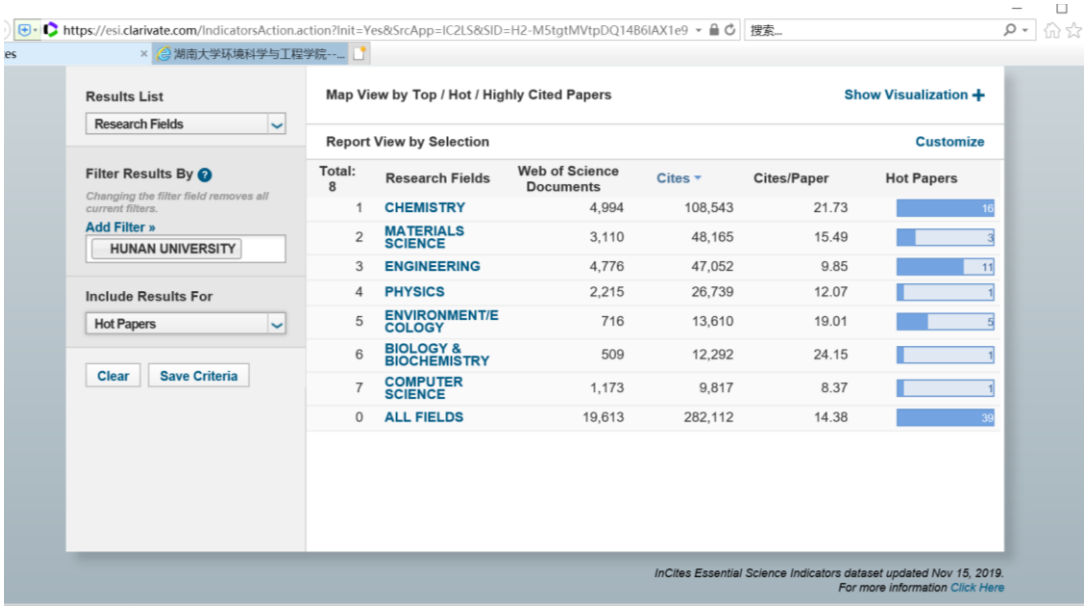
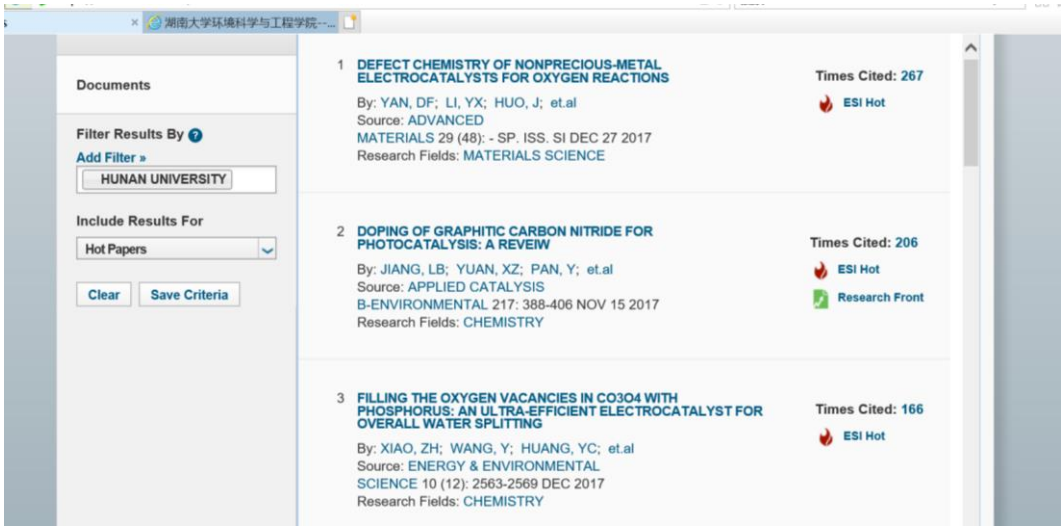
Essential Science Indicators for Hot papers for Hunan Univ on 15 Nov 2019 from 09 May 2019

1. Essential Science Indicators for Hot papers for Hunan Univ on 15 Nov 2019



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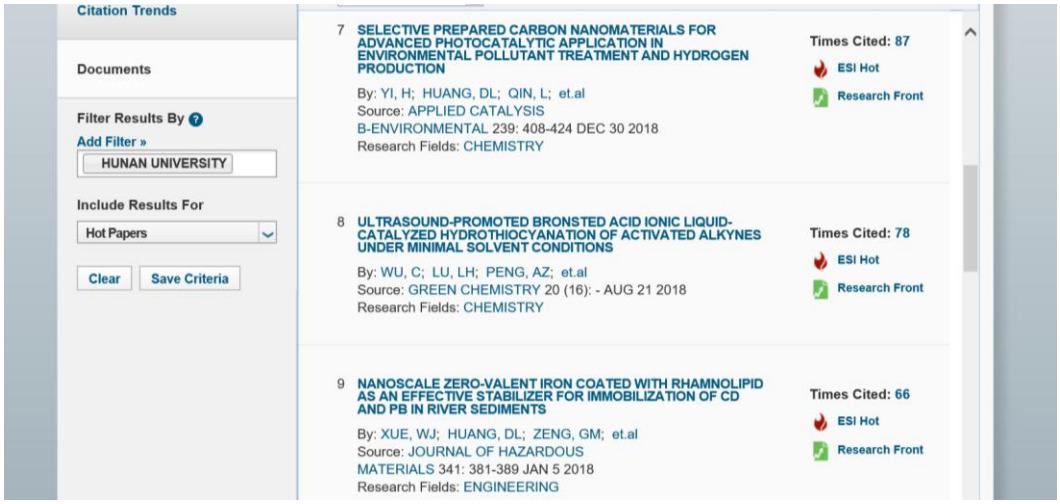
4 GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN4C4 SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES
By: FEI, HL; DONG, JC; FENG, YX; et.al
Source: NATURE CATALYSIS 1 (1): 63-72 JAN 2018
Research Fields: CHEMISTRY
Times Cited: 137
ESI Hot
Research Front
5 A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE
By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al
Source: NATURE ENERGY 2 (9): - SEP 2017
Research Fields: ENGINEERING
Times Cited: 129
ESI Hot
6 APPROACHING THE SCHOTTKY-MOTT LIMIT IN VAN DER WAALS METAL-SEMICONDUCTOR JUNCTIONS
By: LIU, Y; GUO, J; ZHU, EB; et.al
Source: NATURE 557 (7707): 696-+ MAY 31 2018
Research Fields: MATERIALS SCIENCE
Times Cited: 101
ESI Hot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7 SELECTIVE PREPARED CARBON NANOMATERIALS FOR ADVANCED PHOTOCATALYTIC APPLICATION IN ENVIRONMENTAL POLLUTANT TREATMENT AND HYDROGEN PRODUCTION
By: YI, H; HUANG, DL; QIN, L; et.al
Source: APPLIED CATALYSIS B-ENVIRONMENTAL 239: 408-424 DEC 30 2018
Research Fields: CHEMISTRY
Times Cited: 87
ESI Hot
Research Front
8 ULTRASOUND-PROMOTED BRONSTED ACID IONIC LIQUID-CATALYZED HYDROTHIOCYANATION OF ACTIVATED ALKYNES UNDER MINIMAL SOLVENT CONDITIONS
By: WU, C; LU, LH; PENG, AZ; et.al
Source: GREEN CHEMISTRY 20 (16): - AUG 21 2018
Research Fields: CHEMISTRY
Times Cited: 78
ESI Hot
Research Front
9 NANOSCALE ZERO-VALENT IRON COATED WITH RHAMNOLIPID AS AN EFFECTIVE STABILIZER FOR IMMOBILIZATION OF CD AND PB IN RIVER SEDIMENTS
By: XUE, WJ; HUANG, DL; ZENG, GM; et.al
Source: JOURNAL OF HAZARDOUS MATERIALS 341: 381-389 JAN 5 2018
Research Fields: ENGINEERING
Times Cited: 66
ESI Hot
Research Front


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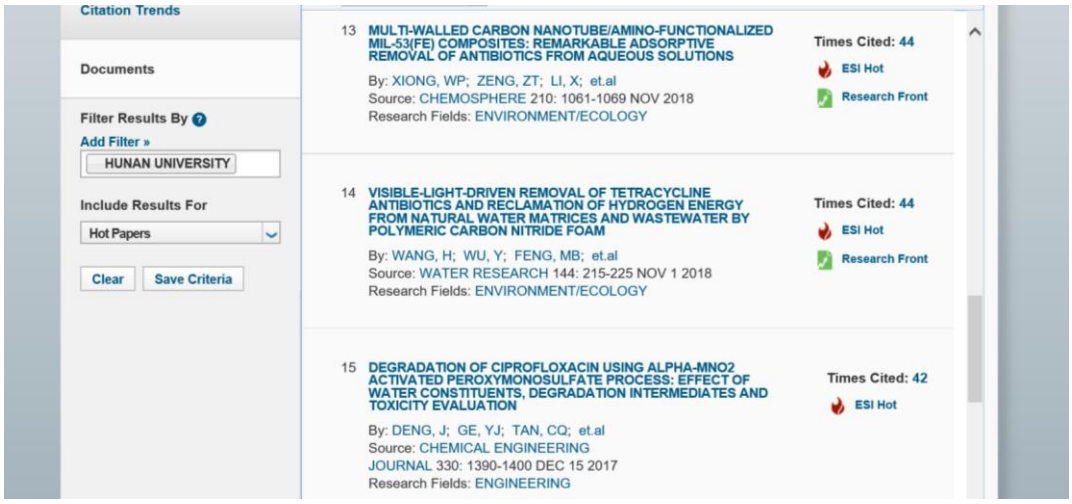
10 CONSTRUCTION OF IODINE VACANCY-RICH BIOI/AG@AGI Z-SCHEME HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE-LIGHT-DRIVEN TETRACYCLINE DEGRADATION: TRANSFORMATION PATHWAYS AND MECHANISM INSIGHT
By: YANG, Y; ZENG, ZT; ZHANG, C; et.al
Source: CHEMICAL ENGINEERING JOURNAL 349: 808-821 OCT 1 2018
Research Fields: ENGINEERING
Times Cited: 62
ESI Hot
Research Front
11 RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES
By: HE, L; LI, J; LIU, CY; et.al
Source: IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING 56 (3): 1579-1597 MAR 2018
Research Fields: GEOSCIENCES
Times Cited: 56
ESI Hot
12 RECENT PROGRESSES IN SMALL-MOLECULE ENZYMATIC FLUORESCENT PROBES FOR CANCER IMAGING
By: LIU, HW; CHEN, LL; XU, CY; et.al
Source: CHEMICAL SOCIETY REVIEWS 47 (18): 7140-7180 SEP 21 2018
Research Fields: CHEMISTRY
Times Cited: 48
ESI Hot
Research Front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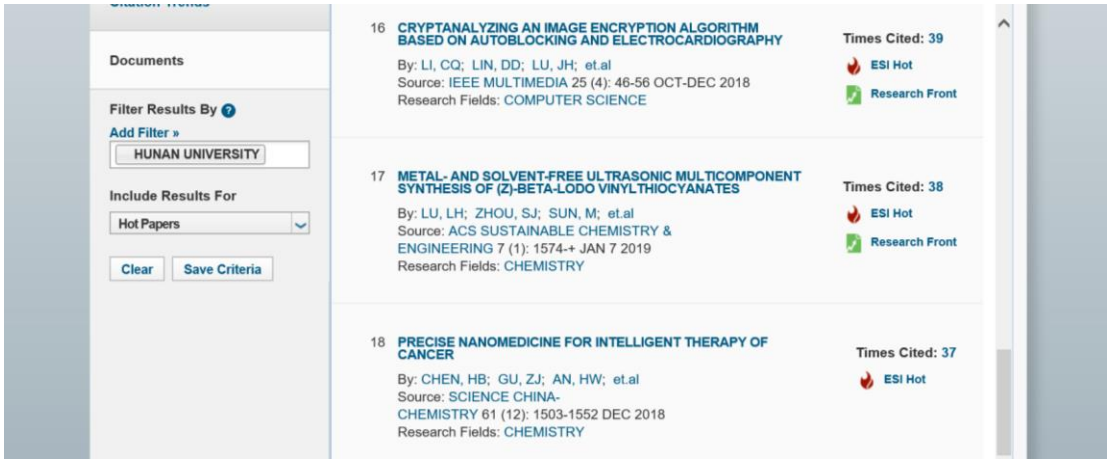
13 MULTI-WALLED CARBON NANOTUBE/AMINO-FUNCTIONALIZED MIL-53(FE) COMPOSITES: REMARKABLE ADSORPTIVE REMOVAL OF ANTIBIOTICS FROM AQUEOUS SOLUTIONS
By: XIONG, WP; ZENG, ZT; LI, X; et.al
Source: CHEMOSPHERE 210: 1061-1069 NOV 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 44
ESI Hot
Research Front
14 VISIBLE-LIGHT-DRIVEN REMOVAL OF TETRACYCLINE ANTIBIOTICS AND RECLAMATION OF HYDROGEN ENERGY FROM NATURAL WATER MATRICES AND WASTEWATER BY POLYMERIC CARBON NITRIDE FOAM
By: WANG, H; WU, Y; FENG, MB; et.al
Source: WATER RESEARCH 144: 215-225 NOV 1 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 44
ESI Hot
Research Front
15 DEGRADATION OF CIPROFLOXACIN USING ALPHA-MNO2 ACTIVATED PEROXYMONOSULFATE PROCESS: EFFECT OF WATER CONSTITUENTS, DEGRADATION INTERMEDIATES AND TOXICITY EVALUATION
By: DENG, J; GE, YJ; TAN, CQ; et.al
Source: CHEMICAL ENGINEERING JOURNAL 330: 1390-1400 DEC 15 2017
Research Fields: ENGINEERING
Times Cited: 42
ESI Hot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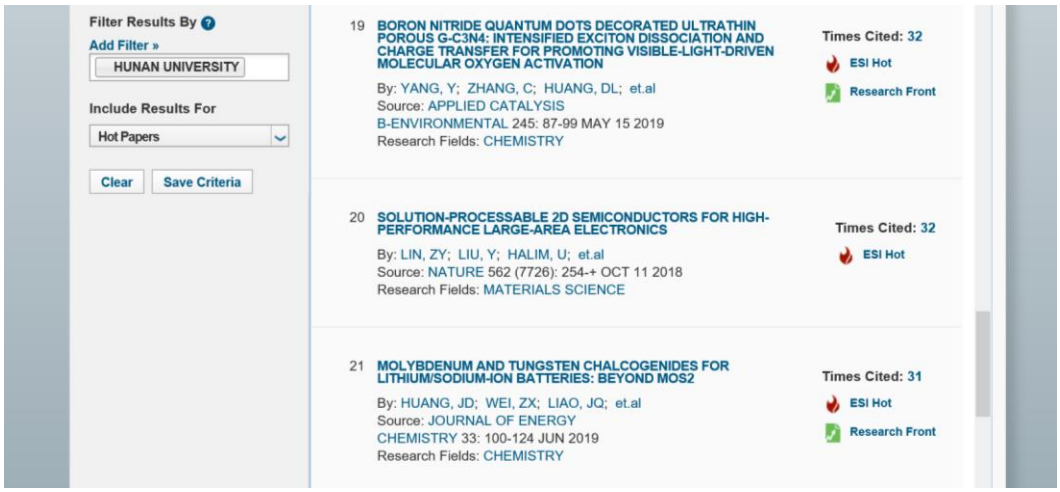
16 CRYPTANALYZING AN IMAGE ENCRYPTION ALGORITHM BASED ON AUTOBLOCKING AND ELECTROCARDIOGRAPHY
By: LI, CQ; LIN, DD; LU, JH; et.al
Source: IEEE MULTIMEDIA 25 (4): 46-56 OCT-DEC 2018
Research Fields: COMPUTER SCIENCE
Times Cited: 39
ESI Hot
Research Front
17 METAL- AND SOLVENT-FREE ULTRASONIC MULTICOMPONENT SYNTHESIS OF (Z)-BETA-LODO VINYLTHIOCYANATES
By: LU, LH; ZHOU, SJ; SUN, M; et.al
Source: ACS SUSTAINABLE CHEMISTRY & ENGINEERING 7 (1): 1574-+ JAN 7 2019
Research Fields: CHEMISTRY
Times Cited: 38
ESI Hot
Research Front
18 PRECISE NANOMEDICINE FOR INTELLIGENT THERAPY OF CANCER
By: CHEN, HB; GU, ZJ; AN, HW; et.al
Source: SCIENCE CHINA-CHEMISTRY 61 (12): 1503-1552 DEC 2018
Research Fields: CHEMISTRY
Times Cited: 37
ESI Hot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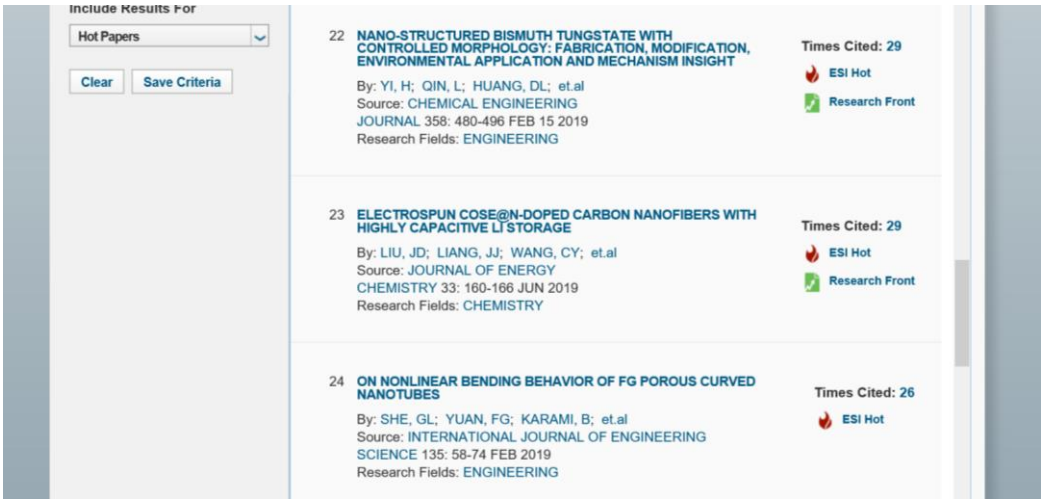
19 BORON NITRIDE QUANTUM DOTS DECORATED ULTRATHIN POROUS G-C3N4: INTENSIFIED EXCITON DISSOCIATION AND CHARGE TRANSFER FOR PROMOTING VISIBLE-LIGHT-DRIVEN MOLECULAR OXYGEN ACTIVATION
By: YANG, Y; ZHANG, C; HUANG, DL; et.al
Source: APPLIED CATALYSIS B-ENVIRONMENTAL 245: 87-99 MAY 15 2019
Research Fields: CHEMISTRY
Times Cited: 32
ESI Hot
Research Front
20 SOLUTION-PROCESSABLE 2D SEMICONDUCTORS FOR HIGH-PERFORMANCE LARGE-AREA ELECTRONICS
By: LIN, ZY; LIU, Y; HALIM, U; et.al
Source: NATURE 562 (7726): 254-+ OCT 11 2018
Research Fields: MATERIALS SCIENCE
Times Cited: 32
ESI Hot
21 MOLYBDENUM AND TUNGSTEN CHALCOGENIDES FOR LITHIUM/SODIUM-ION BATTERIES: BEYOND MOS2
By: HUANG, JD; WEI, ZX; LIAO, JQ; et.al
Source: JOURNAL OF ENERGY CHEMISTRY 33: 100-124 JUN 2019
Research Fields: CHEMISTRY
Times Cited: 31
ESI Hot
Research Front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22 NANO-STRUCTURED BISMUTH TUNGSTATE WITH CONTROLLED MORPHOLOGY: FABRICATION, MODIFICATION, ENVIRONMENTAL APPLICATION AND MECHANISM INSIGHT
By: YI, H; QIN, L; HUANG, DL; et.al
Source: CHEMICAL ENGINEERING JOURNAL 358: 480-496 FEB 15 2019
Research Fields: ENGINEERING
Times Cited: 29
ESI Hot
Research Front
23 ELECTROSPUN COSE@N-DOPED CARBON NANOFIBERS WITH HIGHLY CAPACITIVE LI STORAGE
By: LIU, JD; LIANG, JJ; WANG, CY; et.al
Source: JOURNAL OF ENERGY CHEMISTRY 33: 160-166 JUN 2019
Research Fields: CHEMISTRY
Times Cited: 29
ESI Hot
Research Front
24 ON NONLINEAR BENDING BEHAVIOR OF FG POROUS CURVED NANOTUBES
By: SHE, GL; YUAN, FG; KARAMI, B; et.al
Source: INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE 135: 58-74 FEB 2019
Research Fields: ENGINEERING
Times Cited: 26
ESI Hot


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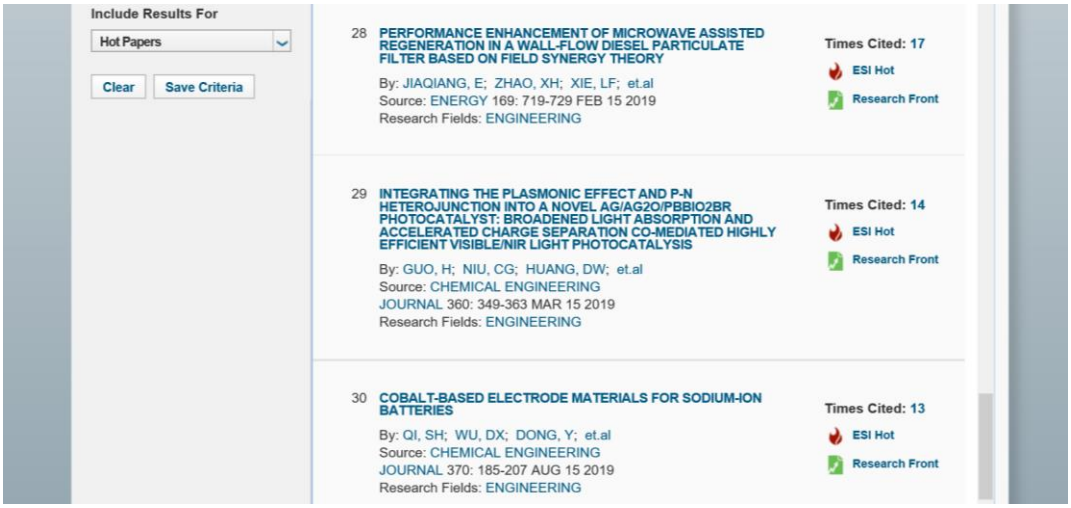
25 THE EFFECTS OF ACTIVATED BIOCHAR ADDITION ON REMEDIATION EFFICIENCY OF CO-COMPOSTING WITH CONTAMINATED WETLAND SOIL
By: YE, SJ; ZENG, GM; WU, HP; et.al
Source: RESOURCES CONSERVATION AND RECYCLING 140: 278-285 JAN 2019
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 26
ESI Hot
Research Front
26 DYNAMIC ANALYSIS OF DIGITAL CHAOTIC MAPS VIA STATE-MAPPING NETWORKS
By: LI, CQ; FENG, BB; LI, SJ; et.al
Source: IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS 66 (6): 2322-2335 JUN 2019
Research Fields: ENGINEERING
Times Cited: 25
ESI Hot
Research Front
27 RATIONAL DESIGN OF GRAPHIC CARBON NITRIDE COPOLYMERS BY MOLECULAR DOPING FOR VISIBLE-LIGHT-DRIVEN DEGRADATION OF AQUEOUS SULFAMETHAZINE AND HYDROGEN EVOLUTION
By: ZHOU, CY; XU, P; LAI, C; et.al
Source: CHEMICAL ENGINEERING JOURNAL 359: 186-196 MAR 1 2019
Research Fields: ENGINEERING
Times Cited: 21
ESI Hot
Research Front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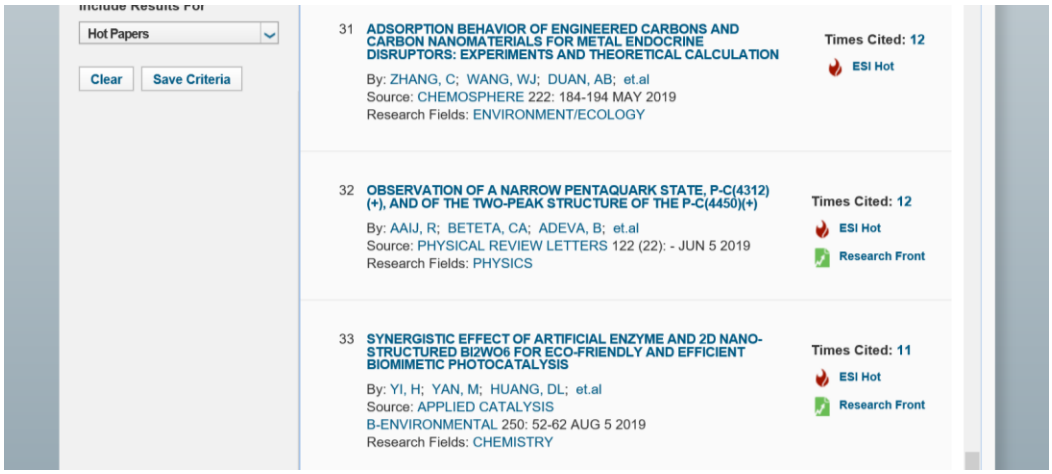
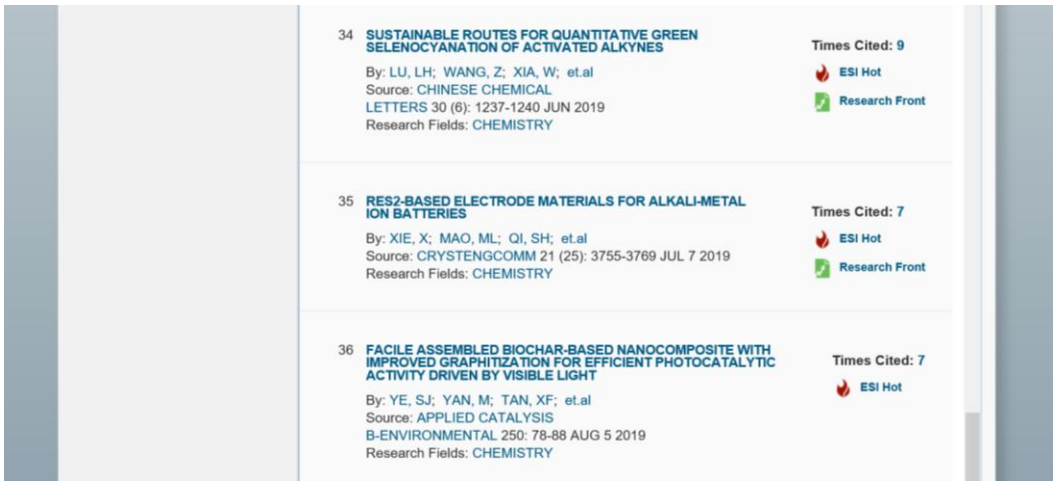
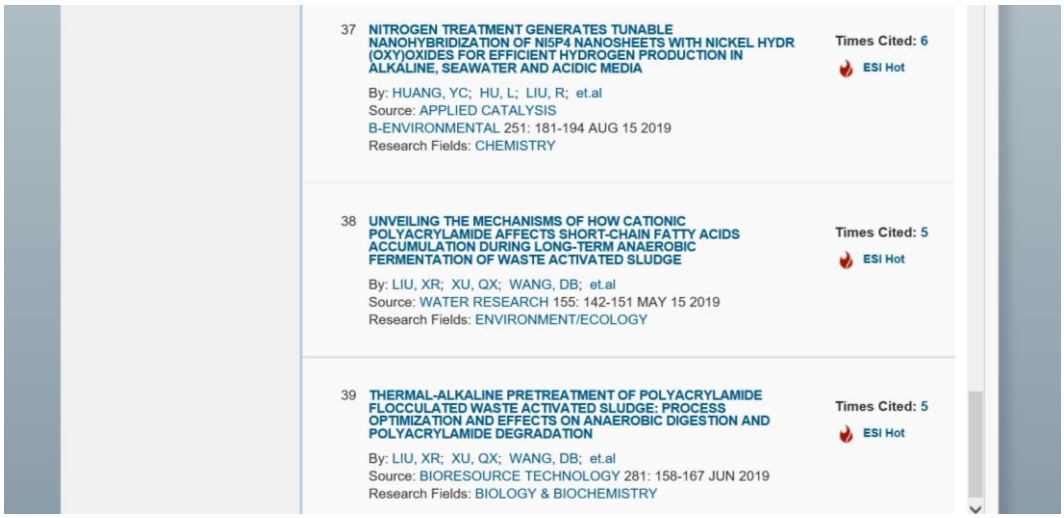
28 PERFORMANCE ENHANCEMENT OF MICROWAVE ASSISTED REGENERATION IN A WALL-FLOW DIESEL PARTICULATE FILTER BASED ON FIELD SYNERGY THEORY
By: JIAQIANG, E; ZHAO, XH; XIE, LF; et.al
Source: ENERGY 169: 719-729 FEB 15 2019
Research Fields: ENGINEERING
Times Cited: 17
ESI Hot
Research Front
29 INTEGRATING THE PLASMONIC EFFECT AND P-N HETEROJUNCTION INTO A NOVEL AG/AG2O/PBBIO2BR PHOTOCATALYST: BROADENED LIGHT ABSORPTION AND ACCELERATED CHARGE SEPARATION CO-MEDIATED HIGHLY EFFICIENT VISIBLE/NIR LIGHT PHOTOCATALYSIS
By: GUO, H; NIU, CG; HUANG, DW; et.al
Source: CHEMICAL ENGINEERING JOURNAL 360: 349-363 MAR 15 2019
Research Fields: ENGINEERING
Times Cited: 14
ESI Hot
Research Front
30 COBALT-BASED ELECTRODE MATERIALS FOR SODIUM-ION BATTERIES
By: QI, SH; WU, DX; DONG, Y; et.al
Source: CHEMICAL ENGINEERING JOURNAL 370: 185-207 AUG 15 2019
Research Fields: ENGINEERING
Times Cited: 13
ESI Hot
Research Front







以上 **39** 篇 **Hot Paper** 中 有 **16** 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 2018 IF=14.229). 2017. 217: 388–406(ESI Hot Paper and ESI Highly Cited Paper， ESI Hot Paper 第 8 次上榜)**
2) **Huan Yi1, Danlian Huang1, Lei Qin1, Guangming Zeng*, Cui Lai*, Min Cheng, Shujing Ye, Biao Song, Xiaoya Ren, Xueying Guo.Selective Prepared Carbon Nanomaterials for Advanced Photocatalytic Application in Environmental Pollutant Treatment and Hydrogen Production. Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2018.239:408-424(ESI Hot Paper and ESI Highly Cited Paper， ESI Hot Paper 第 5 次上榜)**
3) **Wenjing Xue, Danlian Huang*, Guangming Zeng*, Jia Wan, Chen Zhang, Rui Xu, Min Cheng, Rui Deng. Nanoscale zero-valent iron coated with rhamnolipid as an effectivestabilizer for immobilization of Cd and Pb in river sediments. Journal of Hazardous Materials(SCI 2018 IF=7.650). 2018. 341 :381–389(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 3 次上榜)**
4) **Yang Yang1, Zhuotong Zeng1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Rong Xiao*, Cui Laia, Chengyun Zhou, Hai Guo, Wenjing Xue, Min Cheng, Wenjun Wang, Jiajia Wang.Construction of iodine vacancy-rich BiOI/Ag@AgI Z-scheme heterojunction photocatalysts for visible-light-driven tetracycline degradation: transformation pathways and mechanism insight.Chemical Engineering Journal(SCI 2018 IF=8.355). 2018. 349：808-821(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 3 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)**
5) **Weiping Xiong1, Zhuotong Zeng1, Xin Li1, Guangming Zeng*,Rong Xiao*,Zhaohui Yang,Yaoyu Zhou, Chen Zhang, Min Cheng, Liang Hu,Chengyun Zhou, Lei Qin, Rui Xu, Yanru Zhang.Multiulti-walled carbon nanotube/aminomino-functionalized -53 (Fe)composites: remarkabl adsorptive removal of antibiotics from aqueous solutions.Chemosphere(SCI 2018 IF=5.108)(中科院分区 2 区，JCR 分区 1 区). 2018.210:1061-1069(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 3 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)**
6) **Wang Hou, Wu Yan, Feng Mingbao, Tu Wenguang, Xiao Tong, Xiong Ting, Ang Huixiang, Yuan Xingzhong, Chew Jia Wei∗. Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. Water Research(SCI 2018 IF=7.913).2018.144: 215-225(ESI Hot Paper，ESI Hot Paper 第 3 次上榜,王侯助理教授与新加坡南洋理工的合作成果)**
7) **Yang Yang1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Jinhui Huang*, Cui Lai, Chengyun Zhou, Wenjun Wang, Hai Guo, Wenjing Xue, Rui Deng, Min Cheng, Weiping Xiong.Boron nitride quantum dots decorated ultrathin porous g-C3N4: Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation.Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2019.245:87-99(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 2 次上榜)**
8) **Huan Yi1, Lei Qin1, Danlian Huang1, Guangming Zeng*, Cui Lai*, Xigui Liu, Bisheng Li, Han Wang, Chengyun Zhou, Fanglong Huang, Shiyu Liu, Xueying Guo.Nano-structured bismuth tungstate with controlled morphology: fabrication, modification, environmental application and mechanism insight.Chemical Engineering Journal (SCI 2018 IF=8.355).2019.358:480-496(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 3 次上榜)**
9) **Shujing Ye, Guangming Zeng*, Haipeng Wu*, Jie Liang, Chang Zhang, Juan Dai, Weiping Xiong, Biao Song, Shaohua Wu, Jiangfang Yu.The effects of activated biochar addition on remediation**

efficiency of co-composting with contaminated wetland soil.Resources, Conservation & Recycling（SCI 2018 IF=7.044）.2019.140:278-285(ESI Hot Paper and ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 1 次上榜)

10) Chengyun Zhou1, Piao Xu1, Cui Lai1, Chen Zhang1, Guangming Zeng*, Danlian Huang*, Min Cheng, Liang Hu, Weiping Xiong, Xiaofeng Wen, Lei Qin, Jili Yuan, Wenjun Wang.Rational Design of Graphic Carbon Nitride Copolymers by Molecular Doping for Visible-Light-Driven Degradation of Aqueous Sulfamethazine and Hydrogen Evolution.Chemical Engineering Journal (SCI 2018 IF=8.355).2019.359：186-196(ESI Highly Cited Paper and Hot Paper and Research Front, ESI Hot Paper 第 2 次上榜)

11) Hai Guo, Cheng-Gang Niu*, Da-Wei Huang, Ning Tang, Chao Liang, Lei Zhang,Xiao-Ju Wen, Yang Yang, Wen-Jun Wang, Guang-Ming Zeng. Integrating the plasmonic effect and p-n heterojunction into a novel Ag/Ag2O/PbBiO2Br photocatalyst: Broadened light absorption and accelerated charge separation co-mediated highly efficient visible/NIR light photocatalysis. Chemical Engineering Journal (SCI 2018 IF=8.355).2019. 360:349–363(ESI Highly Cited Paper and ESI Research Front and and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)

12) Chen Zhang *, Wenjun Wang, Abing Duan**, Guangming Zeng, Danlian Huang, Cui Lai, Xiaofei Tan, Min Cheng, Rongzhong Wang,Chengyun Zhou, Weiping Xiong, Yang Yang. Adsorption behavior of engineered carbons and carbon nanomaterials for metal endocrine disruptors: Experiments and theoretical calculation. Chemosphere(SCI 2018 IF=5.108).2019.184-194((ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 2 次上榜)

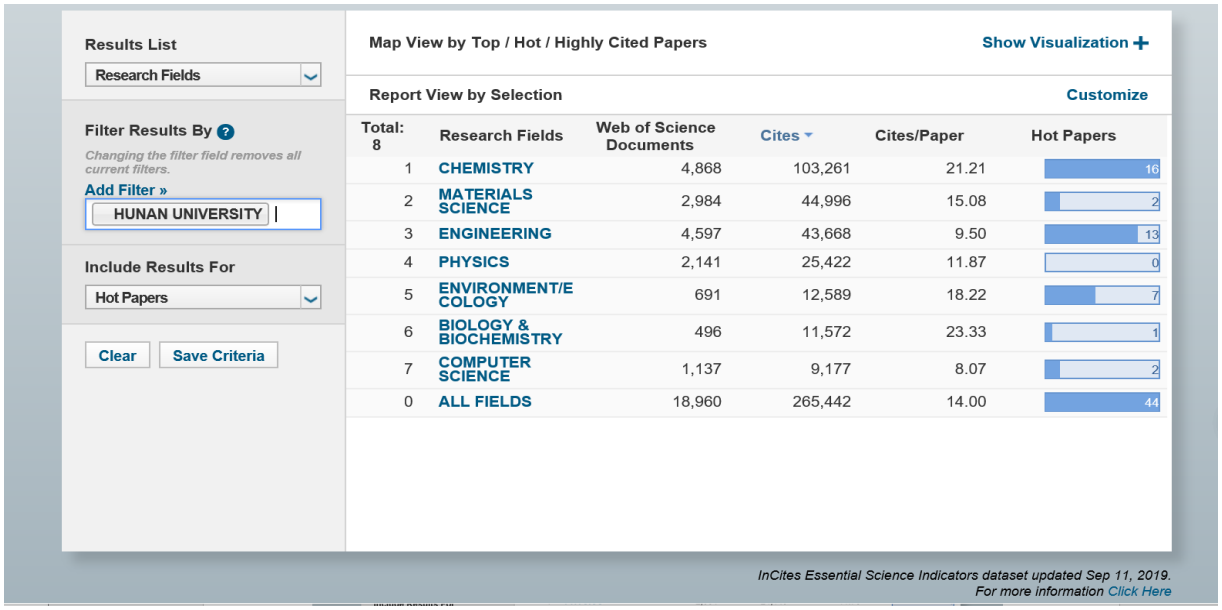
13) Huan Yi1, Ming Yan1, Danlian Huang1, Guangming Zeng*, Cui Lai*, Minfang Li, Xiuqin Huo, Lei Qin, Shiyu Liu, Xigui Liu, Bisheng Li, Han Wang, Maocai Shen, Yukui Fu, Xueying Guo.Synergistic effect of artificial enzyme and 2D nano-structured Bi2WO6 for eco-friendly and efficient biomimetic photocatalysis.Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2019.250:52-62 (Hot Paper and ESI ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 1 次上榜)

14) Shujing Ye1 , Min Yan1, Xiaofei Tan1, Jie Liang1, Guangming Zeng*, Haipeng Wu*, Biao Song, Chengyun Zhou, Yang Yang, Han Wang.Facile assembled biochar-based nanocomposite with improved graphitization for efficient photocatalytic activity driven by visible light.Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2019.250： 78-88(Hot Paper and ESI ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)

15) Xuran Liu, Qiuxiang Xu, Dongbo Wang*, Yanxin Wu, Qi Yang*, Yiwen Liu, Qilin Wang, Xiaoming Li, Hailong Li, Guangming Zeng, Guojing Yang. Unveiling the mechanisms of how cationic polyacrylamide affects short-chain fatty acids accumulation during long-term anaerobic fermentation of waste activated sludge. Water Research(SCI 2018 IF=7.913).2019.155:142-151(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)

16) Xuran Liu, Qiuxiang Xu, Dongbo Wang*, Qi Yang, Yanxin Wu, Yifu Li, Qizi Fu, Fan Yang, Yiwen Liu, Bing-Jie Ni, Qilin Wang, Xiaoming Li. Thermal-alkaline pretreatment of polyacrylamide flocculated waste activated sludge: process optimization and effects on anaerobic digestion and polyacrylamide degradation. Bioresource Technology (SCI 2018 IF=6.669). 2019.281:158-167(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)

2. Essential Science Indicators for Hot papers for Hunan Univ on 11 Sep 2019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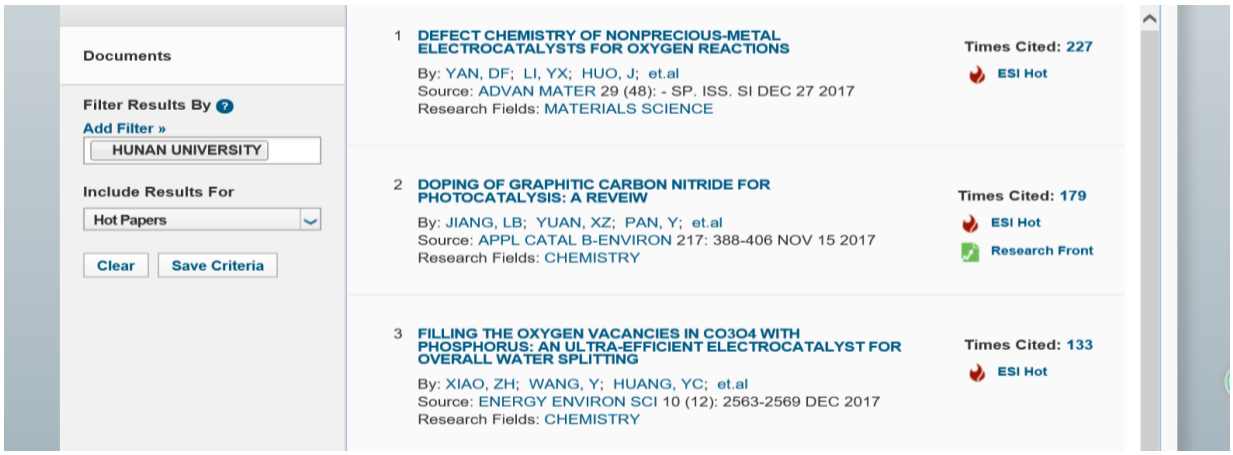
1 CHEMISTRY 4,868 103,261 21.21 16
2 MATERIALS SCIENCE 2,984 44,996 15.08 2
3 ENGINEERING 4,597 43,668 9.50 13
4 PHYSICS 2,141 25,422 11.87 0
5 ENVIRONMENT/ECOLOGY 691 12,589 18.22 7
6 BIOLOGY & BIOCHEMISTRY 496 11,572 23.33 1
7 COMPUTER SCIENCE 1,137 9,177 8.07 2
0 ALL FIELDS 18,960 265,442 14.00 44
InCites Essential Science Indicators dataset updated Sep 11, 2019.
For more information Click Here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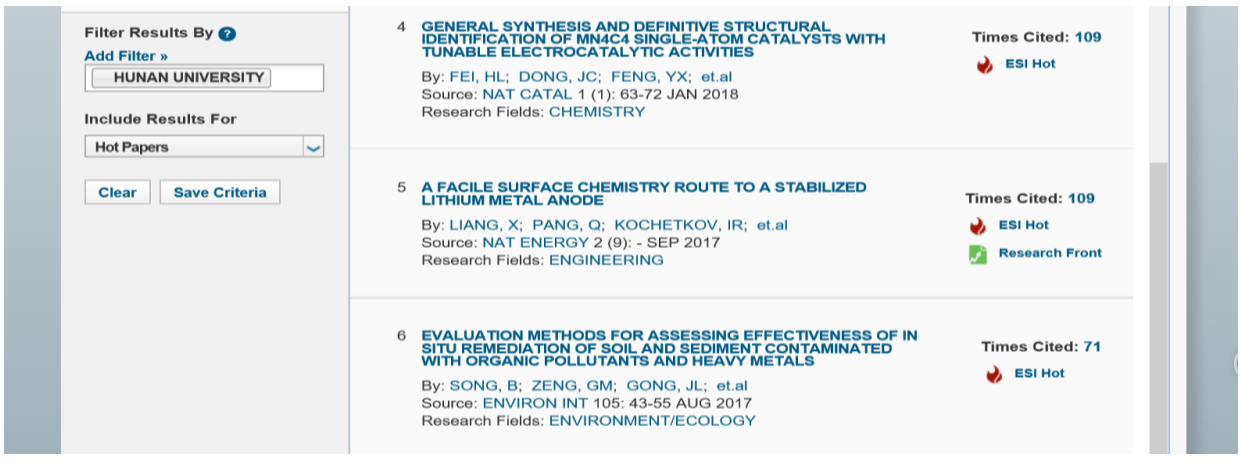
1 DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS
By: YAN, DF; LI, YX; HUO, J; et.al
Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017
Research Fields: MATERIALS SCIENCE
Times Cited: 227
ESI Hot
2 DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVEIW
By: JIANG, LB; YUAN, XZ; PAN, Y; et.al
Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017
Research Fields: CHEMISTRY
Times Cited: 179
ESI Hot
Research Front
3 FILLING THE OXYGEN VACANCIES IN CO3O4 WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING
By: XIAO, ZH; WANG, Y; HUANG, YC; et.al
Source: ENERGY ENVIRON SCI 10 (12): 2563-2569 DEC 2017
Research Fields: CHEMISTRY
Times Cited: 133
ESI Hot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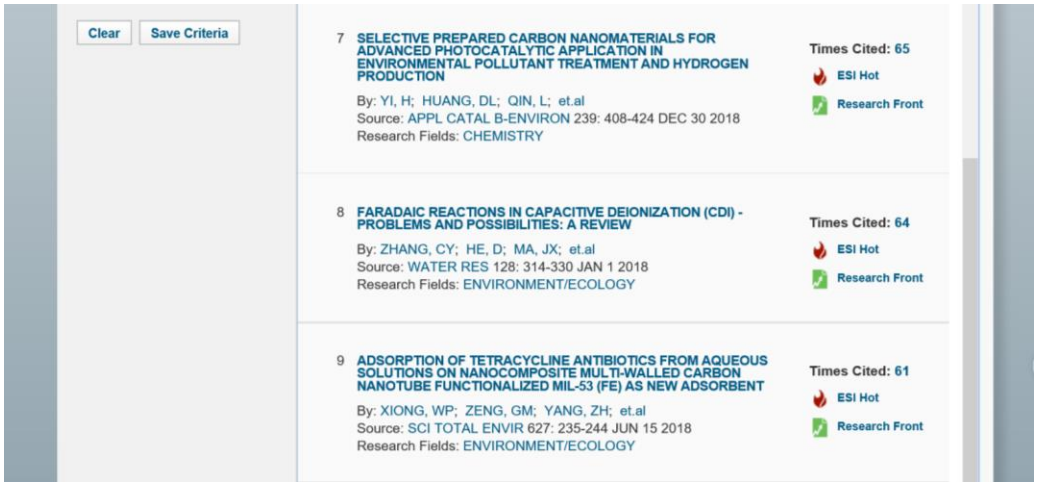
4 GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN4C4 SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES
By: FEI, HL; DONG, JC; FENG, YX; et.al
Source: NAT CATAL 1 (1): 63-72 JAN 2018
Research Fields: CHEMISTRY
Times Cited: 109
ESI Hot
5 A FACILE SURFACE CHEMISTRY ROUTE TO 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: 109
ESI Hot
Research Front
6 EVALUATION METHODS FOR ASSESSING EFFECTIVENESS OF IN SITU REMEDIATION OF SOIL AND SEDIMENT CONTAMINATED WITH ORGANIC POLLUTANTS AND HEAVY METALS
By: SONG, B; ZENG, GM; GONG, JL; et.al
Source: ENVIRON INT 105: 43-55 AUG 2017
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 71
ESI Hot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7 SELECTIVE PREPARED CARBON NANOMATERIALS FOR ADVANCED PHOTOCATALYTIC APPLICATION IN ENVIRONMENTAL POLLUTANT TREATMENT AND HYDROGEN PRODUCTION
By: YI, H; HUANG, DL; QIN, L; et.al
Source: APPL CATAL B-ENVIRON 239: 408-424 DEC 30 2018
Research Fields: CHEMISTRY
Times Cited: 65
ESI Hot
Research Front
8 FARADAIC REACTIONS IN CAPACITIVE DEIONIZATION (CDI) - PROBLEMS AND POSSIBILITIES: A REVIEW
By: ZHANG, CY; HE, D; MA, JX; et.al
Source: WATER RES 128: 314-330 JAN 1 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 64
ESI Hot
Research Front
9 ADSORPTION OF TETRACYCLINE ANTIBIOTICS FROM AQUEOUS SOLUTIONS ON NANOCOMPOSITE MULTI-WALLED CARBON NANOTUBE FUNCTIONALIZED MIL-53 (FE) AS NEW ADSORBENT
By: XIONG, WP; ZENG, GM; YANG, ZH; et.al
Source: SCI TOTAL ENVIR 627: 235-244 JUN 15 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 61
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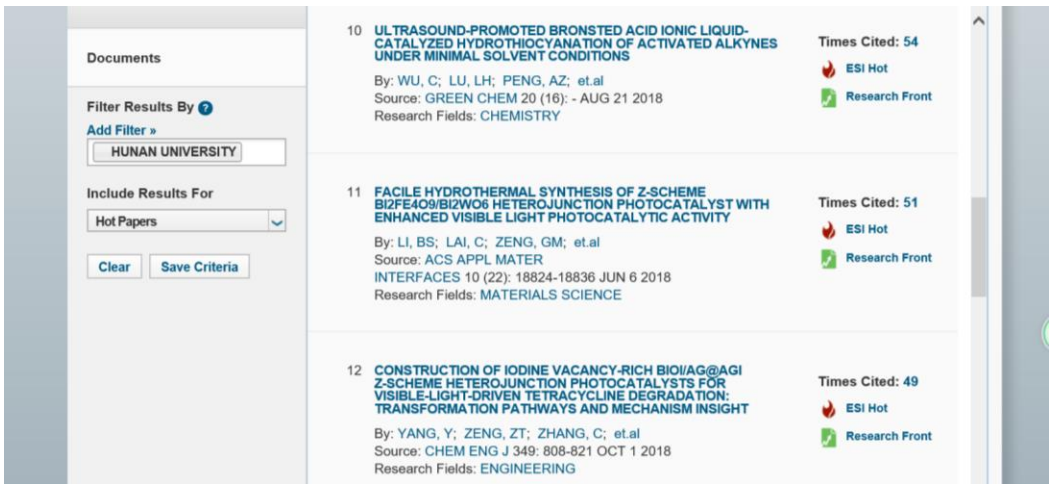
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10 ULTRASOUND-PROMOTED BRONSTED ACID IONIC LIQUID-CATALYZED HYDROTHIOCYANATION OF ACTIVATED ALKYNES UNDER MINIMAL SOLVENT CONDITIONS
By: WU, C; LU, LH; PENG, AZ; et.al
Source: GREEN CHEM 20 (16): - AUG 21 2018
Research Fields: CHEMISTRY
Times Cited: 54
ESI Hot
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11 FACILE HYDROTHERMAL SYNTHESIS OF Z-SCHEME BI2FE4O9/BI2WO6 HETEROJUNCTION PHOTOCATALYST WITH ENHANCED VISIBLE LIGHT PHOTOCATALYTIC ACTIVITY
By: LI, BS; LAI, C; ZENG, GM; et.al
Source: ACS APPL MATER INTERFACES 10 (22): 18824-18836 JUN 6 2018
Research Fields: MATERIALS SCIENCE
Times Cited: 51
ESI Hot
Research Front
12 CONSTRUCTION OF IODINE VACANCY-RICH BIOI/AG@AGI Z-SCHEME HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE-LIGHT-DRIVEN TETRACYCLINE DEGRADATION: TRANSFORMATION PATHWAYS AND MECHANISM INSIGHT
By: YANG, Y; ZENG, ZT; ZHANG, C; et.al
Source: CHEM ENG J 349: 808-821 OCT 1 2018
Research Fields: ENGINEERING
Times Cited: 49
ESI Hot
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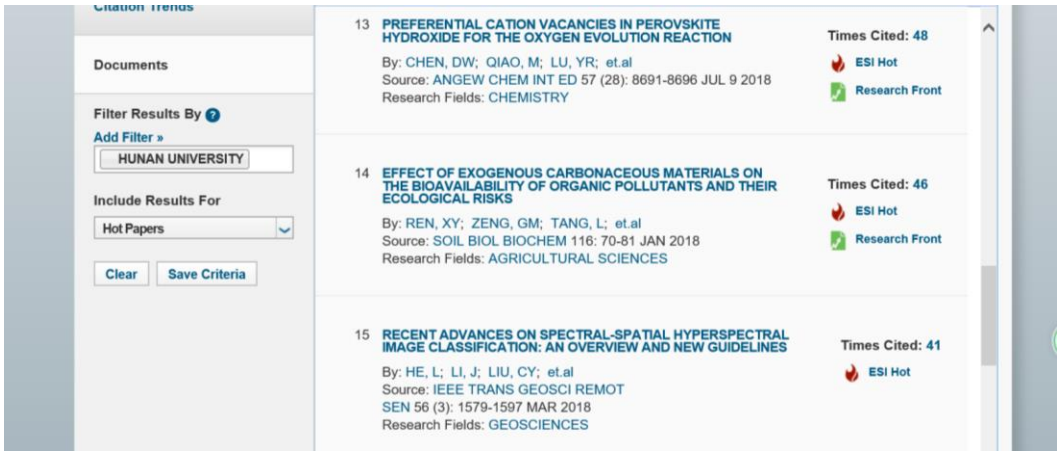
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13 PREFERENTIAL CATION VACANCIES IN PEROVSKITE HYDROXIDE FOR THE OXYGEN EVOLUTION REACTION
By: CHEN, DW; QIAO, M; LU, YR; et.al
Source: ANGEW CHEM INT ED 57 (28): 8691-8696 JUL 9 2018
Research Fields: CHEMISTRY
Times Cited: 48
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Research Front
14 EFFECT OF EXOGENOUS CARBONACEOUS MATERIALS ON THE BIOAVAILABILITY OF ORGANIC POLLUTANTS AND THEIR ECOLOGICAL RISKS
By: REN, XY; ZENG, GM; TANG, L; et.al
Source: SOIL BIOL BIOCHEM 116: 70-81 JAN 2018
Research Fields: AGRICULTURAL SCIENCES
Times Cited: 46
ESI Hot
Research Front
15 RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES
By: HE, L; LI, J; LIU, CY; et.al
Source: IEEE TRANS GEOSCI REMOT SEN 56 (3): 1579-1597 MAR 2018
Research Fields: GEOSCIENCES
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16 ENSEMBLE OF DIFFERENTIAL EVOLUTION VARIANTS
By: WU, GH; SHEN, X; LI, HF; et.al
Source: INFORM SCIENCES 423: 172-186 JAN 2018
Research Fields: COMPUTER SCIENCE
Times Cited: 37
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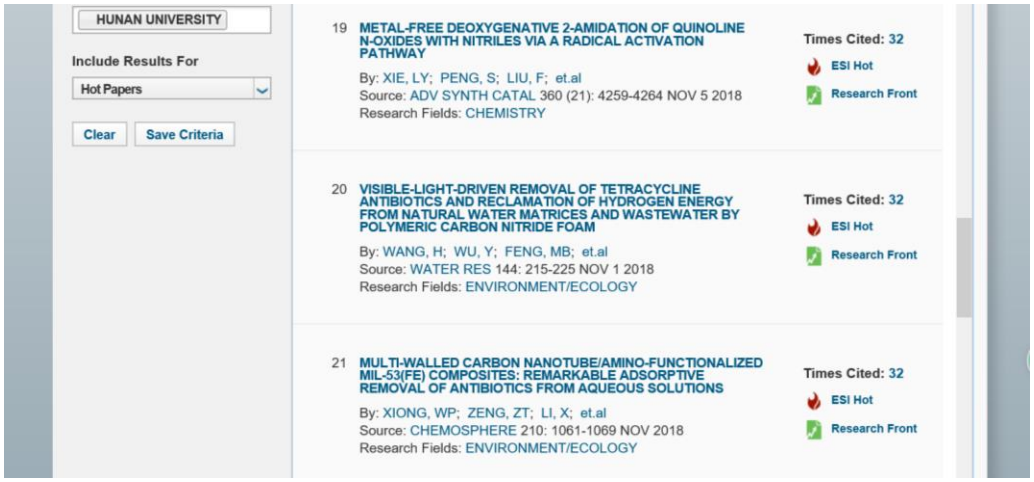
17 INSIGHTS INTO ATRAZINE DEGRADATION BY PERSULFATE ACTIVATION USING COMPOSITE OF NANOSCALE ZERO-VALENT IRON AND GRAPHENE: PERFORMANCES AND MECHANISMS
By: WU, SH; HE, HJ; LI, X; et.al
Source: CHEM ENG J 341: 126-136 JUN 1 2018
Research Fields: ENGINEERING
Times Cited: 33
ESI Hot
Research Front
18 WASTE-MINIMIZED PROTOCOL FOR THE SYNTHESIS OF SULFONYLATED N-HETEROAROMATICS IN WATER
By: XIE, LY; PENG, S; TAN, JX; et.al
Source: ACS SUSTAIN CHEM ENG 6 (12): 16976-+ DEC 2018
Research Fields: CHEMISTRY
Times Cited: 32
ESI Hot
Research Front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19 METAL-FREE DEOXYGENATIVE 2-AMIDATION OF QUINOLINE N-OXIDES WITH NITRILES VIA A RADICAL ACTIVATION PATHWAY
By: XIE, LY; PENG, S; LIU, F; et.al
Source: ADV SYNTH CATAL 360 (21): 4259-4264 NOV 5 2018
Research Fields: CHEMISTRY
Times Cited: 32
ESI Hot
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20 VISIBLE-LIGHT-DRIVEN REMOVAL OF TETRACYCLINE ANTIBIOTICS AND RECLAMATION OF HYDROGEN ENERGY FROM NATURAL WATER MATRICES AND WASTEWATER BY POLYMERIC CARBON NITRIDE FOAM
By: WANG, H; WU, Y; FENG, MB; et.al
Source: WATER RES 144: 215-225 NOV 1 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 32
ESI Hot
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21 MULTI-WALLED CARBON NANOTUBE/AMINO-FUNCTIONALIZED MIL-53(FE) COMPOSITES: REMARKABLE ADSORPTIVE REMOVAL OF ANTIBIOTICS FROM AQUEOUS SOLUTIONS
By: XIONG, WP; ZENG, ZT; LI, X; et.al
Source: CHEMOSPHERE 210: 1061-1069 NOV 2018
Research Fields: ENVIRONMENT/ECOLOGY
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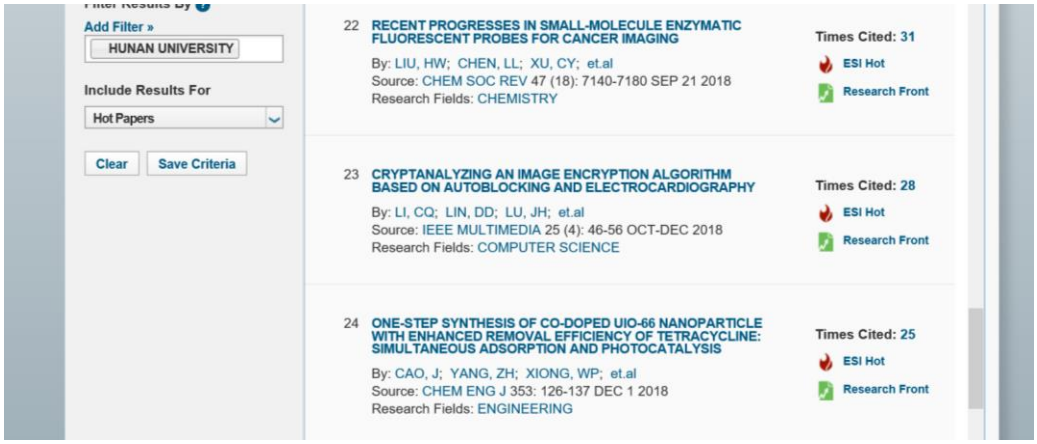
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22 RECENT PROGRESSES IN SMALL-MOLECULE ENZYMATIC FLUORESCENT PROBES FOR CANCER IMAGING
By: LIU, HW; CHEN, LL; XU, CY; et.al
Source: CHEM SOC REV 47 (18): 7140-7180 SEP 21 2018
Research Fields: CHEMISTRY
Times Cited: 31
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23 CRYPTANALYZING AN IMAGE ENCRYPTION ALGORITHM BASED ON AUTOBLOCKING AND ELECTROCARDIOGRAPHY
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Source: IEEE MULTIMEDIA 25 (4): 46-56 OCT-DEC 2018
Research Fields: COMPUTER SCIENCE
Times Cited: 28
ESI Hot
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24 ONE-STEP SYNTHESIS OF CO-DOPED UIO-66 NANOPARTICLE WITH ENHANCED REMOVAL EFFICIENCY OF TETRACYCLINE: SIMULTANEOUS ADSORPTION AND PHOTOCATALYSIS
By: CAO, J; YANG, ZH; XIONG, WP; et.al
Source: CHEM ENG J 353: 126-137 DEC 1 2018
Research Fields: ENGINEERING
Times Cited: 25
ESI Hot
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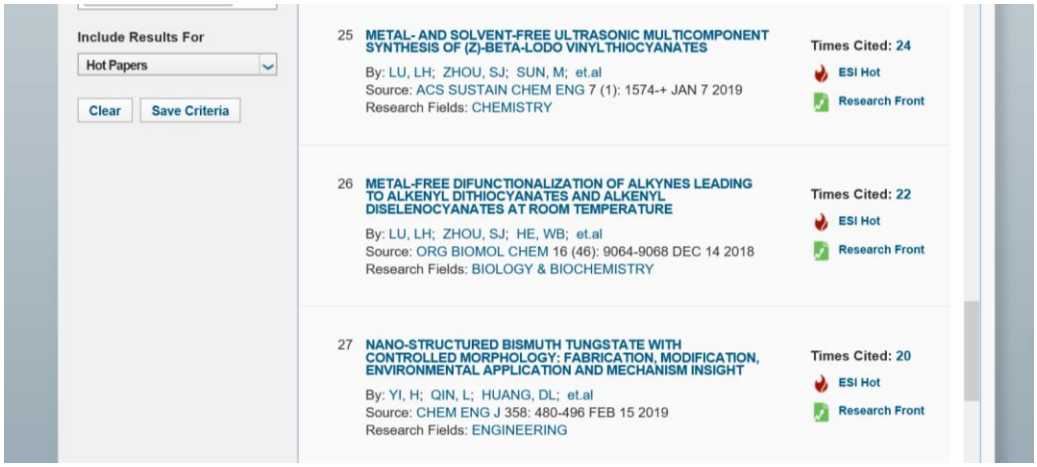
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25 METAL- AND SOLVENT-FREE ULTRASONIC MULTICOMPONENT SYNTHESIS OF (Z)-BETA-LODO VINYLTHIOCYANATES
By: LU, LH; ZHOU, SJ; SUN, M; et.al
Source: ACS SUSTAIN CHEM ENG 7 (1): 1574-+ JAN 7 2019
Research Fields: CHEMISTRY
Times Cited: 24
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26 METAL-FREE DIFUNCTIONALIZATION OF ALKYNES LEADING TO ALKENYL DITHIOCYANATES AND ALKENYL DISELENOCYANATES AT ROOM TEMPERATURE
By: LU, LH; ZHOU, SJ; HE, WB; et.al
Source: ORG BIOMOL CHEM 16 (46): 9064-9068 DEC 14 2018
Research Fields: BIOLOGY & BIOCHEMISTRY
Times Cited: 22
ESI Hot
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27 NANO-STRUCTURED BISMUTH TUNGSTATE WITH CONTROLLED MORPHOLOGY: FABRICATION, MODIFICATION, ENVIRONMENTAL APPLICATION AND MECHANISM INSIGHT
By: YI, H; QIN, L; HUANG, DL; et.al
Source: CHEM ENG J 358: 480-496 FEB 15 2019
Research Fields: ENGINEERING
Times Cited: 20
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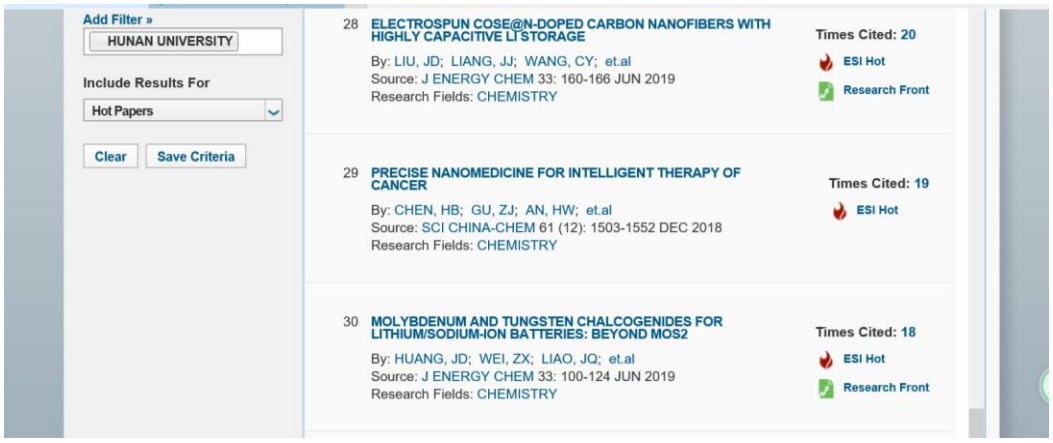
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28 ELECTROSPUN COSE@N-DOPED CARBON NANOFIBERS WITH HIGHLY CAPACITIVE LI STORAGE
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Research Fields: CHEMISTRY
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29 PRECISE NANOMEDICINE FOR INTELLIGENT THERAPY OF CANCER
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30 MOLYBDENUM AND TUNGSTEN CHALCOGENIDES FOR LITHIUM/SODIUM-ION BATTERIES: BEYOND MOS2
By: HUANG, JD; WEI, ZX; LIAO, JQ; et.al
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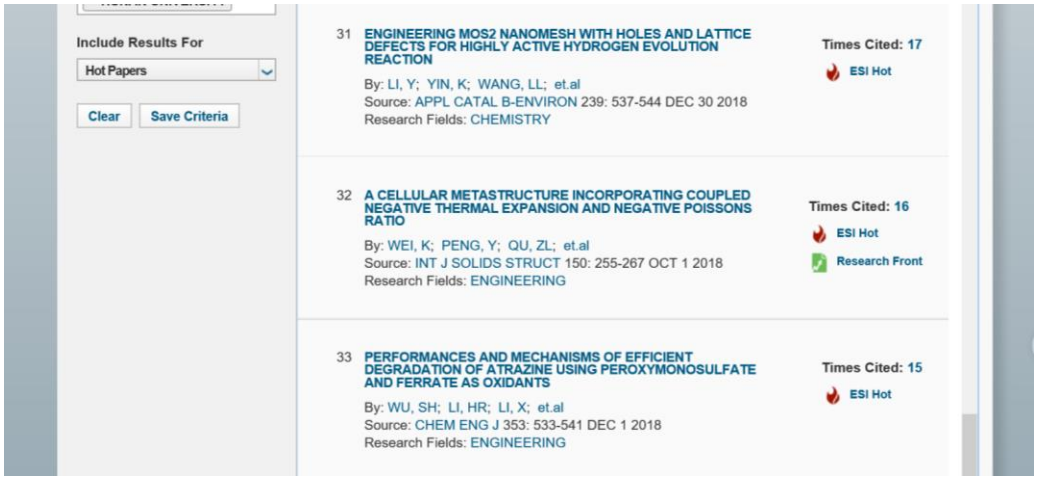
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31 ENGINEERING MOS2 NANOMESH WITH HOLES AND LATTICE DEFECTS FOR HIGHLY ACTIVE HYDROGEN EVOLUTION REACTION
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Source: APPL CATAL B-ENVIRON 239: 537-544 DEC 30 2018
Research Fields: CHEMISTRY
Times Cited: 17
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32 A CELLULAR METASTRUCTURE INCORPORATING COUPLED NEGATIVE THERMAL EXPANSION AND NEGATIVE POISSONS RATIO
By: WEI, K; PENG, Y; QU, ZL; et.al
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Research Fields: ENGINEERING
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33 PERFORMANCES AND MECHANISMS OF EFFICIENT DEGRADATION OF ATRAZINE USING PEROXYMONOSULFATE AND FERRATE AS OXIDANTS
By: WU, SH; LI, HR; LI, X; et.al
Source: CHEM ENG J 353: 533-541 DEC 1 2018
Research Fields: ENGINEERING
Times Cited: 15
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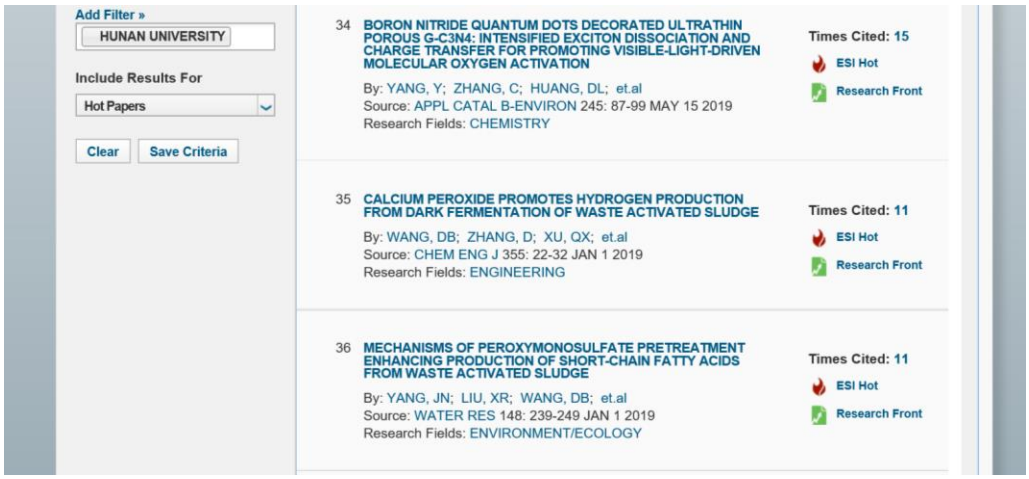
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34 BORON NITRIDE QUANTUM DOTS DECORATED ULTRATHIN POROUS G-C3N4: INTENSIFIED EXCITON DISSOCIATION AND CHARGE TRANSFER FOR PROMOTING VISIBLE-LIGHT-DRIVEN MOLECULAR OXYGEN ACTIVATION
By: YANG, Y; ZHANG, C; HUANG, DL; et.al
Source: APPL CATAL B-ENVIRON 245: 87-99 MAY 15 2019
Research Fields: CHEMISTRY
Times Cited: 15
ESI Hot
Research Front
35 CALCIUM PEROXIDE PROMOTES HYDROGEN PRODUCTION FROM DARK FERMENTATION OF WASTE ACTIVATED SLUDGE
By: WANG, DB; ZHANG, D; XU, QX; et.al
Source: CHEM ENG J 355: 22-32 JAN 1 2019
Research Fields: ENGINEERING
Times Cited: 11
ESI Hot
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36 MECHANISMS OF PEROXYMONOSULFATE PRETREATMENT ENHANCING PRODUCTION OF SHORT-CHAIN FATTY ACIDS FROM WASTE ACTIVATED SLUDGE
By: YANG, JN; LIU, XR; WANG, DB; et.al
Source: WATER RES 148: 239-249 JAN 1 2019
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 11
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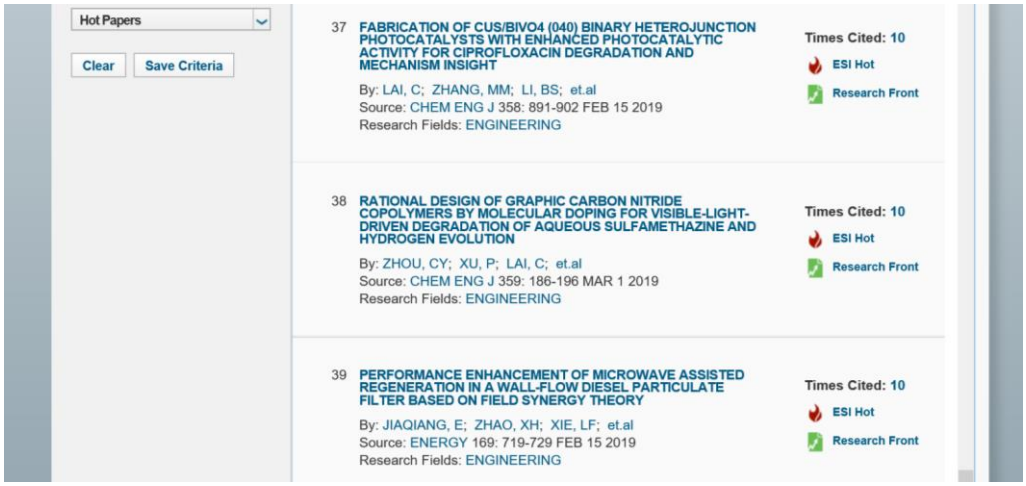
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37 FABRICATION OF CUS/BIVO4 (040) BINARY HETEROJUNCTION PHOTOCATALYSTS WITH ENHANCED PHOTOCATALYTIC ACTIVITY FOR CIPROFLOXACIN DEGRADATION AND MECHANISM INSIGHT
By: LAI, C; ZHANG, MM; LI, BS; et.al
Source: CHEM ENG J 358: 891-902 FEB 15 2019
Research Fields: ENGINEERING
Times Cited: 10
ESI Hot
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38 RATIONAL DESIGN OF GRAPHIC CARBON NITRIDE COPOLYMERS BY MOLECULAR DOPING FOR VISIBLE-LIGHT-DRIVEN DEGRADATION OF AQUEOUS SULFAMETHAZINE AND HYDROGEN EVOLUTION
By: ZHOU, CY; XU, P; LAI, C; et.al
Source: CHEM ENG J 359: 186-196 MAR 1 2019
Research Fields: ENGINEERING
Times Cited: 10
ESI Hot
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39 PERFORMANCE ENHANCEMENT OF MICROWAVE ASSISTED REGENERATION IN A WALL-FLOW DIESEL PARTICULATE FILTER BASED ON FIELD SYNERGY THEORY
By: JIAQIANG, E; ZHAO, XH; XIE, LF; et.al
Source: ENERGY 169: 719-729 FEB 15 2019
Research Fields: ENGINEERING
Times Cited: 10
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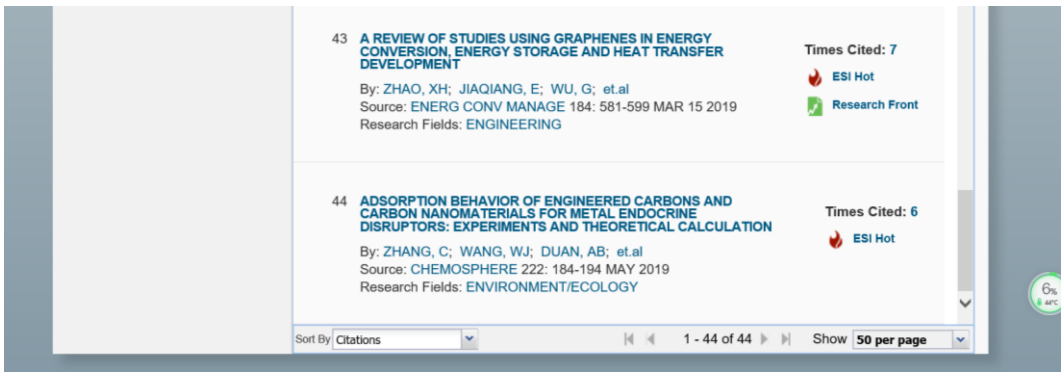
40 THE EFFICACY OF NANOEMULSION-BASED DELIVERY TO IMPROVE VITAMIN D ABSORPTION: COMPARISON OF IN VITRO AND IN VIVO STUDIES
By: KADAPPAN, AS; GUO, C; GUMUS, CE; et.al
Source: MOL NUTR FOOD RES 62 (4): - FEB 2018
Research Fields: AGRICULTURAL SCIENCES
Times Cited: 10
ESI Hot
41 PREPARATION OF SIZE-CONTROLLED SILVER PHOSPHATE CATALYSTS AND THEIR ENHANCED PHOTOCATALYSIS PERFORMANCE VIA SYNERGETIC EFFECT WITH MWCNTS AND PANI
By: LIN, Y; WU, SH; YANG, CP; et.al
Source: APPL CATAL B-ENVIRON 245: 71-86 MAY 15 2019
Research Fields: CHEMISTRY
Times Cited: 8
ESI Hot
Research Front
42 A SIMPLE CORROSION FATIGUE DESIGN METHOD FOR BRIDGES CONSIDERING THE COUPLED CORROSION-OVERLOADING EFFECT
By: DENG, L; YAN, WC; NIE, L;
Source: ENG STRUCT 178: 309-317 JAN 1 2019
Research Fields: ENGINEERING
Times Cited: 8
ESI Hot



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17) **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 2018 IF=14.229). 2017. 217: 388–406(ESI Hot Paper and ESI Highly Cited Paper， ESI Hot Paper 第 7 次上榜)**

18) **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 2018 IF=7.943）. 2017.105：43-55 (ESI Highly Cited Paper and Research Front and ESI Hot Paper， ESI Hot Paper 第 3 次上榜)**

19) **Huan Yi1, Danlian Huang1, Lei Qin1, Guangming Zeng*, Cui Lai*, Min Cheng, Shujing Ye, Biao Song, Xiaoya Ren, Xueying Guo.Selective Prepared Carbon Nanomaterials for Advanced Photocatalytic Application in Environmental Pollutant Treatment and Hydrogen Production. Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2018.239:408-424(ESI Hot Paper and ESI Highly Cited Paper， ESI Hot Paper 第 4 次上榜)**

20) **Zhang Changyong, He Di, Ma Jinxing, Tang Wangwang, Waite T. David *.Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review. Water Research (SCI 2018 IF=7.913).2018.128:314-330 (ESI Hot Paper and ESI Highly Cited Paper，环境学院唐旺旺副教授与 Univ New South Wales 合作成果，ESI Hot Paper 第 3 次上榜)**

21) **Weiping Xiong, Guangming Zeng*, Zhaohui Yang*, Yaoyu Zhou, Chen Zhang, Min Cheng, Yang Liu, Liang Hu, Jia Wan, Chengyun Zhou, Rui Xu, Xin Li.Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent.Science of the Total Environment （SCI 2018 IF=5.589，中科院 2 区，JCR 1 区）.2018.627:235-244(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 2 次上榜)**

22) **Bisheng Li, Cui Lai*, Guangming Zeng*, Lei Qin, Huan Yi, Danlian Huang, Chengyun Zhou, Xigui Liu, Min Cheng, Piao Xu, Chen Zhang, Fanglong Huang, and Shiyu Liu. Facile Hydrothermal Synthesis of Z-Scheme Bi2Fe4O9/Bi2WO6 Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. ACS APPLIED MATERIALS & INTERFACES(SCI 2018 IF=8.456).2019.10(22):18824-18836 (ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 1 次上榜)**

23) **Yang Yang1, Zhuotong Zeng1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Rong Xiao*, Cui Lai, Chengyun Zhou, Hai Guo, Wenjing Xue, Min Cheng, Wenjun Wang, Jiajia Wang.Construction of iodine vacancy-rich BiOI/Ag@AgI Z-scheme heterojunction photocatalysts for visible-light-driven tetracycline degradation: transformation pathways and mechanism insight.Chemical Engineering Journal(SCI 2018**

IF=8.355). 2018. 349：808-821(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 3 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)

24) Xiaoya Ren, Guangming Zeng*, Lin Tang*, Jingjing Wang, Jia Wan, Haopeng Feng,Biao Song, Chao Huang, Xian Tang.Effect of exogenous carbonaceous materials on the bioavailability of organic pollutants and their ecological risks.Soil Biology & Biochemistry（SCI 2018 IF=5.290，在土壤科学界，该刊物是双一区且排名第一的期刊).2018.116:70-81 (ESI Highly Cited Paper and ESI Hot Paper， ESI Hot Paper 第 5 次上榜)

25) Shaohua Wu, Huijun He, Xiang Li, Chunping Yang*, Guangming Zeng, Bin Wu,Shanying He, Li Lu. Insights into atrazine degradation by persulfate activation using composite of nanoscale zero-valent iron and graphene: Performances and mechanisms. Chemical Engineering Journal (SCI 2018 IF=8.355).2018.341: 126 – 136(ESI Hot Paper and ESI Highly Cited Paper， ESI Hot Paper 第 2 次上榜)

26) Wang Hou, Wu Yan, Feng Mingbao, Tu Wenguang, Xiao Tong, Xiong Ting, Ang Huixiang, Yuan Xingzhong, Chew Jia Wei∗. Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. Water Research(SCI 2018 IF=7.913).2018.144: 215-225(ESI Hot Paper，ESI Hot Paper 第 2 次上榜,王侯助理教授与新加坡南洋理工的合作成果)

27) Weiping Xiong1, Zhuotong Zeng1, Xin Li1, Guangming Zeng*,Rong Xiao*,Zhaohui Yang,Yaoyu Zhou, Chen Zhang, Min Cheng, Liang Hu,Chengyun Zhou, Lei Qin, Rui Xu, Yanru Zhang.Multiulti-walled carbon nanotube/aminomino-functionalized -53 (Fe)composites: remarkabl adsorptive removal of antibiotics from aqueous solutions.Chemosphere(SCI 2018 IF=5.108)(中科院分区 2 区，JCR 分区 1 区). 2018.210:1061-1069(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 2 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)

28) Cao Jiao, Yang Zhao-hui∗, Xiong Wei-ping, Zhou Yao-yu, Peng Yan-rong, Li Xin, Zhou Cheng-yun, Xu Rui, Zhang Yan-ru. One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. Chemical Engineering Journal (SCI 2018 IF=8.355).2018. 353 : 126-137(ESI Hot Paper, ESI Hot Paper 第 3 次上榜)

29) Huan Yi1, Lei Qin1, Danlian Huang1, Guangming Zeng*, Cui Lai*, Xigui Liu, Bisheng Li, Han Wang, Chengyun Zhou, Fanglong Huang, Shiyu Liu, Xueying Guo.Nano-structured bismuth tungstate with controlled morphology: fabrication, modification, environmental application and mechanism insight.Chemical Engineering Journal (SCI 2018 IF=8.355).2019.358:480-496(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 2 次上榜)

30) Li Yue, Yin Kai, Wang Longlu*, Lu Xiaolong, Zhang Yaqi, Liu Yutang*, Yan Dafeng, Song Yuze, Luo Shenglian.Engineering MoS2 nanomesh with holes and lattice defects for highly active hydrogen evolution reaction. Applied Catalysis B: Environmental(SCI 2018 IF=14.229).239:537-544(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 1 次上榜，环境学院刘玉堂教授与物理学院的合作成果)

31) Wu Shaohua, Li Huiru, Li Xiang,He Huijun, Yang Chunping.Performances and mechanisms of efficient degradation of atrazine using peroxymonosulfate and ferrate as oxidants. CHEMICAL ENGINEERING JOURNAL(SCI 2018 IF=8.355).2018.353:533-541(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)

32) Yang Yang1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Jinhui Huang*, Cui Lai, Chengyun Zhou, Wenjun Wang, Hai Guo, Wenjing Xue, Rui Deng, Min Cheng, Weiping Xiong.Boron nitride quantum dots decorated ultrathin porous g-C3N4: Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation.Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2019.245:87-99(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)

33) **Wang Dongbo*, Zhang Dan, Xu Qiuxiang, Liu Yiwen, Wang Qilin, Ni Bing-Jie, Yang Qi*, Li Xiaoming ,Yang Fan.Calcium peroxide promotes hydrogen production from dark fermentation of waste activated sludge. CHEMICAL ENGINEERING JOURNAL.2019.355:22-32(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)**

34) **Jingnan Yang1, Xuran Liu1, Dongbo Wang *, Qiuxiang Xu, Qi Yang,Guangming Zeng, Xiaoming Li, Yiwen Liu **, Jilai Gong, Jun Ye, Hailong Li. Mechanisms of peroxymonosulfate pretreatment enhancing production of short-chain fatty acids from waste activated sludge. Water Research(SCI 2018 IF=7.913).2019. 148 :239-249(ESI Highly Cited Paper and ESI Hot Paper and Research Front , ESI Hot Paper 第 1 次上榜)**

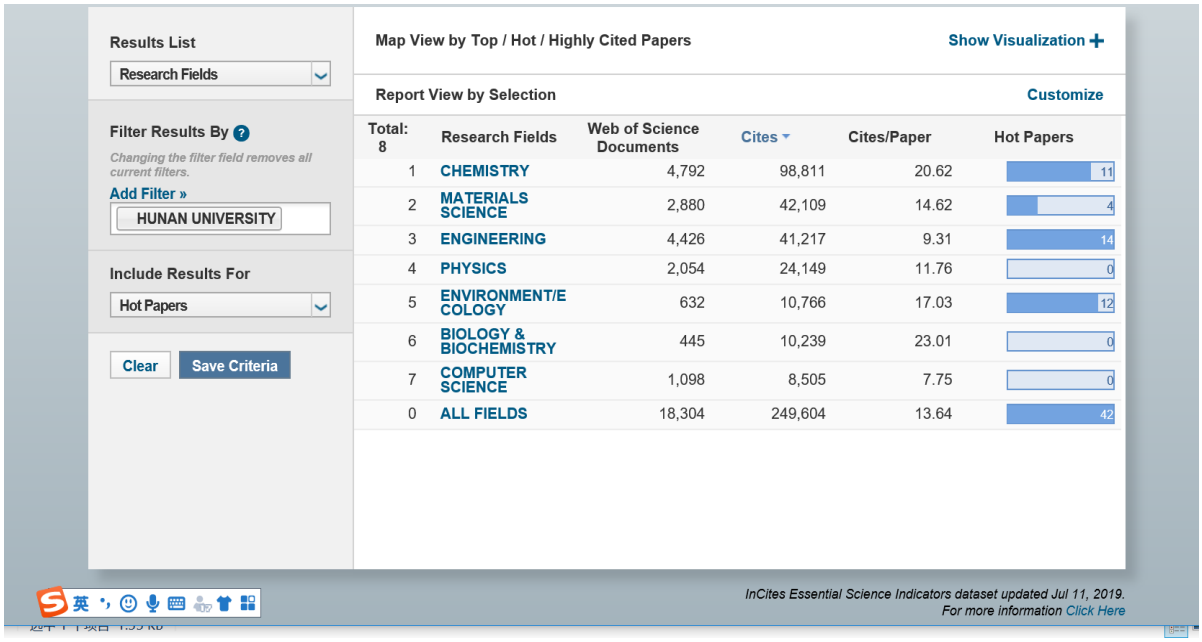
35) **Cui Lai∗, Mingming Zhang, Bisheng Li, Danlian Huang∗, Guangming Zeng,Lei Qin, Xigui Liu, Huan Yi, Min Cheng, Ling Li, Zhang Chen, Liang Chen. Fabrication of CuS/BiVO4 (0 4 0) binary heterojunction photocatalysts withenhanced photocatalytic activity for Ciprofloxacin degradation and mechanism insight. Chemical Engineering Journal (SCI 2018 IF=8.355).2019. 358 :891–902 (ESI Highly Cited Paper and ESI Hot Paper and Research Front, ESI Hot Paper 第 1 次上榜)**

36) **Chengyun Zhou1, Piao Xu1, Cui Lai1, Chen Zhang1, Guangming Zeng*, Danlian Huang*, Min Cheng, Liang Hu, Weiping Xiong, Xiaofeng Wen, Lei Qin, Jili Yuan, Wenjun Wang.Rational Design of Graphic Carbon Nitride Copolymers by Molecular Doping for Visible-Light-Driven Degradation of Aqueous Sulfamethazine and Hydrogen Evolution.Chemical Engineering Journal (SCI 2018 IF=8.355).2019.359：186-196(ESI Highly Cited Paper and Hot Paper and Research Front, ESI Hot Paper 第 1 次上榜)**

37) **Lin Yan, Wu Shaohua, Yang Chunping*, Chen Ming*, Li Xiang. Preparation of size-controlled silver phosphate catalysts and their enhanced photocatalysis performance via synergetic effect with MWCNTs and PANI. Applied Catalysis B: Environmental(SCI 2018 IF=14.229).2019.245:71-86(ESI Highly Cited Paper and Hot Paper and Research Front, ESI Hot Paper 第 1 次上榜)**

38) **Chen Zhang *, Wenjun Wang, Abing Duan**, Guangming Zeng, Danlian Huang, Cui Lai, Xiaofei Tan, Min Cheng, Rongzhong Wang,Chengyun Zhou, Weiping Xiong, Yang Yang. Adsorption behavior of engineered carbons and carbon nanomaterials for metal endocrine disruptors: Experiments and theoretical calculation. Chemosphere(SCI 2018 IF=5.108).2019.184-194((ESI Highly Cited Paper and ESI Hot Paper)**

3. Essential Science Indicators for Hot papers for Hunan Univ on 11 July 2019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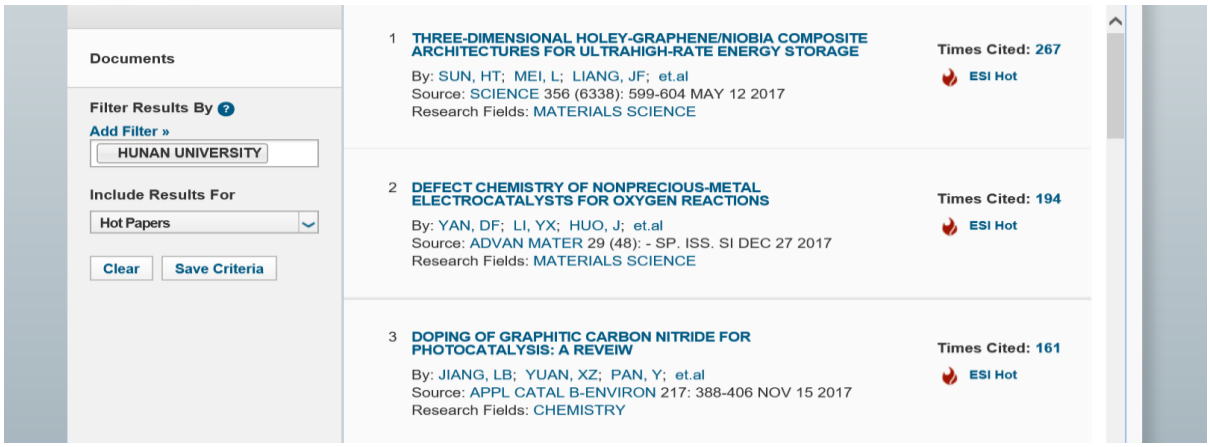
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By: SUN, HT; MEI, L; LIANG, JF; et.al
Source: SCIENCE 356 (6338): 599-604 MAY 12 2017
Research Fields: MATERIALS SCIENCE
Times Cited: 267
ESI Hot
2 DEFECT CHEMISTRY OF NONPRECIOUS-METAL ELECTROCATALYSTS FOR OXYGEN REACTIONS
By: YAN, DF; LI, YX; HUO, J; et.al
Source: ADVAN MATER 29 (48): - SP. ISS. SI DEC 27 2017
Research Fields: MATERIALS SCIENCE
Times Cited: 194
ESI Hot
3 DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVEIW
By: JIANG, LB; YUAN, XZ; PAN, Y; et.al
Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017
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Times Cited: 161
ESI Hot


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4 FILLING THE OXYGEN VACANCIES IN CO3O4 WITH PHOSPHORUS: AN ULTRA-EFFICIENT ELECTROCATALYST FOR OVERALL WATER SPLITTING
By: XIAO, ZH; WANG, Y; HUANG, YC; et.al
Source: ENERGY ENVIRON SCI 10 (12): 2563-2569 DEC 2017
Research Fields: CHEMISTRY
Times Cited: 115
ESI Hot
5 HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN
By: ZHOU, CY; LAI, C; HUANG, DL; et.al
Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018
Research Fields: CHEMISTRY
Times Cited: 102
ESI Hot
6 A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE
By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al
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By: FEI, HL; DONG, JC; FENG, YX; et.al
Source: NAT CATAL 1 (1): 63-72 JAN 2018
Research Fields: CHEMISTRY
Times Cited: 94
ESI Hot
8 SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL
By: REN, XY; ZENG, GM; TANG, L; et.al
Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 90
ESI Hot
9 IN SITU GROWN AGL/BI12O17CL2 HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE LIGHT DEGRADATION OF SULFAMETHAZINE: EFFICIENCY, PATHWAY, AND MECHANISM
By: ZHOU, CY; LAI, C; XU, P; et.al
Source: ACS SUSTAIN CHEM ENG 6 (3): 4174-4184 MAR 2018
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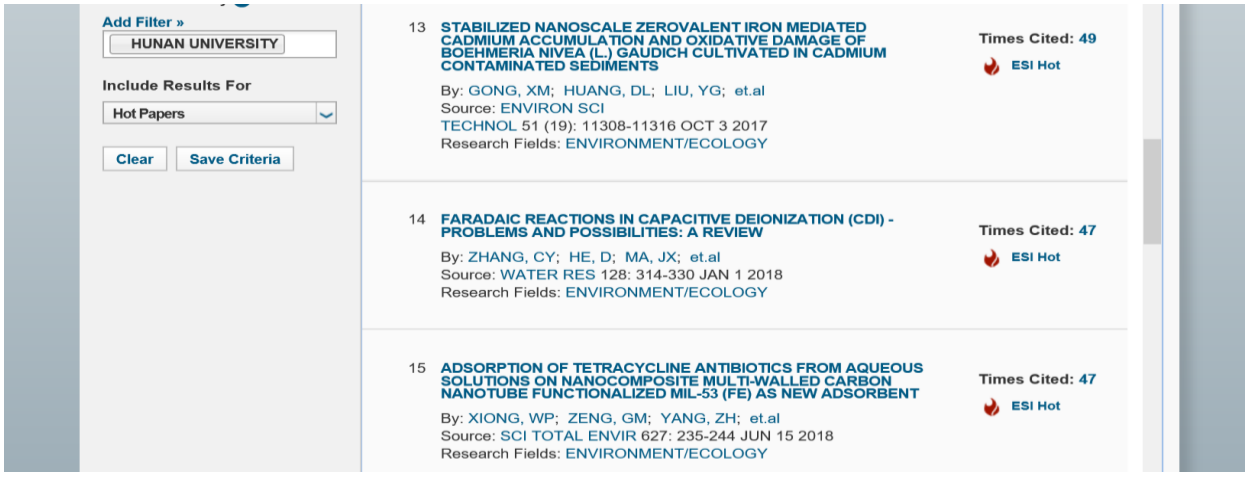
10 STABILIZATION OF NANOSCALE ZERO-VALENT IRON (NZVI) WITH MODIFIED BIOCHAR FOR CR(VI) REMOVAL FROM AQUEOUS SOLUTION
By: DONG, HR; DENG, JM; XIE, YK; et.al
Source: J HAZARD MATER 332: 79-86 JUN 15 2017
Research Fields: ENGINEERING
Times Cited: 64
ESI Hot
11 METAL-FREE CARBON MATERIALS FOR CO2 ELECTROCHEMICAL REDUCTION
By: DUAN, XC; XU, JT; WEI, ZX; et.al
Source: ADVAN MATER 29 (41): - NOV 6 2017
Research Fields: MATERIALS SCIENCE
Times Cited: 61
ESI Hot
12 APPROACHING THE SCHOTTKY-MOTT LIMIT IN VAN DER WAALS METAL-SEMICONDUCTOR JUNCTIONS
By: LIU, Y; GUO, J; ZHU, EB; et.al
Source: NATURE 557 (7707): 696-+ MAY 31 2018
Research Fields: MATERIALS SCIENCE
Times Cited: 61
ESI Hot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ESI Hot
14 FARADAIC REACTIONS IN CAPACITIVE DEIONIZATION (CDI) - PROBLEMS AND POSSIBILITIES: A REVIEW
By: ZHANG, CY; HE, D; MA, JX; et.al
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Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 47
ESI Hot
15 ADSORPTION OF TETRACYCLINE ANTIBIOTICS FROM AQUEOUS SOLUTIONS ON NANOCOMPOSITE MULTI-WALLED CARBON NANOTUBE FUNCTIONALIZED MIL-53 (FE) AS NEW ADSORBENT
By: XIONG, WP; ZENG, GM; YANG, ZH; et.al
Source: SCI TOTAL ENVIR 627: 235-244 JUN 15 2018
Research Fields: ENVIRONMENT/ECOLOGY
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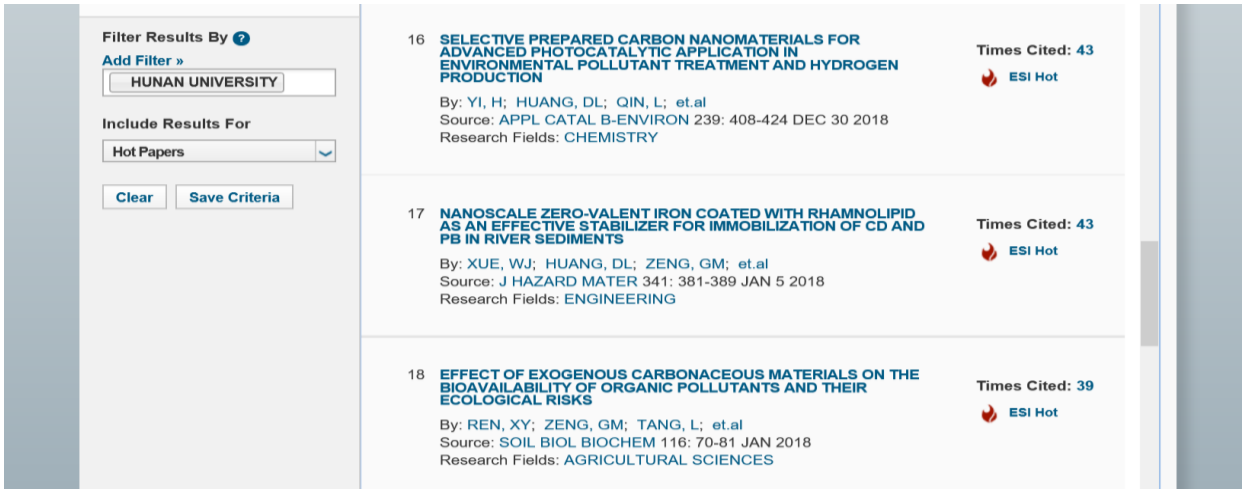
ESI Hot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16 SELECTIVE PREPARED CARBON NANOMATERIALS FOR ADVANCED PHOTOCATALYTIC APPLICATION IN ENVIRONMENTAL POLLUTANT TREATMENT AND HYDROGEN PRODUCTION
By: YI, H; HUANG, DL; QIN, L; et.al
Source: APPL CATAL B-ENVIRON 239: 408-424 DEC 30 2018
Research Fields: CHEMISTRY
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17 NANOSCALE ZERO-VALENT IRON COATED WITH RHAMNOLIPID AS AN EFFECTIVE STABILIZER FOR IMMOBILIZATION OF CD AND PB IN RIVER SEDIMENTS
By: XUE, WJ; HUANG, DL; ZENG, GM; et.al
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ESI Hot
18 EFFECT OF EXOGENOUS CARBONACEOUS MATERIALS ON THE BIOAVAILABILITY OF ORGANIC POLLUTANTS AND THEIR ECOLOGICAL RISKS
By: REN, XY; ZENG, GM; TANG, L; et.al
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Research Fields: AGRICULTURAL SCIENCES
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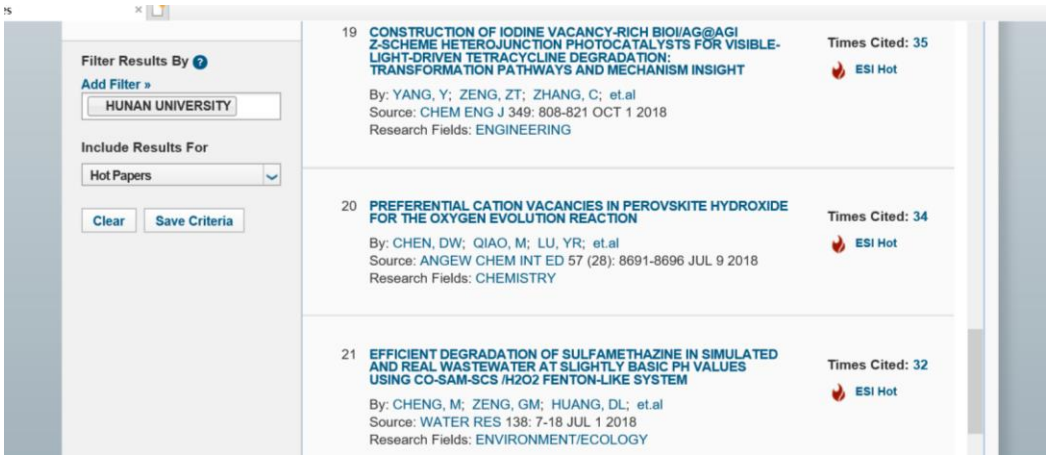
ESI Hot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20 PREFERENTIAL CATION VACANCIES IN PEROVSKITE HYDROXIDE FOR THE OXYGEN EVOLUTION REACTION
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21 EFFICIENT DEGRADATION OF SULFAMETHAZINE IN SIMULATED AND REAL WASTEWATER AT SLIGHTLY BASIC PH VALUES USING CO-SAM-SCS /H2O2 FENTON-LIKE SYSTEM
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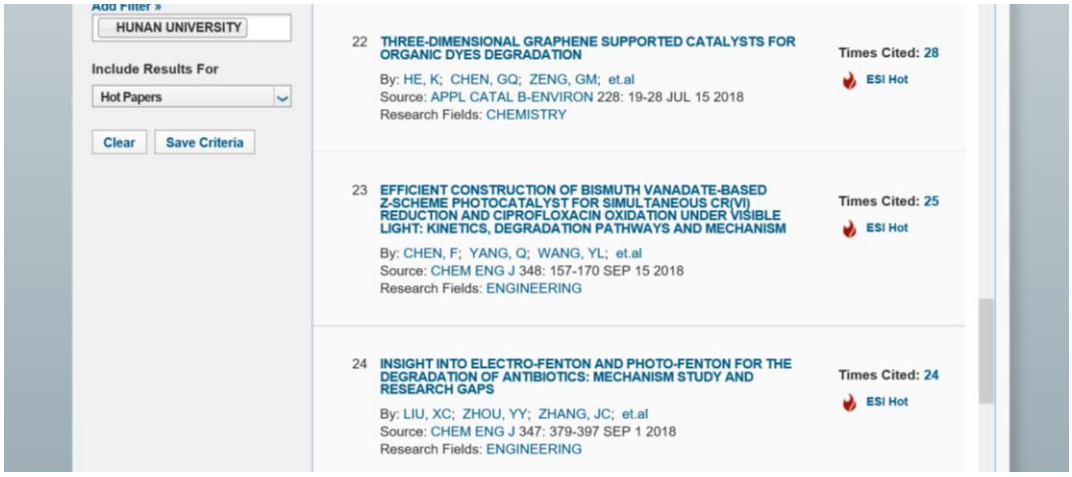
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ESI Hot
24 INSIGHT INTO ELECTRO-FENTON AND PHOTO-FENTON FOR THE DEGRADATION OF ANTIBIOTICS: MECHANISM STUDY AND RESEARCH GAPS
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26 SEMICONDUCTOR/BORON NITRIDE COMPOSITES: SYNTHESIS, PROPERTIES, AND PHOTOCATALYSIS APPLICATIONS
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27 INSIGHTS INTO ATRAZINE DEGRADATION BY PERSULFATE ACTIVATION USING COMPOSITE OF NANOSCALE ZERO-VALENT IRON AND GRAPHENE: PERFORMANCES AND MECHANISMS
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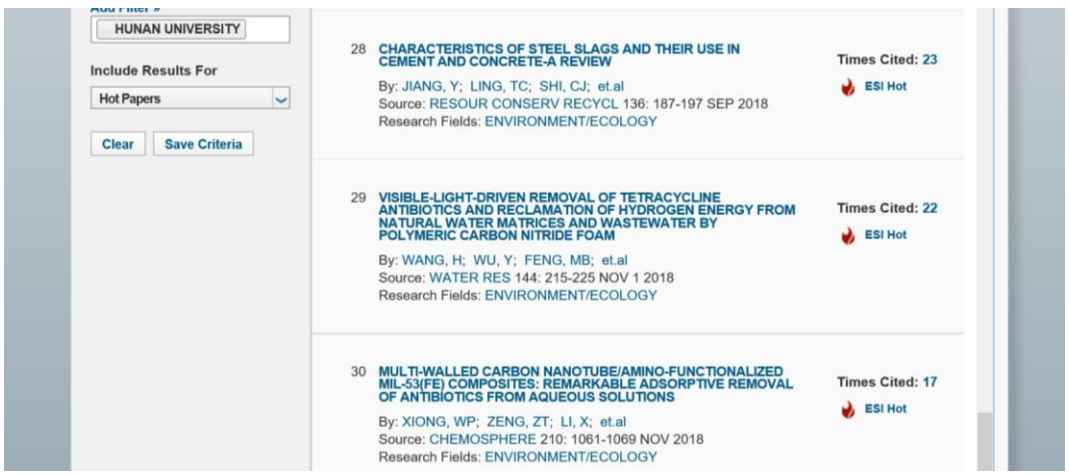
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29 VISIBLE-LIGHT-DRIVEN REMOVAL OF TETRACYCLINE ANTIBIOTICS AND RECLAMATION OF HYDROGEN ENERGY FROM NATURAL WATER MATRICES AND WASTEWATER BY POLYMERIC CARBON NITRIDE FOAM
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30 MULTI-WALLED CARBON NANOTUBE/AMINO-FUNCTIONALIZED MIL-53(FE) COMPOSITES: REMARKABLE ADSORPTIVE REMOVAL OF ANTIBIOTICS FROM AQUEOUS SOLUTIONS
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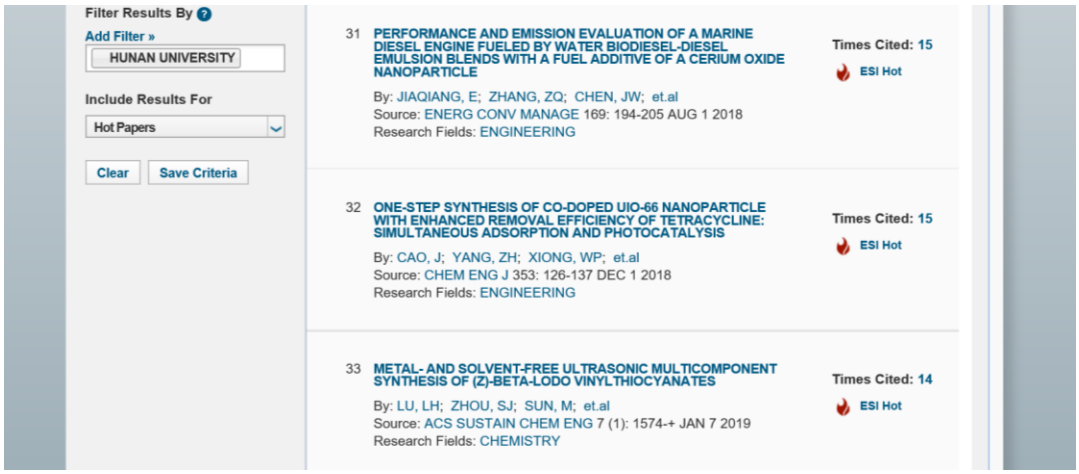
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ESI Hot
32 ONE-STEP SYNTHESIS OF CO-DOPED UIO-66 NANOPARTICLE WITH ENHANCED REMOVAL EFFICIENCY OF TETRACYCLINE: SIMULTANEOUS ADSORPTION AND PHOTOCATALYSIS
By: CAO, J; YANG, ZH; XIONG, WP; et.al
Source: CHEM ENG J 353: 126-137 DEC 1 2018
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Times Cited: 15
ESI Hot
33 METAL- AND SOLVENT-FREE ULTRASONIC MULTICOMPONENT SYNTHESIS OF (Z)-BETA-LODO VINYLTHIOCYANATES
By: LU, LH; ZHOU, SJ; SUN, M; et.al
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By: ZHANG, L; NIU, CG; LIANG, C; et.al
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ESI Hot
35 RESEARCH ON THE SUSTAINABLE EFFICACY OF G-MOS2 DECORATED BIOCHAR NANOCOMPOSITES FOR REMOVING TETRACYCLINE HYDROCHLORIDE FROM ANTIBIOTIC-POLLUTED AQUEOUS SOLUTION
By: ZENG, ZT; YE, SJ; WU, HP; et.al
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Research Fields: ENVIRONMENT/ECOLOGY
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ESI Hot
36 NANO-STRUCTURED BISMUTH TUNGSTATE WITH CONTROLLED MORPHOLOGY: FABRICATION, MODIFICATION, ENVIRONMENTAL APPLICATION AND MECHANISM INSIGHT
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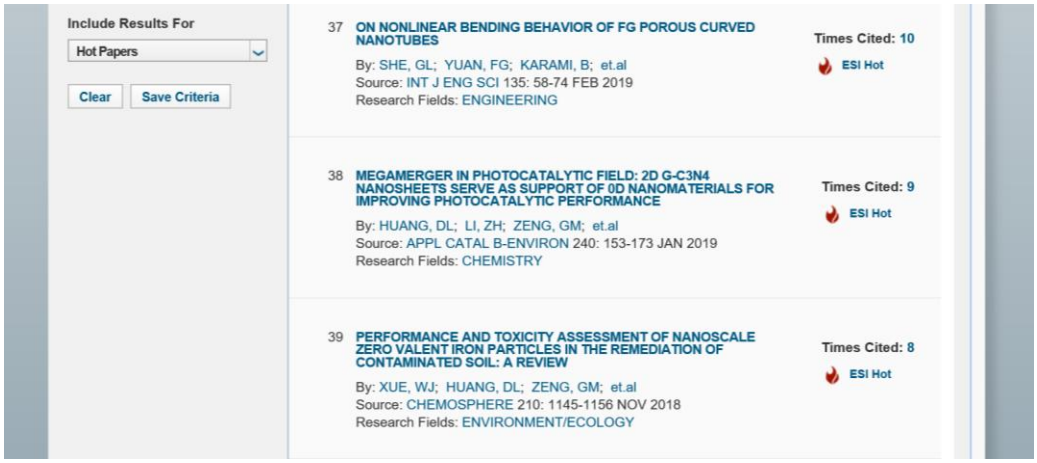
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Research Fields: ENGINEERING
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ESI Hot
38 MEGAMERGER IN PHOTOCATALYTIC FIELD: 2D G-C3N4 NANOSHEETS SERVE AS SUPPORT OF 0D NANOMATERIALS FOR IMPROVING PHOTOCATALYTIC PERFORMANCE
By: HUANG, DL; LI, ZH; ZENG, GM; et.al
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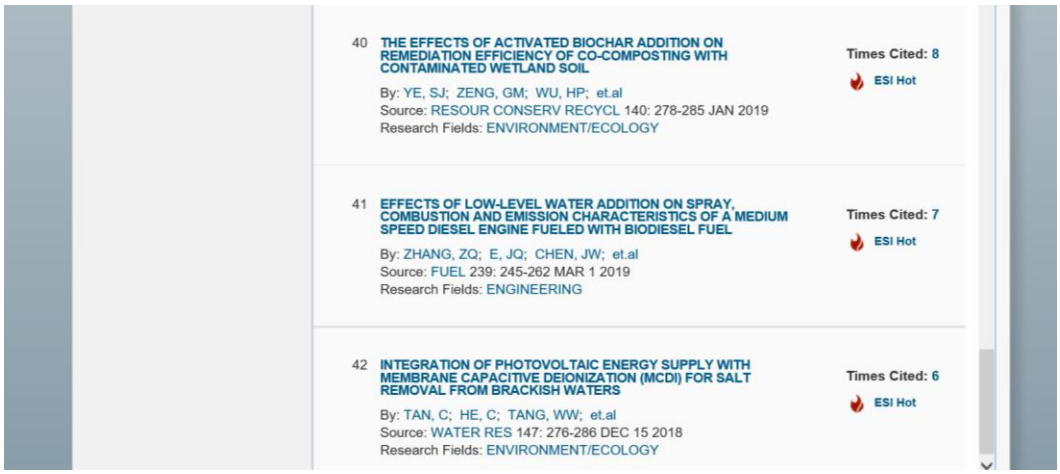
Research Fields: CHEMISTRY
Times Cited: 9
ESI Hot
39 PERFORMANCE AND TOXICITY ASSESSMENT OF NANOSCALE ZERO VALENT IRON PARTICLES IN THE REMEDIATION OF CONTAMINATED SOIL: A REVIEW
By: XUE, WJ; HUANG, DL; ZENG, GM; et.al
Source: CHEMOSPHERE 210: 1145-1156 NOV 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 8
ESI Hot



以上 42 篇 Hot Paper 中 有 29 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 2018 IF=14.229). 2017. 217: 388–406(ESI Hot Paper and ESI Highly Cited Paper， ESI Hot Paper 第 6 次上榜)**
2) **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 2018 IF=14.229). 2018. 220:202-210(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 5 次上榜)**
3) **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 2018 IF=5.589）. 2018. 610-611:1154-1163(ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 6 次上榜)**
4) **Zhou Chengyun, Lai Cui,Xu Piao,Zeng Guangming*,Huang Danlian*,Zhang Chen,Cheng Min,Hu Liang,Wan Jia,Liu Yang,Xiong Weiping.Deng Yaocheng,Wen Ming. In Situ Grown AgI/Bi12O17Cl2 Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway and Mechanism. ACS Sustainable Chemistry & Engineering(SCI 2018 IF=6.910).2018.6:4174-4184 (ESI Highly Cited Paper and ESI Hot Paper ，ESI Hot Paper 第 5 次上榜)**
5) **Haoran Dong*, Junmin Deng, Yankai Xie, Cong Zhang, Zhao Jiang,Yujun Cheng, Kunjie Hou, Guangming Zeng. Stabilization of nanoscale zero-valent iron (nZVI) with modifiedbiochar for Cr(VI) removal from aqueous solutionHaoran. Journal of Hazardous Materials(SCI 2018 IF=7.650) . 2017. 332: 79–86(ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 2 次上榜)**
6) **Xiaomin Gong, Danlian Huang*, Yunguo Liu*, Guangming Zeng, Rongzhong Wang, Jia Wan, Chen Zhang, Min Cheng, Xiang Qin, Wenjing Xue. Stabilized nanoscale zero-valent iron mediated cadmium accumulation and oxidative damage of Boehmeria nivea (L.) Gaudich cultivated in cadmium contaminated sediments. Environmental Science & Technology （SCI 2018 IF=7.149 ）. 2017.51:11308-11316(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 2 次上榜)**
7) **Zhang Changyong, He Di, Ma Jinxing, Tang Wangwang, Waite T. David *.Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review. Water Research (SCI 2018**

IF=7.913).2018.128:314-330 (ESI Hot Paper and ESI Highly Cited Paper，环境学院唐旺旺副教授与 Univ New South Wales 合作成果，ESI Hot Paper 第 2 次上榜)

8) Weiping Xiong, Guangming Zeng*, Zhaohui Yang*, Yaoyu Zhou, Chen Zhang, Min Cheng, Yang Liu, Liang Hu, Jia Wan, Chengyun Zhou, Rui Xu, Xin Li.Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent.Science of the Total Environment （SCI 2018 IF=5.589，中科院 2 区，JCR 1 区）.2018.627:235-244(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 3 次上榜)

9) Huan Yi1, Danlian Huang1, Lei Qin1, Guangming Zeng*, Cui Lai*, Min Cheng, Shujing Ye, Biao Song, Xiaoya Ren, Xueying Guo.Selective Prepared Carbon Nanomaterials for Advanced Photocatalytic Application in Environmental Pollutant Treatment and Hydrogen Production. Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2018.239:408-424(ESI Hot Paper and ESI Highly Cited Paper， ESI Hot Paper 第 3 次上榜)

10) Wenjing Xue, Danlian Huang*, Guangming Zeng*, Jia Wan, Chen Zhang, Rui Xu, Min Cheng, Rui Deng. Nanoscale zero-valent iron coated with rhamnolipid as an effectivestabilizer for immobilization of Cd and Pb in river sediments. Journal of Hazardous Materials(SCI 2018 IF=7.650). 2018. 341 :381–389(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 2 次上榜)

11) Xiaoya Ren, Guangming Zeng*, Lin Tang*, Jingjing Wang, Jia Wan, Haopeng Feng,Biao Song, Chao Huang, Xian Tang.Effect of exogenous carbonaceous materials on the bioavailability of organic pollutants and their ecological risks.Soil Biology & Biochemistry（SCI 2018 IF=5.290，在土壤科学界，该刊物是双一区且排名第一的期刊).2018.116:70-81 (ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 4 次上榜)

12) Yang Yang1, Zhuotong Zeng1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Rong Xiao*, Cui Laia, Chengyun Zhou, Hai Guo, Wenjing Xue, Min Cheng, Wenjun Wang, Jiajia Wang.Construction of iodine vacancy-rich BiOI/Ag@AgI Z-scheme heterojunction photocatalysts for visible-light-driven tetracycline degradation: transformation pathways and mechanism insight.Chemical Engineering Journal(SCI 2018 IF=8.355). 2018. 349：808-821(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 2 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)

13) Min Cheng, Guangming Zeng*, Danlian Huang*, Cui Lai, Yang Liu, Chen Zhang, Jia Wan, Liang Hu, Chengyun Zhou, Weiping Xiong.Efficient degradation of sulfamethazine in simulated and real wastewater at slightly basic pH values using Co-SAM-SCS /H2O2 Fenton-like system.Water Research(SCI 2018 IF=7.913). 2018. 138:7-18(ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 4 次上榜)

14) Kai He, Guiqiu Chen, Guangming Zeng*, Anwei Chen*, Zhenzhen Huang, Jiangbo Shi, Tiantian Huang, Min Peng, Liang Hu. Three-dimensional graphene supported catalysts for organic dyes degradation. Applied Catalysis B: Environmental(SCI 2018 IF=14.229).2018.228:19-28(ESI Hot Paper and ESI Highly Cited Paper， ESI Hot Paper 第 1 次上榜)

15) Fei Chen, Qi Yang*, Yali Wang, Fubing Yao, Yinghao Ma, Xiaoding Huang,Xiaoming Li, Dongbo Wang, Guangming Zeng, Hanqing Yu. Efficient construction of bismuth vanadate-based Z-scheme photocatalyst for simultaneous Cr(VI) reduction and ciprofloxacin oxidation under visible light: Kinetics, degradation pathways and mechanism. Chemical Engineering Journal (SCI 2018 IF=8.355).2018. 348: 157 – 170(ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 1 次上榜)

16) Liu Xiaocheng, Zhou Yaoyu*, Zhang Jiachao, Luo Lin, Yang Yuan, Huang Hongli, Peng Hui, Tang Lin, Mu Yang. Insight into electro-Fenton and photo-Fenton for the degradation of antibiotics: Mechanism study and research gaps. Chemical Engineering Journal (SCI 2018 IF=8.355).2018.347: 379-397(ESI Hot

Paper and ESI Highly Cited 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)

17) Huan Yi, Guangming Zeng*, Cui Lai*, Danlian Huang, Lin Tang, Jilai Gong, Ming Chen, Piao Xu, Hou Wang, Min Cheng, Chen Zhang and Weiping Xiong.Environment-friendly Fullerene Separation Methods.Chemical Engineering Journal (SCI 2018 IF=8.355). 2017.330:134-145(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 1 次上榜)

18) Chengyun Zhou1, Cui Lai1, Chen Zhang1, Guangming Zeng*, Danlian Huang*, Min Cheng, Liang Hu, Weiping Xiong, Ming Chen, Jiajia Wang, Yang Yang, Longbo Jiang.Semiconductor/boron nitride composites: synthesis, properties, and photocatalysis applications .Applied Catalysis B: Environmental(SCI 2018 IF=14.229). 2018.238: 6-18((ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 1 次上榜)

19) Shaohua Wu, Huijun He, Xiang Li, Chunping Yang*, Guangming Zeng, Bin Wu,Shanying He, Li Lu. Insights into atrazine degradation by persulfate activation using composite of nanoscale zero-valent iron and graphene: Performances and mechanisms. Chemical Engineering Journal (SCI 2018 IF=8.355).2018.341: 126 – 136(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 1 次上榜)

20) Wang Hou, Wu Yan, Feng Mingbao, Tu Wenguang, Xiao Tong, Xiong Ting, Ang Huixiang, Yuan Xingzhong, Chew Jia Wei∗. Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. Water Research(SCI 2018 IF=7.913).2018.144: 215-225(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 2 次上榜,王侯助理教授与新加坡南洋理工的合作成果)

21) Weiping Xiong1, Zhuotong Zeng1, Xin Li1, Guangming Zeng*,Rong Xiao*,Zhaohui Yang,Yaoyu Zhou, Chen Zhang, Min Cheng, Liang Hu,Chengyun Zhou, Lei Qin, Rui Xu, Yanru Zhang.Multiulti-walled carbon nanotube/aminomino-functionalized -53 (Fe)composites: remarkabl adsorptive removal of antibiotics from aqueous solutions.Chemosphere(SCI 2018 IF=5.108)(中科院分区 2 区，JCR 分区 1 区). 2018.210:1061-1069(ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)

22) Cao Jiao, Yang Zhao-hui∗, Xiong Wei-ping, Zhou Yao-yu, Peng Yan-rong, Li Xin, Zhou Cheng-yun, Xu Rui, Zhang Yan-ru. One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. Chemical Engineering Journal (SCI 2018 IF=8.355).2018. 353 : 126-137(ESI Hot Paper, ESI Hot Paper 第 2 次上榜)

23) Lei Zhang, Cheng-Gang Niu*, Chao Liang, Xiao-Ju Wen, Da-Wei Huang, Hai Guo,Xiu-Fei Zhao, Guang-Ming Zeng*..One-step in situ synthesis of CdS/SnO2 heterostructure with excellent photocatalytic performance for Cr(VI) reduction and tetracycline degradation.Chemical Engineering Journal (SCI 2018 IF=8.355).2018. 352:863 – 875(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)

24) Zhuotong Zeng1, Shujing Ye1, Haipeng Wu1, Rong Xiao*, Guangming Zeng*, Jie Liang, Chang Zhang, Jiangfang Yu, Yilong Fang, Biao Song.Research on the sustainable efficacy of g-MoS2 decorated biochar nanocomposites for removing tetracycline hydrochloride from antibiotic-polluted aqueous solution. Science of the Total Environment（SCI 2018 IF=5.589，中科院 2 区，JCR 1 区）.2019. 648：206-217(ESI Highly Cited Paper and ESI Hot Paper , ESI Hot Paper 第 1 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)

25) Huan Yi1, Lei Qin1, Danlian Huang1, Guangming Zeng*, Cui Lai*, Xigui Liu, Bisheng Li, Han Wang, Chengyun Zhou, Fanglong Huang, Shiyu Liu, Xueying Guo.Nano-structured bismuth tungstate with controlled morphology: fabrication, modification, environmental application and mechanism

insight.Chemical Engineering Journal (SCI 2018 IF=8.355).2019.358:480-496(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)

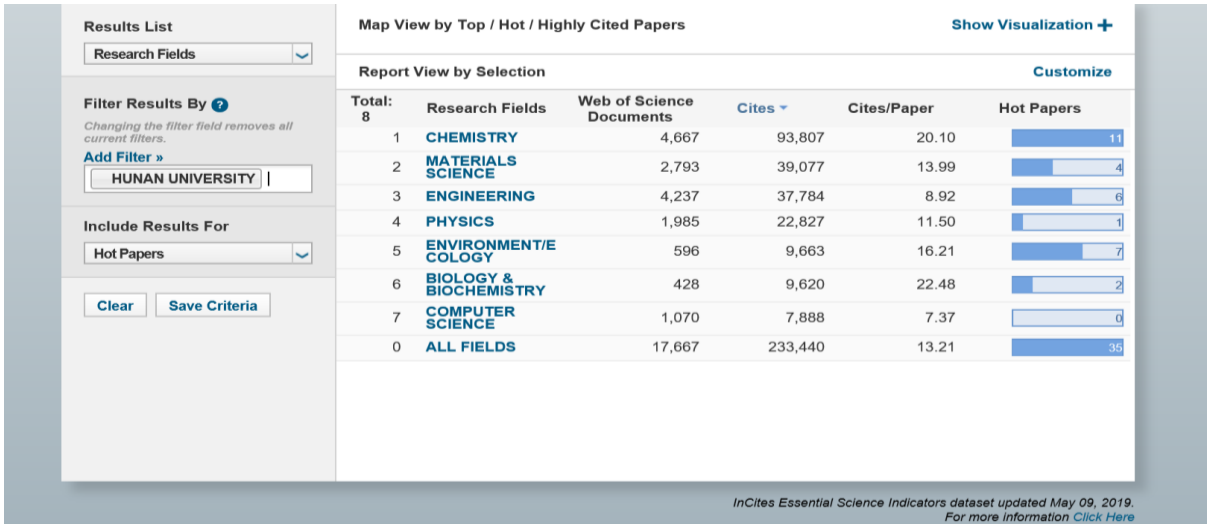
26) Danlian Huang*, Zhihao Li, Guangming Zeng*, Chengyun Zhou, Wenjing Xue,Xiaomin Gong, Xuelei Yan, Sha Chen, Wenjun Wang, Min Cheng. egamerger in photocatalytic field: 2D g-C3N4 nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. Applied Catalysis B: Environmental(SCI 2018 IF=14.229) .2019. 240 :153-173 (ESI Highly Cited Paper and ESI Hot Paper, ESI Hot Paper 第 1 次上榜)

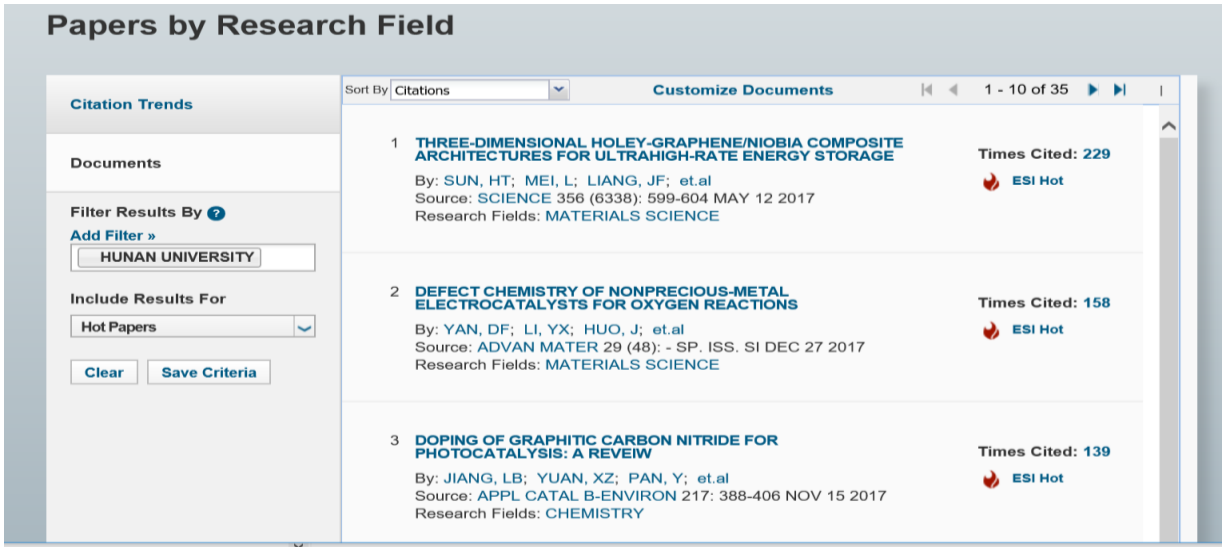
27) Wenjing Xue, Danlian Huang *, Guangming Zeng**, Jia Wan, Min Cheng,Chen Zhang, Chanjuan Hu, Jing Li. Performance and toxicity assessment of nanoscale zero valent iron particles in the remediation of contaminated soil: A review. Chemosphere(SCI 2018 IF=5.108)(中科院分区 2 区，JCR 分区 1 区).2018. 210 :1145-1156 (ESI Highly Cited Paper and ESI Highly Hot Paper, ESI Hot Paper 第 1 次上榜)

28) Shujing Ye, Guangming Zeng*, Haipeng Wu*, Jie Liang, Chang Zhang, Juan Dai, Weiping Xiong, Biao Song, Shaohua Wu, Jiangfang Yu.The effects of activated biochar addition on remediation efficiency of co-composting with contaminated wetland soil.Resources, Conservation & Recycling（SCI 2018 IF=7.044）.2019.140:278-285(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜)

29) Tan Cheng, He Calvin, Tang Wangwang, Kovalsky Peter, Fletcher John, Waite T. David*.Integration of photovoltaic energy supply with membrane capacitive deionization (MCDI) for salt removal from brackish waters. Water Research(SCI 2018 IF=7.913). 2018.147:276-286(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜，环境学院唐旺旺副教授与 Univ New South Wales 合作成果)

4. Essential Science Indicators for Hot papers for Hunan Univ on 09 May 2019

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1 - 10 of 35
1 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: MATERIALS SCIENCE
Times Cited: 229
ESI Hot
2 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: 158
ESI Hot
3 DOPING OF GRAPHITIC CARBON NITRIDE FOR PHOTOCATALYSIS: A REVEIW
By: JIANG, LB; YUAN, XZ; PAN, Y; et.al
Source: APPL CATAL B-ENVIRON 217: 388-406 NOV 15 2017
Research Fields: CHEMISTRY
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ESI Hot


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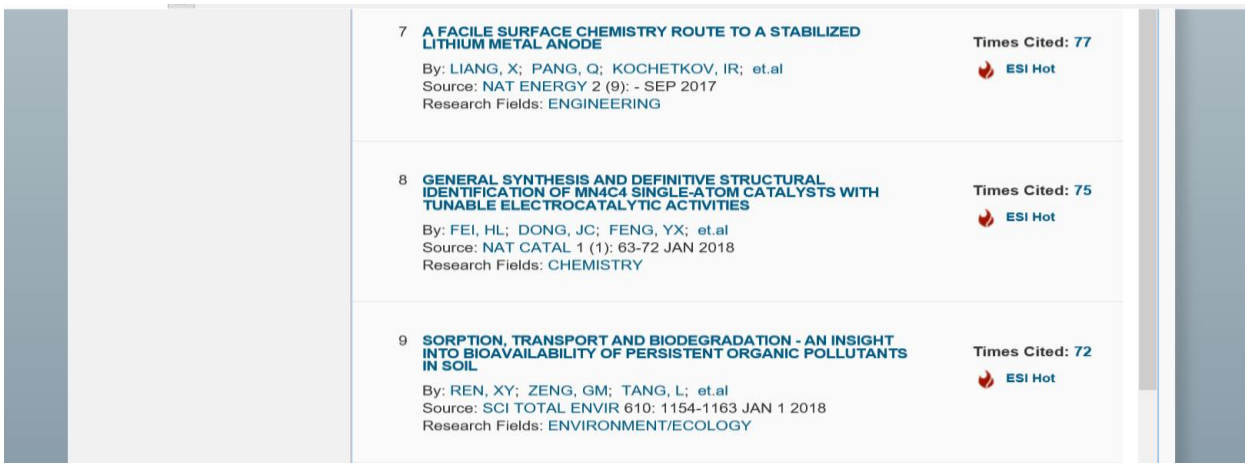
4 HIERARCHICAL CO(OH)F SUPERSTRUCTURE BUILT BY LOW-DIMENSIONAL SUBSTRUCTURES FOR ELECTROCATALYTIC WATER OXIDATION
By: WAN, S; QI, J; ZHANG, W; et.al
Source: ADVAN MATER 29 (28): - JUL 26 2017
Research Fields: MATERIALS SCIENCE
Times Cited: 85
ESI Hot
5 HIGHLY POROUS CARBON NITRIDE BY SUPRAMOLECULAR PREASSEMBLY OF MONOMERS FOR PHOTOCATALYTIC REMOVAL OF SULFAMETHAZINE UNDER VISIBLE LIGHT DRIVEN
By: ZHOU, CY; LAI, C; HUANG, DL; et.al
Source: APPL CATAL B-ENVIRON 220: 202-210 JAN 2018
Research Fields: CHEMISTRY
Times Cited: 83
ESI Hot
6 PRECIPITATION, ADSORPTION AND RHIZOSPHERE EFFECT: THE MECHANISMS FOR PHOSPHATE-INDUCED PB IMMOBILIZATION IN SOILS-A REVIEW
By: ZENG, GM; WAN, J; HUANG, DL; et.al
Source: J HAZARD MATER 339: 354-367 OCT 5 2017
Research Fields: ENGINEERING
Times Cited: 79
ESI Hot


7 A FACILE SURFACE CHEMISTRY ROUTE TO A STABILIZED LITHIUM METAL ANODE
By: LIANG, X; PANG, Q; KOCHETKOV, IR; et.al
Source: NAT ENERGY 2 (9): - SEP 2017
Research Fields: ENGINEERING
Times Cited: 77
ESI Hot
8 GENERAL SYNTHESIS AND DEFINITIVE STRUCTURAL IDENTIFICATION OF MN4C4 SINGLE-ATOM CATALYSTS WITH TUNABLE ELECTROCATALYTIC ACTIVITIES
By: FEI, HL; DONG, JC; FENG, YX; et.al
Source: NAT CATAL 1 (1): 63-72 JAN 2018
Research Fields: CHEMISTRY
Times Cited: 75
ESI Hot
9 SORPTION, TRANSPORT AND BIODEGRADATION - AN INSIGHT INTO BIOAVAILABILITY OF PERSISTENT ORGANIC POLLUTANTS IN SOIL
By: REN, XY; ZENG, GM; TANG, L; et.al
Source: SCI TOTAL ENVIR 610: 1154-1163 JAN 1 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 72
ESI Hot

10 **IN SITU GROWN AGL/BI12O17CL2 HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE LIGHT DEGRADATION OF SULFAMETHAZINE: EFFICIENCY, PATHWAY, AND MECHANISM**

By: ZHOU, CY; LAI, C; XU, P; et.al
Source: ACS SUSTAIN CHEM ENG 6 (3): 4174-4184 MAR 2018
Research Fields: CHEMISTRY

Times Cited: 53
ESI Hot

11 **MODIFICATION OF BIOCHAR DERIVED FROM SAWDUST AND ITS APPLICATION IN REMOVAL OF TETRACYCLINE AND COPPER FROM AQUEOUS SOLUTION: ADSORPTION MECHANISM AND MODELLING**

By: ZHOU, YY; LIU, XC; XIANG, YJ; et.al
Source: BIORESOURCE TECHNOL 245: 266-273 PART A DEC 2017
Research Fields: BIOLOGY & BIOCHEMISTRY

Times Cited: 51
ESI Hot

12 **APPROACHING THE SCHOTTKY-MOTT LIMIT IN VAN DER WAALS METAL-SEMICONDUCTOR JUNCTIONS**

By: LIU, Y; GUO, J; ZHU, EB; et.al
Source: NATURE 557 (7707): 696-+ MAY 31 2018
Research Fields: MATERIALS SCIENCE

Times Cited: 37
ESI Hot

13 **NANOSCALE ZERO-VALENT IRON COATED WITH RHAMNOLIPID AS AN EFFECTIVE STABILIZER FOR IMMOBILIZATION OF CD AND PB IN RIVER SEDIMENTS**

By: XUE, WJ; HUANG, DL; ZENG, GM; et.al
Source: J HAZARD MATER 341: 381-389 JAN 5 2018
Research Fields: ENGINEERING

Times Cited: 31
ESI Hot

14 **PLASMONICALLY INDUCED TRANSPARENCY IN DOUBLE-LAYERED GRAPHENE NANORIBBONS**

By: XIA, SX; ZHAI, X; WANG, LL; et.al
Source: PHOTONICS RES 6 (7): 692-702 JUL 1 2018
Research Fields: PHYSICS

Times Cited: 30
ESI Hot

15 **ADSORPTION OF TETRACYCLINE ANTIBIOTICS FROM AQUEOUS SOLUTIONS ON NANOCOMPOSITE MULTI-WALLED CARBON NANOTUBE FUNCTIONALIZED MIL-53 (FE) AS NEW ADSORBENT**

By: XIONG, WP; ZENG, GM; YANG, ZH; et.al
Source: SCI TOTAL ENVIR 627: 235-244 JUN 15 2018
Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 29
ESI Hot

16 **ULTRASOUND-PROMOTED BRONSTED ACID IONIC LIQUID-CATALYZED HYDROTHIOCYANATION OF ACTIVATED ALKYNES UNDER MINIMAL SOLVENT CONDITIONS**

By: WU, C; LU, LH; PENG, AZ; et.al
Source: GREEN CHEM 20 (16): - AUG 21 2018
Research Fields: CHEMISTRY

Times Cited: 27
ESI Hot

17 **EFFECT OF EXOGENOUS CARBONACEOUS MATERIALS ON THE BIOAVAILABILITY OF ORGANIC POLLUTANTS AND THEIR ECOLOGICAL RISKS**

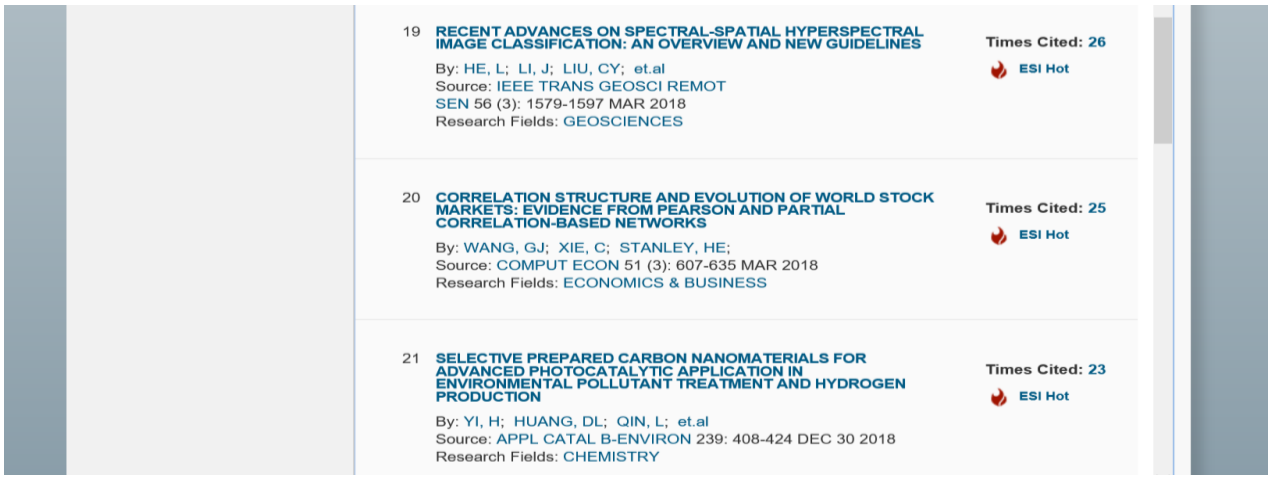
By: REN, XY; ZENG, GM; TANG, L; et.al
Source: SOIL BIOL BIOCHEM 116: 70-81 JAN 2018
Research Fields: AGRICULTURAL SCIENCES

Times Cited: 27
ESI Hot

18 **GOLD RUSH IN MODERN SCIENCE: FABRICATION STRATEGIES AND TYPICAL ADVANCED APPLICATIONS OF GOLD NANOPARTICLES IN SENSING**

By: QIN, L; ZENG, GM; LAI, C; et.al
Source: COORD CHEM REV 359: 1-31 MAR 15 2018
Research Fields: CHEMISTRY

Times Cited: 26
ESI Hot



19 RECENT ADVANCES ON SPECTRAL-SPATIAL HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW AND NEW GUIDELINES
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: 26
ESI Hot

20 CORRELATION STRUCTURE AND EVOLUTION OF WORLD STOCK MARKETS: EVIDENCE FROM PEARSON AND PARTIAL CORRELATION-BASED NETWORKS
By: WANG, GJ; XIE, C; STANLEY, HE;
Source: COMPUT ECON 51 (3): 607-635 MAR 2018
Research Fields: ECONOMICS & BUSINESS
Times Cited: 25
ESI Hot

21 SELECTIVE PREPARED CARBON NANOMATERIALS FOR ADVANCED PHOTOCATALYTIC APPLICATION IN ENVIRONMENTAL POLLUTANT TREATMENT AND HYDROGEN PRODUCTION
By: YI, H; HUANG, DL; QIN, L; et.al
Source: APPL CATAL B-ENVIRON 239: 408-424 DEC 30 2018
Research Fields: CHEMISTRY
Times Cited: 23
ESI Hot

22 CONSTRUCTION OF AN ALL-SOLID-STATE Z-SCHEME PHOTOCATALYST BASED ON GRAPHITE CARBON NITRIDE AND ITS ENHANCEMENT TO CATALYTIC ACTIVITY
By: JIANG, LB; YUAN, XZ; ZENG, GM; et.al
Source: ENVIRON-SCI NANO 5 (3): 599-615 MAR 1 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 23
ESI Hot

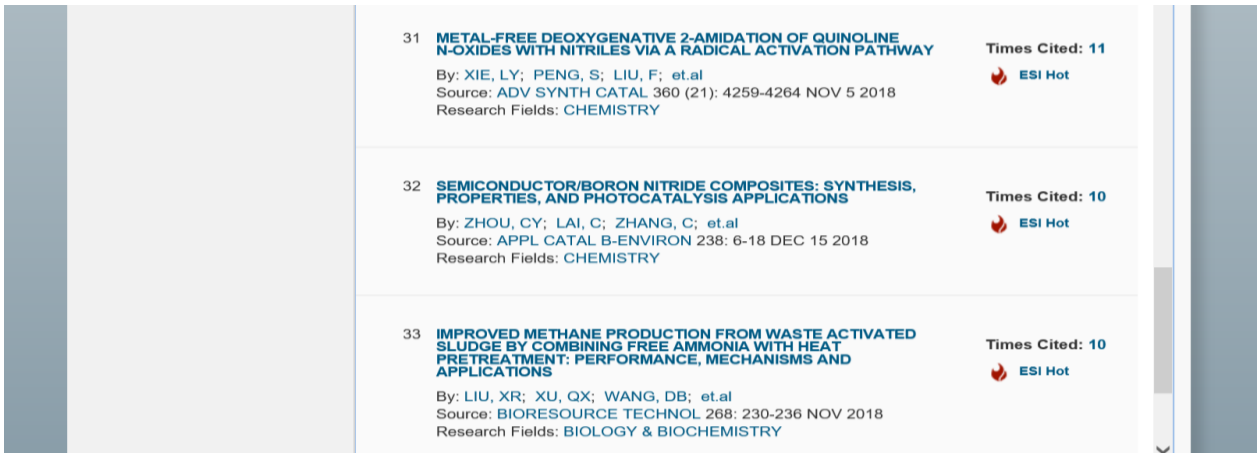
23 EFFICIENT DEGRADATION OF SULFAMETHAZINE IN SIMULATED AND REAL WASTEWATER AT SLIGHTLY BASIC PH VALUES USING CO-SAM-SCS /H2O2 FENTON-LIKE SYSTEM
By: CHENG, M; ZENG, GM; HUANG, DL; et.al
Source: WATER RES 138: 7-18 JUL 1 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 21
ESI Hot

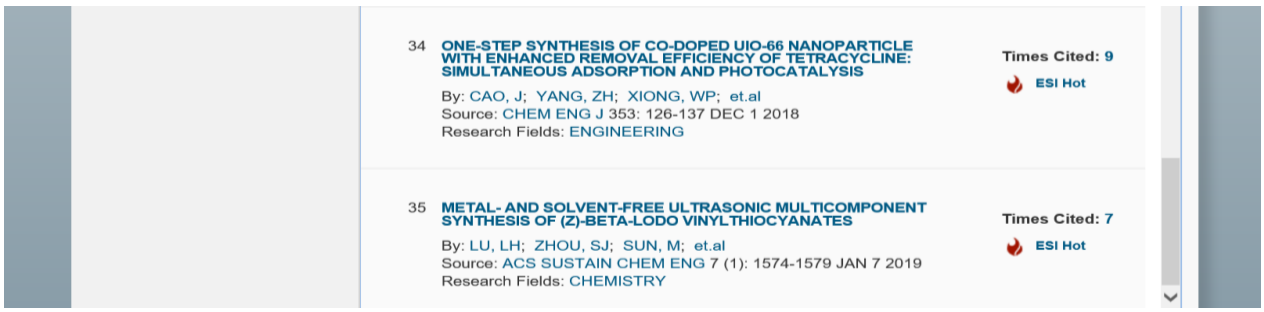
24 CONSTRUCTION OF IODINE VACANCY-RICH BIOI/AG@AGI Z-SCHEME HETEROJUNCTION PHOTOCATALYSTS FOR VISIBLE-LIGHT-DRIVEN TETRACYCLINE DEGRADATION: TRANSFORMATION PATHWAYS AND MECHANISM INSIGHT
By: YANG, Y; ZENG, ZT; ZHANG, C; et.al
Source: CHEM ENG J 349: 808-821 OCT 1 2018
Research Fields: ENGINEERING
Times Cited: 19
ESI Hot

25 BIOSORPTION OF CD(II) FROM SYNTHETIC WASTEWATER USING DRY BIOFILMS FROM BIOTRICKLING FILTERS
By: HE, HJ; XIANG, ZH; CHEN, XJ; et.al
Source: INT J ENVIRON SCI TECHNOL 15 (7): 1491-1500 JUL 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 18
ESI Hot

26 INSIGHT INTO ELECTRO-FENTON AND PHOTO-FENTON FOR THE DEGRADATION OF ANTIBIOTICS: MECHANISM STUDY AND RESEARCH GAPS
By: LIU, XC; ZHOU, YY; ZHANG, JC; et.al
Source: CHEM ENG J 347: 379-397 SEP 1 2018
Research Fields: ENGINEERING
Times Cited: 15
ESI Hot

27 VISIBLE-LIGHT-DRIVEN REMOVAL OF TETRACYCLINE ANTIBIOTICS AND RECLAMATION OF HYDROGEN ENERGY FROM NATURAL WATER MATRICES AND WASTEWATER BY POLYMERIC CARBON NITRIDE FOAM
By: WANG, H; WU, Y; FENG, MB; et.al
Source: WATER RES 144: 215-225 NOV 1 2018
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 13
ESI Hot





以上 35 篇 Hot Paper 中 有 20 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 5 次上榜)**
2) **Chengyun Zhou, Cui Lai, Danlian Huang*, Guangming Zeng*, Chen Zhang, Min Cheng, Liang Hu, Jia Wan, Weiping Xiong, Ming Wen, Xiaofeng Wen, Lei Qin.Highly porous carbon nitride by supramolecular preassembly of monomers for photocatalytic removal of sulfamethazine under visible**

light driven.Applied Catalysis B: Environmental(SCI 2017 IF=11.69). 2018. 220:202-210(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 4 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 and Research Front, ESI Hot Paper 第 4 次上榜)

4) 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 5 次上榜)

5) Zhou Chengyun, Lai Cui,Xu Piao,Zeng Guangming*,Huang Danlian*,Zhang Chen,Cheng Min,Hu Liang,Wan Jia,Liu Yang,Xiong Weiping.Deng Yaocheng,Wen Ming. In Situ Grown AgI/Bi12O17Cl2 Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway and Mechanism. ACS Sustainable Chemistry & Engineering(SCI 2017 IF=6.140).2018.6:4174-4184 (ESI Highly Cited Paper and ESI Hot Paper ，ESI Hot Paper 第 3 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(SCI 2017 IF=5.807).2017.245:266-273(ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 3 次上榜,环境学院汤琳教授与湖南农大的合作成果)

7) Wenjing Xue, Danlian Huang*, Guangming Zeng*, Jia Wan, Chen Zhang, Rui Xu, Min Cheng, Rui Deng. Nanoscale zero-valent iron coated with rhamnolipid as an effectivestabilizer for immobilization of Cd and Pb in river sediments. Journal of Hazardous Materials(SCI 2017 IF=6.434). 2018. 341 :381–389(ESI Hot Paper and ESI Highly Cited Paper and Research Front ，ESI Hot Paper 第 1 次上榜)

8) Weiping Xiong, Guangming Zeng*, Zhaohui Yang*, Yaoyu Zhou, Chen Zhang, Min Cheng, Yang Liu, Liang Hu, Jia Wan, Chengyun Zhou, Rui Xu, Xin Li.Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent.Science of the Total Environment （SCI 2017 IF=4.610，中科院 2 区，JCR 1 区）.2018.627:235-244(ESI Hot Paper and ESI Highly Cited Paper，ESI Hot Paper 第 2 次上榜)

9) Xiaoya Ren, Guangming Zeng*, Lin Tang*, Jingjing Wang, Jia Wan, Haopeng Feng,Biao Song, Chao Huang, Xian Tang.Effect of exogenous carbonaceous materials on the bioavailability of organic pollutants and their ecological risks.Soil Biology & Biochemistry（SCI 2017 IF=4.926，在土壤科学界，该刊物是双一区且排名第一的期刊).2018.116:70-81 (ESI Highly Cited Paper and ESI Highly Hot Paper，ESI Hot Paper 第 3 次上榜)

10) Lei Qin, Guangming Zeng*, Cui Lai*, Danlian Huang, Piao Xu, Chen Zhang, Min Cheng, Xigui Liu, Liu Shiyu, Bisheng Li, Huan Yi. “Gold Rush” in Modern Science: Fabrication Strategies and Typical Advanced Applications of Gold Nanoparticles in Sensing. Coordination Chemistry Reviews(SCI 2017 IF=14.499).2018.359:1-31(本期论文首篇论文) (ESI Hot Paper and ESI Highly Cited Paper and Research Front ，ESI Hot Paper 第 1 次上榜)

11) Huan Yi1, Danlian Huang1, Lei Qin1, Guangming Zeng*, Cui Lai*, Min Cheng, Shujing Ye, Biao Song, Xiaoya Ren, Xueying Guo.Selective Prepared Carbon Nanomaterials for Advanced Photocatalytic Application in Environmental Pollutant Treatment and Hydrogen Production. Applied Catalysis B: Environmental(SCI 2017 IF=11.69). 2018.239:408-424(ESI Hot Paper ，ESI Hot Paper 第 2 次上榜)

12) Longbo Jiang, Xingzhong Yuan∗, Guangming Zeng, Jie Liang∗, Zhibin Wu, Hou Wang.Construction of an all-solid-state Z-scheme photocatalyst based on graphite carbon nitride and its enhancement to catalytic activity . Environmental Science-Nano(SCI 2017 IF=6.087).2018.5:599–615 (ESI Hot Paper and ESI Highly Cited Paper and Research Front，ESI Hot Paper 第 1 次上榜)
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14) Yang Yang1, Zhuotong Zeng1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Rong Xiao*, Cui Laia, Chengyun Zhou, Hai Guo, Wenjing Xue, Min Cheng, Wenjun Wang, Jiajia Wang.Construction of iodine vacancy-rich BiOI/Ag@AgI Z-scheme heterojunction photocatalysts for visible-light-driven tetracycline degradation: transformation pathways and mechanism insight.Chemical Engineering Journal(SCI 2017 IF=6.735). 2018. 349：808-821(ESI Hot Paper，ESI Hot Paper 第 1 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)
15) He HJ1, Xiang ZH1, Chen XJ1, Chen H, Huang H, Wen M, Yang CP*. Biosorption of Cd(II) from synthetic wastewater using dry biofilms from biotrickling filters. International Journal of Environmental Science and Technology (SCI 2017 IF=2.037). 2018,.15(7): 1491-1500(ESI Highly Cited Paper and ESI Hot Paper，ESI Hot Paper 第 1 次上榜)
16) Liu Xiaocheng, Zhou Yaoyu∗, Zhang Jiachao, Luo Lin, Yang Yuan, Huang Hongli, Peng Hui, Tang Lin, Mu Yang. Insight into electro-Fenton and photo-Fenton for the degradation of antibiotics: Mechanism study and research gaps. CHEMICAL ENGINEERING JOURNAL.2018.347: 379-397(ESI Hot Paper，ESI Hot Paper 第 1 次上榜,环境学院汤琳教授与湖南农大的合作成果)
17) Wang Hou, Wu Yan, Feng Mingbao, Tu Wenguang, Xiao Tong, Xiong Ting, Ang Huixiang, Yuan Xingzhong, Chew Jia Wei∗. Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. Water Research(SCI 2017 IF=7.051).2018.144: 215-225(ESI Hot Paper，ESI Hot Paper 第 1 次上榜,王侯助理教授与新加坡南洋理工的合作成果)
18) Zhou Chengyun, Lai Cui,Xu Piao,Zeng Guangming*,Huang Danlian*,Zhang Chen,Cheng Min,Hu Liang,Wan Jia,Liu Yang,Xiong Weiping.Deng Yaocheng,Wen Ming. In Situ Grown AgI/Bi12O17Cl2 Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway and Mechanism. ACS Sustainable Chemistry & Engineering(SCI 2017 IF=6.140).2018.6:4174-4184 (ESI Highly Cited Paper and ESI Hot Paper ，ESI Hot Paper 第 3 次上榜)
19) Xuran Liu, Qiuxiang Xu, Dongbo Wang∗, Jianwei Zhao, Yanxin Wu, Yiwen Liu,Bing-Jie Ni, Qilin Wang, Guangming Zeng, Xiaoming Li, Qi Yang. Improved methane production from waste activated sludge by combining free ammonia with heat pretreatment: Performance, mechanisms and Applications. Bioresource Technology(SCI 2017 IF=5.807).2018. 268: 230 – 236(ESI Hot Paper, ESI Hot Paper 第 1 次上榜)
20) Cao Jiao, Yang Zhao-hui∗, Xiong Wei-ping, Zhou Yao-yu, Peng Yan-rong, Li Xin, Zhou Cheng-yun, Xu Rui, Zhang Yan-ru. One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. Chemical Engineering Journal(SCI 2017 IF=6.735) .2018. 353 : 126-137(ESI Hot Paper, ESI Hot Paper 第 1 次上榜)