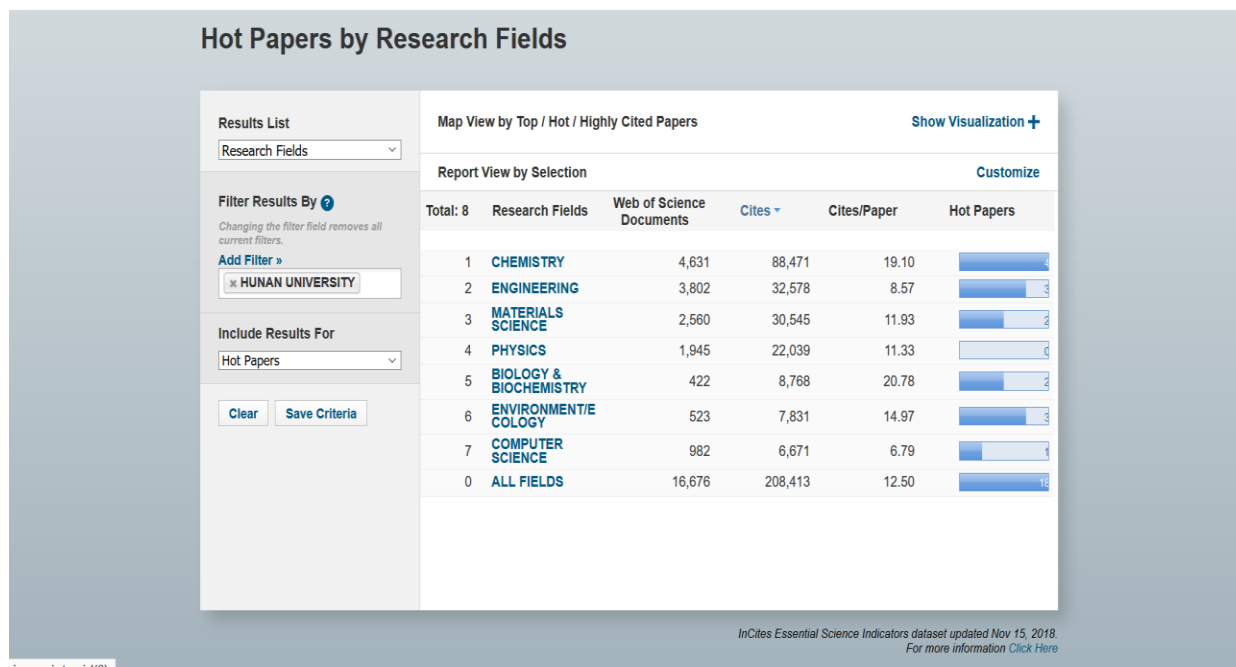


# Essential Science Indicators for Hot papers for Hunan Univ on 15 Nov 2018 from 20161110

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



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	<div>2</div> <div>VAN DER WAALS HETEROSTRUCTURES AND DEVICES</div> <div>By: LIU, Y; WEISS, NO; DUAN, XD; et al</div> <div>Source: NAT REV MATER 1 (9): - SEP 2016</div> <div>Research Fields: MATERIALS SCIENCE</div> <div>Times Cited: 136</div> <div>ESI Hot</div>
	<div>3</div> <div>DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS</div> <div>By: YAN, DF; LI, YX; HUO, J; et al</div> <div>Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017</div> <div>Research Fields: MATERIALS SCIENCE</div> <div>Times Cited: 84</div> <div>ESI Hot</div>
	<div>4</div> <div>DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW</div> <div>By: JIANG, LB; YUAN, XZ; PAN, Y; et al</div> <div>Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017</div> <div>Research Fields: CHEMISTRY</div> <div>Times Cited: 58</div> <div>ESI Hot</div>
	<div>5</div> <div>CHALLENGES AND SOLUTIONS FOR BIOFILTRATION OF HYDROPHOBIC VOLATILE ORGANIC COMPOUNDS</div> <div>By: CHENG, Y; HE, HJ; YANG, CP; et al</div> <div>Source: BIOTECHNOL ADV 34 (6): 1091-1102 NOV 1 2016</div> <div>Research Fields: BIOLOGY &amp; BIOCHEMISTRY</div> <div>Times Cited: 56</div> <div>ESI Hot</div>

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

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

14	<b>HIGHLY EFFICIENT VISIBLE-LIGHT-INDUCED PHOTOACTIVITY OF Z-SCHEME Ag<sub>2</sub>CO<sub>3</sub>/Ag/WO<sub>3</sub> PHOTOCATALYSTS FOR ORGANIC POLLUTANT DEGRADATION</b> By: YUAN, XZ; JIANG, LB; CHEN, XH; et.al Source: ENVIRON-SCI NANO 4 (11): 2175-2185 NOV 1 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 9 ESI Hot
15	<b>SCALABLE ONE-STEP PRODUCTION OF POROUS OXYGEN-DOPED G-C<sub>3</sub>N<sub>4</sub> NANORODS WITH EFFECTIVE ELECTRON SEPARATION FOR EXCELLENT VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY</b> By: ZENG, YX; LIU, X; LIU, CB; et.al Source: APPL CATAL B-ENVIRON 224: 1-9 MAY 2018 Research Fields: CHEMISTRY	Times Cited: 7 ESI Hot
16	<b>RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES</b> By: HE, L; LI, J; LIU, CY; et.al Source: IEEE TRANS GEOSCI REMOT SEN 56 (3): 1579-1597 MAR 2018 Research Fields: GEOSCIENCES	Times Cited: 7 ESI Hot

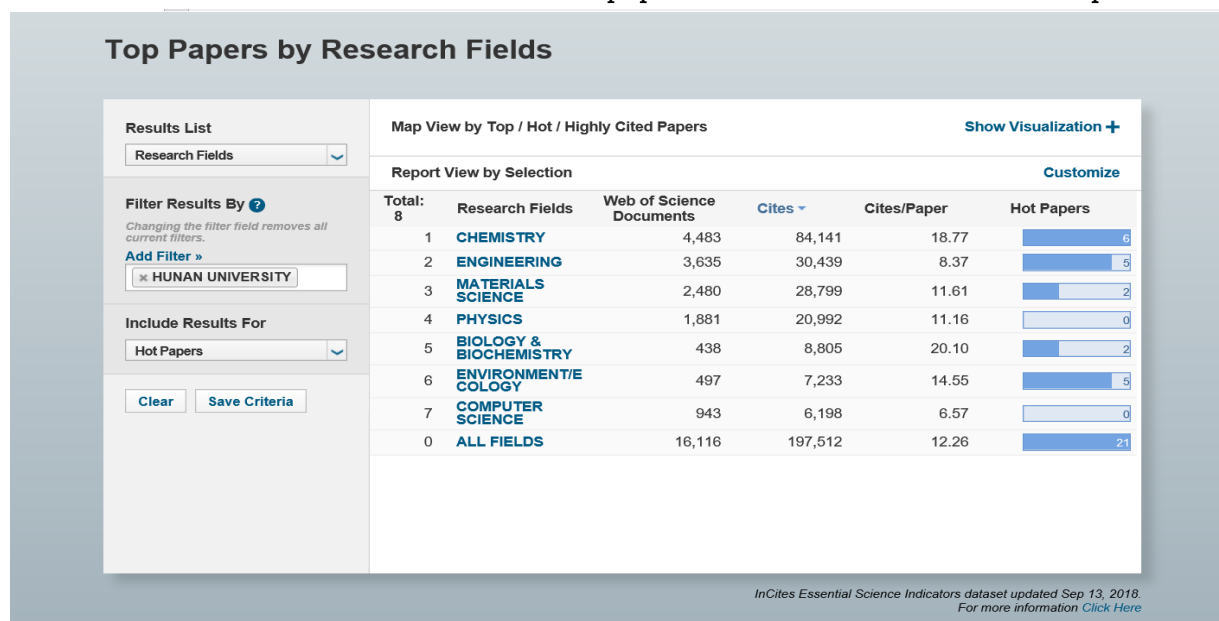
16	<b>RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES</b> By: HE, L; LI, J; LIU, CY; et.al Source: IEEE TRANS GEOSCI REMOT SEN 56 (3): 1579-1597 MAR 2018 Research Fields: GEOSCIENCES	Times Cited: 7 ESI Hot
17	<b>FACTORS INFLUENCING DEGRADATION OF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

以上 18 篇 Hot Paper 中 有 8 篇是环境学院的论文:

- 1) Longbo Jiang, Xingzhong Yuan\*, Yang Pan, Jie Liang, Guangming Zeng, Zhibin Wu, Hou Wang,\*. Doping of graphitic carbon nitride for photocatalysis: A review. Applied Catalysis B: Environmental(SCI 2017 IF=11.69). 2017. 217: 388–406( ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 2 次上榜)
- 2) Cheng Y, He HJ, Yang CP\*, Zeng GM\*, Li X, Chen H, Yu GL. Challenges and solutions for biofiltration of hydrophobic volatile organic compounds. Biotechnology Advances (SCI 2017 IF=11.452).2016.34 (6): 1091-1102 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
- 3) Guangming Zeng\*, Jia Wan, Danlian Huang\*, Liang Hu, Chao Huang, Min Cheng, Wenjing Xue, Xiaomin Gong, Rongzhong Wang, Danni Jiang. Precipitation, adsorption and rhizosphere effect: the mechanisms for Phosphate-induced Pb immobilization in soils-A review.Journal of Hazardous Materials(SCI 2017 IF=6.434) . 2017. 339:354-367 ( ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
- 4) Jia Wan, Guangming Zeng\*, Danlian Huang\*, Liang Hu, Piao Xu, Chao Huang, Rui Deng, Wenjing Xue, Cui Lai, Chengyun Zhou, Kaixuan Zheng, Xiaoya Ren, Xiaomin Gong.Rhamnolipid stabilized nano-chlorapatite: synthesis and enhancement effect on Pb-and Cd-immobilization in polluted sediment.Journal of Hazardous Materials(SCI 2017 IF=6.434). 2018.343:332-339( ESI Highly Cited Paper and Research Front and ESI Hot Paper, ESI Hot Paper 第 2 次上榜)
- 5) Xiaoya Ren, Guangming Zeng\*, Lin Tang, Jingjing Wang, Jia Wan, Yani Liu, Jiangfang Yu, Huan Yi,Shujing Ye, Rui Deng.Sorption, transport and biodegradation - An insight into bioavailability of persistent organic

- pollutants in soil. *Science of the Total Environment* (SCI 2017 IF=4.610) . 2018. 610-611:1154-1163( ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 2 次上榜)
- 6) Zhou YY , Liu XC ,Xiang YJ , Wang P, Zhang JC, Zhang FF, Wei JH, Luo L , Lei M , Tang L . Modification of biochar derived from sawdust and its application in removal of tetracycline and copper from aqueous solution: Adsorption mechanism and modelling. *BIORESOURCE TECHNOLOGY*.2017.245:266-273( ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 2 次上榜,环境学院汤琳教授与湖南农大的合作成果)
  - 7) Yuan XZ, Jiang LB, Chen XH, Leng LJ, Wang H, Wu ZB, Xiong T, Liang J, Zeng GM. Highly efficient visible-light-induced photoactivity of Z-scheme Ag<sub>2</sub>CO<sub>3</sub>/Ag/WO<sub>3</sub> photocatalysts for organic pollutant degradation. *Environmental Science-Nano*(SCI 2017 IF=6.087).4(11):2175-2185 (ESI Hot Paper)
  - 8) Haoran Dong; Cong Zhang; Junmin Deng; Zhao Jiang; Lihua Zhang; Yujun Cheng; Kunjie Hou; Lin Tang; Guangming Zeng. Factors influencing degradation of trichloroethylene by sulfide-modified nanoscale zero-valent iron in aqueous solution. *Water Research*(SCI 2017 IF=7.051) . 2018.135:1-10 (ESI Hot Paper)

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



## Papers by Research Field

**Citation Trends**

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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

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<div>ites</div> <div> <div>Clear</div> <div>Save Criteria</div> </div>	<div> <div>7</div> <div><b>DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW</b></div> <div>By: JIANG, LB; YUAN, XZ; PAN, Y; et.al</div> <div>Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017</div> <div>Research Fields: CHEMISTRY</div> </div> <div> <div>Times Cited: 44</div> <div>ESI Hot</div> </div>	
	<div> <div>8</div> <div><b>PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW</b></div> <div>By: ZENG, GM; WAN, J; HUANG, DL; et.al</div> <div>Source: J HAZARD MATER 339: 354-367 OCT 5 2017</div> <div>Research Fields: ENGINEERING</div> </div> <div> <div>Times Cited: 39</div> <div>ESI Hot</div> </div>	
	<div> <div>9</div> <div><b>SrTiO<sub>3</sub> NANOCUBES DECORATED WITH Ag/AgCl NANOPARTICLES AS PHOTOCATALYSTS WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY TOWARDS THE DEGRADATION OF DYES, PHENOL AND BISPHENOL A</b></div> <div>By: YANG, SF; NIU, CG; HUANG, DW; et.al</div> <div>Source: ENVIRON-SCI NANO 4 (3): 585-595 MAR 1 2017</div> <div>Research Fields: ENVIRONMENT/ECOLOGY</div> </div> <div> <div>Times Cited: 37</div> <div>ESI Hot</div> </div>	
	<div> <div>10</div> <div><b>FILLING THE OXYGEN VACANCIES IN CO<sub>3</sub>O<sub>4</sub> WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING</b></div> <div>By: XIAO, ZH; WANG, Y; HUANG, YC; et.al</div> <div>Source: ENERGY ENVIRON SCI 10 (12): 2563-2569 DEC 2017</div> <div>Research Fields: CHEMISTRY</div> </div> <div> <div>Times Cited: 30</div> <div>ESI Hot</div> </div>	

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

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	<div> <div>15</div> <div><b>DIRECTIONAL GROWTH OF ULTRALONG CSPBBR<sub>3</sub> PEROVSKITE NANOWIRES FOR HIGH-PERFORMANCE PHOTODETECTORS</b></div> <div>By: SHOAIB, M; ZHANG, XH; WANG, XX; et.al</div> <div>Source: J AM CHEM SOC 139 (44): 15592-15595 NOV 8 2017</div> <div>Research Fields: CHEMISTRY</div> </div> <div> <div>Times Cited: 16</div> <div>ESI Hot</div> </div>	
	<div> <div>16</div> <div><b>RHAMNOLIPID STABILIZED NANO-CHLORAPATITE: SYNTHESIS AND ENHANCEMENT EFFECT ON PB-AND CD-IMMOBILIZATION IN POLLUTED SEDIMENT</b></div> <div>By: WAN, J; ZENG, GM; HUANG, DL; et.al</div> <div>Source: J HAZARD MATER 343: 332-339 FEB 5 2018</div> <div>Research Fields: ENGINEERING</div> </div> <div> <div>Times Cited: 15</div> <div>ESI Hot</div> </div>	

	<p>17 <b>HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN</b></p> <p>By: ZHOU, CY; LAI, C; HUANG, DL; et.al Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018 Research Fields: CHEMISTRY</p> <p>Times Cited: 13 ESI Hot</p>	
	<p>18 <b>SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL</b></p> <p>By: REN, XY; ZENG, GM; TANG, L; et.al Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY</p> <p>Times Cited: 12 ESI Hot</p>	
	<p>19 <b>CORRELATION STRUCTURE AND EVOLUTION OF WORLD STOCK MARKETS: EVIDENCE FROM PEARSON AND PARTIAL CORRELATION-BASED NETWORKS</b></p> <p>By: WANG, GJ; XIE, C; STANLEY, HE; Source: COMPUT ECON 51 (3): 607-635 MAR 2018 Research Fields: ECONOMICS &amp; BUSINESS</p> <p>Times Cited: 10 ESI Hot</p>	
	<p>20 <b>FARADAIC REACTIONS IN CAPACITIVE DEIONIZATION (CDI) - PROBLEMS AND POSSIBILITIES: A REVIEW</b></p> <p>By: ZHANG, CY; HE, D; MA, JX; et.al Source: WATER RES 128: 314-330 JAN 1 2018 Research Fields: ENVIRONMENT/ECOLOGY</p> <p>Times Cited: 9 ESI Hot</p>	
<p>Documents</p> <p>Filter Results By ⓘ</p> <p>Add Filter »</p> <p>✕ HUNAN UNIVERSITY</p>	<p>21 <b>CONFIGURATIONAL OPTIMIZATION OF MULTI-CELL TOPOLOGIES FOR MULTIPLE OBLIQUE LOADS</b></p> <p>By: SUN, GY; LIU, TY; FANG, JG; et.al Source: STRUCT MULTIDISCIP OPTIM 57 (2): 469-488 FEB 2018 Research Fields: ENGINEERING</p> <p>Times Cited: 5 ESI Hot</p>	

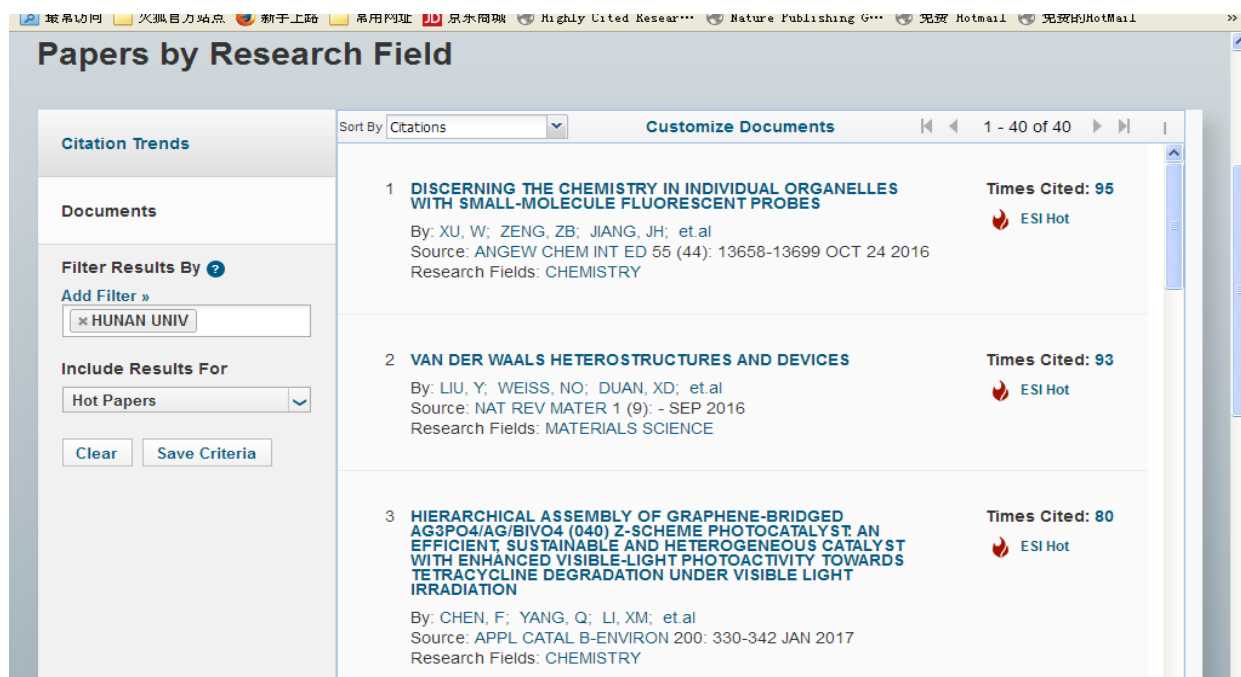
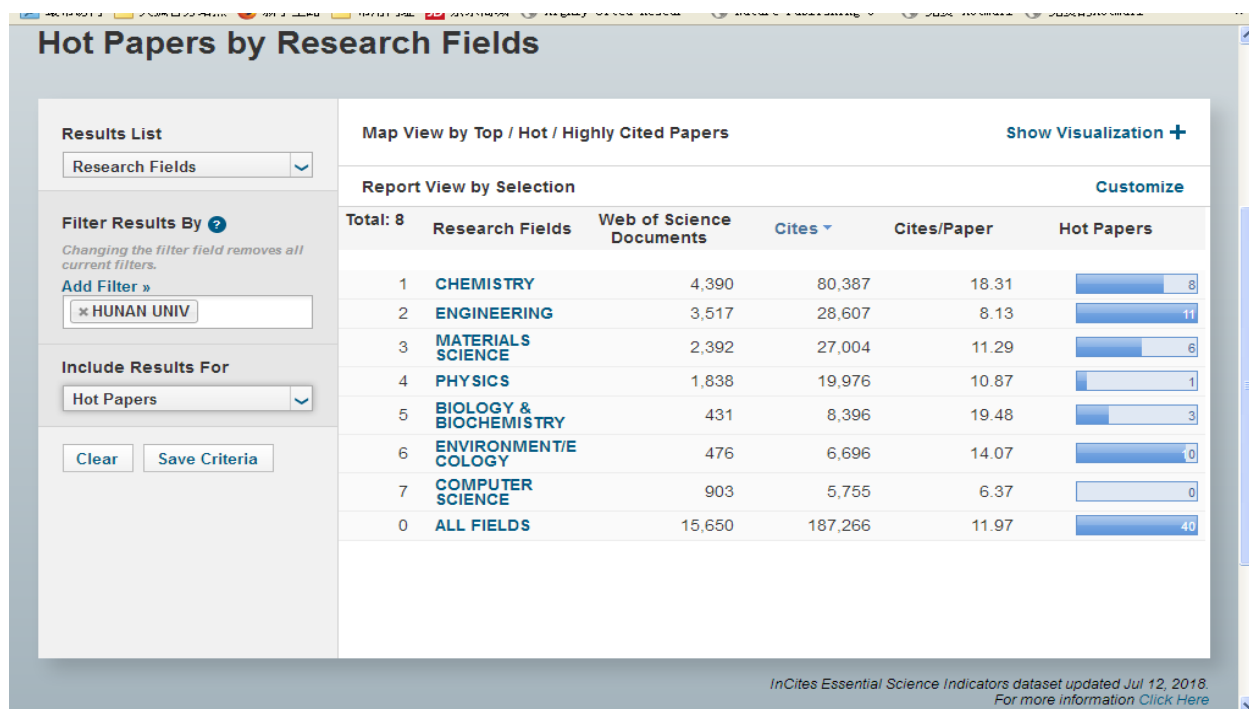
以上 21 篇 Hot Paper 中 有 11 篇是环境学院的论文:

- 9) 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 )
- 10) 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 )
- 11) 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)
- 12) 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)
- 13) Shi-Feng Yang,Cheng-Gang Niu,\* Da-Wei Huang, Huan Zhang,Chao Liang and Guang-Ming Zeng\*. SrTiO<sub>3</sub> nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. Environmental Science-Nano(SCI 2017 IF=6.087). 2017. 4:585–595(ESI Highly Cited Paper and ESI Hot Paper )

- 14) 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)
- 15) 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 )
- 16) 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)
- 17) 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 )
- 18) 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 )
- 19) Zhang Changyong, He Di, Ma Jinxing, Tang Wangwang, Waite T. David\*.Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review.  
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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  
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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

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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  
 ESI Hot

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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Times Cited: 33  
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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

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: 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

ESI Hot

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

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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

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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

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

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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

Source: BIORESOURCE TECHNOL 234: 456-465 JUN 2017





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	<p>22 <b>COMBINATION OF FENTON PROCESSES AND BIOTREATMENT FOR WASTEWATER TREATMENT AND SOIL REMEDIATION</b></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 <b>APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION</b></p> <p>By: WANG, DB; LIU, YW; NGO, HH; et.al Source: BIORESOURCE TECHNOL 238: 343-351 AUG 2017 Research Fields: BIOLOGY &amp; BIOCHEMISTRY</p> <p>Times Cited: 20 ESI Hot</p>
	<p>24 <b>ADVANTAGES AND CHALLENGES OF TWEEN 80 SURFACTANT-ENHANCED TECHNOLOGIES FOR THE REMEDIATION OF SOILS CONTAMINATED WITH HYDROPHOBIC ORGANIC COMPOUNDS</b></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 <b>FILLING THE OXYGEN VACANCIES IN CO<sub>3</sub>O<sub>4</sub> WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING</b></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 <b>EVALUATION METHODS FOR ASSESSING EFFECTIVENESS OF IN SITU REMEDIATION OF SOIL AND SEDIMENT CONTAMINATED WITH ORGANIC POLLUTANTS AND HEAVY METALS</b></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 <b>THE EFFECTS OF RICE STRAW BIOCHAR ON INDIGENOUS MICROBIAL COMMUNITY AND ENZYMES ACTIVITY IN HEAVY METAL-CONTAMINATED SEDIMENT</b></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	<b>AGED REFUSE ENHANCES ANAEROBIC DIGESTION OF WASTE ACTIVATED SLUDGE</b> By: ZHAO, JW; GUI, L; WANG, QL; et.al Source: WATER RES 123: 724-733 OCT 15 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 17  ESI Hot
29	<b>A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE</b> By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al Source: NAT ENERGY 2 (9): - SEP 2017 Research Fields: ENGINEERING	Times Cited: 16  ESI Hot
30	<b>A HYPER-CHAOS-BASED IMAGE ENCRYPTION ALGORITHM USING PIXEL-LEVEL PERMUTATION AND BIT-LEVEL PERMUTATION</b> 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	<b>UNDERSTANDING AND MITIGATING THE TOXICITY OF CADMIUM TO THE ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE</b> 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	<b>EFFECT OF PHANEROCHAETE CHRYSOSPORIUM INOCULATION ON BACTERIAL COMMUNITY AND METAL STABILIZATION IN LEAD-CONTAMINATED AGRICULTURAL WASTE COMPOSTING</b> 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	<b>EFFECT OF DIFFERENT TECHNOLOGIES ON COMBUSTION AND EMISSIONS OF THE DIESEL ENGINE FUELED WITH BIODIESEL: A REVIEW</b> 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	<b>COMPREHENSIVE EVALUATION OF THE CYTOTOXICITY OF CDSE/ZNS QUANTUM DOTS IN PHANEROCHAETE CHRYSOSPORIUM BY CELLULAR UPTAKE AND OXIDATIVE STRESS</b> 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	<b>METAL-FREE CARBON MATERIALS FOR CO<sub>2</sub> ELECTROCHEMICAL REDUCTION</b> By: DUAN, XC; XU, JT; WEI, ZX; et.al Source: ADVAN MATER 29 (41): - NOV 6 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 9 ESI Hot
36	<b>TRICLOCARBAN ENHANCES SHORT-CHAIN FATTY ACIDS PRODUCTION FROM ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE</b> By: WANG, YL; WANG, DB; LIU, YW; et.al Source: WATER RES 127: 150-161 DEC 15 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 8 ESI Hot
37	<b>RHAMNOLIPID STABILIZED NANO-CHLORAPATITE: SYNTHESIS AND ENHANCEMENT EFFECT ON PB-AND CD-IMMOBILIZATION IN POLLUTED SEDIMENT</b> By: WAN, J; ZENG, GM; HUANG, DL; et.al Source: J HAZARD MATER 343: 332-339 FEB 5 2018 Research Fields: ENGINEERING	Times Cited: 7 ESI Hot
38	<b>HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN</b> By: ZHOU, CY; LAI, C; HUANG, DL; et.al Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018 Research Fields: CHEMISTRY	Times Cited: 6 ESI Hot
39	<b>EFFECT ANALYSIS ON FLOW AND BOILING HEAT TRANSFER PERFORMANCE OF COOLING WATER-JACKET OF BEARING IN THE GASOLINE ENGINE TURBOCHARGER</b> By: JIAQIANG, E; ZHANG, ZQ; TU, ZF; et.al Source: APPL THERM ENG 130: 754-766 FEB 5 2018 Research Fields: ENGINEERING	Times Cited: 4 ESI Hot
40	<b>UNDERSTANDING THE MECHANISMS OF HOW POLY ALUMINIUM CHLORIDE INHIBITS SHORT-CHAIN FATTY ACIDS PRODUCTION FROM ANAEROBIC FERMENTATION OF WASTE ACTIVATED SLUDGE</b> By: CHEN, YN; WU, YX; WANG, DB; et.al Source: CHEM ENG J 334: 1351-1360 FEB 15 2018 Research Fields: ENGINEERING	Times Cited: 4 ESI Hot

以上 40 篇 Hot Paper 中 有 22 篇是环境学院的论文:

- 20) Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaoheng Deng. Hierarchical assembly of graphene-bridged Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. Applied Catalysis B: Environmental(SCI 2017 IF=11.69). 2017. 200: 330-342 ( **ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper**)
- 21) Hou Wang, Xingzhong Yuan\*, Yan Wu, Guangming Zeng, Haoran Dong, Xiaohong Chen, Lijian Leng, Zhibin Wu, Lijuan Peng. In situ synthesis of In<sub>2</sub>S<sub>3</sub>@MIL-125(Ti) core-shell microparticle for the removal of tetracycline from wastewater by integrated adsorption and visible-light-driven photocatalysis. APPLIED CATALYSIS B: ENVIRONMENTAL(SCI 2017 IF=11.69) . 2016. 186:19-29 ( **ESI Highly Cited Paper and ESI Research Front** )
- 22) 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 )**
- 23) 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 )**
  - 24) 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**)
  - 25) 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**)
  - 26) Shi-Feng Yang, Cheng-Gang Niu,\* Da-Wei Huang, Huan Zhang,Chao Liang and Guang-Ming Zeng\*. SrTiO<sub>3</sub> nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. *Environmental Science-Nano*(SCI 2017 IF=6.087). 2017. 4:585–595(**ESI Highly Cited Paper and ESI Hot Paper )**
  - 27) 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**)
  - 28) 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**)
  - 29) 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**)
  - 30) 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 )**
  - 31) 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**)
  - 32) 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**)

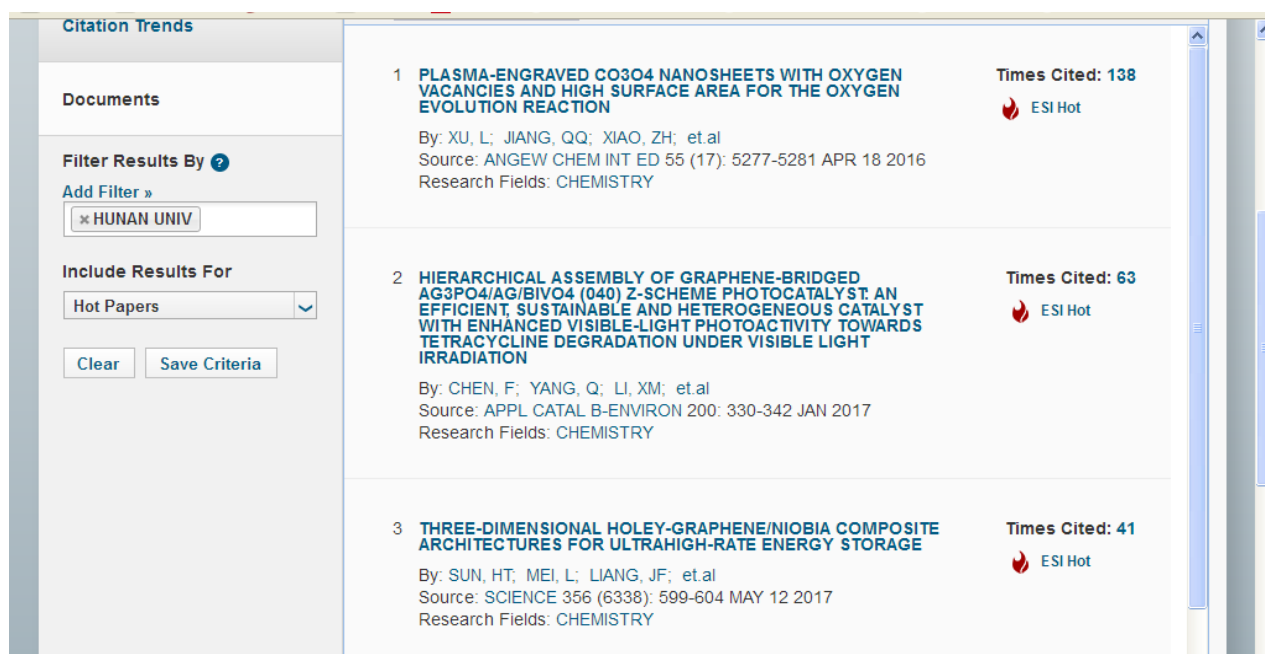
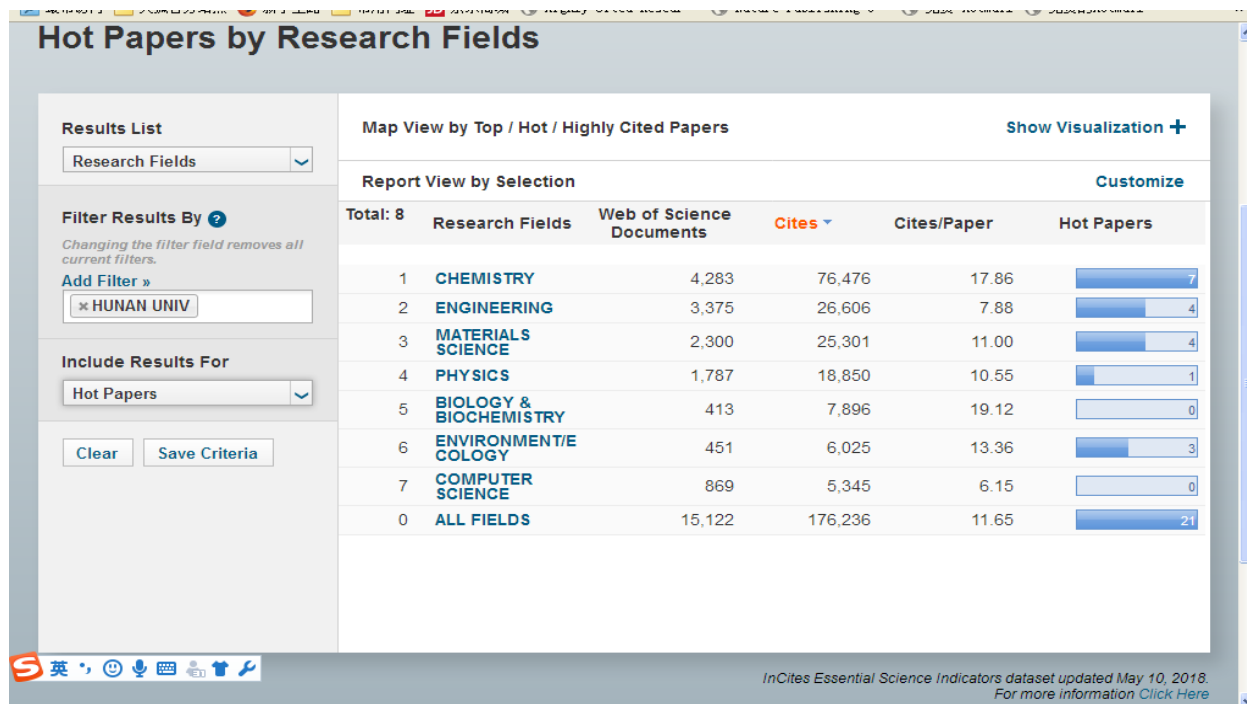


- 33) Danlian Huang\*, Linshan Liu, Guangming Zeng, Piao Xu, Chao Huang, Linjing Deng, Rongzhong Wang, Jia Wan. The effects of rice straw biochar on indigenous microbial community and enzymes activity in heavy metal-contaminated sediment. Chemosphere (SCI 2017 IF = 4.427) . 2017. 174:545-553 (**ESI Highly Cited Paper and Research Front and ESI Hot Paper**)
- 34) 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** )
- 35) 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** )
- 36) 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**)
- 37) 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** )
- 38) 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**)
- 39) 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**)
- 40) 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** )
- 41) 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。



#### 4. 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  
 ESI Hot

9

**SrTiO<sub>3</sub> NANOCUBES DECORATED WITH Ag/AgCl NANOPARTICLES AS PHOTOCATALYSTS WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY TOWARDS THE DEGRADATION OF DYES, PHENOL AND BISPHENOL A**

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	<b>ATOMIC-SCALE COOX SPECIES IN METAL-ORGANIC FRAMEWORKS FOR OXYGEN EVOLUTION REACTION</b> By: DOU, S; DONG, CL; HU, Z; et.al Source: ADV FUNCT MATER 27 (36): - SEP 26 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 16 ESI Hot
13	<b>DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS</b> By: YAN, DF; LI, YX; HUO, J; et.al Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017 Research Fields: MATERIALS SCIENCE	Times Cited: 16 ESI Hot
14	<b>PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW</b> By: ZENG, GM; WAN, J; HUANG, DL; et.al Source: J HAZARD MATER 339: 354-367 OCT 5 2017 Research Fields: ENGINEERING	Times Cited: 13 ESI Hot
15	<b>ROBUST EPITAXIAL GROWTH OF TWO-DIMENSIONAL HETEROSTRUCTURES, MULTIHETEROSTRUCTURES, AND SUPERLATTICES</b> By: ZHANG, ZW; CHEN, P; DUAN, XD; et.al Source: SCIENCE 357 (6353): 788-+ AUG 25 2017 Research Fields: PHYSICS	Times Cited: 12 ESI Hot

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

19	<b>CREATING COORDINATIVELY UNSATURATED METAL SITES IN METAL-ORGANIC-FRAMEWORKS AS EFFICIENT ELECTROCATALYSTS FOR THE OXYGEN EVOLUTION REACTION: INSIGHTS INTO THE ACTIVE CENTERS</b> 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	<b>A NEW MULTI-OBJECTIVE DISCRETE ROBUST OPTIMIZATION ALGORITHM FOR ENGINEERING DESIGN</b> 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	<b>A NOVEL Ag<sub>2</sub>O/CeO<sub>2</sub> HETEROJUNCTION PHOTOCATALYSTS FOR PHOTOCATALYTIC DEGRADATION OF ENROFLOXACIN: POSSIBLE DEGRADATION PATHWAYS, MINERALIZATION ACTIVITY AND AN IN DEPTH MECHANISM INSIGHT</b> 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

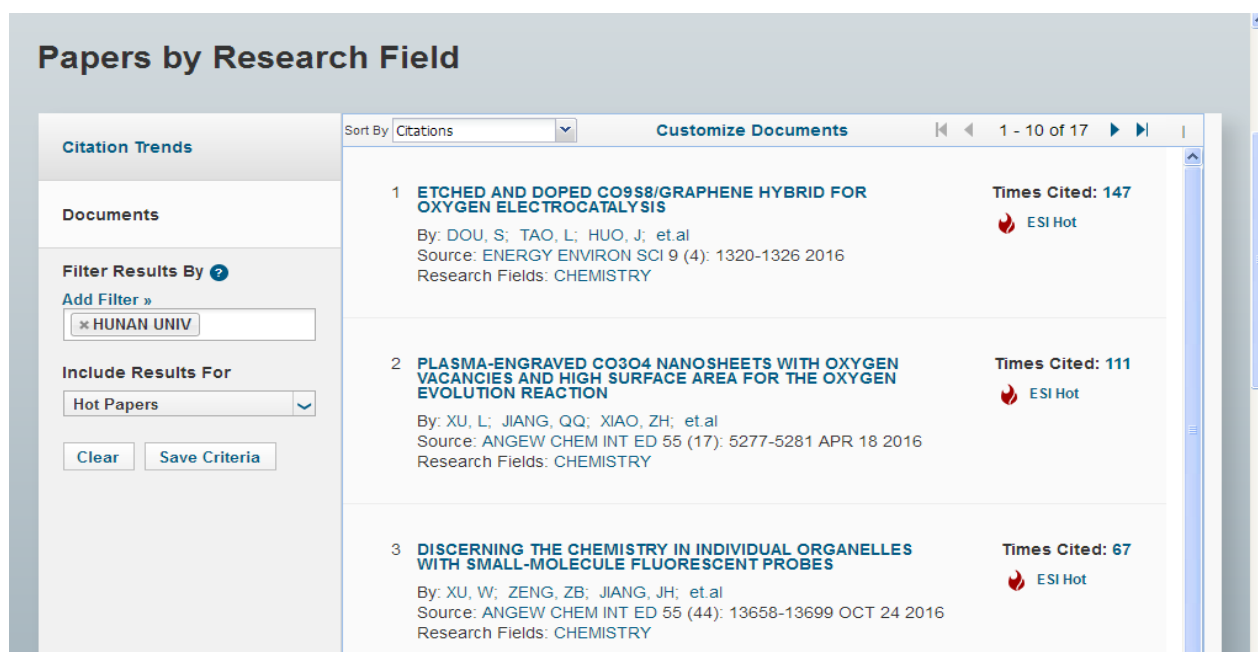
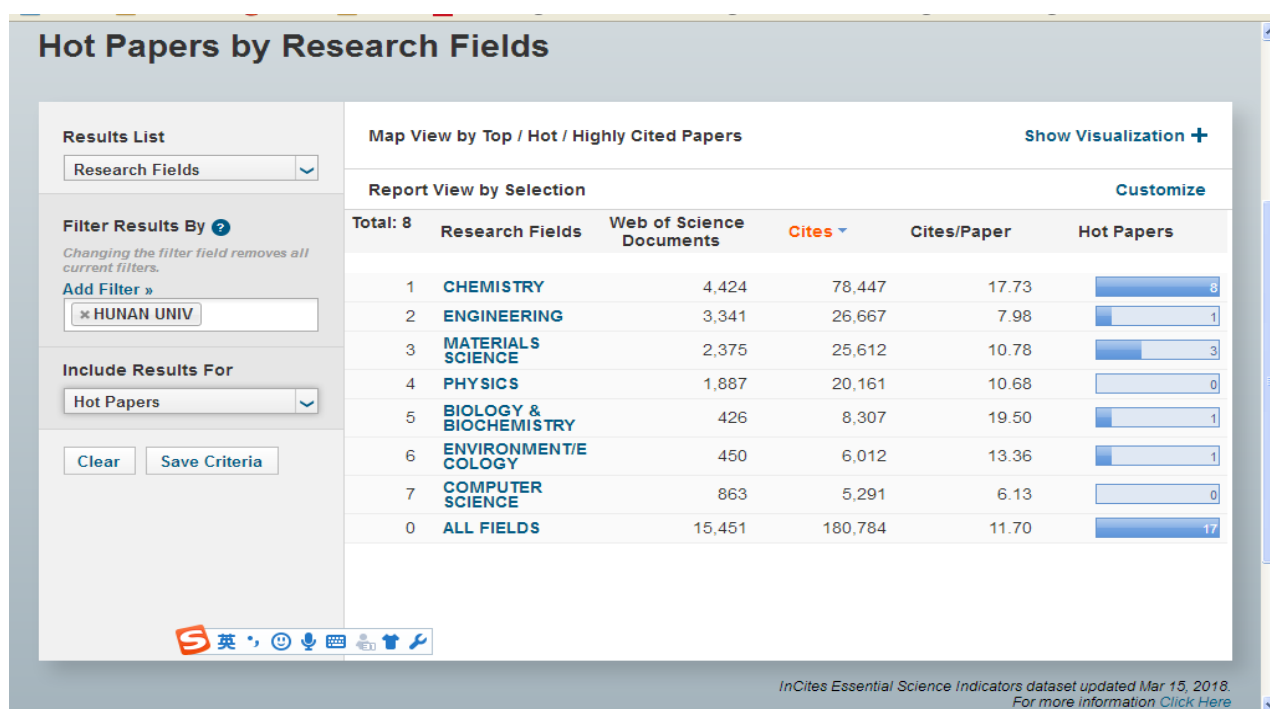
以上 21 篇 Hot Paper 中 有 7 篇是环境学院的论文:

- 42) Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. **Applied Catalysis B: Environmental (SCI 2016 IF=9.446)**. 2017. 200: 330-342 ( **ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper** )
- 43) Shi-Feng Yang, Cheng-Gang Niu\*, Da-Wei Huang, Huan Zhang, Chao Liang and Guang-Ming Zeng\*. SrTiO<sub>3</sub> nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. **Environmental Science-Nano (SCI 2016 IF=6.047)**. 2017. 4:585-595 ( **ESI Highly Cited Paper and ESI Hot Paper** )
- 44) 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** )
- 45) 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** )
- 46) 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** )
- 47) Xiao-Ju Wen, Cheng-Gang Niu\*, Lei Zhang, Chao Liang, Guang-Ming Zeng. A novel Ag<sub>2</sub>O/CeO<sub>2</sub> heterojunction photocatalysts for photocatalytic degradation of enrofloxacin: possible degradation pathways, mineralization activity and an in depth mechanism insight. **Applied Catalysis B: Environmental (SCI 2016 IF=9.446)**. 2018. 221 : 701 - 714 ( **ESI Hot Paper** )
- 48) ShuquZhang1, LongluWang1, ChengbinLiu\*, JinmingLuo\*, JohnCrittenden, XiaLiu, TaoCai, JiliYuan, YongPei, Y utangLiu. Photocatalytic wastewater purification with simultaneous hydrogen production using MoS<sub>2</sub>

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

博士生陈飞的论文是 第 3 次上榜 ESI Hot Paper。

## 5. 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 AG<sub>3</sub>PO<sub>4</sub>/AG/BIVO<sub>4</sub> (040) Z-SCHEME PHOTOCATALYST: AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION**

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  
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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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	<p>15 <b>APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION</b> 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 &amp; BIOCHEMISTRY</p> <p>16 <b>ELECTROCATALYTIC PROPERTIES OF N-DOPED GRAPHITE FELT IN ELECTRO-FENTON PROCESS AND DEGRADATION MECHANISM OF LEVOFLOXACIN</b> 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 <b>DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW</b> 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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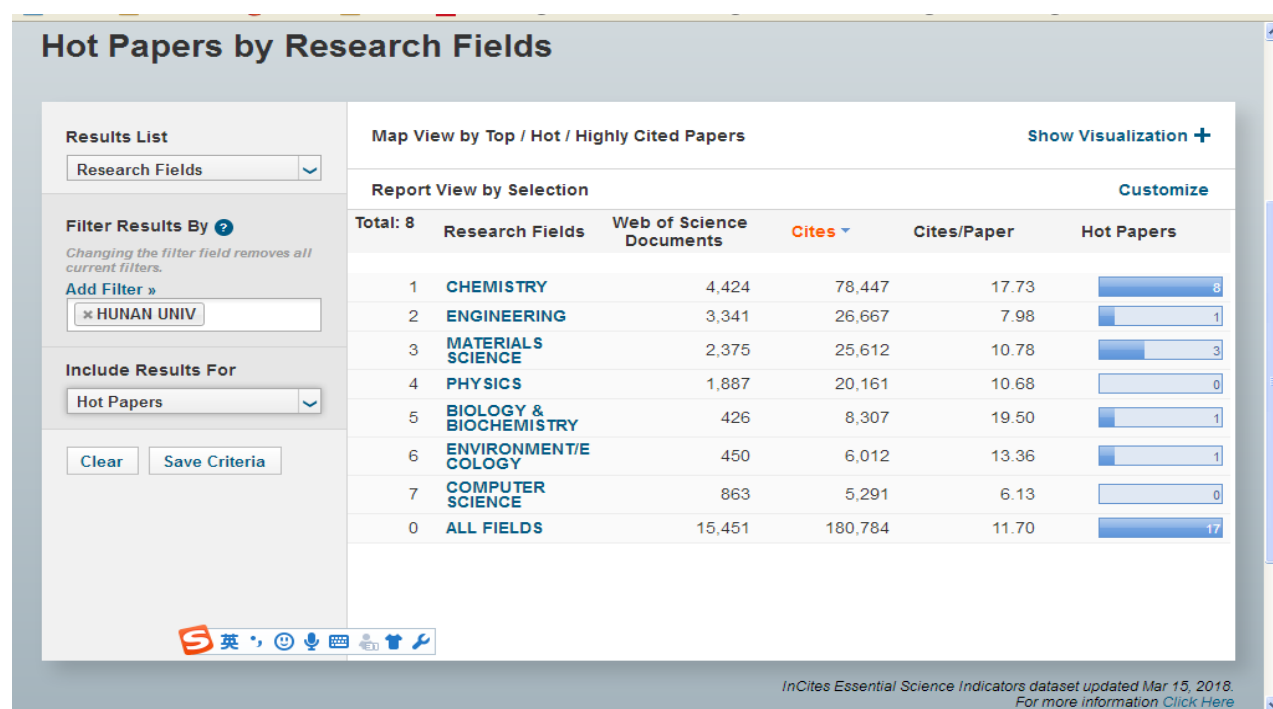
以上 17 篇 Hot Paper 中 有 4 篇是环境学院的论文:

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 Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. **Applied Catalysis B-Environmental (SCI 2016 IF=9.446)**. 2017. 200: 330-342 ( **ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper**)
2. 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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## 6. Essential Science Indicators for Hot papers for Hunan Univ on 15 Mar 2018





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1	<b>ETCHED AND DOPED CO<sub>9</sub>S<sub>8</sub>/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS</b> By: DOU, S; TAO, L; HUO, J; et.al Source: ENERGY ENVIRON SCI 9 (4): 1320-1326 2016 Research Fields: CHEMISTRY	Times Cited: 147 ESI Hot
2	<b>PLASMA-ENGRAVED CO<sub>3</sub>O<sub>4</sub> NANOSHEETS WITH OXYGEN VACANCIES AND HIGH SURFACE AREA FOR THE OXYGEN EVOLUTION REACTION</b> 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	<b>DISCERNING THE CHEMISTRY IN INDIVIDUAL ORGANELLES WITH SMALL-MOLECULE FLUORESCENT PROBES</b> 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 ESI Hot

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5	<b>NANOPARTICLE-STACKED POROUS NICKEL-IRON NITRIDE NANOSHEET: A HIGHLY EFFICIENT BIFUNCTIONAL ELECTROCATALYST FOR OVERALL WATER SPLITTING</b> By: WANG, YY; XIE, C; LIU, DD; et.al Source: ACS APPL MATER INTERFACES 8 (29): 18652-18657 JUL 27 2016 Research Fields: MATERIALS SCIENCE	Times Cited: 51 ESI Hot
6	<b>HIERARCHICAL ASSEMBLY OF GRAPHENE-BRIDGED AG<sub>3</sub>PO<sub>4</sub>/AG/BIVO<sub>4</sub> (040) Z-SCHEME PHOTOCATALYST: AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION</b> By: CHEN, F; YANG, Q; LI, XM; et.al Source: APPL CATAL B-ENVIRON 200: 330-342 JAN 2017 Research Fields: CHEMISTRY	Times Cited: 44 ESI Hot

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7	<b>THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE</b> By: SUN, HT; MEI, L; LIANG, JF; et.al Source: SCIENCE 356 (6338): 599-604 MAY 12 2017 Research Fields: CHEMISTRY	Times Cited: 28 ESI Hot
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15	<b>APPROACH OF DESCRIBING DYNAMIC PRODUCTION OF VOLATILE FATTY ACIDS FROM SLUDGE ALKALINE FERMENTATION</b> By: WANG, DB; LIU, YW; NGO, HH; et al Source: BIORESOURCE TECHNOL 238: 343-351 AUG 2017 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 8  ESI Hot
16	<b>ELECTROCATALYTIC PROPERTIES OF N-DOPED GRAPHITE FELT IN ELECTRO-FENTON PROCESS AND DEGRADATION MECHANISM OF LEVOFLOXACIN</b> By: LIU, XC; YANG, DX; ZHOU, YY; et al Source: CHEMOSPHERE 182: 306-315 SEP 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 5  ESI Hot
17	<b>DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW</b> By: JIANG, LB; YUAN, XZ; PAN, Y; et al Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017 Research Fields: CHEMISTRY	Times Cited: 5  ESI Hot

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 Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. **Applied Catalysis B-Environmental (SCI 2016 IF=9.446)**. 2017. 200: 330-342 ( **ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper**)
- 2) 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。

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

## Hot Papers by Research Fields

**Results List**

Research Fields

**Filter Results By**

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x HUNAN UNIV

**Include Results For**

Hot Papers

Clear Save Criteria

**Map View by Top / Hot / Highly Cited Papers**

Show Visualization +

**Report View by Selection**

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Total: 8

	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

InCites Essential Science Indicators dataset updated Jan 11, 2018.  
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## Papers by Research Field

**Citation Trends**

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Hot Papers

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Sort By Citations

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1 - 9 of 9

- 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
- 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
- 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**

**Documents**

**Filter Results By**

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1 - 9 of 9

4	<p><b>A GENERAL APPROACH TO COBALT-BASED HOMOBIMETALLIC PHOSPHIDE ULTRATHIN NANOSHEETS FOR HIGHLY EFFICIENT OXYGEN EVOLUTION IN ALKALINE MEDIA</b></p> <p>By: XIAO, XF; HE, CT; ZHAO, SL; et.al Source: ENERGY ENVIRON SCI 10 (4): 893-899 APR 1 2017 Research Fields: CHEMISTRY</p>	<p><b>Times Cited: 15</b></p> <p> ESI Hot</p>
5	<p><b>THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE</b></p> <p>By: SUN, HT; MEI, L; LIANG, JF; et.al Source: SCIENCE 356 (6338): 599-604 MAY 12 2017 Research Fields: CHEMISTRY</p>	<p><b>Times Cited: 13</b></p> <p> ESI Hot</p>
6	<p><b>THE INDIRECT ENERGY CONSUMPTION AND CO2 EMISSION CAUSED BY HOUSEHOLD CONSUMPTION IN CHINA: AN ANALYSIS BASED ON THE INPUT-OUTPUT METHOD</b></p> <p>By: ZHANG, YJ; BIAN, XJ; TAN, WP; et.al Source: J CLEAN PROD 163: 69-83 OCT 1 2017 Research Fields: ENGINEERING</p>	<p><b>Times Cited: 10</b></p> <p> ESI Hot</p>
7	<p><b>RESPONSE OF SOIL ORGANIC CARBON AND NITROGEN STOCKS TO SOIL EROSION AND LAND USE TYPES IN THE LOESS HILLY-GULLY REGION OF CHINA</b></p> <p>By: LI, ZW; LIU, C; DONG, YT; et.al Source: SOIL TILL RES 166: 1-9 MAR 2017 Research Fields: AGRICULTURAL SCIENCES</p>	<p><b>Times Cited: 10</b></p> <p> ESI Hot</p>
8	<p><b>FINITE-TIME STABILIZATION CONTROL OF MEMRISTOR-BASED NEURAL NETWORKS</b></p> <p>By: CAI, ZW; HUANG, LH; ZHU, MX; et.al Source: NONLINEAR ANAL-HYBRID SYST 20: 37-54 MAY 2016 Research Fields: MATHEMATICS</p>	<p><b>Times Cited: 9</b></p> <p> ESI Hot</p>
9	<p><b>ADSORPTION OF ESTROGEN CONTAMINANTS BY GRAPHENE NANOMATERIALS UNDER NATURAL ORGANIC MATTER PRELOADING: COMPARISON TO CARBON NANOTUBE, BIOCHAR, AND ACTIVATED CARBON</b></p> <p>By: JIANG, LH; LIU, YG; LIU, SB; et.al Source: ENVIRON SCI TECHNOL 51 (11): 6352-6359 JUN 6 2017 Research Fields: ENVIRONMENT/ECOLOGY</p>	<p><b>Times Cited: 6</b></p> <p> ESI Hot</p>

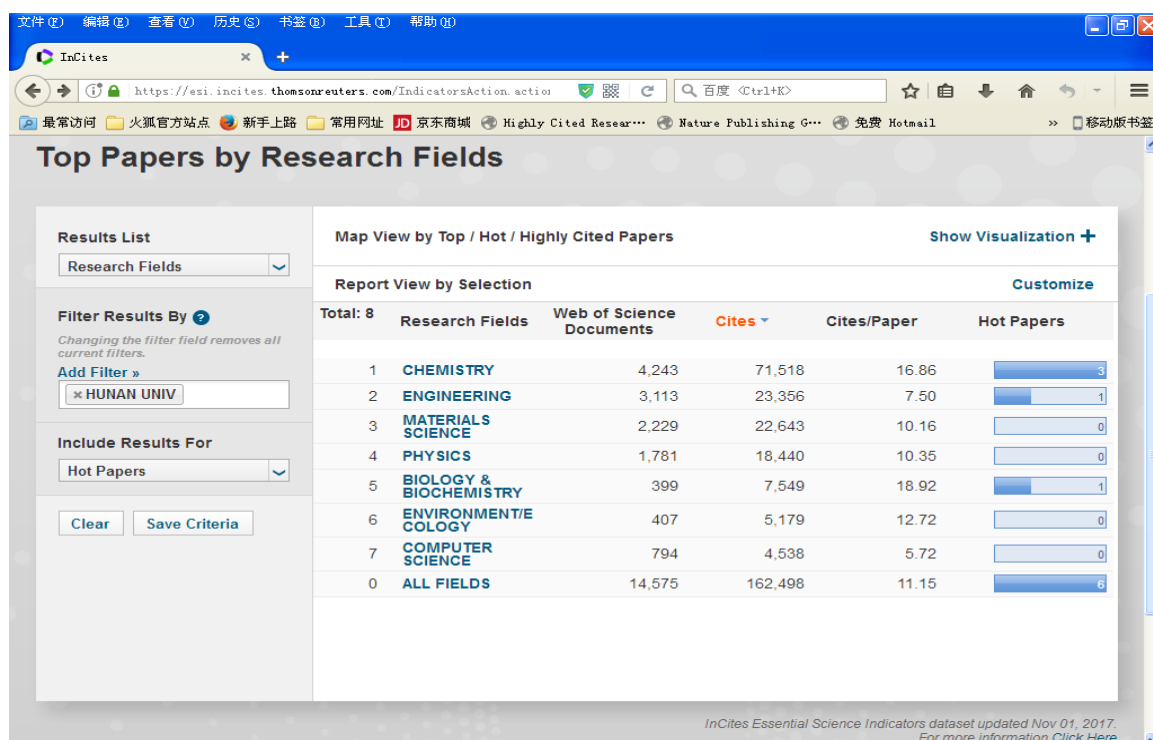
以上 9 篇 Hot Paper 中 有 3 篇是环境学院的论文:

- 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。

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



## Papers by Research Field

Citation Trends

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Hot Papers

Clear Save Criteria

Sort By Citations

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1 - 6 of 6

- 1 PLASMA-ENGRAVED CO<sub>3</sub>O<sub>4</sub> 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 AG<sub>3</sub>PO<sub>4</sub>/AG/BIVO<sub>4</sub> (040) Z-SCHEME PHOTOCATALYST AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOACTIVITY TOWARDS TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION**

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 Bi<sub>2</sub>WO<sub>6</sub> 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

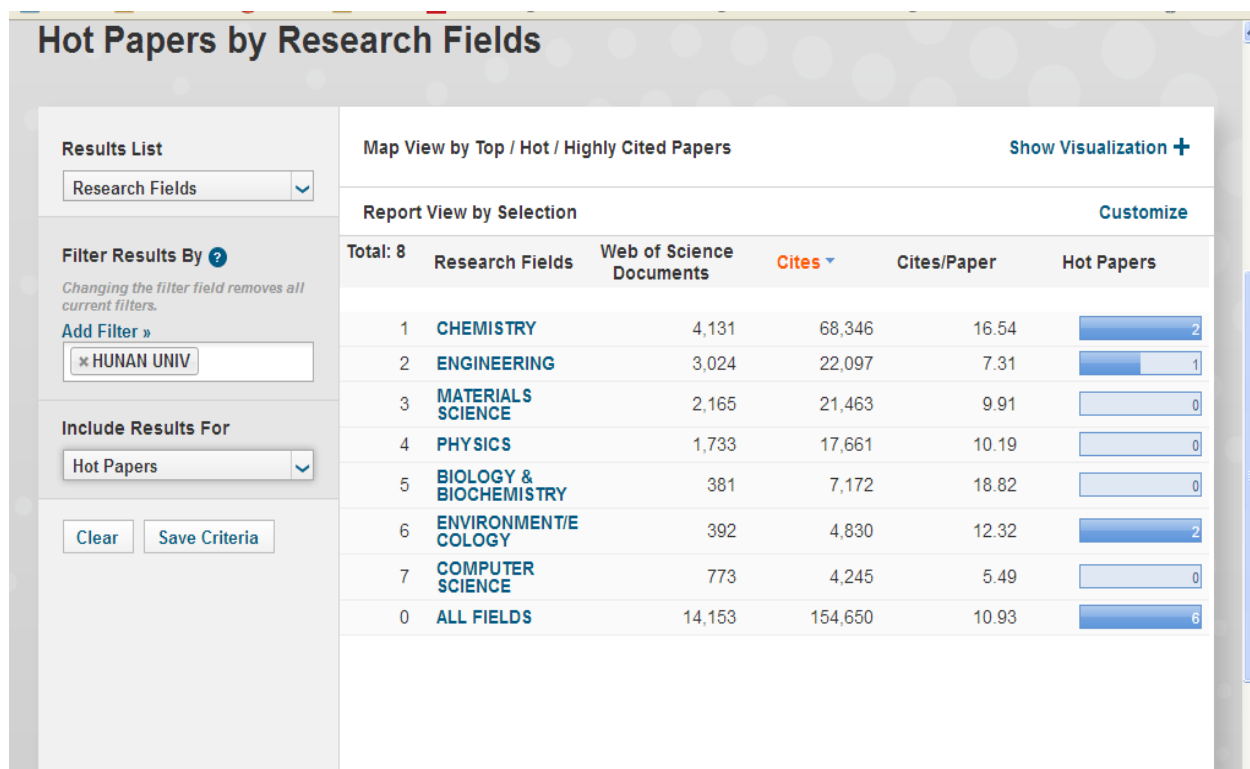
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- 1) Fei Chen, Qi Yang\*, Xiaoming Li, Guangming Zeng, Dongbo Wang\*, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag<sub>3</sub>PO<sub>4</sub>/Ag/BiVO<sub>4</sub> (040) Zscheme

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

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

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





# Papers by Research Field

Citation Trends

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1 - 6 of 6

1


**ETCHED AND DOPED CO<sub>9</sub>S<sub>8</sub>/GRAPHENE HYBRID FOR OXYGEN ELECTROCATALYSIS**

Times Cited: 85  
 ESI Hot

By: DOU, S; TAO, L; HUO, J; et.al  
 Source: ENERGY ENVIRON SCI 9 (4): 1320-1326 2016  
 Research Fields: CHEMISTRY

2


**AN OVERVIEW ON LIMITATIONS OF TiO<sub>2</sub>-BASED PARTICLES FOR PHOTOCATALYTIC DEGRADATION OF ORGANIC POLLUTANTS AND THE CORRESPONDING COUNTERMEASURES**

Times Cited: 54  
 ESI Hot

By: DONG, HR; ZENG, GM; TANG, L; et.al  
 Source: WATER RES 79: 128-146 AUG 1 2015  
 Research Fields: ENVIRONMENT/ECOLOGY

3

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

Times Cited: 50  
 ESI Hot

By: CHENG, M; ZENG, GM; HUANG, DL; et.al  
 Source: CHEM ENG J 284: 582-598 JAN 15 2016  
 Research Fields: ENGINEERING

4

**EFFICACY OF CARBONACEOUS NANOCOMPOSITES FOR SORBING IONIZABLE ANTIBIOTIC SULFAMETHAZINE FROM AQUEOUS SOLUTION**

Times Cited: 27  
 ESI Hot

By: ZHANG, C; LAI, C; ZENG, GM; et.al  
 Source: WATER RES 95: 103-112 MAY 15 2016  
 Research Fields: ENVIRONMENT/ECOLOGY

5

**NITROGEN-DOPED HIERARCHICALLY POROUS CARBON NETWORKS: SYNTHESIS AND APPLICATIONS IN LITHIUM-ION BATTERY, SODIUM-ION BATTERY AND ZINC-AIR BATTERY**

Times Cited: 23  
 ESI Hot

By: WANG, L; YANG, CL; DOU, S; et.al  
 Source: ELECTROCHIM ACTA 219: 592-603 NOV 20 2016  
 Research Fields: CHEMISTRY

6

**THE DIRECT AND INDIRECT CO<sub>2</sub> REBOUND EFFECT FOR PRIVATE CARS IN CHINA**

Times Cited: 3  
 ESI Hot

By: ZHANG, YJ; LIU, Z; QIN, CX; et.al  
 Source: ENERG POLICY 100: 149-161 JAN 2017  
 Research Fields: SOCIAL SCIENCES, GENERAL

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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 TiO<sub>2</sub>-based particles for photocatalytic degradation of organic pollutants and the corresponding countermeasures. *Water Research* (SCI 2016 IF=6.942). 2015. 79:128-146 (ESI Hot paper and ESI Highly Cited Paper)
- 2) Min Cheng, Guangming Zeng\*, Danlian Huang\*, Cui Lai, Piao Xu, Chen Zhang, Yang Liu. Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. *Chemical Engineering Journal* 2016. 284 : 582–598 ( ESI Hot Paper and ESI Highly Cited Paper)
- 3) Chen Zhang, Cui Lai, Guang-Ming Zeng\*, Dan-Lian Huang\*, Chunping Yang, Yang Wang, Yao-Yu Zhou, Min Cheng. Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. *Water Research* . 2016. 95:103-112 (ESI Hot Paper and ESI Highly Cited Paper)

## 10. 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

Filter Results By ?


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Hot Papers


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4 **SURFACE PLASMON-ENHANCED PHOTODETECTION IN FEW LAYER MOS<sub>2</sub> 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 R<sup>4</sup> 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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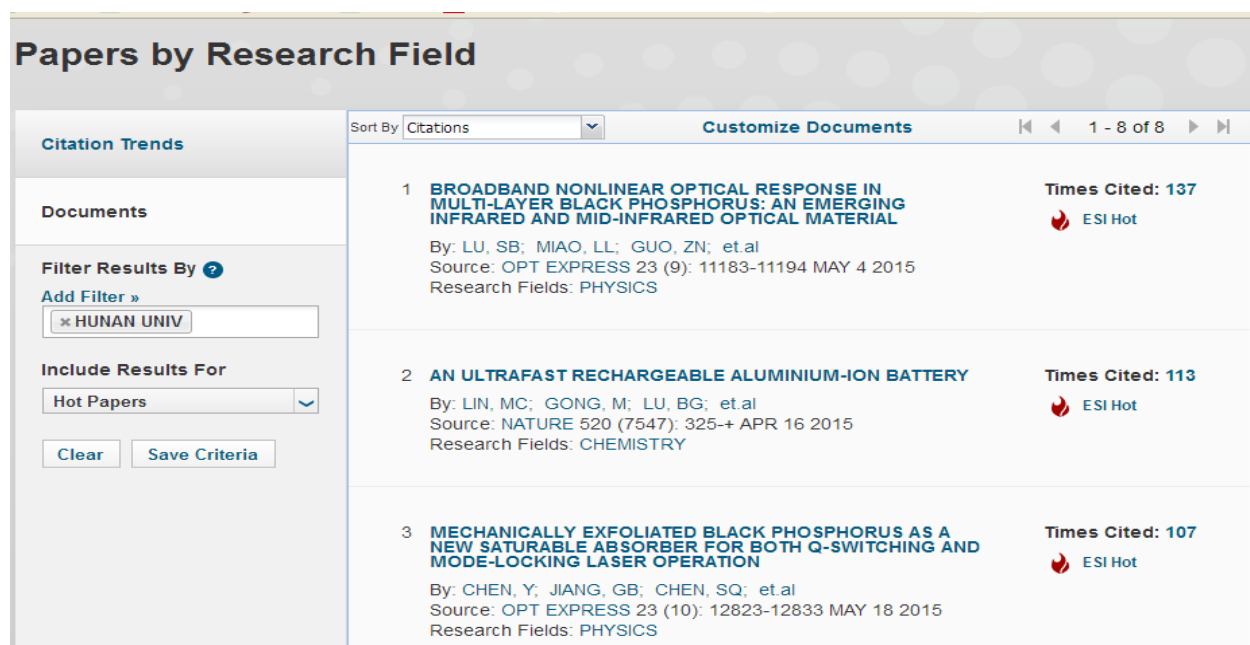
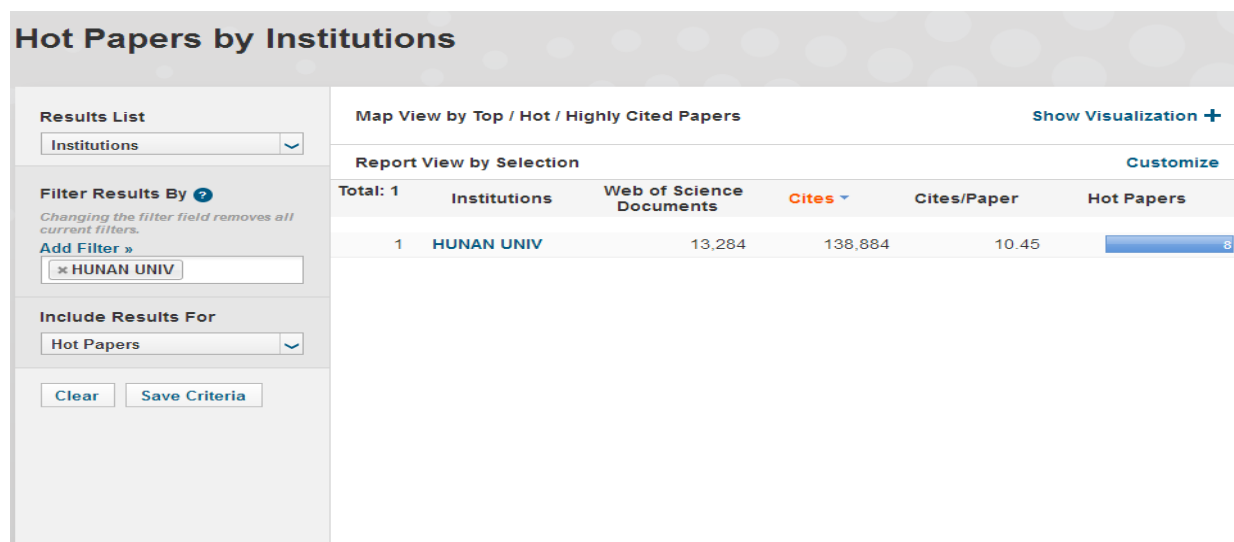
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以上 9 篇 Hot Paper 中 有 3 篇是环境学院的论文:

- 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

5. 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

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



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Hot Papers

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

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1 - 8 of 8

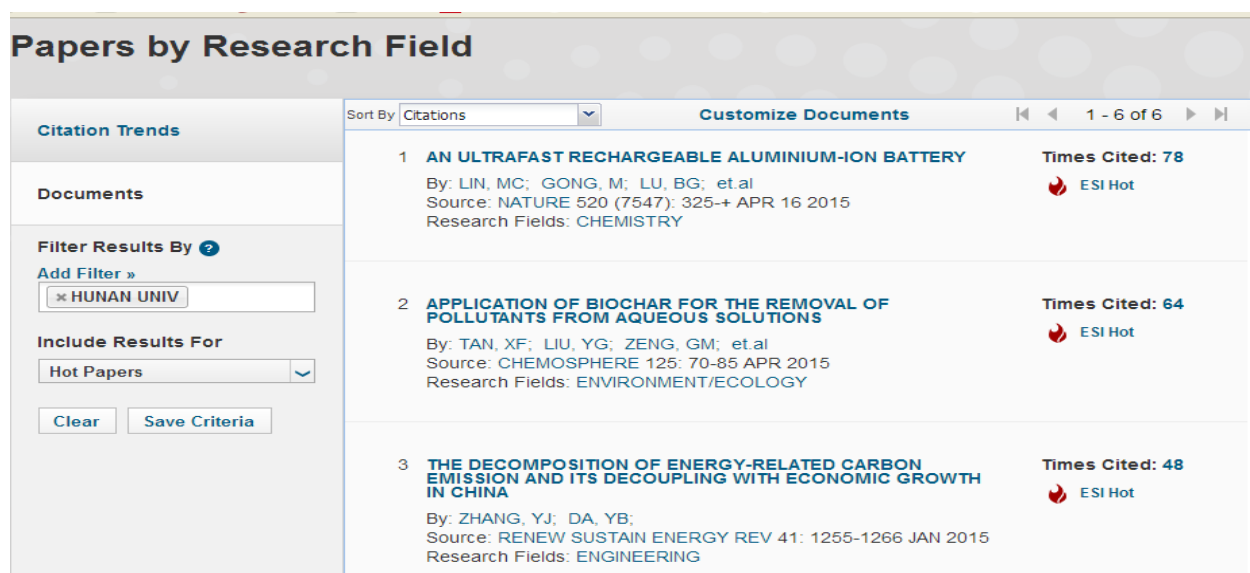
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以上 8 篇 Hot Paper 中 有 4 篇是环境学院的论文:

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

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

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



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

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以上 6 篇 Hot Paper 中 有 1 篇是环境学院的论文:

<p><b>Application of biochar for the removal of pollutants from aqueous solutions</b></p> <p>作者: Tan, XF (Tan, Xiaofei)<sup>[1,2]</sup>; Liu, YG (Liu, Yunguo)<sup>[1,2]</sup>; Zeng, GM (Zeng, Guangming)<sup>[1,2]</sup>; Wang, X (Wang, Xin)<sup>[3]</sup>; Hu, XJ (Hu, Xinjiang)<sup>[1,2]</sup>; Gu, YL (Gu, Yanling)<sup>[1,2]</sup>; Yang, ZZ (Yang, Zhongzhu)<sup>[1,2]</sup></p> <p><a href="#">查看 ResearcherID 和 ORCID</a></p> <p>CHEMOSPHERE 卷: 125 页: 70-85 DOI: 10.1016/j.chemosphere.2014.12.058 出版年: APR 2015 <a href="#">查看期刊信息</a></p> <p><b>摘要</b> 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.</p> <p><b>关键词</b> 作者关键词: Biochar; Carbon sequestration; Adsorption; Aqueous solutions; Water pollution; Research</p>	<p><b>引文网络</b></p> <p><b>81</b> 被引频次 131 引用的参考文献 <a href="#">查看 Related Records</a> <a href="#">查看引证关系图</a> <a href="#">创建引文跟踪</a> (数据来自 Web of Science™ 核心合集)</p> <p><b>全部被引频次计数</b> 89 / 所有数据库 81 / Web of Science 核心合集 48 / BIOSIS Citation Index 7 / 中国科学引文数据库 0 / Data Citation Index 0 / Russian Science Citation Index 0 / Sciendo Citation Index</p> <p><b>热点论文</b> <b>高被引论文</b></p>
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needs

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

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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

Times Cited: 106  
 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

Times Cited: 80  
 ESI Hot

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  
 ESI Hot

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

Times Cited: 46



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

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

Research Fields: ENVIRONMENT/ECOLOGY

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

Times Cited: 18



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

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

Research Fields: MATERIALS SCIENCE

以上 6 篇 Hot Paper 中 有 1 篇是环境学院的论文:

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

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

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WATER RESEARCH

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14. 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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### **1 Citations: 77**

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

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

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

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

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

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

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2

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

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

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

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

Hunan, Peoples R China.

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

Field: [ENVIRONMENT/ECOLOGY](#)

### 3 Citations: 32

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

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

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

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

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

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

3

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

Addresses: [Hunan Univ](#), Joint Int Ctr Capture & Storage iCCS CO<sub>2</sub>, Prov Key Lab Cost Effect Utilizat Fossil Fuel Aim, Dept Chem Engn, Changsha 410082, Hunan, Peoples R China.

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

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

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

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

[Hunan Univ](#), Minist Educ, Key Lab Environm Biol & Pollut Control,  
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Field: [ENGINEERING](#)

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Title: NO-REFERENCE IMAGE BLUR ASSESSMENT BASED ON DISCRETE ORTHOGONAL  
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Authors: [LI LD](#); [LIN WS](#); [WANG XS](#); YANG GB; BAHRAMI K; KOT AC

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

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Field: [COMPUTER SCIENCE](#)

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