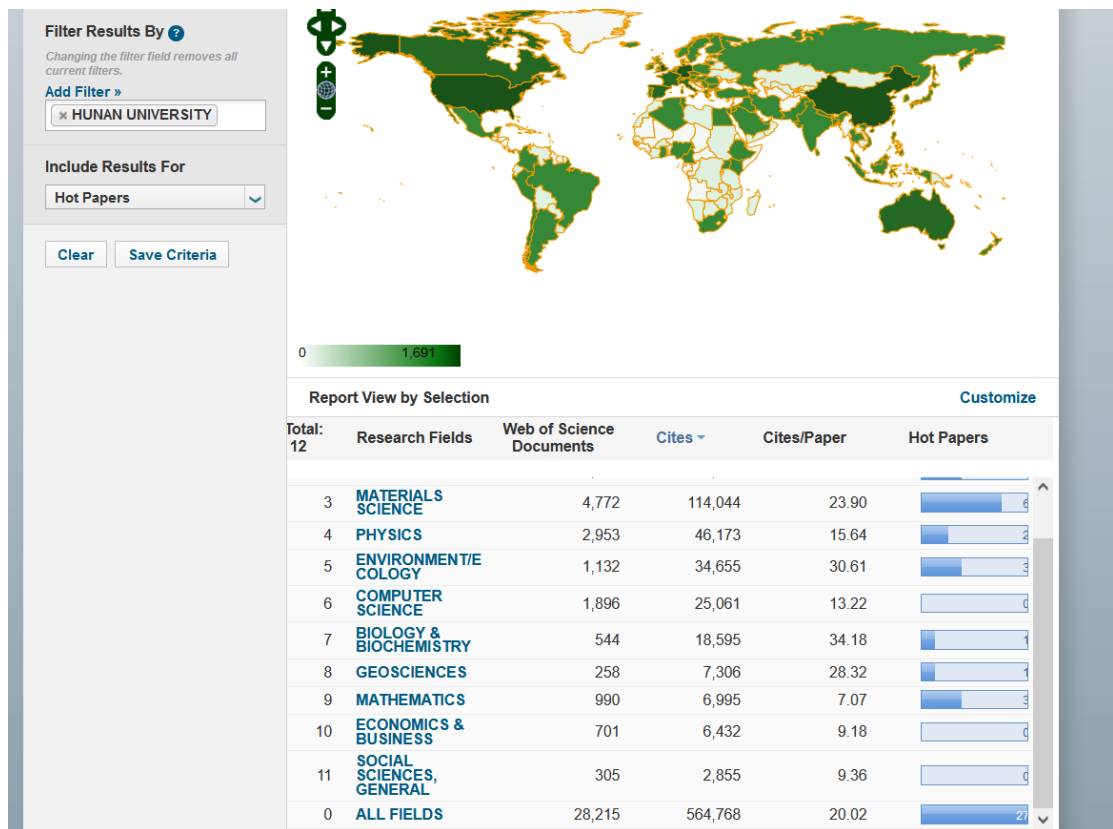


1. Essential Science Indicators for Hot papers for Hunan University on Mar 10, 2022.



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- OPERANDO IDENTIFICATION OF THE DYNAMIC BEHAVIOR OF OXYGEN VACANCY-RICH CO₃O₄ FOR OXYGEN EVOLUTION REACTION**
By: XIAO, ZH; HUANG, YC; DONG, CL; et.al
Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 142 (28): 12087-12095 JUL 15 2020
Research Fields: CHEMISTRY
Times Cited: 143
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- IRON-MEDIATED ACTIVATION OF PERSULFATE AND PEROXYMONOSULFATE IN BOTH HOMOGENEOUS AND HETEROGENEOUS WAYS: A REVIEW**
By: XIAO, S; CHENG, M; ZHONG, H; et.al
Source: CHEMICAL ENGINEERING JOURNAL 384: - MAR 15 2020
Research Fields: ENGINEERING
Times Cited: 138
ESI Hot
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- FUTURE PHYSICS PROGRAMME OF BESIII**
By: ABLIKIM, M; ACHASOV, MN; ADLARSON, P; et.al
Source: CHINESE PHYSICS C 44 (4): - APR 2020
Research Fields: PHYSICS
Times Cited: 124
ESI Hot
- FEATURE EXTRACTION FOR HYPERSPECTRAL IMAGERY: THE EVOLUTION FROM SHALLOW TO DEEP: OVERVIEW AND TOOLBOX**
By: RASTI, B; HONG, DF; HANG, RL; et.al
Source: IEEE GEOSCIENCE AND REMOTE SENSING MAGAZINE 8 (4): 60-88 DEC 2020
Research Fields: GEOSCIENCES
Times Cited: 118
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5

HARMONIZING SELF-SUPPORTIVE VN/MOS2 PSEUDOCAPACITANCE CORE-SHELL ELECTRODES FOR BOOSTING THE AREAL CAPACITY OF LITHIUM STORAGE

By: XIONG, T; SU, H; YANG, F; et.al

Source: MATERIALS TODAY ENERGY 17: - SEP 2020

Research Fields: MATERIALS SCIENCE

Times Cited: 101

ESI Hot

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6

RECENT ADVANCES IN APPLICATION OF GRAPHITIC CARBON NITRIDE-BASED CATALYSTS FOR DEGRADING ORGANIC CONTAMINANTS IN WATER THROUGH ADVANCED OXIDATION PROCESSES BEYOND PHOTOCATALYSIS: A CRITICAL REVIEW

By: YANG, Y; LI, X; ZHOU, CY; et.al

Source: WATER RESEARCH 184: - OCT 1 2020

Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 89

ESI Hot

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7

PHOTOCATALYTIC DEGRADATION OF SULFAMETHAZINE USING A DIRECT Z-SCHEME Ag/Bi4V2O11 PHOTOCATALYST: MINERALIZATION ACTIVITY, DEGRADATION PATHWAYS AND PROMOTED CHARGE SEPARATION MECHANISM

By: WEN, XJ; QIAN-LU; LV, XX; et.al

Source: JOURNAL OF HAZARDOUS MATERIALS 385: - MAR 5 2020

Research Fields: ENGINEERING

Times Cited: 73

ESI Hot

Research Front

8

COUPLING N-2 AND CO2 IN H2O TO SYNTHESIZE UREA UNDER AMBIENT CONDITIONS

By: CHEN, C; ZHU, XR; WEN, XJ; et.al

Source: NATURE CHEMISTRY 12 (8): - AUG 2020

Research Fields: CHEMISTRY

Times Cited: 66

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9

NON-PRECIOUS-METAL CATALYSTS FOR ALKALINE WATER ELECTROLYSIS: OPERANDO CHARACTERIZATIONS, THEORETICAL CALCULATIONS, AND RECENT ADVANCES

By: WANG, J; GAO, Y; KONG, H; et.al

Source: CHEMICAL SOCIETY REVIEWS 49 (24): 9154-9196 DEC 21 2020

Research Fields: CHEMISTRY

Times Cited: 66

ESI Hot

10

DEFECT CHEMISTRY IN HETEROGENEOUS CATALYSIS: RECOGNITION, UNDERSTANDING, AND UTILIZATION

By: XIE, C; YAN, DF; LI, H; et.al

Source: ACS CATALYSIS 10 (19): 11082-11098 OCT 2 2020

Research Fields: CHEMISTRY

Times Cited: 63

ESI Hot

11

CELL-LIKE-CARBON-MICRO-SPHERES FOR ROBUST POTASSIUM ANODE

By: DING, HB; ZHOU, J; RAO, AM; et.al

Source: NATIONAL SCIENCE REVIEW 8 (9): - SEP 2021

Research Fields: MATERIALS SCIENCE

Times Cited: 61

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12

INORGANIC COLLOIDAL ELECTROLYTE FOR HIGHLY ROBUST ZINC-ION BATTERIES

By: GAO, JW; XIE, XS; LIANG, SQ; et.al

Source: NANO-MICRO LETTERS 13 (1): - FEB 2021

Research Fields: MATERIALS SCIENCE

Times Cited: 59

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GRADIENT SOLID ELECTROLYTE INTERPHASE AND LITHIUM-ION SOLVATION REGULATED BY BISFLUOROACETAMIDE FOR STABLE LITHIUM METAL BATTERIES

By: LI, F; HE, J; LIU, JD; et.al

Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 60 (12): 6600-6608 MAR 15 2021

Research Fields: CHEMISTRY

Times Cited: 58

ESI Hot

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14

REPURPOSE OPEN DATA TO DISCOVER THERAPEUTICS FOR COVID-19 USING DEEP LEARNING

By: ZENG, XX; SONG, X; MA, TF; et.al

Source: JOURNAL OF PROTEOME RESEARCH 19 (11): 4624-4636 NOV 6 2020

Research Fields: BIOLOGY & BIOCHEMISTRY

Times Cited: 49

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15

ELECTROLYTE STRATEGIES TOWARD BETTER ZINC-ION BATTERIES

By: LIU, CX; XIE, XS; LU, BG; et.al

Source: ACS ENERGY LETTERS 6 (3): 1015-1033 MAR 12 2021

Research Fields: MATERIALS SCIENCE

Times Cited: 37

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16

PROMISES AND PROSPECTS OF TWO-DIMENSIONAL TRANSISTORS

By: LIU, Y; DUAN, XD; SHIN, HJ; et.al

Source: NATURE 591 (7848): 43-53 MAR 4 2021

Research Fields: MATERIALS SCIENCE

Times Cited: 35

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17 **SIMULTANEOUS DUAL-GENE DIAGNOSIS OF SARS-COV-2 BASED ON CRISPR/CAS9-MEDIATED LATERAL FLOW ASSAY** Times Cited: 29
By: XIONG, E; JIANG, L; TIAN, TA; et.al
Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 60 (10): 5307-5315 MAR 1 2021
Research Fields: CHEMISTRY
ESI Hot Research Front

18 **MICROPLASTICS AND ASSOCIATED CONTAMINANTS IN THE AQUATIC ENVIRONMENT: A REVIEW ON THEIR ECOTOXICOLOGICAL EFFECTS, TROPHIC TRANSFER, AND POTENTIAL IMPACTS TO HUMAN HEALTH** Times Cited: 29
By: HUANG, W; SONG, BA; LIANG, J; et.al
Source: JOURNAL OF HAZARDOUS MATERIALS 405: - MAR 5 2021
Research Fields: ENGINEERING
ESI Hot

19 **INTERFACIAL ADSORPTION-INSERTION MECHANISM INDUCED BY PHASE BOUNDARY TOWARD BETTER AQUEOUS ZN-ION BATTERY** Times Cited: 29
By: SHAN, LT; WANG, YR; LIANG, SQ; et.al
Source: INFOMAT 3 (9): 1028-1036 SEP 2021
Research Fields: MATERIALS SCIENCE
ESI Hot

20 **SYNTHESIS OF 2D/2D COAL-LDHS/TI3C2TX SCHOTTKY-JUNCTION WITH ENHANCED INTERFACIAL CHARGE TRANSFER AND VISIBLE-LIGHT PHOTOCATALYTIC PERFORMANCE** Times Cited: 28
By: SHAO, BB; LIU, ZF; ZENG, GM; et.al
Source: APPLIED CATALYSIS B-ENVIRONMENTAL 286: - JUN 5 2021
Research Fields: CHEMISTRY
ESI Hot Research Front

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21 **ON SOME REFINEMENTS FOR INEQUALITIES INVOLVING ZERO-BALANCED HYPERGEOMETRIC FUNCTION** Times Cited: 23
By: ZHAO, TH; HE, ZY; CHU, YM;
Source: AIMS MATHEMATICS 5 (6): 6479-6495 2020
Research Fields: MATHEMATICS
ESI Hot

22 **CATALYST-FREE ACTIVATION OF PERMANGANATE UNDER VISIBLE LIGHT IRRADIATION FOR SULFAMETHAZINE DEGRADATION: EXPERIMENTS AND THEORETICAL CALCULATION** Times Cited: 23
By: ZHANG, C; TIAN, SH; QIN, FZ; et.al
Source: WATER RESEARCH 194: - APR 15 2021
Research Fields: ENVIRONMENT/ECOLOGY
ESI Hot Research Front

23 **CRITICAL REVIEW OF ADVANCED OXIDATION PROCESSES IN ORGANIC WASTEWATER TREATMENT** Times Cited: 23
By: MA, DS; YI, H; LAI, C; et.al
Source: CHEMOSPHERE 275: - JUL 2021
Research Fields: ENVIRONMENT/ECOLOGY
ESI Hot

24 **ELECTRON-ION COLLIDER IN CHINA** Times Cited: 22
By: ANDERLE, DP; BERTONE, V; CAO, X; et.al
Source: FRONTIERS OF PHYSICS 16 (6): - DEC 2021
Research Fields: PHYSICS
ESI Hot

25 **SHARP BOUNDS FOR THE WEIGHTED HOLDER MEAN OF THE ZERO-BALANCED GENERALIZED COMPLETE ELLIPTIC INTEGRALS** Times Cited: 13
By: ZHAO, TH; HE, ZY; CHU, YM;
Source: COMPUTATIONAL METHODS AND FUNCTION THEORY 21 (3): 413-426 SEP 2021
Research Fields: MATHEMATICS
ESI Hot

26 **SHARP BOUNDS FOR THE TOADER MEAN OF ORDER 3 IN TERMS OF ARITHMETIC, QUADRATIC AND CONTRAHARMONIC MEANS** Times Cited: 12
By: CHU, HH; ZHAO, TH; CHU, YM;
Source: MATHEMATICA SLOVACA 70 (5): 1097-1112 OCT 2020
Research Fields: MATHEMATICS
ESI Hot

27 **REFINED REGULATION AND NITROGEN DOPING OF BIOCHAR DERIVED FROM RAMIE FIBER BY DEEP EUTECTIC SOLVENTS (DESS) FOR CATALYTIC PERSULFATE ACTIVATION TOWARD NON-RADICAL ORGANICS DEGRADATION AND DISINFECTION** Times Cited: 4
By: YE, SJ; XIONG, WP; LIANG, J; et.al
Source: JOURNAL OF COLLOID AND INTERFACE SCIENCE 601: 544-555 NOV 2021
Research Fields: CHEMISTRY
ESI Hot

以上 27 篇论文中有 7 篇是环境学院的论文:

- 1) Yang Yang, Xin Li, Chengyun Zhou, Weiping Xiong, Guangming Zeng*, Danlian Huang*,

Chen Zhang*, Wenjun Wang, Biao Song, Xiang Tang, Xiaopei Li, Hai Guo. Recent advances in application of graphitic carbon nitride-based catalysts for degrading organic contaminants in water through advanced oxidation processes beyond photocatalysis: A critical review. *Water Research* (SCI 2020 IF=9.130). 2020.184 (116200) :1-18 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)

2) Chen Zhang*, Suhong Tian, Fanzhi Qin, Yali Yu, Danlian Huang*, Abing Duan*, Chengyun Zhou, Yang Yang, Wenjun Wang, Yin Zhou, Hanzhuo Luo. Catalyst-free activation of permanganate under visible light irradiation for sulfamethazine degradation: Experiments and theoretical calculation. *Water Research* (SCI 2020 IF=9.13), 2021, 194: 116915. (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)

3) Dengsheng Ma, Huan Yi, Cui Lai*, Xigui Liu, Xiuqin Huo, Ziwen An, Ling Li, Yukui Fu, Bisheng Li, Mingming Zhang, Lei Qin, Shiyu Liu, Lu Yang. Critical review of advanced oxidation processes in organic wastewater treatment. *Chemosphere* (SCI 2020 IF=7.086) 275 (2021) 130104. (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)

4) Sa Xiao¹, Min Cheng¹, Hua Zhong*, Zhifeng Liu*, Yang Liu, Xin Yang, Qinghua Liang. Iron-mediated activation of persulfate and peroxymonosulfate in both homogeneous and heterogeneous ways: A review. *Chemical Engineering Journal* (SCI 2020 IF=13.273), 2020, 384:123265 (ESI Hot Paper, ESI Hot Paper 第 5 次上榜)

5) Shujing Ye, Weiping Xiong, Jie Liang, Hailan Yang, Haipeng Wu, Chengyun Zhou, Li Du, Jiayin Guo, Wenjun Wang, Ling Xiang, Guangming Zeng*, Xiaofei Tan*. Refined regulation and nitrogen doping of biochar derived from ramie fiber by deep eutectic solvents (DESs) for catalytic persulfate activation toward non-radical organics degradation and disinfection. *Journal of Colloid and Interface Science* 601(2021) 544-555 (SCI 2020 IF=7.489) (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)

6) Wei Huang¹, Biao Song¹, Jie Liang¹, Qiuya Niu¹, Guangming Zeng*, Maocai Shen, Jiaqin Deng, Yuan Luo, Xiaofeng Wen, Yafei Zhang. Microplastics and associated contaminants in the aquatic environment: A review on their ecotoxicological effects, trophic transfer, and potential impacts to human health. *Journal of Hazardous Materials* (SCI 2020 IF=10.588). 2021.405 (124187) :1-39 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)

7) Binbin Shao, Zhifeng Liu*, Guangming Zeng*, Yang Liu, Qinghua Liang, Qingyun He, Ting Wu, Yuan Pan, Jing Huang, Zan Peng, Songhao Luo, Chao Liang, Xiaojuan Liu, Shehua Tong, Jie Liang. Synthesis of 2D/2D CoAl-LDHs/Ti3C2Tx Schottky-junction with enhanced interfacial charge transfer and visible-light photocatalytic performance. *Applied Catalysis B: Environmental* (SCI 2020 IF=19.503), 2021, 286: 119867. (ESI Hot Paper, ESI Hot Paper 第 1 次上榜)