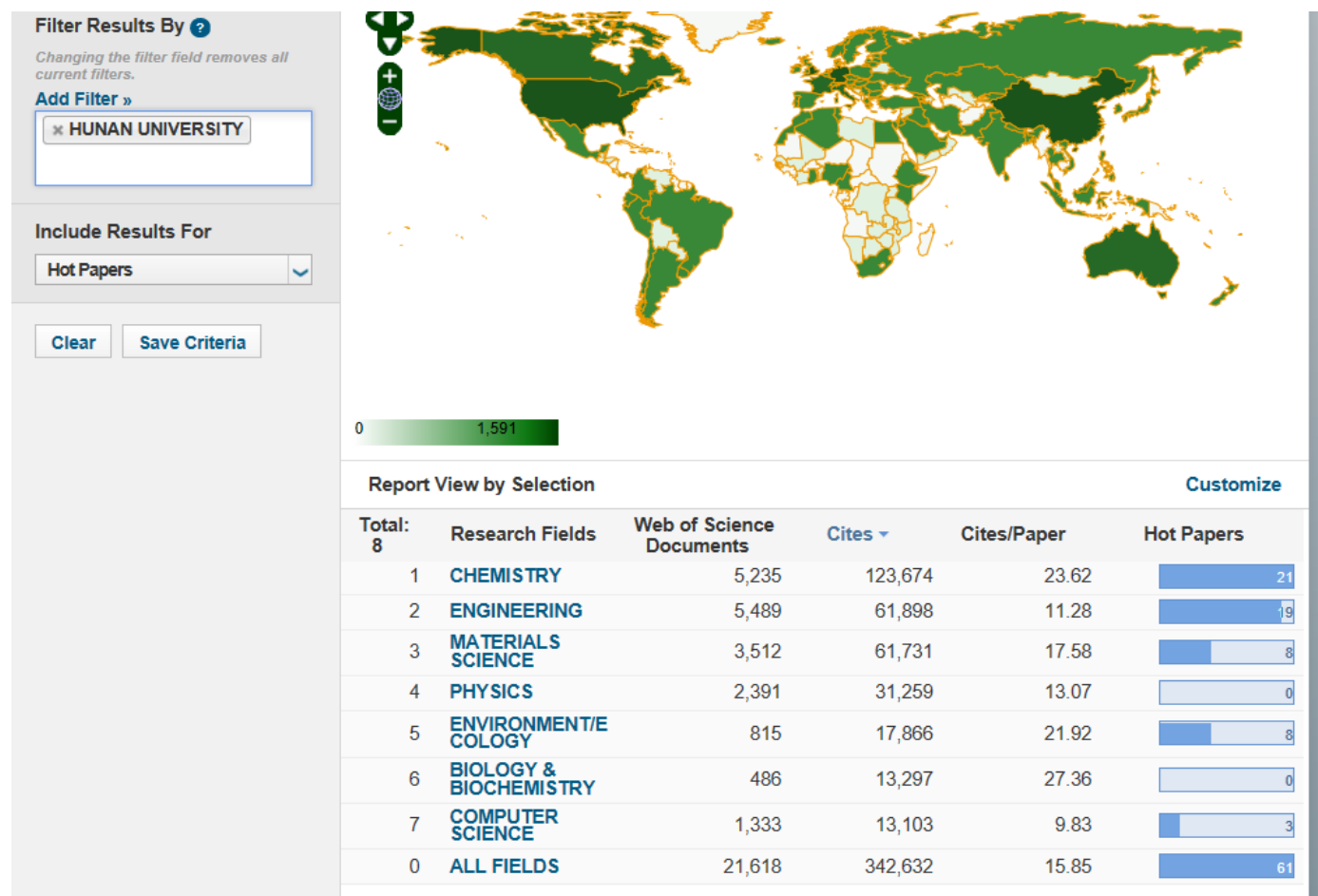


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| 2 | BORON-DOPED GRAPHENE FOR ELECTROCATALYTIC N ₂ REDUCTION | By: YU, XM; HAN, P; WEI, ZX; et al Source: JOULE 2 (8): 1610-1622 AUG 15 2018 Research Fields: ENGINEERING | Times Cited: 145 | ESI Hot | |
| 3 | RECENT PROGRESSES IN SMALL-MOLECULE ENZYMATIC 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: 133 | ESI Hot | Research Front |
| 4 | BORON NITRIDE QUANTUM DOTS DECORATED ULTRATHIN POROUS G-C ₃ N ₄ : 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: 123 | ESI Hot | Research Front |

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| | 6 | 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: 106 ESI Hot Research Front |
| | 7 | 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: 105 ESI Hot Research Front |
| | 8 | SYNERGISTIC EFFECT OF ARTIFICIAL ENZYME AND 2D NANO-STRUCTURED Bi2WO6 FOR ECO-FRIENDLY AND EFFICIENT BIOMIMETIC PHOTOCATALYSIS By: YI, H; YAN, M; HUANG, DL; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 250: 52-62 AUG 5 2019 Research Fields: CHEMISTRY | Times Cited: 103 ESI Hot Research Front |
| | 9 | RECENT PROGRESS IN COVALENT ORGANIC FRAMEWORK THIN FILMS: FABRICATIONS, APPLICATIONS AND PERSPECTIVES By: WANG, H; ZENG, ZT; XU, P; et.al Source: CHEMICAL SOCIETY REVIEWS 48 (2): 488-516 JAN 21 2019 Research Fields: CHEMISTRY | Times Cited: 101 ESI Hot |
| | 10 | FACILE ASSEMBLED BIOCHAR-BASED NANOCOMPOSITE WITH IMPROVED GRAPHITIZATION FOR EFFICIENT PHOTOCATALYTIC ACTIVITY DRIVEN BY VISIBLE LIGHT By: YE, SJ; YAN, M; TAN, XF; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 250: 78-88 AUG 5 2019 Research Fields: CHEMISTRY | Times Cited: 94 ESI Hot Research Front |
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| | 12 | ENHANCED ACTIVATION PROCESS OF PERSULFATE BY MESOPOROUS CARBON FOR DEGRADATION OF AQUEOUS ORGANIC POLLUTANTS: ELECTRON TRANSFER MECHANISM By: TANG, L; LIU, YI; WANG, JJ; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 231: 1-10 SEP 5 2018 Research Fields: CHEMISTRY | Times Cited: 88 ESI Hot |
| | 13 | A REVIEW OF THE HYDROTHERMAL CARBONIZATION OF BIOMASS WASTE FOR HYDROCHAR FORMATION: PROCESS CONDITIONS, FUNDAMENTALS, AND PHYSICO-CHEMICAL PROPERTIES By: WANG, TF; ZHAI, YB; ZHU, Y; et.al Source: RENEWABLE & SUSTAINABLE ENERGY REVIEWS 90: 223-247 JUL 2018 Research Fields: ENGINEERING | Times Cited: 87 ESI Hot |
| | 14 | STRONG ELECTRONIC INTERACTION IN DUAL-CATION-INCORPORATED NiSe2 NANOSHEETS WITH LATTICE DISTORTION FOR HIGHLY EFFICIENT OVERALL WATER SPLITTING By: SUN, YQ; XU, K; WEI, ZX; et.al Source: ADVANCED MATERIALS 30 (35): - AUG 29 2018 Research Fields: MATERIALS SCIENCE | Times Cited: 84 ESI Hot |
| | 15 | 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: 80 ESI Hot Research Front |
| | 16 | VAN DER WAALS INTEGRATION BEFORE AND BEYOND TWO-DIMENSIONAL MATERIALS By: LIU, Y; HUANG, Y; DUAN, XF; Source: NATURE 567 (7748): 323-333 MAR 21 2019 Research Fields: MATERIALS SCIENCE | Times Cited: 78 ESI Hot |

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| 17 | 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: 77 ESI Hot Research Front |
| 18 | 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: CHEMICAL ENGINEERING JOURNAL 358: 891-902 FEB 15 2019 Research Fields: ENGINEERING | Times Cited: 71 ESI Hot |
| 19 | FEATURE SELECTION IN MACHINE LEARNING: A NEW PERSPECTIVE By: CAI, J; LUO, JW; WANG, SL; et.al Source: NEUROCOMPUTING 300: 70-79 JUL 26 2018 Research Fields: COMPUTER SCIENCE | Times Cited: 68 ESI Hot Research Front |
| 20 | HIERARCHICAL 3D ELECTRODES FOR ELECTROCHEMICAL ENERGY STORAGE By: SUN, HT; ZHU, J; BAUMANN, D; et.al Source: NATURE REVIEWS MATERIALS 4 (1): 45-60 JAN 2019 Research Fields: MATERIALS SCIENCE | Times Cited: 68 ESI Hot |

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CHARACTERISTICS OF STEEL SLAGS AND THEIR USE IN CEMENT AND CONCRETE-A REVIEW

By: JIANG, Y; LING, TC; SHI, CJ; et.al
Source: RESOURCES CONSERVATION AND RECYCLING 136: 187-197 SEP 2018
Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 67

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22

A CRITICAL REVIEW OF CATHODES FOR RECHARGEABLE MG BATTERIES

By: MAO, ML; GAO, T; HOU, SY; et.al
Source: CHEMICAL SOCIETY REVIEWS 47 (23): 8804-8841 DEC 7 2018
Research Fields: CHEMISTRY

Times Cited: 65

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INDIVIDUAL DIFFERENCE IN THERMAL COMFORT: A LITERATURE REVIEW

By: WANG, Z; DE DEAR, R; LUO, MH; et.al
Source: BUILDING AND ENVIRONMENT 138: 181-193 JUN 15 2018
Research Fields: ENGINEERING

Times Cited: 60

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24

ADVANCED PHOTOCATALYTIC FENTON-LIKE PROCESS OVER BIOMIMETIC HEMIN-BIZWO6 WITH ENHANCED PH

By: YI, H; JIANG, M; HUANG, DL; et.al
Source: JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS 93: 184-192 DEC 2018
Research Fields: CHEMISTRY

Times Cited: 59

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THE APPLICATION OF DIFFERENT TYPOLOGICAL AND STRUCTURAL MOFS-BASED MATERIALS FOR THE DYES ADSORPTION

By: JIANG, DN; CHEN, M; WANG, H; et.al
Source: COORDINATION CHEMISTRY REVIEWS 380: 471-483 FEB 1 2019
Research Fields: CHEMISTRY

Times Cited: 49

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26

GRAPHITE ANODE FOR A POTASSIUM-ION BATTERY WITH UNPRECEDENTED PERFORMANCE

By: FAN, L; MA, RF; ZHANG, QF; et.al
Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 58 (31): 10500-10505 JUL 29 2019
Research Fields: CHEMISTRY

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| 27 | 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 RESEARCH 148: 239-249 JAN 1 2019 Research Fields: ENVIRONMENT/ECOLOGY | Times Cited: 46 ESI Hot Research Front |
| 28 | EFFICIENT METAL-FREE ELECTROCATALYSTS FROM N-DOPED CARBON NANOMATERIALS: MONO-DOPING AND CO-DOPING By: GAO, K; WANG, B; TAO, L; et.al Source: ADVANCED MATERIALS 31 (13): - MAR 27 2019 Research Fields: MATERIALS SCIENCE | Times Cited: 46 ESI Hot |
| 29 | LARGE-AREA GRAPHENE-NANOMESH/CARBON-NANOTUBE HYBRID MEMBRANES FOR IONIC AND MOLECULAR NANOFILTRATION By: YANG, YB; YANG, XD; LIANG, L; et.al Source: SCIENCE 364 (6445): 1057-+ SP. ISS. SI JUN 14 2019 Research Fields: MATERIALS SCIENCE | Times Cited: 45 ESI Hot |
| 30 | EFFICIENT REMOVAL OF CD₂⁺ AND PB₂⁺ FROM AQUEOUS SOLUTION WITH AMINOAND THIOL-FUNCTIONALIZED ACTIVATED CARBON: ISOTHERM AND KINETICS MODELING By: TANG, N; NIU, CG; LI, XT; et.al Source: SCIENCE OF THE TOTAL ENVIRONMENT 635: 1331-1344 SEP 1 2018 Research Fields: ENVIRONMENT/ECOLOGY | Times Cited: 43 ESI Hot |

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| | 33 | <p>TRACE DOPING OF MULTIPLE ELEMENTS ENABLES STABLE BATTERY CYCLING OF LICOO₂ AT 4.6V</p> <p>By: ZHANG, JN; LI, QH; OUYANG, CY; et.al</p> <p>Source: NATURE ENERGY 4 (7): 594-603 JUL 2019</p> <p>Research Fields: ENGINEERING</p> | <div>Times Cited: 38</div> <div>ESI Hot</div> <div>Research Front</div> |
| | 34 | <p>RATIONAL DESIGN 2D/2D BIOBR/CDS/G-C₃N₄ Z-SCHEME HETEROJUNCTION PHOTOCATALYST WITH CARBON DOTS AS SOLID-STATE ELECTRON MEDIATORS FOR ENHANCED VISIBLE AND NIR PHOTOCATALYTIC ACTIVITY: KINETICS, INTERMEDIATES, AND MECHANISM INSIGHT</p> <p>By: ZHANG, MM; LAI, C; LI, BS; et.al</p> <p>Source: JOURNAL OF CATALYSIS 369: 469-481 JAN 2019</p> <p>Research Fields: CHEMISTRY</p> | <div>Times Cited: 34</div> <div>ESI Hot</div> <div>Research Front</div> |
| | 35 | <p>A NOVEL DOUBLE Z-SCHEME PHOTOCATALYST AG₃PO₄/BI₂S₃/BI₂O₃ WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC PERFORMANCE FOR ANTIBIOTIC DEGRADATION</p> <p>By: SHAO, BB; LIU, XJ; LIU, Z; et.al</p> <p>Source: CHEMICAL ENGINEERING JOURNAL 368: 730-745 JUL 15 2019</p> <p>Research Fields: ENGINEERING</p> | <div>Times Cited: 34</div> <div>ESI Hot</div> <div>Research Front</div> |
| | 36 | <p>WHEN AN ATTACKER MEETS A CIPHER-IMAGE IN 2018: A YEAR IN REVIEW</p> <p>By: LI, CQ; ZHANG, Y; XIE, EY;</p> <p>Source: JOURNAL OF INFORMATION SECURITY AND APPLICATIONS 48: - OCT 2019</p> <p>Research Fields: COMPUTER SCIENCE</p> | <div>Times Cited: 32</div> <div>ESI Hot</div> |
| | 37 | <p>POROUS BOWL-SHAPED VS₂ NANOSHEET/SGRAPHENE COMPOSITE FOR HIGH-RATE LITHIUM-ION STORAGE</p> <p>By: WU, DX; WANG, CY; WU, MG; et.al</p> <p>Source: JOURNAL OF ENERGY CHEMISTRY 43: 24-32 APR 2020</p> <p>Research Fields: CHEMISTRY</p> | <div>Times Cited: 29</div> <div>ESI Hot</div> <div>Research Front</div> |
| | 38 | <p>Ti₃C₂ MXENE/POROUS G-C₃N₄ INTERFACIAL SCHOTTKY JUNCTION FOR BOOSTING SPATIAL CHARGE SEPARATION IN PHOTOCATALYTIC H₂O₂ PRODUCTION</p> <p>By: YANG, Y; ZENG, ZT; ZENG, GM; et.al</p> <p>Source: APPLIED CATALYSIS B-ENVIRONMENTAL 258: - DEC 5 2019</p> <p>Research Fields: CHEMISTRY</p> | <div>Times Cited: 28</div> <div>ESI Hot</div> <div>Research Front</div> |
| | 39 | <p>CARBON FOAM WITH MICROPOROUS STRUCTURE FOR HIGH PERFORMANCE SYMMETRIC POTASSIUM DUAL-ION CAPACITOR</p> <p>By: FENG, YH; CHEN, SH; WANG, J; et.al</p> <p>Source: JOURNAL OF ENERGY CHEMISTRY 43: 129-138 APR 2020</p> <p>Research Fields: CHEMISTRY</p> | <div>Times Cited: 27</div> <div>ESI Hot</div> <div>Research Front</div> |
| | 40 | <p>DEGRADATION OF NAPHTHALENE WITH MAGNETIC BIO-CHAR ACTIVATE HYDROGEN PEROXIDE: SYNERGISM OF BIO-CHAR AND FE-MN BINARY OXIDES</p> <p>By: LI, L; LAI, C; HUANG, FL; et.al</p> <p>Source: WATER RESEARCH 160: 238-248 SEP 1 2019</p> <p>Research Fields: ENVIRONMENT/ECOLOGY</p> | <div>Times Cited: 26</div> <div>ESI Hot</div> <div>Research Front</div> |

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By: XUE, WJ; HUANG, DL; LI, J; et.al

Source: CHEMICAL ENGINEERING JOURNAL 373: 1144-1157 OCT 1 2019

Research Fields: ENGINEERING

Times Cited: 17

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VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC DEGRADATION OF SULFAMETHAZINE BY SURFACE ENGINEERING OF CARBON NITRIDE : PROPERTIES, DEGRADATION PATHWAY AND MECHANISMS

By: ZHOU, CY; ZENG, ZT; ZENG, GM; et.al

Source: JOURNAL OF HAZARDOUS MATERIALS 380: - DEC 15 2019

Research Fields: ENGINEERING

Times Cited: 14

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PROGRESS ON IRON OXIDES AND CHALCOGENIDES AS ANODES FOR SODIUM-ION BATTERIES

By: QI, SH; XU, BL; TIONG, VT; et.al

Source: CHEMICAL ENGINEERING JOURNAL 379: - JAN 1 2020

Research Fields: ENGINEERING

Times Cited: 14

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2020 ROADMAP ON TWO-DIMENSIONAL MATERIALS FOR ENERGY STORAGE AND CONVERSION

By: XU, BL; QI, SH; JIN, MM; et.al

Source: CHINESE CHEMICAL LETTERS 30 (12): 2053-2064 DEC 2019

Research Fields: CHEMISTRY

Times Cited: 14

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INSIGHT INTO THE DESIGN OF DEFECT ELECTROCATALYSTS: FROM ELECTRONIC STRUCTURE TO ADSORPTION ENERGY

By: XIE, C; YAN, DF; CHEN, W; et.al

Source: MATERIALS TODAY 31: 47-68 DEC 2019

Research Fields: MATERIALS SCIENCE

Times Cited: 14

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56

A NEW PAYLOAD PARTITION STRATEGY IN COLOR IMAGE STEGANOGRAPHY

By: LIAO, X; YU, YB; LI, B; et.al

Source: IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY 30 (3): 685-696 MAR 2020


Research Fields: ENGINEERING

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| 57 | SYNTHESIS AND APPLICATION OF MODIFIED COMMERCIAL SPONGES FOR OIL-WATER SEPARATION By: PENG, M; ZHU, Y; LI, H; et al Source: CHEMICAL ENGINEERING JOURNAL 373: 213-226 OCT 1 2019 Research Fields: ENGINEERING | Times Cited: 13 ESI Hot |
| 58 | EFFECTS ANALYSIS ON DIESEL SOOT CONTINUOUS REGENERATION PERFORMANCE OF A ROTARY MICROWAVE-ASSISTED REGENERATION DIESEL PARTICULATE FILTER By: E, JQ; ZHAO, MY; ZUO, QS; et al Source: FUEL 260: - JAN 15 2020 Research Fields: ENGINEERING | Times Cited: 12 ESI Hot Research Front |
| 59 | NITROGEN DOPED POROUS CARBON AS EXCELLENT DUAL ANODES FOR LI- AND NA-ION BATTERIES By: YAN, ZH; YANG, QW; WANG, QH; et al Source: CHINESE CHEMICAL LETTERS 31 (2): 583-588 FEB 2020 Research Fields: CHEMISTRY | Times Cited: 10 ESI Hot Research Front |
| 60 | HETEROGENEOUS FENTON-LIKE CATALYST FOR TREATMENT OF RHAMNOLIPID-SOLUBILIZED HEXADECANE WASTEWATER By: LIU, Y; CHENG, M; LIU, ZF; et al Source: CHEMOSPHERE 236: - DEC 2019 Research Fields: ENVIRONMENT/ECOLOGY | Times Cited: 9 ESI Hot |

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| Documents | 61 | MECHANISMS UNDERLYING THE PHOTOCATALYTIC DEGRADATION PATHWAY OF CIPROFLOXACIN WITH HETEROGENEOUS TiO2 By: HU, X; HU, XJ; PENG, QQ; et.al Source: CHEMICAL ENGINEERING JOURNAL 380: - JAN 15 2020 Research Fields: ENGINEERING | Times Cited: 7  ESI Hot |
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1) 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 2019 IF=16.683), 2019, 245, 87-99 (ESI Highly Cited Paper and Hot Paper and ESI Research Front, ESI Hot Paper 第 5 次上榜).

2) Dongbo Wang*, Feiyue Jia, Hou Wang*, Fei Chen, Ying Fang, Wenbo Dong, Guangming Zeng, Xiaoming Li, Qi Yang*, Xingzhong Yuan. Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. Journal

of Colloid and Interface Science (SCI 2019 IF=7.489), 519, 2018, 273-284.(ESI Highly Cited Paper and Hot Paper, ESI Hot Paper 第 1 次上榜).

3) 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 2019 IF=8.086), 2019, 140,278-285 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 4 次上榜).

4) Wang Hou¹, Wu Yan¹, 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 2019 IF=9.130), 2018, 144, 215-225(ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 5 次上榜, 王侯助理教授与新加坡南洋理工的合作成果).

5) 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 2019 IF=16.683), 2019, 250, 52-62 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 4 次上榜).

6) Han Wang¹, Zhuotong Zeng¹, Piao Xu¹, Lianshan Li¹, Guangming Zeng*, Rong Xiao*, Zhiyong Tang*, Danlian Huang, Lin Tang, Cui Lai, Danni Jiang, Yang Liu, Huan Yi, Lei Qin, Shujing Ye, Xiaoya Ren, Wangwang Tang. Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. Chemical Society Reviews (SCI 2019 IF=42.846,中科院 JCR 1 区,TOP 期刊), 2019, 48,488-516 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 3 次上榜).

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