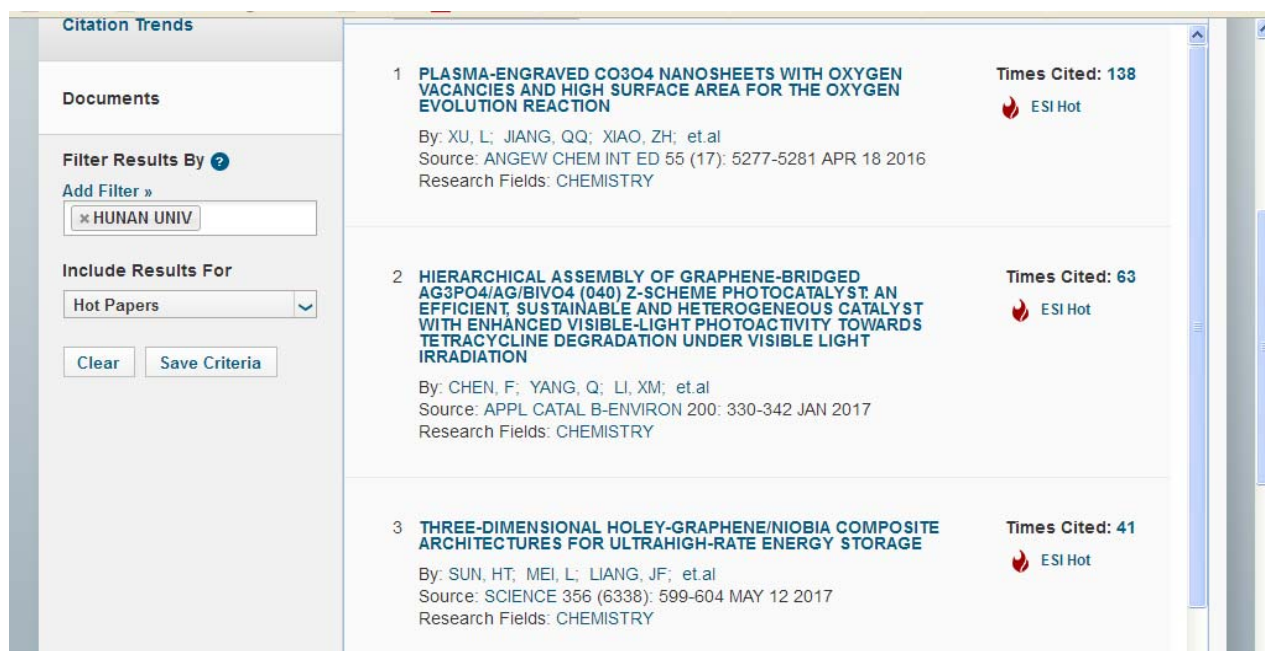
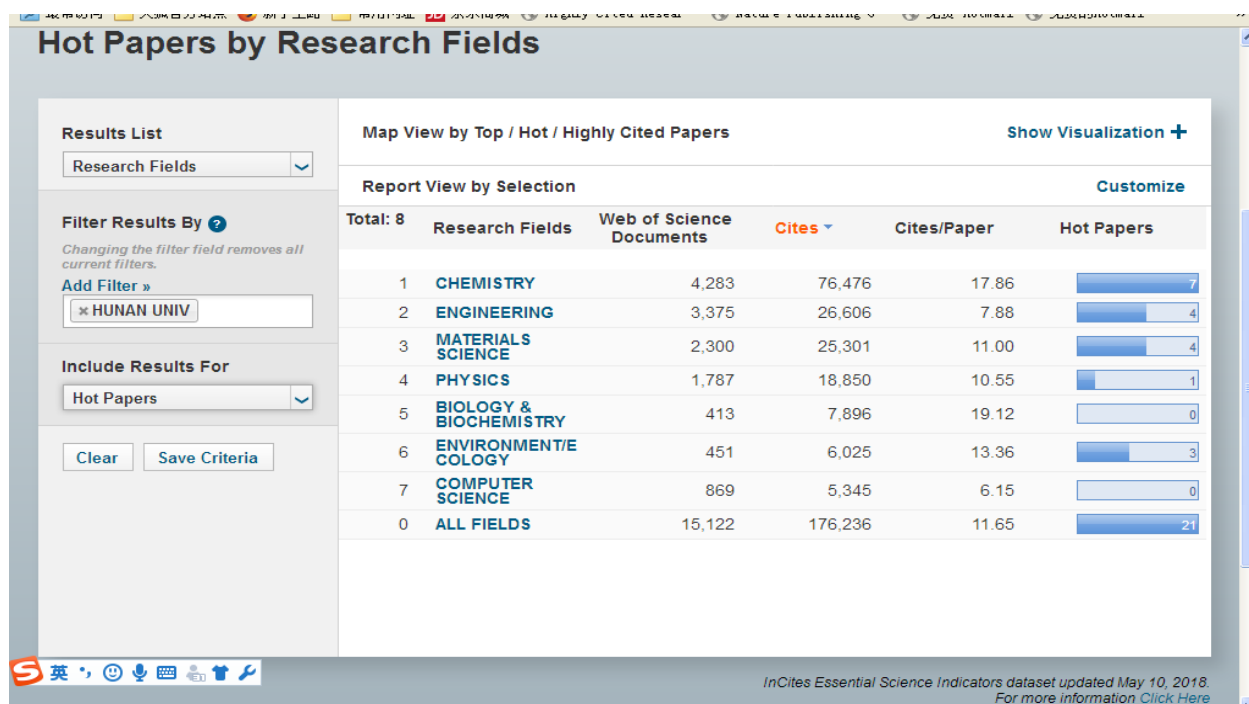


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SELECTIVE VISUALIZATION OF THE ENDOGENOUS PEROXYNITRITE IN AN INFLAMED MOUSE MODEL BY A MITOCHONDRIA-TARGETABLE TWO-PHOTON RATIO-METRIC FLUORESCENT PROBE

By: CHENG, D; PAN, Y; WANG, L; et.al
 Source: J AM CHEM SOC 139 (1): 285-292 JAN 11 2017
 Research Fields: CHEMISTRY

Times Cited: 40
 ESI Hot

5

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

By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al
 Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017
 Research Fields: CHEMISTRY

Times Cited: 37
 ESI Hot

6

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

By: LIU, R; WANG, YY; LIU, DD; et.al
 Source: ADVAN MATER 29 (30): - AUG 11 2017
 Research Fields: MATERIALS SCIENCE

Times Cited: 23
 ESI Hot

7

PARAMETERIZATION OF CRISS-CROSS CONFIGURATIONS FOR MULTIOBJECTIVE CRASHWORTHINESS OPTIMIZATION

By: SUN, GY; PANG, T; FANG, JG; et.al
 Source: INT J MECH SCI 124: 145-157 MAY 2017
 Research Fields: ENGINEERING

Times Cited: 21
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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

SRIO3 NANOCUBES DECORATED WITH Ag/AgCL NANOPARTICLES AS PHOTOCATALYSTS WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY TOWARDS THE DEGRADATION OF DYES, PHENOL AND BISPHENOL A

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

Times Cited: 18
 ESI Hot

10

DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVIEW

By: JIANG, LB; YUAN, XZ; PAN, Y; et.al
 Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017
 Research Fields: CHEMISTRY





Times Cited: 18
 ESI Hot

11

CAN ENVIRONMENTAL INNOVATION FACILITATE CARBON EMISSIONS REDUCTION? EVIDENCE FROM CHINA

By: ZHANG, YJ; PENG, YL; MA, CQ; et.al
 Source: ENERG POLICY 100: 18-28 JAN 2017
 Research Fields: SOCIAL SCIENCES, GENERAL

Times Cited: 17
 ESI Hot

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

16	AGED REFUSE ENHANCES ANAEROBIC DIGESTION OF WASTE ACTIVATED SLUDGE By: ZHAO, JW; GUI, L; WANG, QL; et.al Source: WATER RES 123: 724-733 OCT 15 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 8  ESI Hot
17	A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al Source: NAT ENERGY 2 (9): - SEP 2017 Research Fields: ENGINEERING	Times Cited: 8  ESI Hot
18	PHOTOCATALYTIC WASTEWATER PURIFICATION WITH SIMULTANEOUS HYDROGEN PRODUCTION USING MOS₂ QD-DECORATED HIERARCHICAL ASSEMBLY OF ZNIN₂S₄ ON REDUCED GRAPHENE OXIDE PHOTOCATALYST By: ZHANG, SQ; WANG, LL; LIU, CB; et.al Source: WATER RES 121: 11-19 SEP 15 2017 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 6  ESI Hot

19	CREATING COORDINATIVELY UNSATURATED METAL SITES IN METAL-ORGANIC-FRAMEWORKS AS EFFICIENT ELECTROCATALYSTS FOR THE OXYGEN EVOLUTION REACTION: INSIGHTS INTO THE ACTIVE CENTERS	Times Cited: 6 ESI Hot
	By: TAO, L; LIN, CY; DOU, S; et.al Source: NANO ENERGY 41: 417-425 NOV 2017 Research Fields: MATERIALS SCIENCE	
20	A NEW MULTI-OBJECTIVE DISCRETE ROBUST OPTIMIZATION ALGORITHM FOR ENGINEERING DESIGN	Times Cited: 5 ESI Hot
	By: SUN, GY; ZHANG, HL; FANG, JG; et.al Source: APPL MATH MODEL 53: 602-621 JAN 2018 Research Fields: ENGINEERING	
21	A NOVEL Ag₂O/CeO₂ HETEROJUNCTION PHOTOCATALYSTS FOR PHOTOCATALYTIC DEGRADATION OF ENROFLOXACIN: POSSIBLE DEGRADATION PATHWAYS, MINERALIZATION ACTIVITY AND AN IN DEPTH MECHANISM INSIGHT	Times Cited: 4 ESI Hot
	By: WEN, XJ; NIU, CG; ZHANG, L; et.al Source: APPL CATAL B-ENVIRON 221: 701-714 FEB 2018 Research Fields: CHEMISTRY	

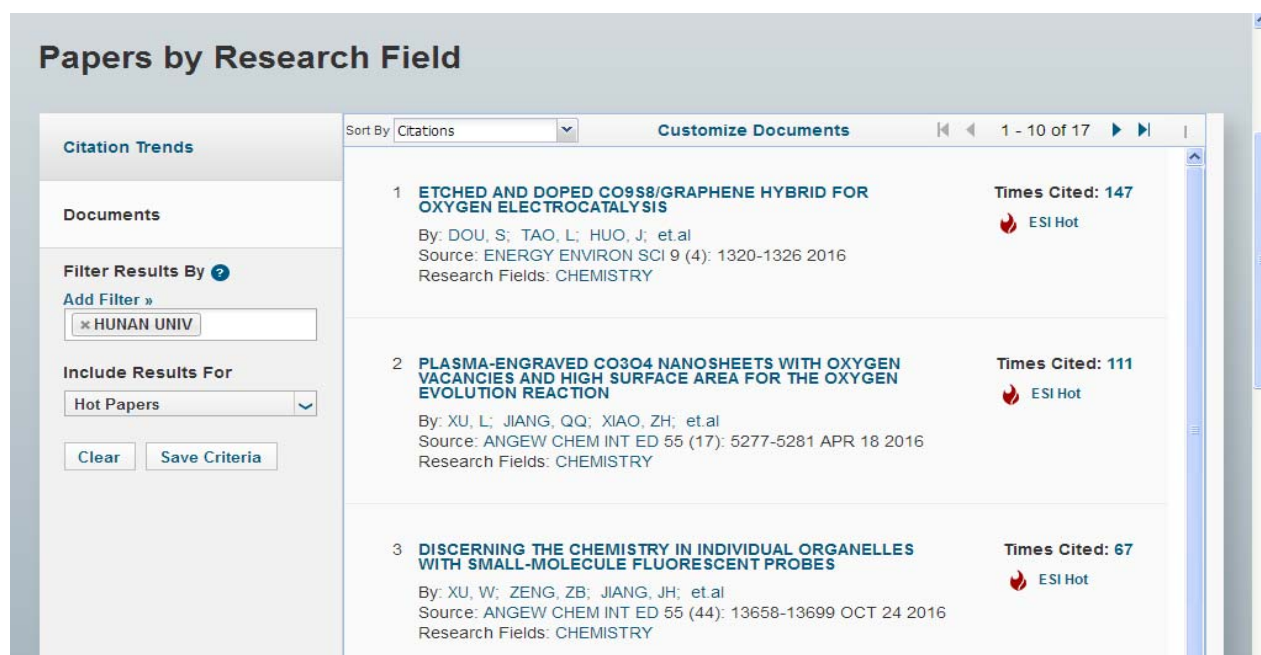
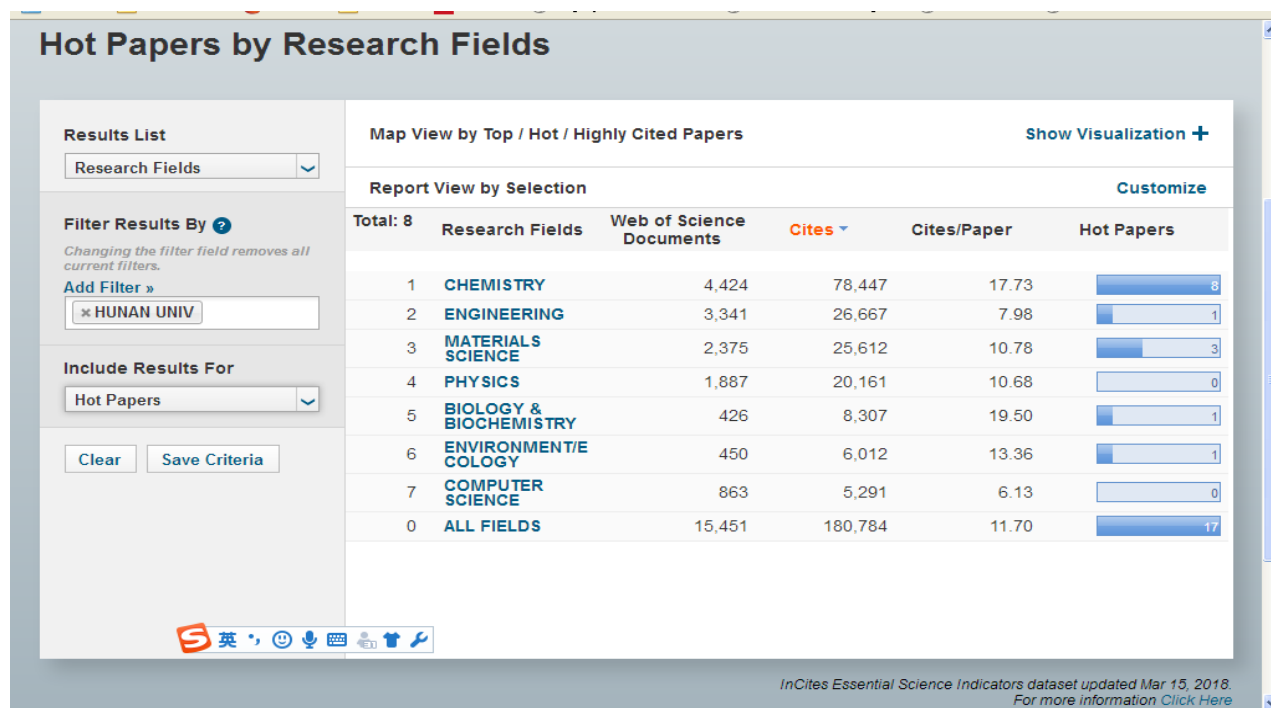
以上 21 篇 Hot Paper 中 有 7 篇是环境学院的论文:

- 1) Fei Chen, Qi Yang*, Xiaoming Li, Guangming Zeng, Dongbo Wang, Chenggang Niu, Jianwei Zhao, Hongxue An, Ting Xie, Yaocheng Deng. Hierarchical assembly of graphene-bridged Ag₃PO₄/Ag/BiVO₄ (040) Zscheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. **Applied Catalysis B: Environmental** (SCI 2016 IF=9.446). 2017. 200: 330-342 (**ESI Highly Cited Paper, ESI Research Front and ESI Hot Paper**)
- 2) Shi-Feng Yang, Cheng-Gang Niu*, Da-Wei Huang, Huan Zhang, Chao Liang and Guang-Ming Zeng*. SrTiO₃ nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. **Environmental Science-Nano**(SCI 2016 IF=6.047). 2017. 4:585–595(**ESI Highly Cited Paper and ESI Hot Paper**)
- 3) Longbo Jiang, Xingzhong Yuan*, Yang Pan, Jie Liang, Guangming Zeng, Zhibin Wu, Hou Wang*,. Doping of graphitic carbon nitride for photocatalysis: A review. **Applied Catalysis B: Environmental** (SCI 2016 IF=9.446). 2017. 217: 388–406(**ESI Hot Paper and ESI Highly Cited Paper**)
- 4) Guangming Zeng*, Jia Wan, Danlian Huang*, Liang Hu, Chao Huang, Min Cheng, Wenjing Xue, Xiaomin Gong, Rongzhong Wang, Danni Jiang. Precipitation, adsorption and rhizosphere effect: the mechanisms for Phosphate-induced Pb immobilization in soils-A review. **Journal of Hazardous Materials** (SCI 2016 IF=6.065) . 2017. 339:354-367 (**ESI Hot Paper and ESI Highly Cited Paper**)
- 5) Jianwei Zhao, Lin Gui, Qilin Wang, Yiwen Liu, Dongbo Wang *, Bing-Jie Ni, Xiaoming Li, Rui Xu, Guangming Zeng, Qi Yang*. Aged refuse enhances anaerobic digestion of waste activated sludge. **Water Research** (SCI 2016 IF=6.942). 2017. 123:724-733 (**ESI Hot Paper and ESI Highly Cited Paper**)
- 6) Xiao-Ju Wen, Cheng-Gang Niu*, Lei Zhang, Chao Liang, Guang-Ming Zeng. A novel Ag₂O/CeO₂ heterojunction photocatalysts for photocatalytic degradation of enrofloxacin: possible degradation pathways, mineralization activity and an in depth mechanism insight. **Applied Catalysis B: Environmental** (SCI 2016 IF=9.446). 2018. 221 : 701 – 714 (**ESI Hot Paper**)
- 7) Shuqu Zhang¹, Longlu Wang¹, Chengbin Liu*, Jinming Luo*, John Crittenden, Xiaoliu, Tao Cai, Jili Yuan, Yongpei, Yutang Liu. Photocatalytic wastewater purification with simultaneous hydrogen production using MoS₂

QD-decorated hierarchical assembly of ZnIn₂S₄ on reduced graphene oxide photocatalyst. *Water Research* (SCI 2016 IF=6.942). 2017.121:11-19 ([ESI Hot Paper and ESI Highly Cited Paper](#))

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



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4
VAN DER WAALS HETEROSTRUCTURES AND DEVICES

Times Cited: 61

ESI Hot

By: LIU, Y; WEISS, NO; DUAN, XD; et.al
Source: NAT REV MATER 1 (9): - SEP 2016
Research Fields: MATERIALS SCIENCE

5
NANOPARTICLE-STACKED POROUS NICKEL-IRON NITRIDE NANOSHEET: A HIGHLY EFFICIENT BIFUNCTIONAL ELECTROCATALYST FOR OVERALL WATER SPLITTING

Times Cited: 51

ESI Hot

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

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

Times Cited: 44

ESI Hot

By: CHEN, F; YANG, Q; LI, XM; et.al
Source: APPL CATAL B-ENVIRON 200: 330-342 JAN 2017
Research Fields: CHEMISTRY

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7
THREE-DIMENSIONAL HOLEY-GRAPHENE/NIOBIA COMPOSITE ARCHITECTURES FOR ULTRAHIGH-RATE ENERGY STORAGE

Times Cited: 28

ESI Hot

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

8
A GENERAL APPROACH TO COBALT-BASED HOMOBIMETALLIC PHOSPHIDE ULTRATHIN NANOSHEETS FOR HIGHLY EFFICIENT OXYGEN EVOLUTION IN ALKALINE MEDIA

Times Cited: 26

ESI Hot

By: XIAO, XF; HE, CT; ZHAO, SL; et.al
Source: ENERGY ENVIRON SCI 10 (4): 893-899 APR 1 2017
Research Fields: CHEMISTRY

9
IN SITU EXFOLIATED, EDGE-RICH, OXYGEN-FUNCTIONALIZED GRAPHENE FROM CARBON FIBERS FOR OXYGEN ELECTROCATALYSIS

Times Cited: 24

ESI Hot





By: LIU, ZJ; ZHAO, ZH; WANG, YY; et.al
Source: ADVAN MATER 29 (18): - MAY 10 2017
Research Fields: MATERIALS SCIENCE

10
LAYERED DOUBLE HYDROXIDE NANOSHEETS WITH MULTIPLE VACANCIES OBTAINED BY DRY EXFOLIATION AS HIGHLY EFFICIENT OXYGEN EVOLUTION ELECTROCATALYSTS

Times Cited: 18

ESI Hot

By: WANG, YY; ZHANG, YQ; LIU, ZJ; et.al
Source: ANGEW CHEM INT ED 56 (21): 5867-5871 MAY 15 2017
Research Fields: CHEMISTRY

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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 REVEIW 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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