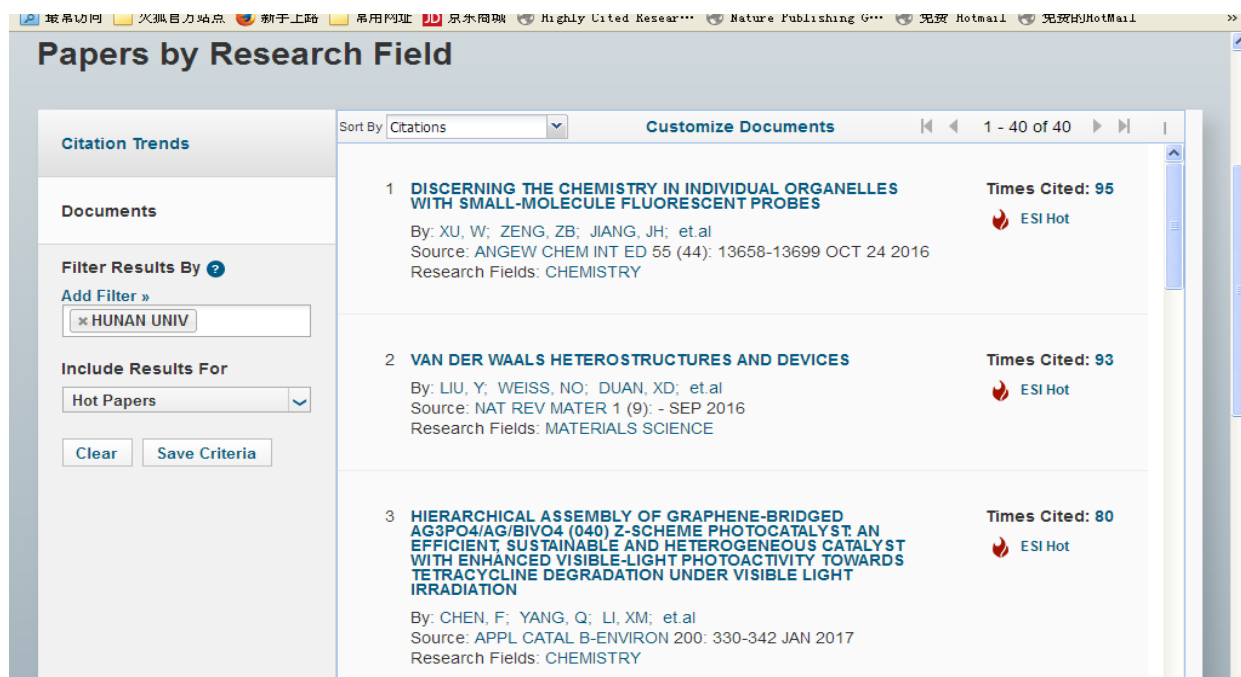
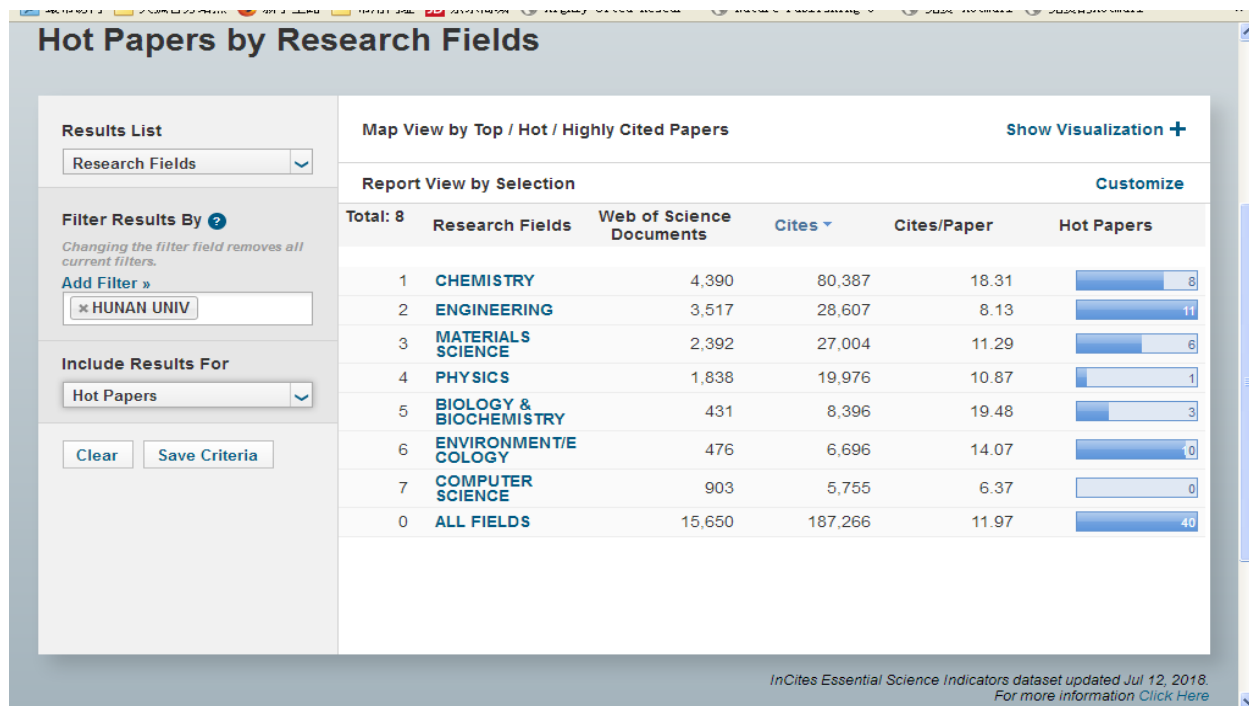





1. Essential Science Indicators for Hot papers for Hunan Univ on 12 July 2018



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13 PROSPECTS OF FUEL CELL TECHNOLOGIES

By: WANG, SY; JIANG, SP;
Source: NATL SCI REV 4 (2): 163-166 MAR 2017
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
Source: J HAZARD MATER 312: 184-191 JUL 15 2016
Research Fields: ENGINEERING

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17 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: 28

ESI Hot

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

ESI Hot

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

Times Cited: 25

ESI Hot

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
Source: BIORESOURCE TECHNOL 234: 456-465 JUN 2017
Research Fields: BIOLOGY & BIOCHEMISTRY

Times Cited: 25

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

	<p>25 FILLING THE OXYGEN VACANCIES IN CO₃O₄ WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING</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: 20 ESI Hot</p>	
	<p>26 EVALUATION METHODS FOR ASSESSING EFFECTIVENESS OF IN SITU REMEDIATION OF SOIL AND SEDIMENT CONTAMINATED WITH ORGANIC POLLUTANTS AND HEAVY METALS</p> <p>By: SONG, B; ZENG, GM; GONG, JL; et.al Source: ENVIRON INT 105: 43-55 AUG 2017 Research Fields: ENVIRONMENT/ECOLOGY</p> <p>Times Cited: 18 ESI Hot</p>	
	<p>27 THE EFFECTS OF RICE STRAW BIOCHAR ON INDIGENOUS MICROBIAL COMMUNITY AND ENZYMES ACTIVITY IN HEAVY METAL-CONTAMINATED SEDIMENT</p> <p>By: HUANG, DL; LIU, LS; ZENG, GM; et.al Source: CHEMOSPHERE 174: 545-553 MAY 2017 Research Fields: ENVIRONMENT/ECOLOGY</p> <p>Times Cited: 17 ESI Hot</p>	

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
29	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: 16 ESI Hot
30	A HYPER-CHAOS-BASED IMAGE ENCRYPTION ALGORITHM USING PIXEL-LEVEL PERMUTATION AND BIT-LEVEL PERMUTATION By: LI, YP; WANG, CH; CHEN, H; Source: OPT LASER ENG 90: 238-246 MAR 2017 Research Fields: ENGINEERING	Times Cited: 13 ESI Hot
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

32	EFFECT OF PHANEROCHAETE CHRYSOSPORIUM INOCULATION ON BACTERIAL COMMUNITY AND METAL STABILIZATION IN LEAD-CONTAMINATED AGRICULTURAL WASTE COMPOSTING By: HUANG, C; ZENG, GM; HUANG, DL; et.al Source: BIORESOURCE TECHNOL 243: 294-303 NOV 2017 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 11 ESI Hot
33	EFFECT OF DIFFERENT TECHNOLOGIES ON COMBUSTION AND EMISSIONS OF THE DIESEL ENGINE FUELED WITH BIODIESEL: A REVIEW By: JIAQIANG, E; PHAM, M; ZHAO, D; et.al Source: RENEW SUSTAIN ENERGY REV 80: 620-647 DEC 2017 Research Fields: ENGINEERING	Times Cited: 11 ESI Hot
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

35	METAL-FREE CARBON MATERIALS FOR CO₂ ELECTROCHEMICAL REDUCTION 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	TRICLOCARBAN ENHANCES SHORT-CHAIN FATTY ACIDS PRODUCTION FROM ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE 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	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: 7 ESI Hot
38	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: 6 ESI Hot
39	EFFECT ANALYSIS ON FLOW AND BOILING HEAT TRANSFER PERFORMANCE OF COOLING WATER-JACKET OF BEARING IN THE GASOLINE ENGINE TURBOCHARGER 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	UNDERSTANDING THE MECHANISMS OF HOW POLY ALUMINIUM CHLORIDE INHIBITS SHORT-CHAIN FATTY ACIDS PRODUCTION FROM ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE 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

以上 40 篇 Hot Paper 中 有 22 篇是环境学院的论文:

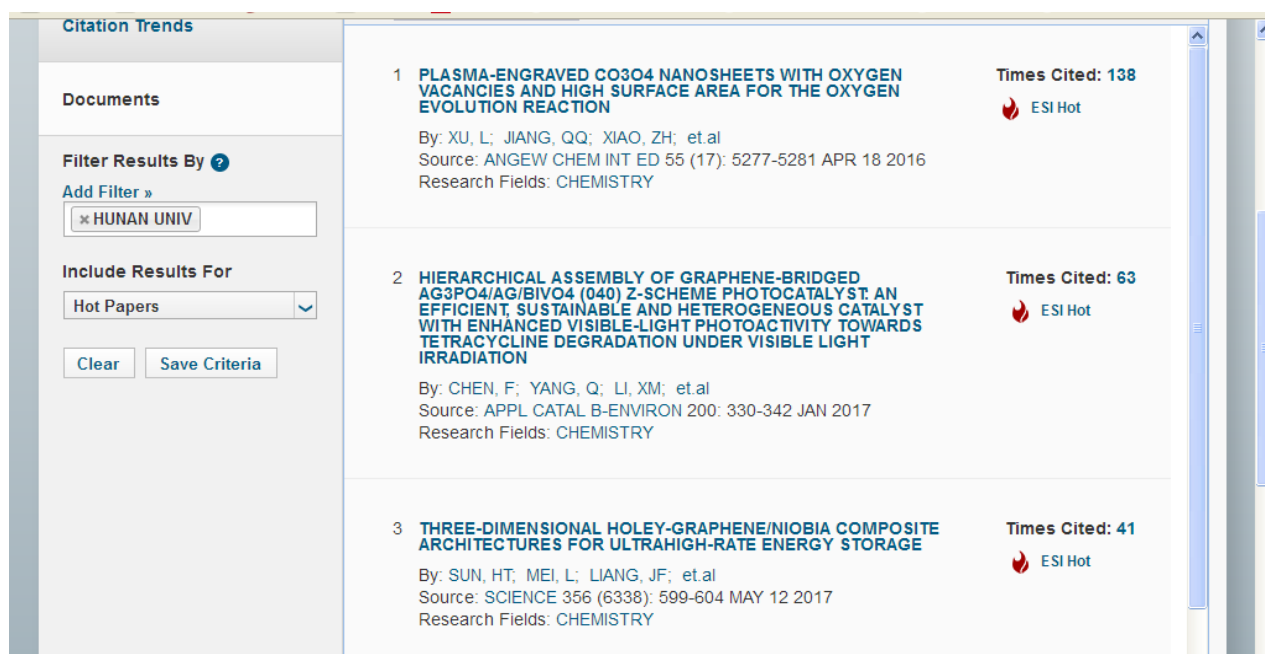
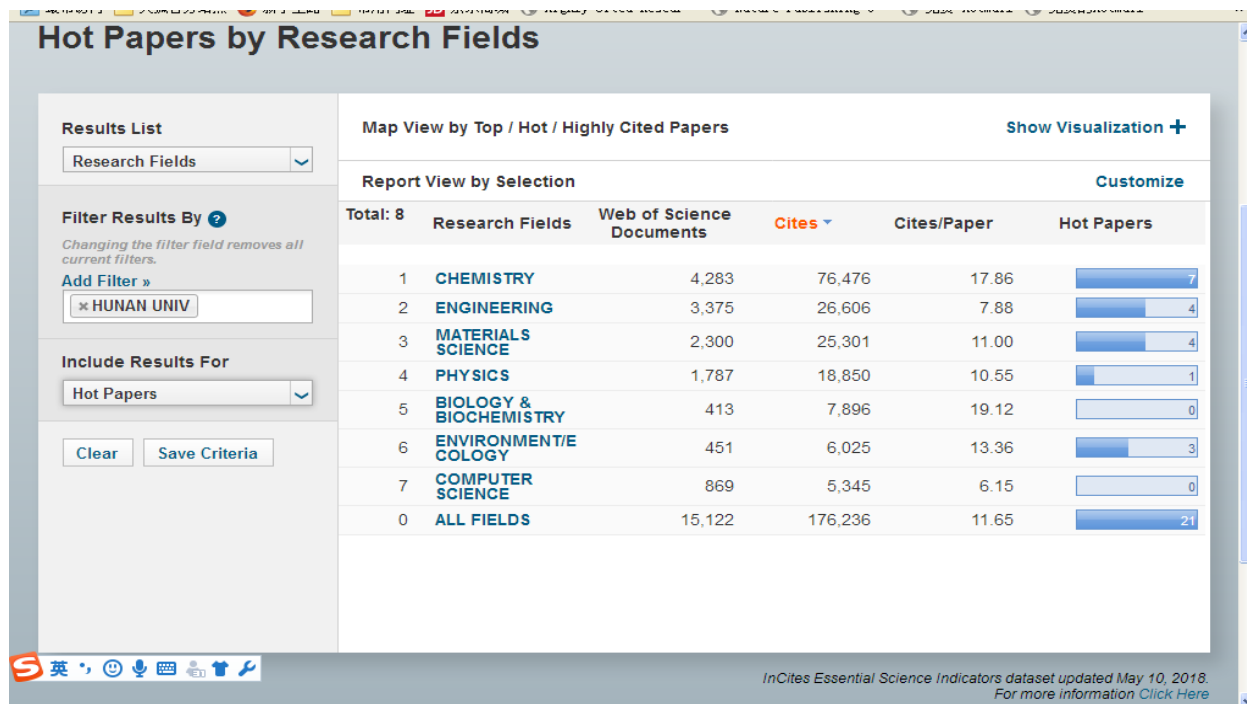
- 1) Fei Chen, Qi Yang*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag₃PO₄/Ag/BiVO₄ (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. Applied Catalysis B: Environmental(SCI 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, 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*, 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。

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



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4

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
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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
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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
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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

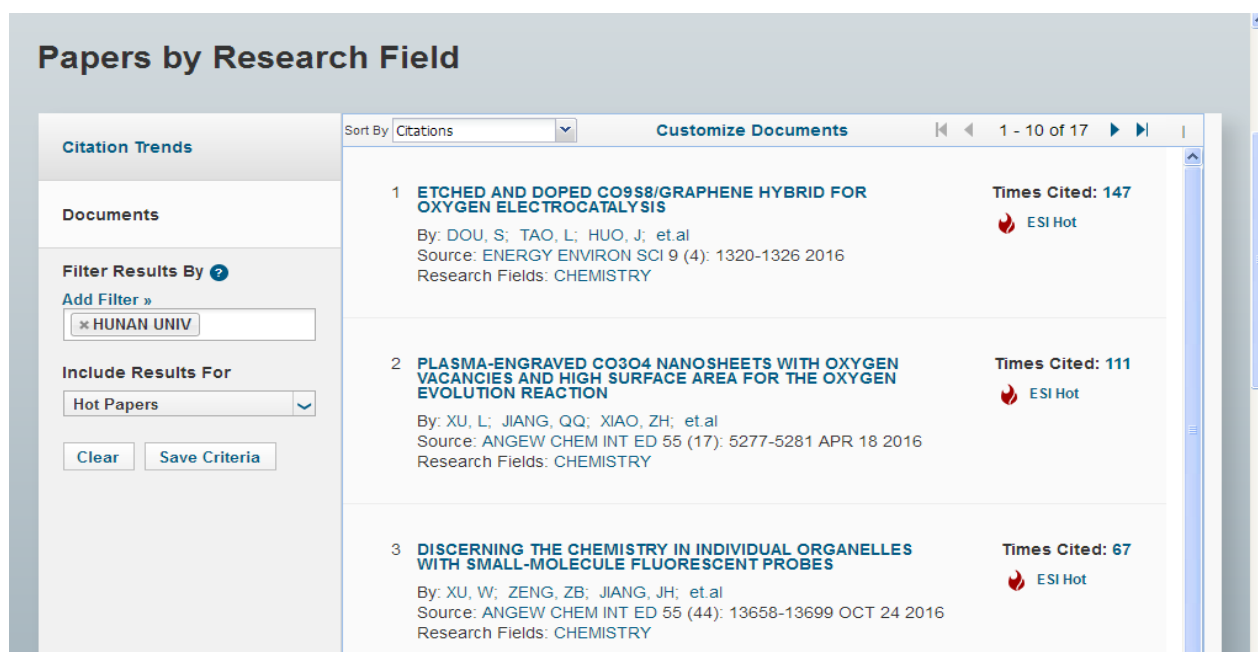
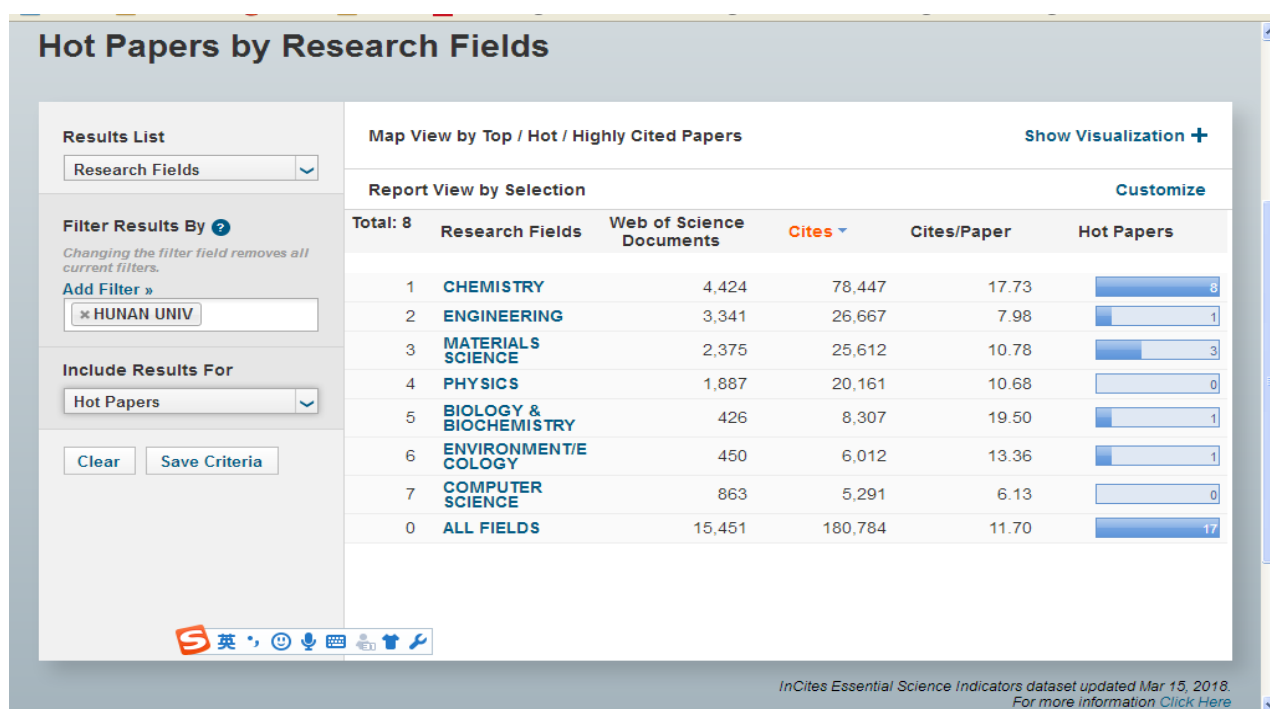
以上 21 篇 Hot Paper 中 有 7 篇是环境学院的论文:

- 23) 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**)
- 24) 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**)
- 25) 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**)
- 26) 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**)
- 27) 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**)
- 28) 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**)
- 29) 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](#))

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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
ESI Hot

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	<p>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</p> <p>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</p> <p>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</p>
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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**)

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