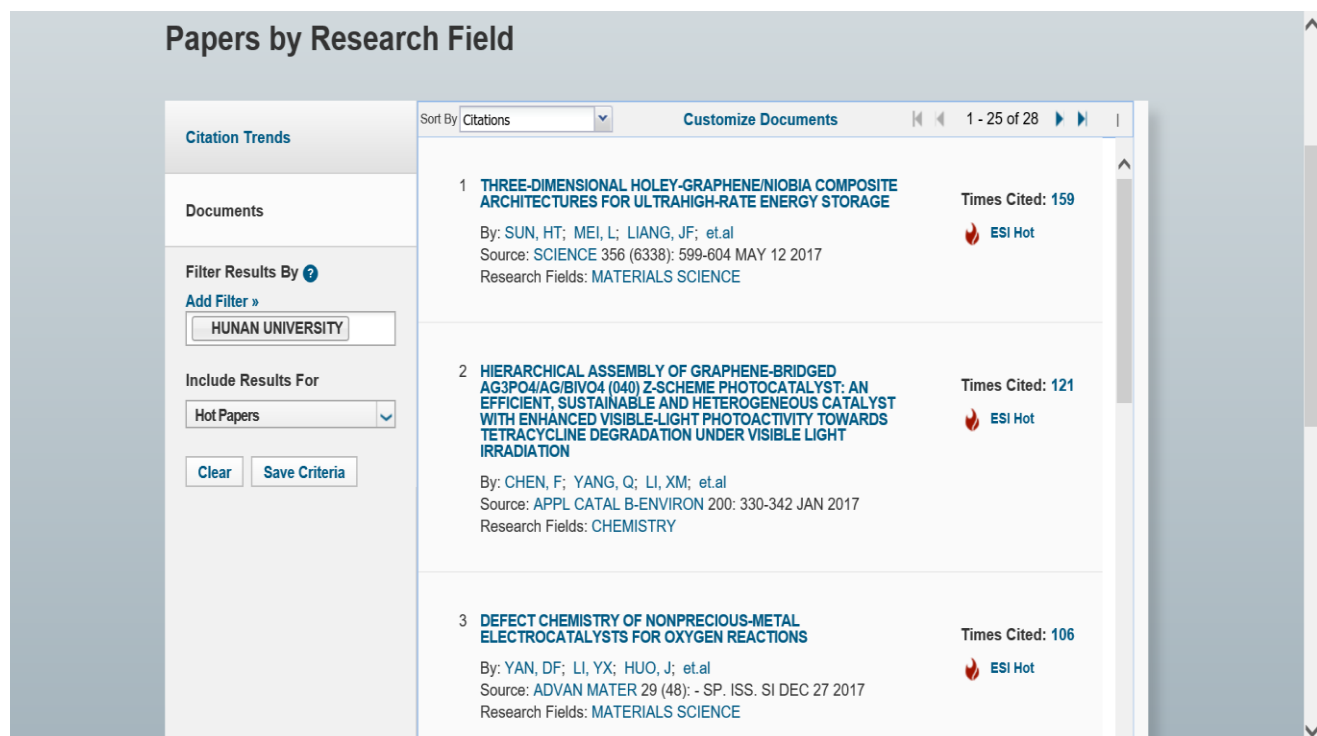
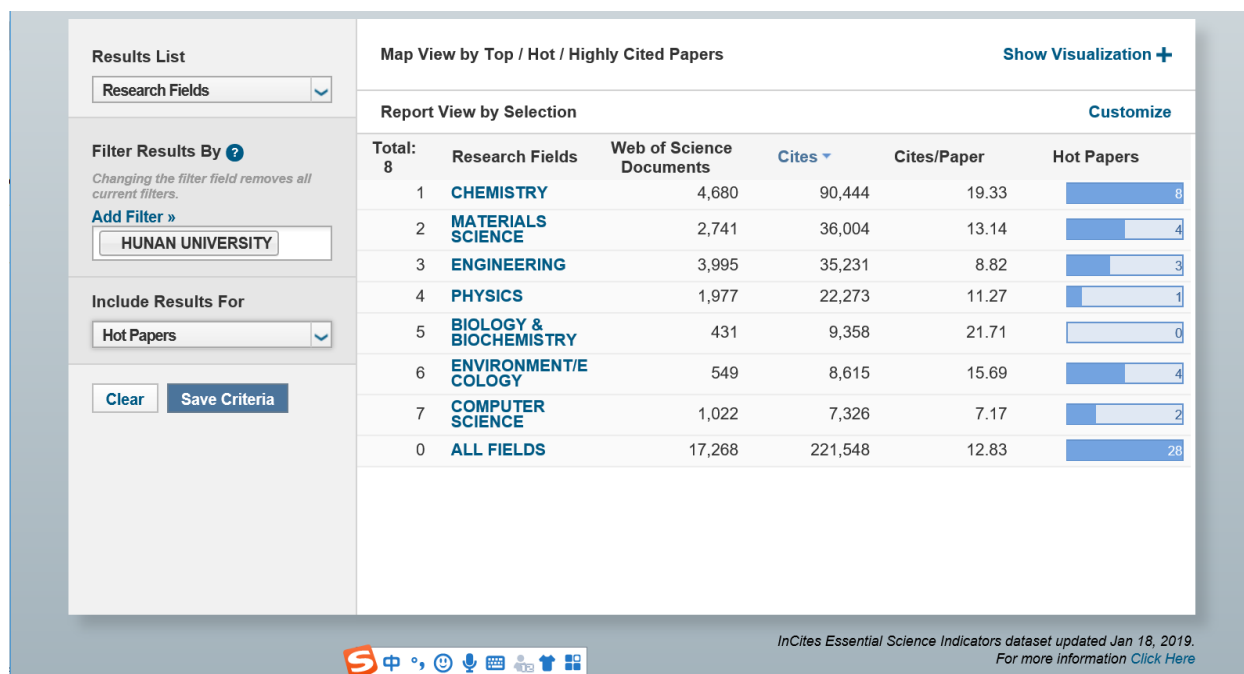


Essential Science Indicators for Hot papers for Hunan Univ on 18 Jan 2019 from 10 Nov 2016

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



Add Filter » HUNAN UNIVERSITY Include Results For Hot Papers Clear Save Criteria	4 DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW 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: 83 ESI Hot
	5 FILLING THE OXYGEN VACANCIES IN CO₃O₄ WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING By: XIAO, ZH; WANG, Y; HUANG, YC; et.al Source: ENERGY ENVIRON SCI 10 (12): 2563-2569 DEC 2017 Research Fields: CHEMISTRY Times Cited: 63 ESI Hot
	6 PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW By: ZENG, GM; WAN, J; HUANG, DL; et.al Source: J HAZARD MATER 339: 354-367 OCT 5 2017 Research Fields: ENGINEERING Times Cited: 60 ESI Hot
	7 A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al Source: NAT ENERGY 2 (9): - SEP 2017 Research Fields: ENGINEERING Times Cited: 47 ESI Hot

Hot Papers Clear Save Criteria	8 COMBINATION OF FENTON PROCESSES AND BIOTREATMENT FOR WASTEWATER TREATMENT AND SOIL REMEDIATION 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: 44 ESI Hot
	9 SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL By: REN, XY; ZENG, GM; TANG, L; et.al Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY Times Cited: 43 ESI Hot
	10 HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN By: ZHOU, CY; LAI, C; HUANG, DL; et.al Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018 Research Fields: CHEMISTRY Times Cited: 39 ESI Hot
	11 STABILIZATION OF NANOSCALE ZERO-VALENT IRON (NZVI) WITH MODIFIED BIOCHAR FOR CR(VI) REMOVAL FROM AQUEOUS SOLUTION By: DONG, HR; DENG, JM; XIE, YK; et.al Source: J HAZARD MATER 332: 79-86 JUN 15 2017 Research Fields: ENGINEERING Times Cited: 38 ESI Hot

Hot Papers Clear Save Criteria	12 CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA By: ZHANG, YJ; PENG, YL; MA, CQ; et.al Source: ENER POLICY 100: 18-28 JAN 2017 Research Fields: SOCIAL SCIENCES, GENERAL	Times Cited: 34  ESI Hot
	13 GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN4C4 SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES By: FEI, HL; DONG, JC; FENG, YX; et.al Source: NAT CATAL 1 (1): 63-72 JAN 2018 Research Fields: CHEMISTRY	Times Cited: 32  ESI Hot
	14 CELL IMAGING OF DOPAMINE RECEPTOR USING AGONIST LABELING IRIIDIUM(III) COMPLEX By: VELLAISAMY, K; LI, GD; KO, CN; et.al Source: CHEM SCI 9 (5): 1119-1125 FEB 7 2018 Research Fields: CHEMISTRY	Times Cited: 29  ESI Hot
	15 COMPREHENSIVE EVALUATION OF THE CYTOTOXICITY OF CDSE/ZNS QUANTUM DOTS IN PHANEROCHAETE CHRYSOSPORIUM BY CELLULAR UPTAKE AND OXIDATIVE STRESS By: HU, L; WAN, J; ZENG, GM; et.al Source: ENVIRON-SCI NANO 4 (10): 2018-2029 OCT 1 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 28  ESI Hot

Hot Papers Clear Save Criteria	16 PCA-BASED EDGE-PRESERVING FEATURES FOR HYPERSPECTRAL IMAGE CLASSIFICATION By: KANG, XD; XIANG, XL; LI, ST; et.al Source: IEEE TRANS GEOSCI REMOT SEN 55 (12): 7140-7151 DEC 2017 Research Fields: GEOSCIENCES	Times Cited: 25  ESI Hot
	17 OXYGEN-DEFICIENT ANATASE TiO2@C NANOSPINDLES WITH PSEUDOCAPACITIVE CONTRIBUTION FOR ENHANCING LITHIUM STORAGE 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	Times Cited: 24  ESI Hot
	18 IN SITU GROWN AgI/Bi2O17CL2 HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE LIGHT DEGRADATION OF SULFAMETHAZINE: EFFICIENCY, PATHWAY, AND MECHANISM By: ZHOU, CY; LAI, C; XU, P; et.al Source: ACS SUSTAIN CHEM ENG 6 (3): 4174-4184 MAR 2018 Research Fields: CHEMISTRY	Times Cited: 22  ESI Hot

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26	EFFICIENT DEGRADATION OF SULFAMETHAZINE IN SIMULATED AND REAL WASTEWATER AT SLIGHTLY BASIC PH VALUES USING CO-SAM-SCS /H₂O₂ FENTON-LIKE SYSTEM	Times Cited: 8 ESI Hot
By: CHENG, M; ZENG, GM; HUANG, DL; et.al Source: WATER RES 138: 7-18 JUL 1 2018 Research Fields: ENVIRONMENT/ECOLOGY		
27	PLASMONICALLY INDUCED TRANSPARENCY IN DOUBLE-LAYERED GRAPHENE NANORIBBONS	Times Cited: 8 ESI Hot
By: XIA, SX; ZHAI, X; WANG, LL; et.al Source: PHOTONICS RES 6 (7): 692-702 JUL 1 2018 Research Fields: PHYSICS		
28	MINIMIZING SLA VIOLATION AND POWER CONSUMPTION IN CLOUD DATA CENTERS USING ADAPTIVE ENERGY-AWARE ALGORITHMS	Times Cited: 4 ESI Hot
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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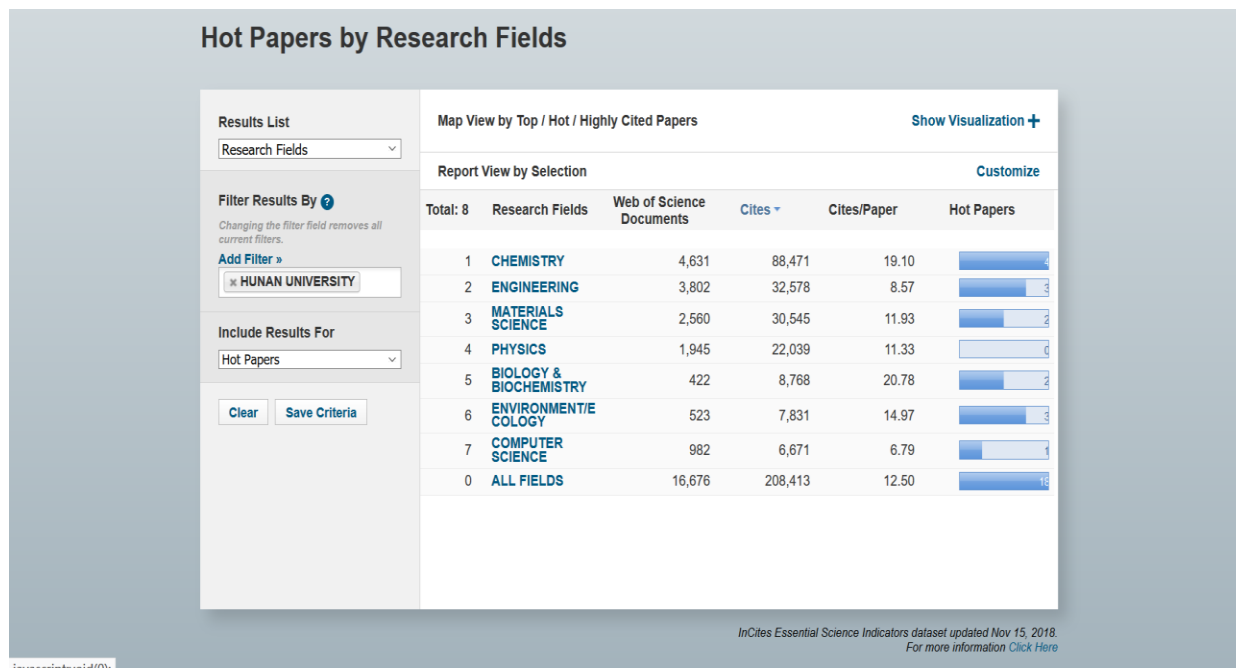
以上 28 篇 Hot Paper 中 有 12 篇是环境学院的论文:

- 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 Ag₃PO₄/Ag/BiVO₄ (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 AgI/Bi₂O₃/Bi₂WO₆ Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway and Mechanism. *ACS Sustainable Chemistry & Engineering*(SCI 2017 IF=6.140). 2018.6:4174-4184 (ESI Highly Cited Paper and ESI Hot Paper)
- 10) Chengyun Zhou¹, Cui Lai¹, Piao Xu¹, 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/Bi₂O₃/Bi₂WO₆ 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 /H₂O₂ Fenton-like system. *Water Research*(SCI 2017 IF=7.051). 2018. 138:7-18(ESI Highly Cited Paper and ESI Hot Paper)

2. Essential Science Indicators for Hot papers for Hunan Univ on 15 Nov 2018



Documents	1	THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE	Times Cited: 136
Filter Results By	By: SUN, HT; MEI, L; LIANG, JF; et al		ESI Hot
Add Filter »	Source: SCIENCE 356 (6338): 599-604 MAY 12 2017		
HUNAN UNIVERSITY	Research Fields: CHEMISTRY		
Include Results For	2	VAN DER WAALS HETEROSTRUCTURES AND DEVICES	Times Cited: 136
Hot Papers	By: LIU, Y; WEISS, NO; DUAN, XD; et al		ESI Hot
Clear	Source: NAT REV MATER 1 (9): - SEP 2016		
Save Criteria	Research Fields: MATERIALS SCIENCE		
	3	DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS	Times Cited: 84
	By: YAN, DF; LI, YX; HUO, J; et al		ESI Hot
	Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017		
	Research Fields: MATERIALS SCIENCE		
	4	DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW	Times Cited: 58
	By: JIANG, LB; YUAN, XZ; PAN, Y; et al		ESI Hot
	Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017		
	Research Fields: CHEMISTRY		
	5	CHALLENGES AND SOLUTIONS FOR BIOFILTRATION OF HYDROPHOBIC VOLATILE ORGANIC COMPOUNDS	Times Cited: 56
	By: CHENG, Y; HE, HJ; YANG, CP; et al		ESI Hot
	Source: BIOTECHNOL ADV 34 (6): 1091-1102 NOV 1 2016		
	Research Fields: BIOLOGY & BIOCHEMISTRY		

Filter Results By ? Add Filter » ✕ HUNAN UNIVERSITY Include Results For Hot Papers Clear Save Criteria	6 PIXEL-LEVEL IMAGE FUSION: A SURVEY OF THE STATE OF THE ART By: LI, ST; KANG, XD; FANG, LY; et.al Source: INF FUSION 33: 100-112 JAN 2017 Research Fields: COMPUTER SCIENCE Times Cited: 55 ESI Hot
	7 PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW By: ZENG, GM; WAN, J; HUANG, DL; et.al Source: J HAZARD MATER 339: 354-367 OCT 5 2017 Research Fields: ENGINEERING Times Cited: 47 ESI Hot
	8 A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al Source: NAT ENERGY 2 (9): - SEP 2017 Research Fields: ENGINEERING Times Cited: 33 ESI Hot
	9 CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA By: ZHANG, YJ; PENG, YL; MA, CQ; et.al Source: ENERG POLICY 100: 18-28 JAN 2017 Research Fields: SOCIAL SCIENCES, GENERAL Times Cited: 25 ESI Hot

✕ HUNAN UNIVERSITY Include Results For Hot Papers Clear Save Criteria	10 RHAMNOLIPID STABILIZED NANO-CHLORAPATITE: SYNTHESIS AND ENHANCEMENT EFFECT ON PB-AND CD-IMMOBILIZATION IN POLLUTED SEDIMENT By: WAN, J; ZENG, GM; HUANG, DL; et.al Source: J HAZARD MATER 343: 332-339 FEB 5 2018 Research Fields: ENGINEERING Times Cited: 24 ESI Hot
	11 SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL By: REN, XY; ZENG, GM; TANG, L; et.al Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY Times Cited: 21 ESI Hot
	12 GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN4C4 SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES By: FEI, HL; DONG, JC; FENG, YX; et.al Source: NAT CATAL 1 (1): 63-72 JAN 2018 Research Fields: CHEMISTRY Times Cited: 17 ESI Hot
	13 MODIFICATION OF BIOCHAR DERIVED FROM SAWDUST AND ITS APPLICATION IN REMOVAL OF TETRACYCLINE AND COPPER FROM AQUEOUS SOLUTION: ADSORPTION MECHANISM AND MODELLING By: ZHOU, YY; LIU, XC; XIANG, YJ; et.al Source: BIORESOURCE TECHNOL 245: 266-273 PART A DEC 2017 Research Fields: BIOLOGY & BIOCHEMISTRY Times Cited: 14 ESI Hot

14	HIGHLY EFFICIENT VISIBLE-LIGHT-INDUCED PHOTOACTIVITY OF Z-SCHEME Ag₂CO₃/Ag/WO₃ PHOTOCATALYSTS FOR ORGANIC POLLUTANT DEGRADATION	Times Cited: 9 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	
15	SCALABLE ONE-STEP PRODUCTION OF POROUS OXYGEN-DOPED G-C₃N₄ NANORODS WITH EFFECTIVE ELECTRON SEPARATION FOR EXCELLENT VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY	Times Cited: 7 ESI Hot
	By: ZENG, YX; LIU, X; LIU, CB; et.al Source: APPL CATAL B-ENVIRON 224: 1-9 MAY 2018 Research Fields: CHEMISTRY	
16	RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES	Times Cited: 7 ESI Hot
	By: HE, L; LI, J; LIU, CY; et.al Source: IEEE TRANS GEOSCI REMOT SEN 56 (3): 1579-1597 MAR 2018 Research Fields: GEOSCIENCES	

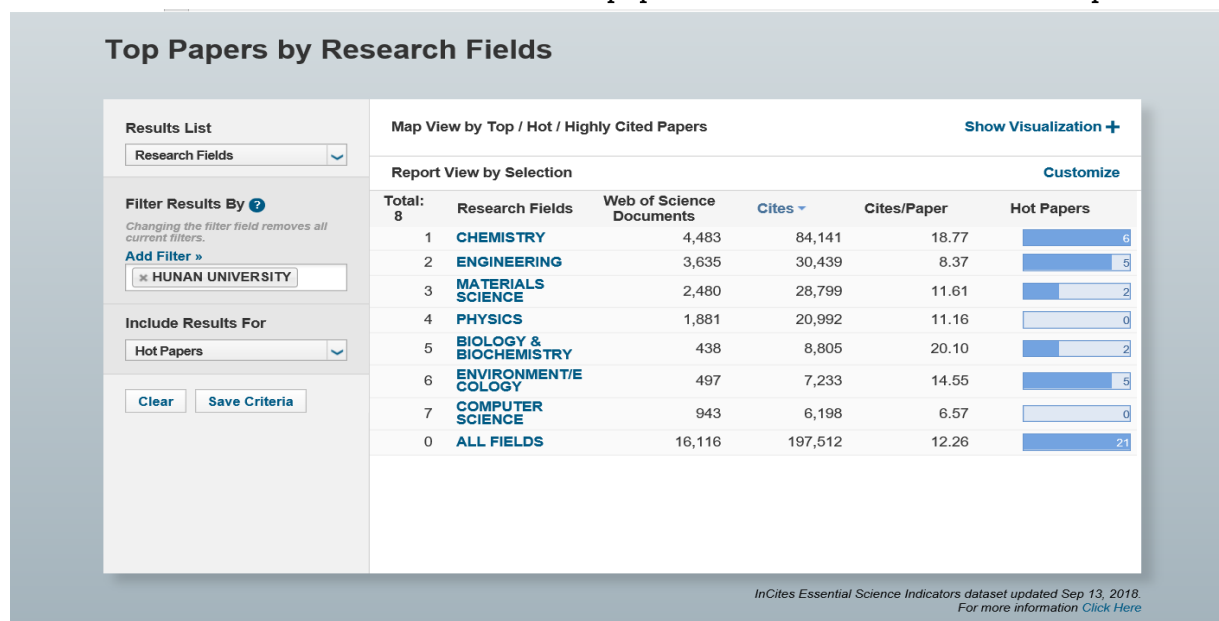
16	RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES	Times Cited: 7 ESI Hot
	By: HE, L; LI, J; LIU, CY; et.al Source: IEEE TRANS GEOSCI REMOT SEN 56 (3): 1579-1597 MAR 2018 Research Fields: GEOSCIENCES	
17	FACTORS INFLUENCING DEGRADATION OF TRICHLOROETHYLENE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

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 Ag₂CO₃/Ag/WO₃ 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)

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



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- THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE**

By: SUN, HT; MEI, L; LIANG, JF; et.al

Source: SCIENCE 356 (6338): 599-604 MAY 12 2017

Research Fields: CHEMISTRY

Times Cited: 108

ESI Hot
- LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS**

By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al

Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017

Research Fields: CHEMISTRY

Times Cited: 78

ESI Hot
- DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS**

By: YAN, DF; LI, YX; HUO, J; et.al

Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017

Research Fields: MATERIALS SCIENCE

Times Cited: 63

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- WATER-PLASMA-ENABLED EXFOLIATION OF ULTRATHIN LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIVACANCIES FOR WATER OXIDATION**

By: LIU, R; WANG, YY; LIU, DD; et.al

Source: ADVAN MATER 29 (30): - AUG 11 2017

Research Fields: MATERIALS SCIENCE

Times Cited: 54

ESI Hot
- IMMOBILIZATION OF CD IN RIVER SEDIMENTS BY SODIUM ALGinate MODIFIED NANOSCALE ZERO-VALENT IRON: IMPACT ON ENZYME ACTIVITIES AND MICROBIAL COMMUNITY DIVERSITY**

By: HUANG, DL; XUE, WJ; ZENG, GM; et.al

Source: WATER RES 106: 15-25 DEC 1 2016

Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 45

ESI Hot
- CHALLENGES AND SOLUTIONS FOR BIOFILTRATION OF HYDROPHOBIC VOLATILE ORGANIC COMPOUNDS**

By: CHENG, Y; HE, HJ; YANG, CP; et.al

Source: BIOTECHNOL ADV 34 (6): 1091-1102 NOV 1 2016

Research Fields: BIOLOGY & BIOCHEMISTRY

Times Cited: 45

ESI Hot

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		8 PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW By: ZENG, GM; WAN, J; HUANG, DL; et.al Source: J HAZARD MATER 339: 354-367 OCT 5 2017 Research Fields: ENGINEERING Times Cited: 39 ESI Hot
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	13 THEORETICAL, NUMERICAL, AND EXPERIMENTAL STUDY ON LATEROALLY VARIABLE THICKNESS (LVT) MULTI-CELL TUBES FOR CRASHWORTHINESS By: ZHENG, G; PANG, T; SUN, GY; et.al Source: INT J MECH SCI 118: 283-297 NOV 2016 Research Fields: ENGINEERING Times Cited: 18 ESI Hot

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	16 RHAMNOLIPID STABILIZED NANO-CHLORAPATITE: SYNTHESIS AND ENHANCEMENT EFFECT ON PB-AND CD-IMMOBILIZATION IN POLLUTED SEDIMENT By: WAN, J; ZENG, GM; HUANG, DL; et.al Source: J HAZARD MATER 343: 332-339 FEB 5 2018 Research Fields: ENGINEERING Times Cited: 15 ESI Hot

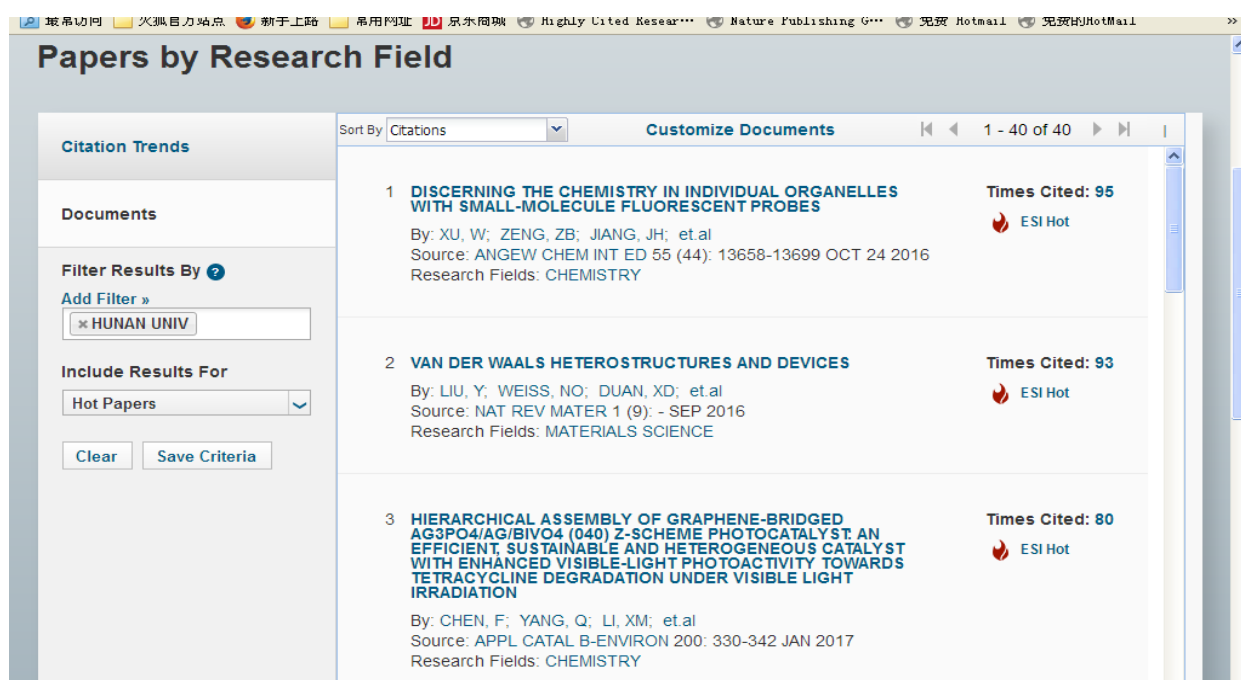
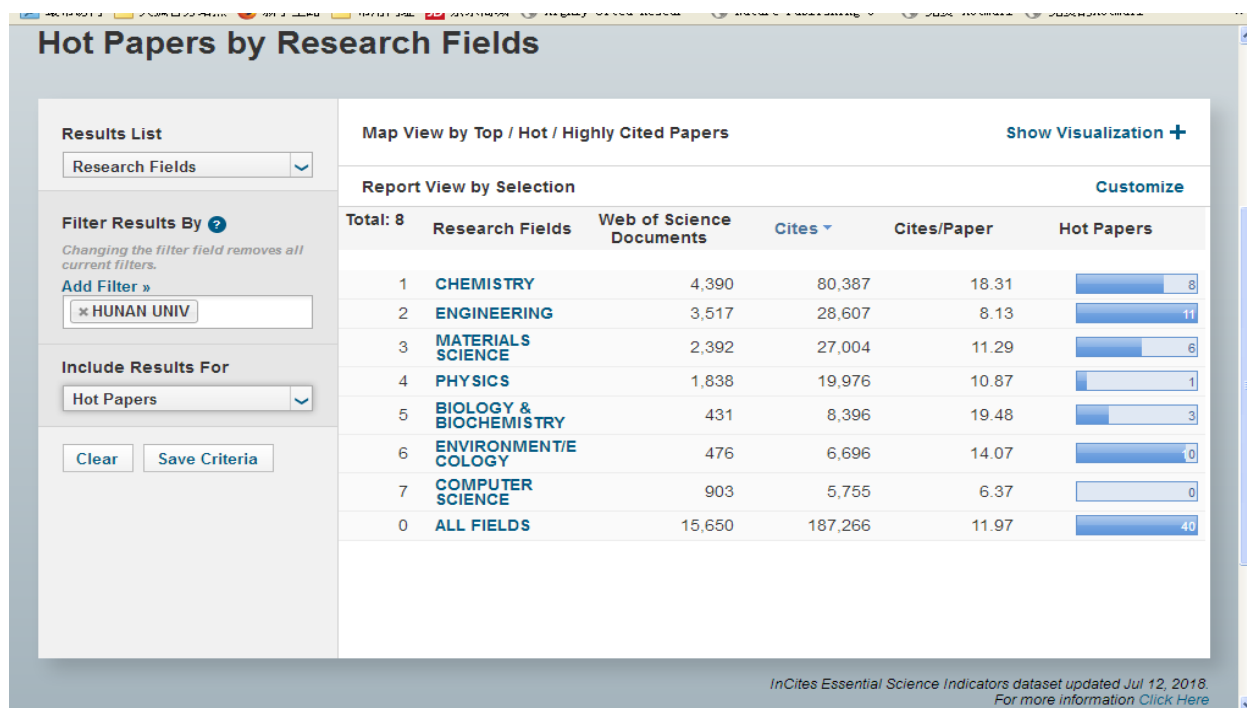
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	18 SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL By: REN, XY; ZENG, GM; TANG, L; et.al Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY Times Cited: 12 ESI Hot	
	19 CORRELATION STRUCTURE AND EVOLUTION OF WORLD STOCK MARKETS: EVIDENCE FROM PEARSON AND PARTIAL CORRELATION-BASED NETWORKS By: WANG, GJ; XIE, C; STANLEY, HE; Source: COMPUT ECON 51 (3): 607-635 MAR 2018 Research Fields: ECONOMICS & BUSINESS Times Cited: 10 ESI Hot	
	20 FARADAIC REACTIONS IN CAPACITIVE DEIONIZATION (CDI) - PROBLEMS AND POSSIBILITIES: A REVIEW By: ZHANG, CY; HE, D; MA, JX; et.al Source: WATER RES 128: 314-330 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY Times Cited: 9 ESI Hot	
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- 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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THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE
 By: SUN, HT; MEI, L; LIANG, JF; et.al
 Source: SCIENCE 356 (6338): 599-604 MAY 12 2017
 Research Fields: CHEMISTRY

Times Cited: 76

ESI Hot

5

IN SITU SYNTHESIS OF IN2S3@MIL-125(TI) CORE-SHELL MICROPARTICLE FOR THE REMOVAL OF TETRACYCLINE FROM WASTEWATER BY INTEGRATED ADSORPTION AND VISIBLE-LIGHT-DRIVEN PHOTOCATALYSIS
 By: WANG, H; YUAN, XZ; WU, Y; et.al
 Source: APPL CATAL B-ENVIRON 186: 19-29 JUN 5 2016
 Research Fields: CHEMISTRY

Times Cited: 71

ESI Hot

6

EFFICACY OF CARBONACEOUS NANOCOMPOSITES FOR SORBING IONIZABLE ANTIBIOTIC SULFAMETHAZINE FROM AQUEOUS SOLUTION
 By: ZHANG, C; LAI, C; ZENG, GM; et.al
 Source: WATER RES 95: 103-112 MAY 15 2016
 Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 62

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LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS
 By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al
 Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017
 Research Fields: CHEMISTRY

Times Cited: 61

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8

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

Times Cited: 57

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9

SELECTIVE VISUALIZATION OF THE ENDOGENOUS PEROXYNITRITE IN AN INFLAMED MOUSE MODEL BY A MITOCHONDRIA-TARGETABLE TWO-PHOTON RATIOMETRIC FLUORESCENT PROBE
 By: CHENG, D; PAN, Y; WANG, L; et.al
 Source: J AM CHEM SOC 139 (1): 285-292 JAN 11 2017
 Research Fields: CHEMISTRY

Times Cited: 55

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

Times Cited: 42

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11

WATER-PLASMA-ENABLED EXFOLIATION OF ULTRATHIN LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIVACANCIES FOR WATER OXIDATION
 By: LIU, R; WANG, YY; LIU, DD; et.al
 Source: ADVAN MATER 29 (30): - AUG 11 2017
 Research Fields: MATERIALS SCIENCE

Times Cited: 37

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12

IMMOBILIZATION OF CD IN RIVER SEDIMENTS BY SODIUM ALGINATE MODIFIED NANOSCALE ZERO-VALENT IRON: IMPACT ON ENZYME ACTIVITIES AND MICROBIAL COMMUNITY DIVERSITY
 By: HUANG, DL; XUE, WJ; ZENG, GM; et.al
 Source: WATER RES 106: 15-25 DEC 1 2016
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13 PROSPECTS OF FUEL CELL TECHNOLOGIES

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Research Fields: MULTIDISCIPLINARY

Times Cited: 32

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14 PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW

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 ATOMIC-SCALE COOX SPECIES IN METAL-ORGANIC FRAMEWORKS FOR OXYGEN EVOLUTION REACTION

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

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16 DEGRADATION OF ATRAZINE BY A NOVEL FENTON-LIKE PROCESS AND ASSESSMENT THE INFLUENCE ON THE TREATED SOIL

By: CHENG, M; ZENG, GM; HUANG, DL; et.al
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Research Fields: ENGINEERING

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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

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18 ROBUST EPITAXIAL GROWTH OF TWO-DIMENSIONAL HETEROSTRUCTURES, MULTIHETEROSTRUCTURES, AND SUPERLATTICES

By: ZHANG, ZW; CHEN, P; DUAN, XD; et.al
Source: SCIENCE 357 (6353): 788-+ AUG 25 2017
Research Fields: PHYSICS

Times Cited: 28

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19 SRTIO3 NANOCUBES DECORATED WITH AG/AGCL NANOPARTICLES AS PHOTOCATALYSTS WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY TOWARDS THE DEGRADATION OF DYES, PHENOL AND BISPHENOL A

By: YANG, SF; NIU, CG; HUANG, DW; et.al
Source: ENVIRON-SCI NANO 4 (3): 585-595 MAR 1 2017
Research Fields: ENVIRONMENT/ECOLOGY

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20 IS DENITRIFYING ANAEROBIC METHANE OXIDATION-CENTERED TECHNOLOGIES A SOLUTION FOR THE SUSTAINABLE OPERATION OF WASTEWATER TREATMENT PLANTS?

By: WANG, DB; WANG, YL; LIU, YW; et.al
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	22 COMBINATION OF FENTON PROCESSES AND BIOTREATMENT FOR WASTEWATER TREATMENT AND SOIL REMEDIATION 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 APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION 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 ADVANTAGES AND CHALLENGES OF TWEEN 80 SURFACTANT-ENHANCED TECHNOLOGIES FOR THE REMEDIATION OF SOILS CONTAMINATED WITH HYDROPHOBIC ORGANIC COMPOUNDS 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 FILLING THE OXYGEN VACANCIES IN CO₃O₄ WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING 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 EVALUATION METHODS FOR ASSESSING EFFECTIVENESS OF IN SITU REMEDIATION OF SOIL AND SEDIMENT CONTAMINATED WITH ORGANIC POLLUTANTS AND HEAVY METALS 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 THE EFFECTS OF RICE STRAW BIOCHAR ON INDIGENOUS MICROBIAL COMMUNITY AND ENZYMES ACTIVITY IN HEAVY METAL-CONTAMINATED SEDIMENT 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	

28	AGED REFUSE ENHANCES ANAEROBIC DIGESTION OF WASTE ACTIVATED SLUDGE By: ZHAO, JW; GUI, L; WANG, QL; et.al Source: WATER RES 123: 724-733 OCT 15 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 17 ESI Hot
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31	UNDERSTANDING AND MITIGATING THE TOXICITY OF CADMIUM TO THE ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE By: XU, QX; LI, XM; DING, RR; et.al Source: WATER RES 124: 269-279 NOV 1 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 13 ESI Hot

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34	COMPREHENSIVE EVALUATION OF THE CYTOTOXICITY OF CDSE/ZNS QUANTUM DOTS IN PHANEROCHAETE CHRYSOSPORIUM BY CELLULAR UPTAKE AND OXIDATIVE STRESS By: HU, L; WAN, J; ZENG, GM; et.al Source: ENVIRON-SCI NANO 4 (10): 2018-2029 OCT 1 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 10 ESI Hot

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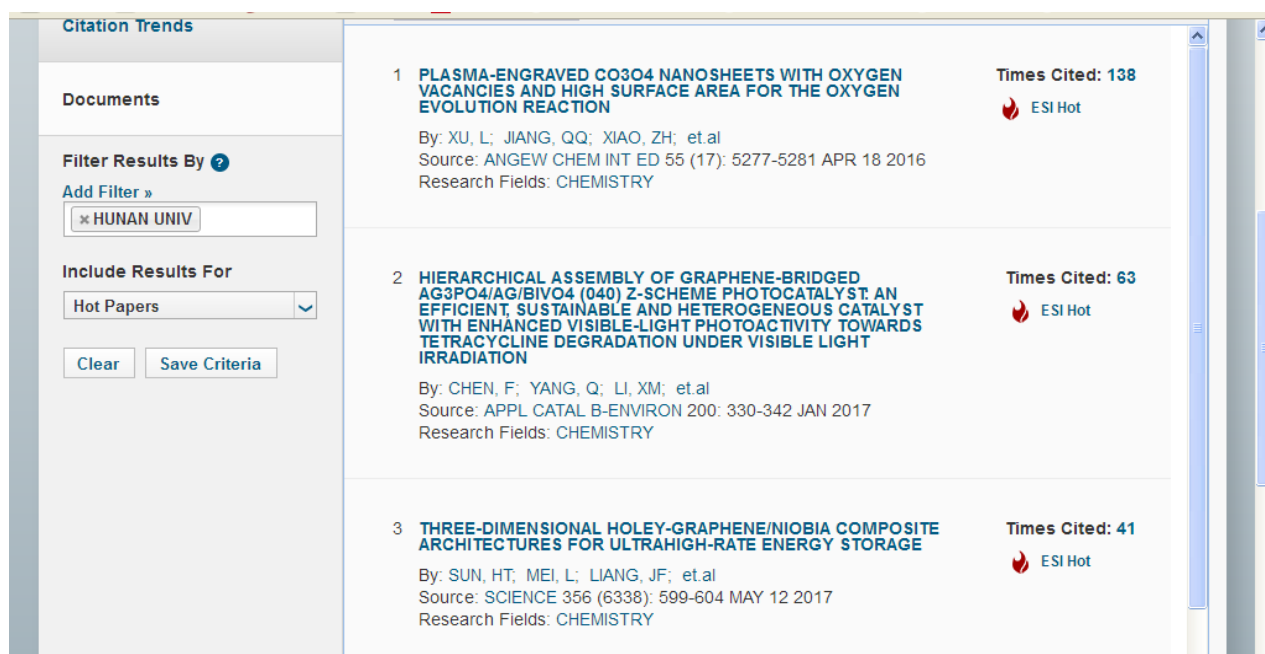
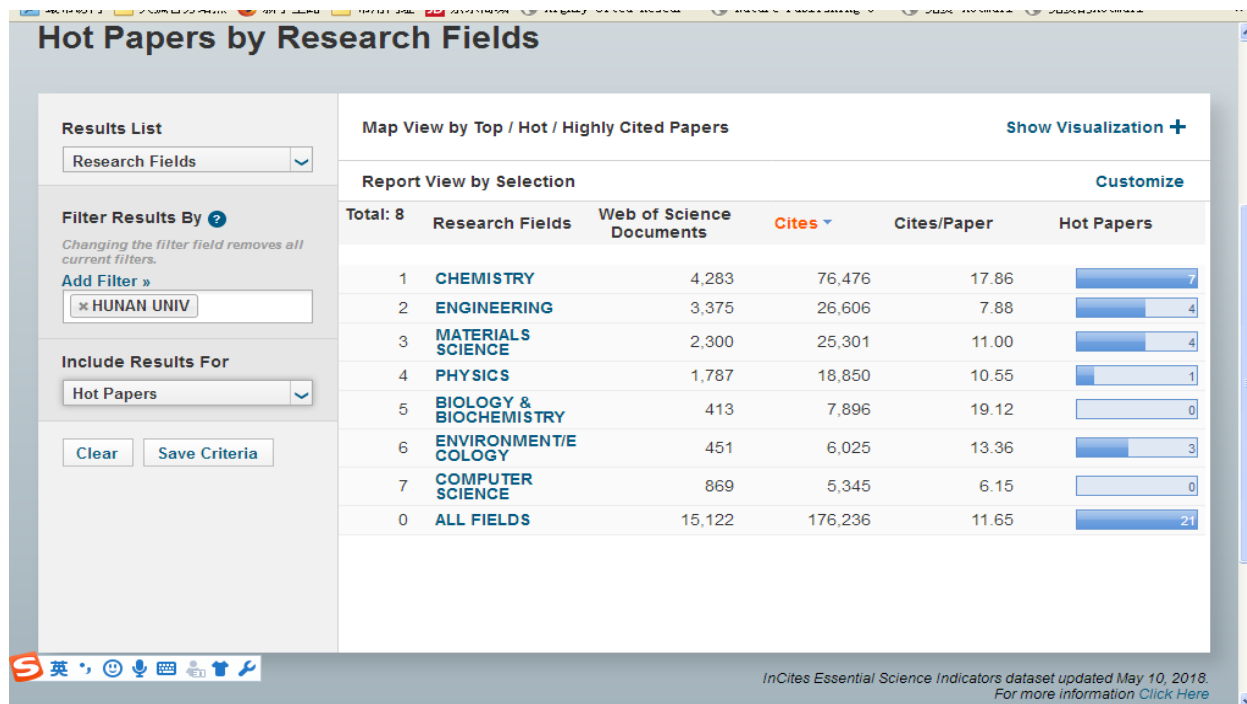
- 1) Fei Chen, Qi Yang*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag₃PO₄/Ag/BiVO₄ (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light 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 In₂S₃@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*. 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**)
 - 8) Dongbo Wang*, Yali Wang, Yiwen Liu, Huu 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, Huu 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*, Guiqu 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。

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



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SELECTIVE VISUALIZATION OF THE ENDOGENOUS PEROXYNITRITE IN AN INFLAMED MOUSE MODEL BY A MITOCHONDRIA-TARGETABLE TWO-PHOTON RATIO-METRIC FLUORESCENT PROBE
 By: CHENG, D; PAN, Y; WANG, L; et.al
 Source: J AM CHEM SOC 139 (1): 285-292 JAN 11 2017
 Research Fields: CHEMISTRY

Times Cited: 40
 ESI Hot

5

LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS
 By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al
 Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017
 Research Fields: CHEMISTRY

Times Cited: 37
 ESI Hot

6

WATER-PLASMA-ENABLED EXFOLIATION OF ULTRATHIN LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIVACANCIES FOR WATER OXIDATION
 By: LIU, R; WANG, YY; LIU, DD; et.al
 Source: ADVAN MATER 29 (30): - AUG 11 2017
 Research Fields: MATERIALS SCIENCE

Times Cited: 23
 ESI Hot

7

PARAMETERIZATION OF CRISS-CROSS CONFIGURATIONS FOR MULTIOBJECTIVE CRASHWORTHINESS OPTIMIZATION
 By: SUN, GY; PANG, T; FANG, JG; et.al
 Source: INT J MECH SCI 124: 145-157 MAY 2017
 Research Fields: ENGINEERING

Times Cited: 21
 ESI Hot

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8

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

Times Cited: 20
 ESI Hot

9

SrTiO₃ NANOCUBES DECORATED WITH Ag/AgCl NANOPARTICLES AS PHOTOCATALYSTS WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY TOWARDS THE DEGRADATION OF DYES, PHENOL AND BISPHENOL A
 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: 18
 ESI Hot

10

DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW
 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: 18
 ESI Hot

11

CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA
 By: ZHANG, YJ; PENG, YL; MA, CQ; et.al
 Source: ENERG POLICY 100: 18-28 JAN 2017
 Research Fields: SOCIAL SCIENCES, GENERAL

Times Cited: 17
 ESI Hot

12	ATOMIC-SCALE COOX SPECIES IN METAL-ORGANIC FRAMEWORKS FOR OXYGEN EVOLUTION REACTION 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	DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS By: YAN, DF; LI, YX; HUO, J; et.al Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 16  ESI Hot
14	PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW 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	ROBUST EPITAXIAL GROWTH OF TWO-DIMENSIONAL HETEROSTRUCTURES, MULTIHETEROSTRUCTURES, AND SUPERLATTICES 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	AGED REFUSE ENHANCES ANAEROBIC DIGESTION OF WASTE ACTIVATED SLUDGE 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	A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE 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	PHOTOCATALYTIC WASTEWATER PURIFICATION WITH SIMULTANEOUS HYDROGEN PRODUCTION USING MOS₂ QD-DECORATED HIERARCHICAL ASSEMBLY OF ZNIN₂S₄ ON REDUCED GRAPHENE OXIDE PHOTOCATALYST 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	CREATING COORDINATIVELY UNSATURATED METAL SITES IN METAL-ORGANIC-FRAMEWORKS AS EFFICIENT ELECTROCATALYSTS FOR THE OXYGEN EVOLUTION REACTION: INSIGHTS INTO THE ACTIVE CENTERS By: TAO, L; LIN, CY; DOU, S; et.al Source: NANO ENERGY 41: 417-425 NOV 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 6 ESI Hot
20	A NEW MULTI-OBJECTIVE DISCRETE ROBUST OPTIMIZATION ALGORITHM FOR ENGINEERING DESIGN By: SUN, GY; ZHANG, HL; FANG, JG; et.al Source: APPL MATH MODEL 53: 602-621 JAN 2018 Research Fields: ENGINEERING	Times Cited: 5 ESI Hot
21	A NOVEL AG2O/CEO2 HETEROJUNCTION PHOTOCATALYSTS FOR PHOTOCATALYTIC DEGRADATION OF ENROFLOXACIN: POSSIBLE DEGRADATION PATHWAYS, MINERALIZATION ACTIVITY AND AN IN DEPTH MECHANISM INSIGHT By: WEN, XJ; NIU, CG; ZHANG, L; et.al Source: APPL CATAL B-ENVIRON 221: 701-714 FEB 2018 Research Fields: CHEMISTRY	Times Cited: 4 ESI Hot

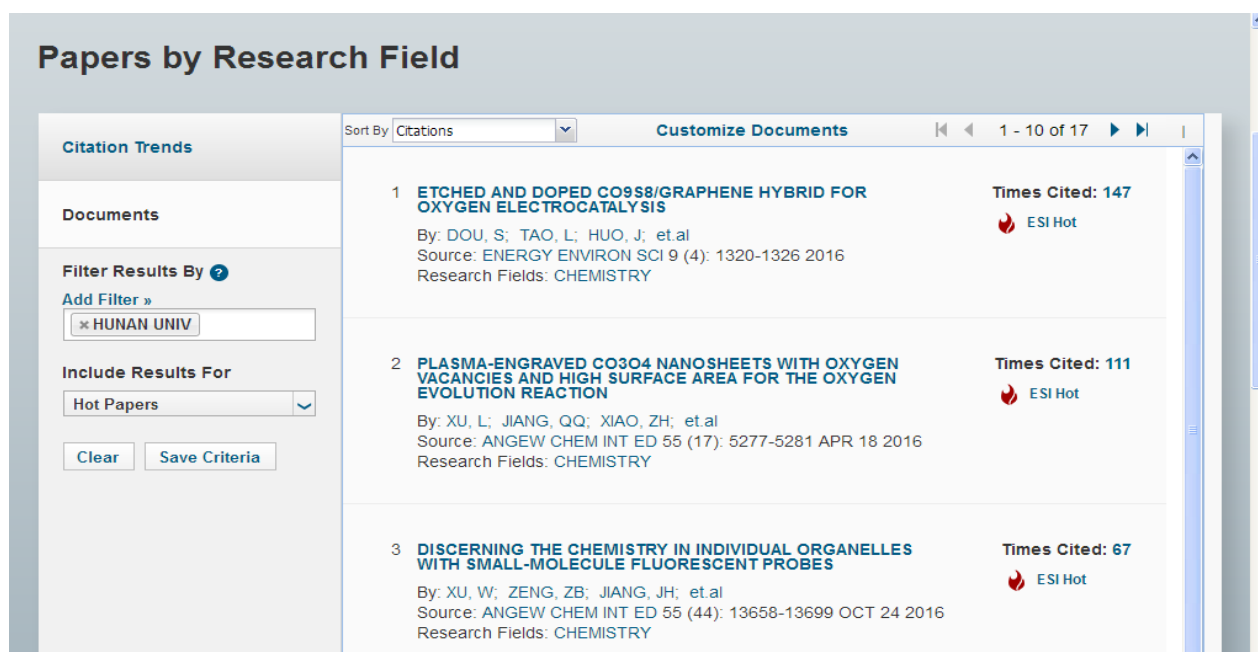
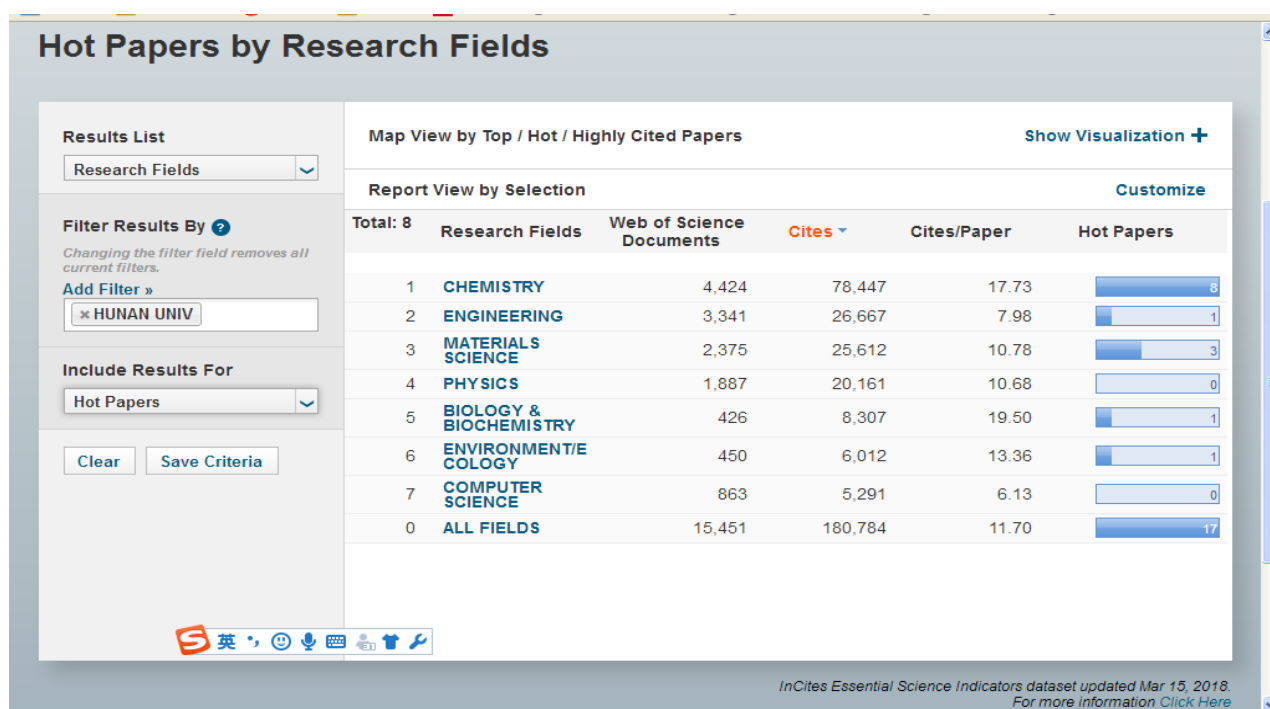
以上 21 篇 Hot Paper 中 有 7 篇是环境学院的论文:

- 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 Ag₃PO₄/Ag/BiVO₄ (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*. 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 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 Ag₂O/CeO₂ 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 Zhang¹, Longlu Wang¹, Chengbin Liu*, Jinming Luo*, John Crittenden, Xiaoliu, Tao Cai, Jili Yuan, Yongpei, Yutang Liu. Photocatalytic wastewater purification with simultaneous hydrogen production using MoS₂

QD-decorated hierarchical assembly of ZnIn₂S₄ 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。

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



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4 VAN DER WAALS HETEROSTRUCTURES AND DEVICES
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 NANOPARTICLE-STACKED POROUS NICKEL-IRON NITRIDE NANOSHEET: A HIGHLY EFFICIENT BIFUNCTIONAL ELECTROCATALYST FOR OVERALL WATER SPLITTING
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: 51
ESI Hot

6 HIERARCHICAL ASSEMBLY OF GRAPHENE-BRIDGED AG₃PO₄/AG/BIVO₄ (040) Z-SCHEME PHOTOCATALYST: AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION
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 THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE
By: SUN, HT; MEI, L; LIANG, JF; et.al
Source: SCIENCE 356 (6338): 599-604 MAY 12 2017
Research Fields: CHEMISTRY

Times Cited: 28
ESI Hot

8 A GENERAL APPROACH TO COBALT-BASED HOMOBIMETALLIC PHOSPHIDE ULTRATHIN NANOSHEETS FOR HIGHLY EFFICIENT OXYGEN EVOLUTION IN ALKALINE MEDIA
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 IN SITU EXFOLIATED, EDGE-RICH, OXYGEN-FUNCTIONALIZED GRAPHENE FROM CARBON FIBERS FOR OXYGEN ELECTROCATALYSIS
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

10 LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS
By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al
Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017
Research Fields: CHEMISTRY

Times Cited: 18
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	15 APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION Times Cited: 8  ESI Hot By: WANG, DB; LIU, YW; NGO, HH; et.al Source: BIORESOURCE TECHNOL 238: 343-351 AUG 2017 Research Fields: BIOLOGY & BIOCHEMISTRY 16 ELECTROCATALYTIC PROPERTIES OF N-DOPED GRAPHITE FELT IN ELECTRO-FENTON PROCESS AND DEGRADATION MECHANISM OF LEVOFLOXACIN Times Cited: 5  ESI Hot By: LIU, XC; YANG, DX; ZHOU, YY; et.al Source: CHEMOSPHERE 182: 306-315 SEP 2017 Research Fields: ENVIRONMENT/ECOLOGY 17 DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW Times Cited: 5  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
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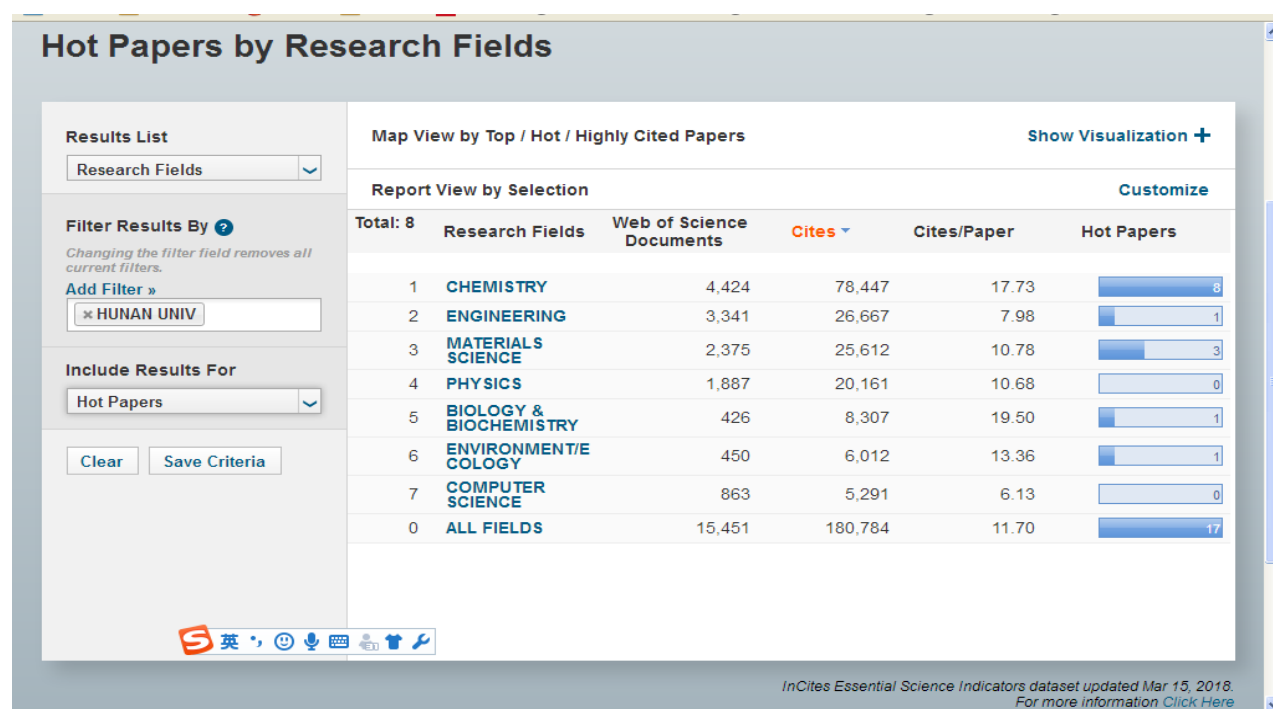
以上 17 篇 Hot Paper 中 有 4 篇是环境学院的论文:

- 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 Ag₃PO₄/Ag/BiVO₄ (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) Dongbo Wang, Yiwen Liu, Huu 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 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)
 - 4) 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)

博士生陈飞的论文是 第 2 次上榜 ESI Hot Paper。

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



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- 1 ETCHED AND DOPED CO₉S₈/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS**

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

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

Research Fields: CHEMISTRY

Times Cited: 147

ESI Hot
- 2 PLASMA-ENGRAVED CO₃O₄ NANOSHEETS WITH OXYGEN VACANCIES AND HIGH SURFACE AREA FOR THE OXYGEN EVOLUTION REACTION**

By: XU, L; JIANG, QQ; XIAO, ZH; et.al

Source: ANGEW CHEM INT ED 55 (17): 5277-5281 APR 18 2016

Research Fields: CHEMISTRY

Times Cited: 111

ESI Hot
- 3 DISCERNING THE CHEMISTRY IN INDIVIDUAL ORGANELLES WITH SMALL-MOLECULE FLUORESCENT PROBES**

By: XU, W; ZENG, ZB; JIANG, JH; et.al

Source: ANGEW CHEM INT ED 55 (44): 13658-13699 OCT 24 2016

Research Fields: CHEMISTRY

Times Cited: 67

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- 4 VAN DER WAALS HETEROSTRUCTURES AND DEVICES**

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 NANOPARTICLE-STACKED POROUS NICKEL-IRON NITRIDE NANOSHEET: A HIGHLY EFFICIENT BIFUNCTIONAL ELECTROCATALYST FOR OVERALL WATER SPLITTING**

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: 51

ESI Hot
- 6 HIERARCHICAL ASSEMBLY OF GRAPHENE-BRIDGED AG₃PO₄/AG/BIVO₄ (040) Z-SCHEME PHOTOCATALYST: AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION**

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

Clear	Save Criteria	
	7	THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE By: SUN, HT; MEI, L; LIANG, JF; et.al Source: SCIENCE 356 (6338): 599-604 MAY 12 2017 Research Fields: CHEMISTRY Times Cited: 28 ESI Hot
	8	A GENERAL APPROACH TO COBALT-BASED HOMOBIMETALLIC PHOSPHIDE ULTRATHIN NANOSHEETS FOR HIGHLY EFFICIENT OXYGEN EVOLUTION IN ALKALINE MEDIA 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	IN SITU EXFOLIATED, EDGE-RICH, OXYGEN-FUNCTIONALIZED GRAPHENE FROM CARBON FIBERS FOR OXYGEN ELECTROCATALYSIS 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
	10	LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017 Research Fields: CHEMISTRY Times Cited: 18 ESI Hot

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	11	METABOLOMICS FOR CLINICAL USE AND RESEARCH IN CHRONIC KIDNEY DISEASE By: HOCHER, B; ADAMSKI, J; Source: NAT REV NEPHROL 13 (5): 269-284 MAY 2017 Research Fields: CLINICAL MEDICINE Times Cited: 14 ESI Hot
	12	CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA By: ZHANG, YJ; PENG, YL; MA, CQ; et.al Source: ENERG POLICY 100: 18-28 JAN 2017 Research Fields: SOCIAL SCIENCES, GENERAL Times Cited: 13 ESI Hot
	13	DROOP-BASED DISTRIBUTED COOPERATIVE CONTROL FOR MICROGRIDS WITH TIME-VARYING DELAYS By: LAI, JG; ZHOU, H; LU, XQ; et.al Source: IEEE TRANS SMART GRID 7 (4): 1775-1789 JUL 2016 Research Fields: ENGINEERING Times Cited: 12 ESI Hot
	14	A STUDY ON THE MILD SOLUTION OF IMPULSIVE FRACTIONAL EVOLUTION EQUATIONS By: SHU, XB; SHI, YJ; Source: APPL MATH COMPUT 273: 465-476 JAN 15 2016 Research Fields: MATHEMATICS Times Cited: 11 ESI Hot

15	APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION By: WANG, DB; LIU, YW; NGO, HH; et al Source: BIORESOURCE TECHNOL 238: 343-351 AUG 2017 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 8 ESI Hot
16	ELECTROCATALYTIC PROPERTIES OF N-DOPED GRAPHITE FELT IN ELECTRO-FENTON PROCESS AND DEGRADATION MECHANISM OF LEVOFLOXACIN 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	DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW 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

以上 17 篇 Hot Paper 中 有 4 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 Ag₃PO₄/Ag/BiVO₄ (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) Dongbo Wang, Yiwen Liu, Huu 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 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, Tan Mengjiao, 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)
- 4) 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**)

博士生陈飞的论文是 第 2 次上榜 ESI Hot Paper。

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

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	Research Fields	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1	CHEMISTRY	4,334	74,825	17.26	3
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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1	ETCHED AND DOPED CO9S8/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS By: DOU, S; TAO, L; HUO, J; et.al Source: ENERGY ENVIRON SCI 9 (4): 1320-1326 2016 Research Fields: CHEMISTRY	Times Cited: 122 ESI Hot
2	HYDROXYL RADICALS BASED ADVANCED OXIDATION PROCESSES (AOPS) FOR REMEDIATION OF SOILS CONTAMINATED WITH ORGANIC COMPOUNDS: A REVIEW By: CHENG, M; ZENG, GM; HUANG, DL; et.al Source: CHEM ENG J 284: 582-598 JAN 15 2016 Research Fields: ENGINEERING	Times Cited: 71 ESI Hot
3	VAN DER WAALS HETEROSTRUCTURES AND DEVICES By: LIU, Y; WEISS, NO; DUAN, XD; et.al Source: NAT REV MATER 1 (9): - SEP 2016 Research Fields: MATERIALS SCIENCE	Times Cited: 47 ESI Hot

Papers by Research Field

Citation Trends

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4 A GENERAL APPROACH TO COBALT-BASED HOMOBIMETALLIC PHOSPHIDE ULTRATHIN NANOSHEETS FOR HIGHLY EFFICIENT OXYGEN EVOLUTION IN ALKALINE MEDIA

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: 15

🔥 ESI Hot

5 THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE

By: SUN, HT; MEI, L; LIANG, JF; et.al

Source: SCIENCE 356 (6338): 599-604 MAY 12 2017

Research Fields: CHEMISTRY

Times Cited: 13

🔥 ESI Hot

6 THE INDIRECT ENERGY CONSUMPTION AND CO2 EMISSION CAUSED BY HOUSEHOLD CONSUMPTION IN CHINA: AN ANALYSIS BASED ON THE INPUT-OUTPUT METHOD

By: ZHANG, YJ; BIAN, XJ; TAN, WP; et.al

Source: J CLEAN PROD 163: 69-83 OCT 1 2017

Research Fields: ENGINEERING

Times Cited: 10

🔥 ESI Hot

7 RESPONSE OF SOIL ORGANIC CARBON AND NITROGEN STOCKS TO SOIL EROSION AND LAND USE TYPES IN THE LOESS HILLY-GULLY REGION OF CHINA

By: LI, ZW; LIU, C; DONG, YT; et.al

Source: SOIL TILL RES 166: 1-9 MAR 2017

Research Fields: AGRICULTURAL SCIENCES

Times Cited: 10

🔥 ESI Hot

8 FINITE-TIME STABILIZATION CONTROL OF MEMRISTOR-BASED NEURAL NETWORKS

By: CAI, ZW; HUANG, LH; ZHU, MX; et.al

Source: NONLINEAR ANAL-HYBRID SYST 20: 37-54 MAY 2016

Research Fields: MATHEMATICS

Times Cited: 9

🔥 ESI Hot

9 ADSORPTION OF ESTROGEN CONTAMINANTS BY GRAPHENE NANOMATERIALS UNDER NATURAL ORGANIC MATTER PRELOADING: COMPARISON TO CARBON NANOTUBE, BIOCHAR, AND ACTIVATED CARBON

By: JIANG, LH; LIU, YG; LIU, SB; et.al

Source: ENVIRON SCI TECHNOL 51 (11): 6352-6359 JUN 6 2017

Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 6

🔥 ESI Hot

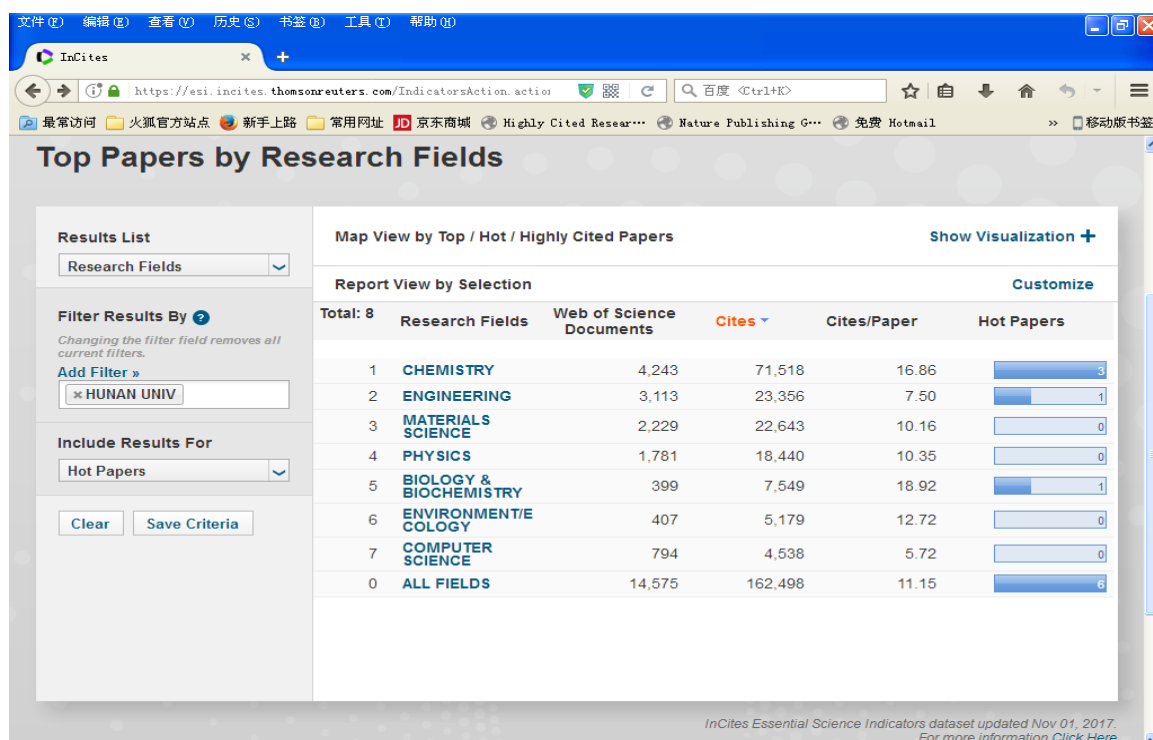
以上 9 篇 Hot Paper 中 有 3 篇是环境学院的论文：

- 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。

9. Essential Science Indicators for Hot papers for Hunan Univ on 171109



Papers by Research Field

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- 1 PLASMA-ENGRAVED CO₃O₄ NANOSHEETS WITH OXYGEN VACANCIES AND HIGH SURFACE AREA FOR THE OXYGEN EVOLUTION REACTION**

By: XU, L; JIANG, QQ; XIAO, ZH; et.al

Source: ANGEW CHEM INT ED 55 (17): 5277-5281 APR 18 2016

Research Fields: CHEMISTRY

Times Cited: 71

ESI Hot
- 2 HIERARCHICAL ASSEMBLY OF GRAPHENE-BRIDGED AG₃PO₄/AG/BIVO₄ (040) Z-SCHEME PHOTOCATALYST AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION**

By: CHEN, F; YANG, Q; LI, XM; et.al

Source: APPL CATAL B-ENVIRON 200: 330-342 JAN 2017

Research Fields: CHEMISTRY

Times Cited: 22

ESI Hot
- 3 ENHANCED PHOTOCATALYTIC DEGRADATION OF NORFLOXACIN IN AQUEOUS Bi₂WO₆ DISPERSIONS CONTAINING NONIONIC SURFACTANT UNDER VISIBLE LIGHT IRRADIATION**

By: TANG, L; WANG, JJ; ZENG, GM; et.al

Source: J HAZARD MATER 306: 295-304 APR 5 2016

Research Fields: ENGINEERING

Times Cited: 19

ESI Hot

- 4 NANOCONFINED IONIC LIQUIDS**

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

Times Cited: 6

ESI Hot
- 5 CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA**

By: ZHANG, YJ; PENG, YL; MA, CQ; et.al

Source: ENERG POLICY 100: 18-28 JAN 2017

Research Fields: SOCIAL SCIENCES, GENERAL

Times Cited: 5

ESI Hot
- 6 AUTOMATIC SEGMENTATION OF NINE RETINAL LAYER BOUNDARIES IN OCT IMAGES OF NON-EXUDATIVE AMD PATIENTS USING DEEP LEARNING AND GRAPH SEARCH**

By: FANG, LY; CUNEFARE, D; WANG, C; et.al

Source: BIOMED OPT EXPRESS 8 (5): 2732-2744 MAY 1 2017

Research Fields: BIOLOGY & BIOCHEMISTRY

Times Cited: 5

ESI Hot

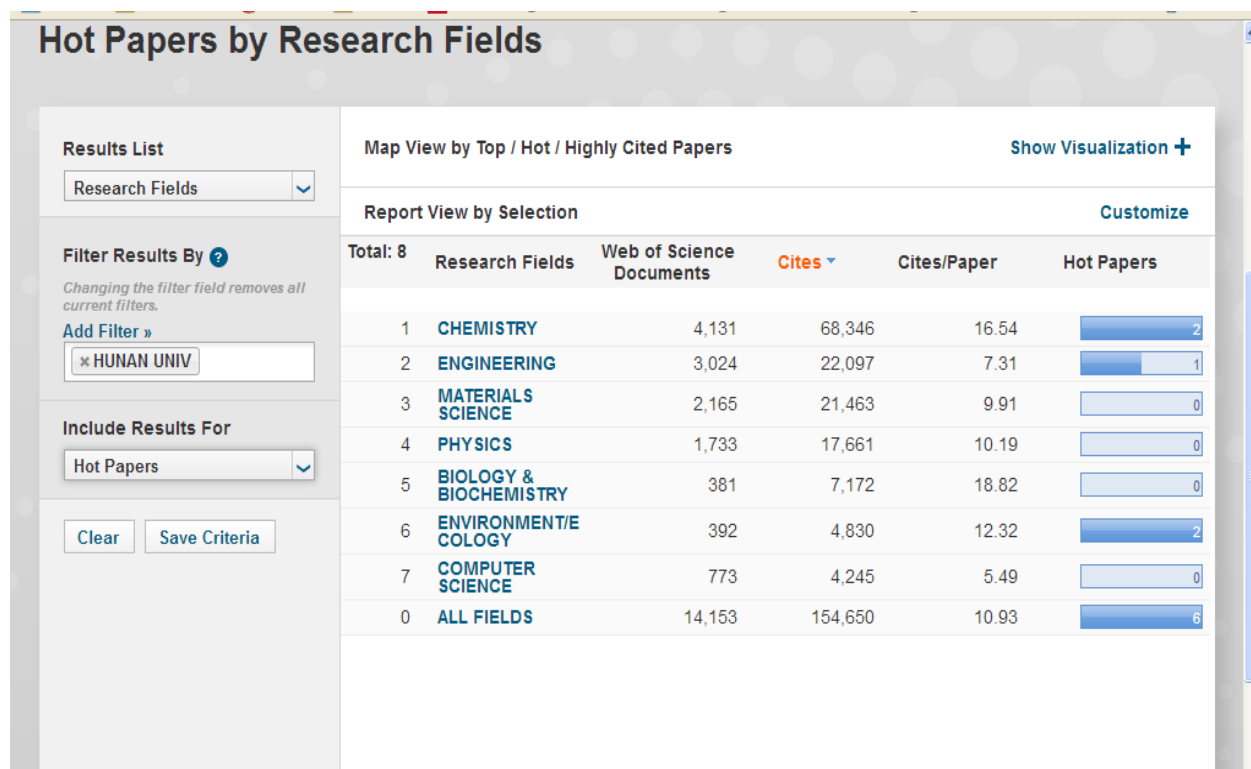
以上 6 篇 Hot Paper 中 有 2 篇是环境学院的论文:

- 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 Ag₃PO₄/Ag/BiVO₄ (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 Bi₂WO₆ 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)

10. Essential Science Indicators for Hot papers for Hunan Univ on 170914



Papers by Research Field

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1	ETCHED AND DOPED CO9S8/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS By: DOU, S; TAO, L; HUO, J; et.al Source: ENERGY ENVIRON SCI 9 (4): 1320-1326 2016 Research Fields: CHEMISTRY	Times Cited: 85  ESI Hot
2	AN OVERVIEW ON LIMITATIONS OF TiO2-BASED PARTICLES FOR PHOTOCATALYTIC DEGRADATION OF ORGANIC POLLUTANTS AND THE CORRESPONDING COUNTERMEASURES By: DONG, HR; ZENG, GM; TANG, L; et.al Source: WATER RES 79: 128-146 AUG 1 2015 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 54  ESI Hot
3	HYDROXYL RADICALS BASED ADVANCED OXIDATION PROCESSES (AOPS) FOR REMEDIATION OF SOILS CONTAMINATED WITH ORGANIC COMPOUNDS: A REVIEW By: CHENG, M; ZENG, GM; HUANG, DL; et.al Source: CHEM ENG J 284: 582-598 JAN 15 2016 Research Fields: ENGINEERING	Times Cited: 50  ESI Hot

4	EFFICACY OF CARBONACEOUS NANOCOMPOSITES FOR SORBING IONIZABLE ANTIBIOTIC SULFAMETHAZINE FROM AQUEOUS SOLUTION By: ZHANG, C; LAI, C; ZENG, GM; et.al Source: WATER RES 95: 103-112 MAY 15 2016 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 27  ESI Hot
5	NITROGEN-DOPED HIERARCHICALLY POROUS CARBON NETWORKS: SYNTHESIS AND APPLICATIONS IN LITHIUM-ION BATTERY, SODIUM-ION BATTERY AND ZINC-AIR BATTERY By: WANG, L; YANG, CL; DOU, S; et.al Source: ELECTROCHIM ACTA 219: 592-603 NOV 20 2016 Research Fields: CHEMISTRY	Times Cited: 23  ESI Hot
6	THE DIRECT AND INDIRECT CO2 REBOUND EFFECT FOR PRIVATE CARS IN CHINA By: ZHANG, YJ; LIU, Z; QIN, CX; et.al Source: ENERG POLICY 100: 149-161 JAN 2017 Research Fields: SOCIAL SCIENCES, GENERAL	Times Cited: 3  ESI Hot

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1 - 6 of 6

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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 TiO₂-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)

11. Essential Science Indicators for Hot papers for Hunan Univ on 170714

The screenshot displays the 'Papers by Research Field' interface. On the left, the 'Filter Results By' section shows 'Add Filter »' with a button for 'HUNAN UNIV'. Below it, 'Include Results For' is set to 'Hot Papers'. The main area shows three papers sorted by Citations:

Rank	Title	Times Cited	ESI Status
1	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	159	ESI Hot
2	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	124	ESI Hot
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) By: GUAN, XH; SUN, YK; QIN, HJ; et al Source: WATER RES 75: 224-248 MAY 15 2015 Research Fields: ENVIRONMENT/ECOLOGY	79	ESI Hot

Documents

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4 **SURFACE PLASMON-ENHANCED PHOTODETECTION IN FEW LAYER MOS₂ PHOTOTRANSISTORS WITH AU NANOSTRUCTURE ARRAYS** Times Cited: 74
 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 **HYDROXYL RADICALS BASED ADVANCED OXIDATION PROCESSES (AOPS) FOR REMEDIATION OF SOILS CONTAMINATED WITH ORGANIC COMPOUNDS: A REVIEW** Times Cited: 37
 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 **EFFICACY OF CARBONACEOUS NANOCOMPOSITES FOR SORBING IONIZABLE ANTIBIOTIC SULFAMETHAZINE FROM AQUEOUS SOLUTION** Times Cited: 17
 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 **SMART HOME ENERGY MANAGEMENT SYSTEMS: CONCEPT, CONFIGURATIONS, AND SCHEDULING STRATEGIES** Times Cited: 10
 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 **HOPF BIFURCATION IN A DIFFUSIVE LOTKA-VOLTERRA TYPE SYSTEM WITH NONLOCAL DELAY EFFECT** Times Cited: 7
 ESI Hot
 By: GUO, SJ; YAN, SL;
 Source: J DIFFERENTIAL EQUATIONS 260 (1): 781-817 JAN 5 2016
 Research Fields: MATHEMATICS

9 **POSITIVE SOLUTIONS OF KIRCHHOFF TYPE ELLIPTIC EQUATIONS IN R⁴ WITH CRITICAL GROWTH** Times Cited: 2
 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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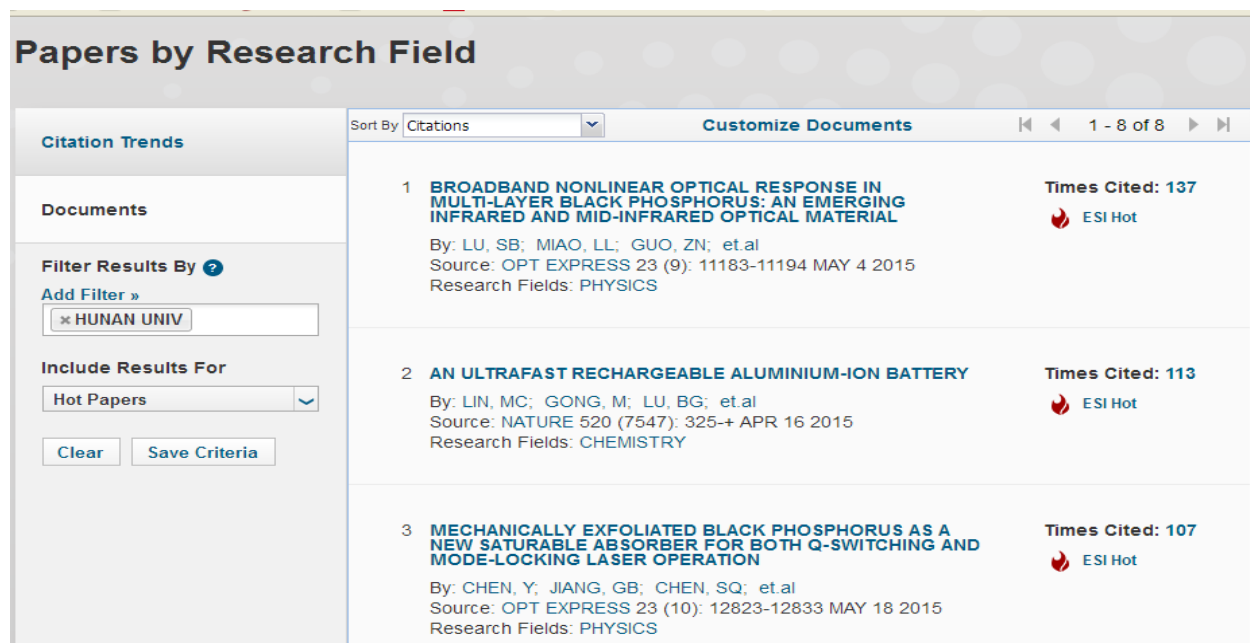
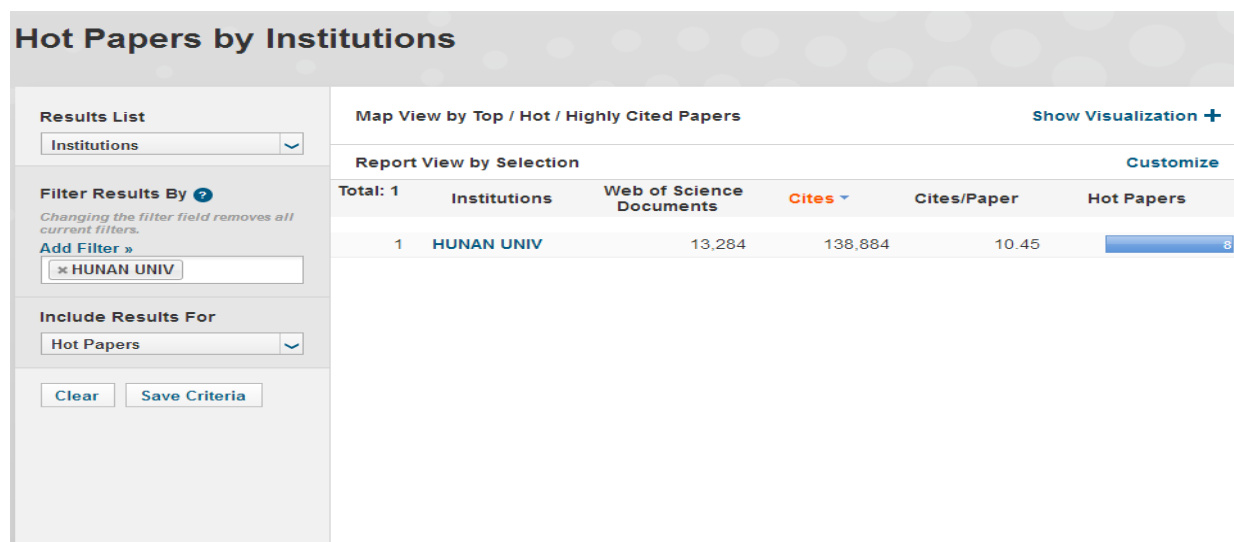
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以上 9 篇 Hot Paper 中 有 3 篇是环境学院的论文:

- 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

1. 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

12. Essential Science Indicators for Hot papers for Hunan Univ on 170511



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

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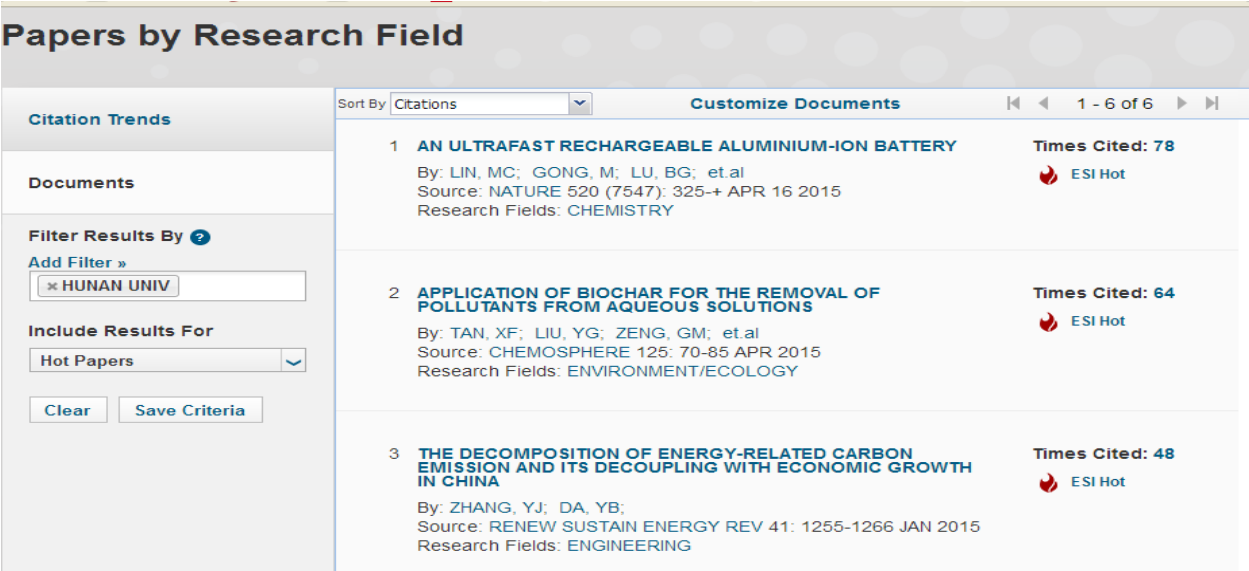
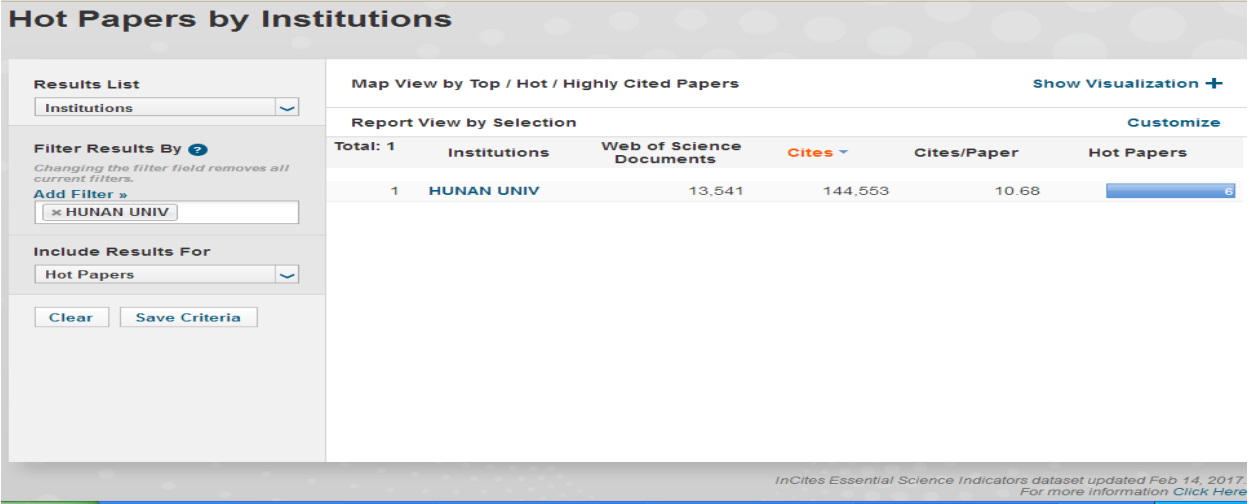
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- 1) Xiaofei Tan, Yunguo Liu*, Guangming Zeng, Xin Wang, Xinjiang Hu, Yanling Gu, Zhongzhu Yang. Application of biochar for the removal of pollutants from aqueous solutions. Chemosphere. 2015.125:70-85
- 2) Hou Wang; Xingzhong yuan*; Yan Wu; Guangming 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 BiVO4 under visible light irradiation. Water Research. 2016. 101:555-563

13. Essential Science Indicators for Hot papers for Hunan Univ on 170309



4	ETCHED AND DOPED CO₉S₈/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS 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	AN ENHANCED ELECTROCHEMICAL PLATFORM BASED ON GRAPHENE OXIDE AND MULTI-WALLED CARBON NANOTUBES NANOCOMPOSITE FOR SENSITIVE DETERMINATION OF SUNSET YELLOW AND TARTRAZINE 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	INTERPRETING THE MOVEMENT OF OIL PRICES: DRIVEN BY FUNDAMENTALS OR BUBBLES? 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)^[1,2]; Liu, YG (Liu, Yunguo)^[1,2]; Zeng, GM (Zeng, Guangming)^[1,2]; Wang, X (Wang, Xin)^[3]; Hu, XJ (Hu, Xinjiang)^[1,2]; Gu, YL (Gu, Yanling)^[1,2]; Yang, ZZ (Yang, Zhongzhu)^[1,2]
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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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By: LU, SB; MIAO, LL; GUO, ZN; et.al
Source: OPT EXPRESS 23 (9): 11183-11194 MAY 4 2015
Research Fields: PHYSICS

Times Cited: 106
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2 **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: 80
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3 **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: 60
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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)^[1]; Sun, YK (Sun, Yuankui)^[1]; Qin, HJ (Qin, Hejie)^[1]; Li, JX (Li, Jinxiang)^[1]; Lo, IMC (Lo, Irene M. C.)^[2]; He, D (He, Di)^[3]; Dong, HR (Dong, Haoran)^[4]

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WATER RESEARCH

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+ Hunan Univ, Coll Environm Sci & Engrn, Key Lab Environm Biol & Pollut Control, Changsha 410082, Hunan, Peoples R China.

15. 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

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

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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.

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3 Citations: 32

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

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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](#)

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