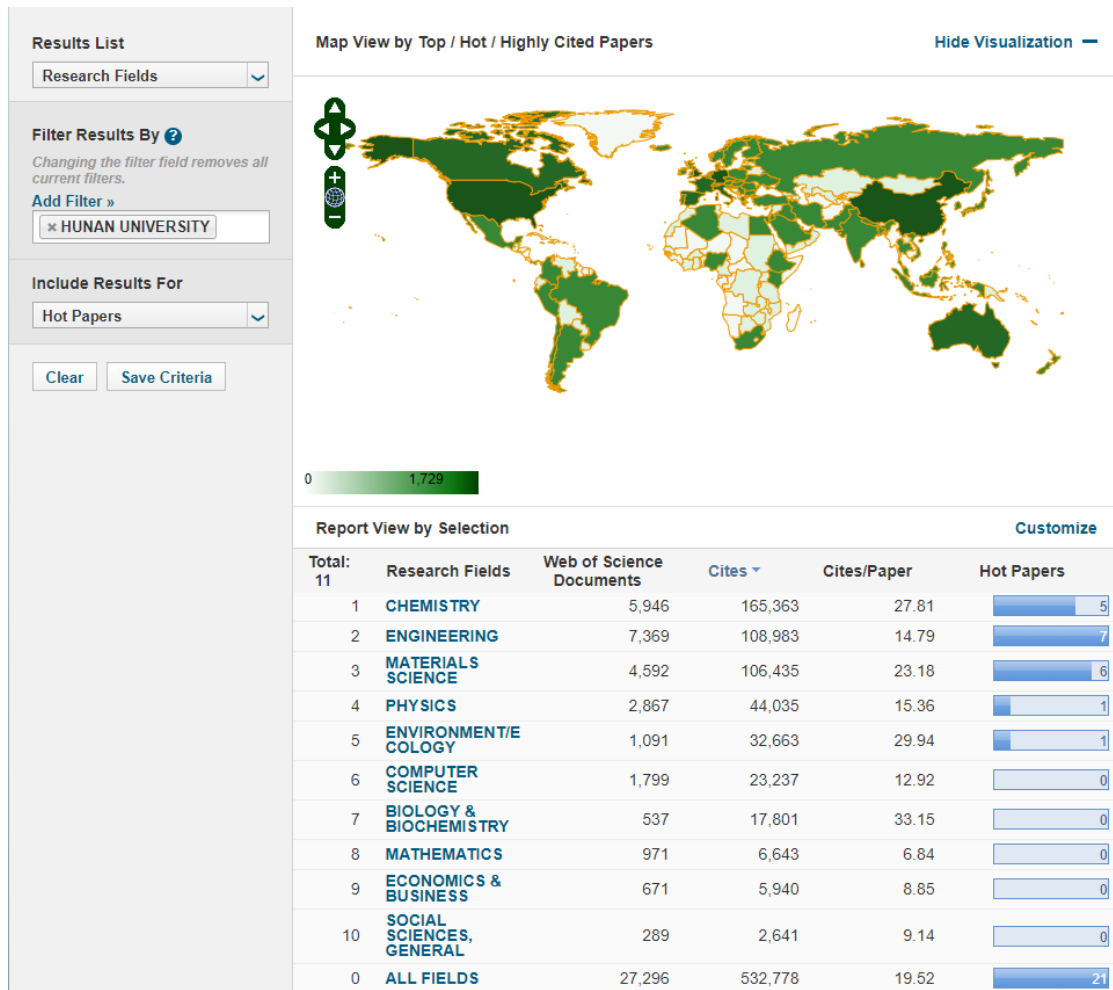


1. Essential Science Indicators for Hot papers for Hunan University on Jan, 13, 2021.



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1	SULFUR DOPED CARBON QUANTUM DOTS LOADED HOLLOW TUBULAR G-C3N4 AS NOVEL PHOTOCATALYST FOR DESTRUCTION OF ESCHERICHIA COLI AND TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT	By: WANG, WJ; ZENG, ZT; ZENG, GM; et al Source: CHEMICAL ENGINEERING JOURNAL 378: - DEC 15 2019 Research Fields: ENGINEERING	Times Cited: 156	ESI Hot	Research Front
2	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: 112	ESI Hot	
3	HIERARCHICALLY ORDERED POROUS CARBON WITH ATOMICALLY DISPERSED PEN4 FOR ULTRA-EFFICIENT OXYGEN REDUCTION REACTION IN PROTON-EXCHANGE MEMBRANE FUEL CELLS	By: QIAO, MP; WANG, Y; WANG, Q; et al Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 59 (7): 2688-2694 FEB 10 2020 Research Fields: CHEMISTRY	Times Cited: 110	ESI Hot	
4	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: 108	ESI Hot	
5	RECENT ADVANCES IN PHOTO-ACTIVATED SULFATE RADICAL-ADVANCED OXIDATION PROCESS (SR-AOP) FOR REFRACTORY ORGANIC POLLUTANTS REMOVAL IN WATER	By: YANG, Q; MA, YH; CHEN, F; et al Source: CHEMICAL ENGINEERING JOURNAL 378: - DEC 15 2019 Research Fields: ENGINEERING	Times Cited: 99	ESI Hot	
6	COVALENT ORGANIC FRAMEWORK PHOTOCATALYSTS: STRUCTURES AND APPLICATIONS	By: WANG, H; WANG, H; WANG, ZW; et al Source: CHEMICAL SOCIETY REVIEWS 49 (12): 4135-4165 JUN 21 2020 Research Fields: CHEMISTRY	Times Cited: 93	ESI Hot	Research Front

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7

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: 76

ESI Hot

Research Front

8

BLACK PHOSPHORUS COMPOSITES WITH ENGINEERED INTERFACES FOR HIGH-RATE HIGH-CAPACITY LITHIUM STORAGE

By: JIN, HC.; XIN, S.; CHUANG, CH.; et al
Source: SCIENCE 370 (6513): 192+ OCT 9 2020
Research Fields: MATERIALS SCIENCE

Times Cited: 69

ESI Hot

9

FLEXIBLE MXENE/SILVER NANOWIRE-BASED TRANSPARENT CONDUCTIVE FILM WITH ELECTROMAGNETIC INTERFERENCE SHIELDING AND ELECTRO-PHOTO-THERMAL PERFORMANCE

By: ZHOU, B.; SU, MJ.; YANG, DZ.; et al
Source: ACS APPLIED MATERIALS & INTERFACES 12 (36): 40859-40869 SEP 9 2020
Research Fields: MATERIALS SCIENCE

Times Cited: 57

ESI Hot

Research Front

10

SULFUR-ASSISTED LARGE-SCALE SYNTHESIS OF GRAPHENE MICROSPHERES FOR SUPERIOR POTASSIUM-ION BATTERIES

By: ZHANG, QF.; CHENG, XL.; WANG, CX.; et al
Source: ENERGY & ENVIRONMENTAL SCIENCE 14 (2): 965-974 FEB 1 2021
Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 51

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Research Front

11

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: 48

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Documents	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: 39 ESI Hot Research Front
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Include Results For Hot Papers	14	IN-SITU SELF-ASSEMBLY CONSTRUCTION OF HOLLOW TUBULAR G-C3N4 ISOTYPE HETEROJUNCTION FOR ENHANCED VISIBLE-LIGHT PHOTOCATALYSIS: EXPERIMENTS AND THEORIES By: LIANG, QH; LIU, XJ; WANG, JJ; et al Source: JOURNAL OF HAZARDOUS MATERIALS 401: - JAN 5 2021 Research Fields: ENGINEERING	Times Cited: 33 ESI Hot Research Front
Clear Save Criteria	15	LIQUID THERMO-RESPONSIVE SMART WINDOW DERIVED FROM HYDROGEL By: ZHOU, Y; WANG, SC; PENG, JQ; et al Source: JOULE 4 (11): 2458-2474 NOV 18 2020 Research Fields: ENGINEERING	Times Cited: 30 ESI Hot
	16	BIOREMEDIATION OF CO-CONTAMINATED SOIL WITH HEAVY METALS AND PESTICIDES: INFLUENCE FACTORS, MECHANISMS AND EVALUATION METHODS By: ZHANG, HY; YUAN, XZ; XIONG, T; et al Source: CHEMICAL ENGINEERING JOURNAL 398: - OCT 15 2020 Research Fields: ENGINEERING	Times Cited: 28 ESI Hot
	17	A FLEXIBLE ELECTROMAGNETIC WAVE-ELECTRICITY HARVESTER By: LV, HL; YANG, ZH; LIU, B; et al Source: NATURE COMMUNICATIONS 12 (1) - FEB 5 2021 Research Fields: MATERIALS SCIENCE	Times Cited: 28 ESI Hot Research Front

18	A REVIEW OF LITHIUM-ION BATTERY SAFETY CONCERNS: THE ISSUES, STRATEGIES, AND TESTING STANDARDS	Times Cited: 24 ESI Hot
19	OBSERVATION OF A NEAR-THRESHOLD STRUCTURE IN THE K+ RECOIL-MASS SPECTRA IN E(+) E(-) -> K+ (D-S(-) D*(0) + D-S* - D-0)	Times Cited: 23 ESI Hot Research Front
20	ELECTROLYTE STRATEGIES TOWARD BETTER ZINC-ION BATTERIES	Times Cited: 22 ESI Hot
21	EFFECTS OF INJECTION TIMING AND EGR ON COMBUSTION AND EMISSIONS CHARACTERISTICS OF THE DIESEL ENGINE FUELLED WITH ACETONE-BUTANOL-ETHANOLDIESEL BLEND FUELS	Times Cited: 7 ESI Hot

以上 21 篇论文中有 6 篇是环境学院的论文:

- 1) Wenjun Wang¹, Zhuotong Zeng¹, Guangming Zeng*, Chen Zhang*, Rong Xiao*, Chengyun Zhou, Weiping Xiong, Yang Yang, Lei Lei, Yang Liu, Danlian Huang, Min Cheng, YayaYang, Yukui Fu, Hanzhuo Luo, Yin Zhou, Sulfur doped carbon quantum dots loaded hollow tubular g-C₃N₄ as novel photocatalyst for destruction of Escherichia coli and tetracycline degradation under visible light, Chemical Engineering Journal (SCI 2020 IF=13.273), 2019, 378, 122132 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 9 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)
- 2) 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 4 次上榜).
- 3) Qi Yang*, Yinghao Ma, Fei Chen, Fubing Yao, Jian Sun, Shana Wang, Kaixin Yi, Lihua Hou, Xiaoming Li, Dongbo Wang*, Recent advances in photo-activated sulfate radical-advanced oxidation process (SR-AOP) for refractory organic pollutants removal in water, Chemical Engineering Journal (SCI 2020 IF=13.273), 2019, 378:122149 (ESI Hot Paper, ESI Hot Paper 第 4 次上榜).
- 4) Han Wang¹, Hui Wang¹, Ziwei Wang¹, Lin Tang¹, Guangming Zeng*, Piao Xu*, Ming Chen, Ting Xiong, Chengyun Zhou, Xiyi Li, Danlian Huang, Yuan Zhu, Zixuan Wang and Junwang Tang *. Covalent Organic Framework Photocatalysts: Structures and Applications. Chemical Society Reviews (SCI 2020 IF=54.564) 2020.49:4135-4165. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 3 次上榜)
- 5) Qinghua Liang¹, Xiaojuan Liu¹, Jiajia Wang¹, Yang Liu¹, Zhifeng Liu*, Lin Tang*, Binbin Shao, Wei Zhang, Shanxi Gong, Min Cheng, Qingyun He, Chengyang Feng. In-situ self-assembly construction of hollow tubular g-C₃N₄ isotype heterojunction for enhanced visible-light photocatalysis: Experiments and Theories. Journal of Hazardous Materials (SCI 2020 IF=10.588), 2021, 401:123355 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)
- 6) Zhang, Hanyan, Yuan, Xingzhong Yuan*, Ting Xiong*, Hou Wang, Longbo Jiang, Bioremediation of co-contaminated soil with heavy metals and pesticides: Influence factors, mechanisms and evaluation methods, Chemical Engineering Journal (SCI 2020 IF=13.273) 398 (2020) 125657. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)