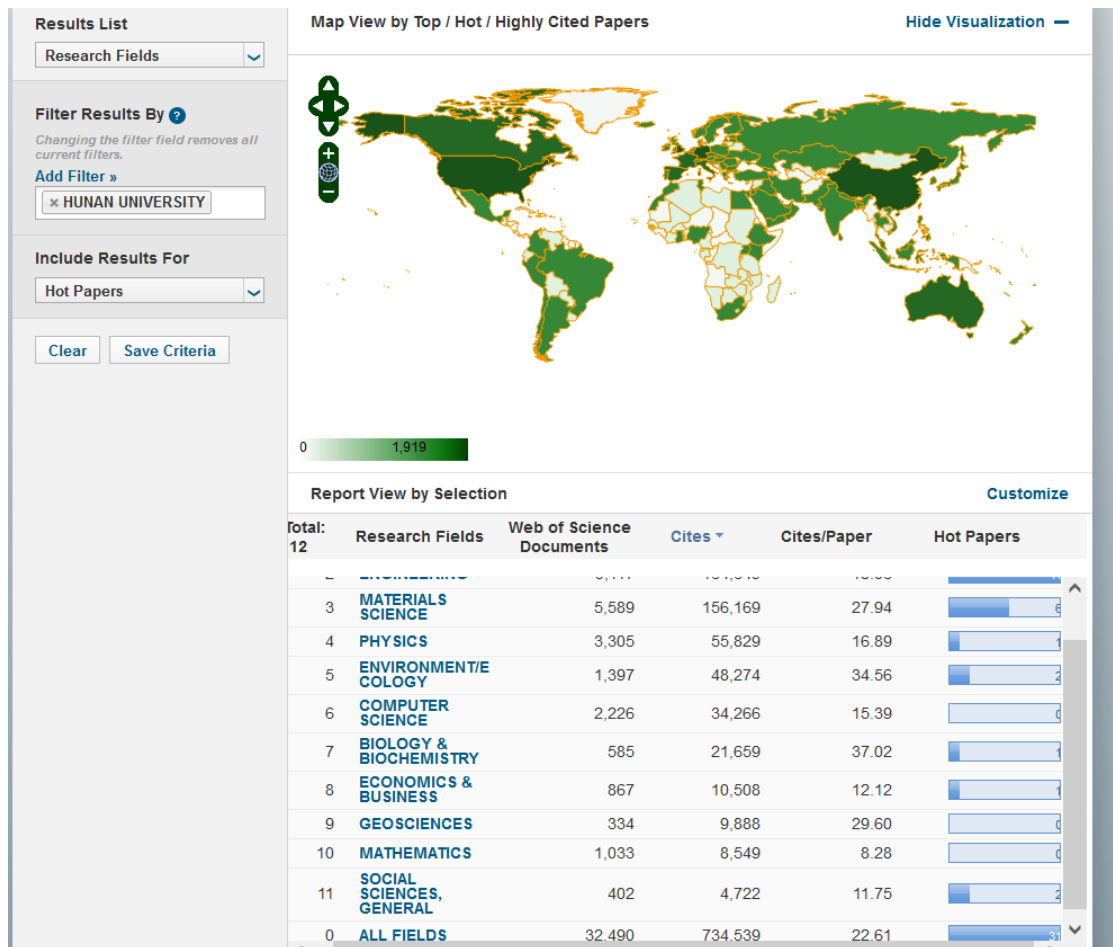


1. Essential Science Indicators for Hot papers for Hunan University on Mar 09, 2023




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Documents	Filter Results By	Include Results For	Clear	Save Criteria
1	ADMETLAB 2.0: AN INTEGRATED ONLINE PLATFORM FOR ACCURATE AND COMPREHENSIVE PREDICTIONS OF ADMET PROPERTIES By: XIONG, GL.; WU, ZX.; YI, JC.; et al Source: NUCLEIC ACIDS RESEARCH 49 (W1): W5-W14 JUL 2 2021 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 234 ESI Hot		
2	SURFACE-PREFERRED CRYSTAL PLANE FOR A STABLE AND REVERSIBLE ZINC ANODE By: ZHOU, M.; GUO, S.; LI, JL.; et al Source: ADVANCED MATERIALS 33 (21): - MAY 2021 Research Fields: MATERIALS SCIENCE	Times Cited: 209 ESI Hot Research Front		
3	A REVIEW OF LITHIUM-ION BATTERY SAFETY CONCERNS: THE ISSUES, STRATEGIES, AND TESTING STANDARDS By: CHEN, YQ.; KANG, YQ.; ZHAO, Y.; et al Source: JOURNAL OF ENERGY CHEMISTRY 59: 83-99 AUG 2021 Research Fields: CHEMISTRY	Times Cited: 205 ESI Hot Research Front		
4	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: 201 ESI Hot Research Front		
5	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: 159 ESI Hot		

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6

SURFACE-SUBSTITUTED PRUSSIAN BLUE ANALOGUE CATHODE FOR SUSTAINABLE POTASSIUM-ION BATTERIES

By: GE, JM, FAN, L, RAO, AM, et al
Source: NATURE SUSTAINABILITY 5 (3): 225-234 MAR 2022
Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 138

 ESI Hot


 Research Front


7

DESIGN STRATEGIES FOR HIGH-ENERGY-DENSITY AQUEOUS ZINC BATTERIES

By: RUAN, PC, LIANG, SQ, LU, BG, et al
Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 61 (17) - APR 19 2022
Research Fields: CHEMISTRY

Times Cited: 124

 ESI Hot


 Research Front

8

MICROPLASTICS AND ASSOCIATED CONTAMINANTS IN THE AQUATIC ENVIRONMENT: A REVIEW ON THEIR ECOTOXICOLOGICAL EFFECTS, TROPIC TRANSFER, AND POTENTIAL IMPACTS TO HUMAN HEALTH

By: HUANG, W, SONG, BA, LIANG, J, et al
Source: JOURNAL OF HAZARDOUS MATERIALS 405 - MAR 5 2021
Research Fields: ENGINEERING

Times Cited: 116


 ESI Hot

9

REDIRECTING DYNAMIC SURFACE RESTRUCTURING OF A LAYERED TRANSITION METAL OXIDE CATALYST FOR SUPERIOR WATER OXIDATION

By: WANG, J, KIM, SJ, LIU, JP, et al
Source: NATURE CATALYSIS 4 (3): 212-222 MAR 2021
Research Fields: CHEMISTRY


Times Cited: 112

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10


ACTIVATION OF PERSULFATES BY CARBONACEOUS MATERIALS: A REVIEW

By: HUANG, WQ; XIAO, S; ZHONG, H; et al

Source: CHEMICAL ENGINEERING JOURNAL 418 - AUG 15 2021

Research Fields: ENGINEERING

Times Cited: 102

 ESI Hot

11


HOW DOES INTERNET DEVELOPMENT AFFECT ENERGY-SAVING AND EMISSION REDUCTION? EVIDENCE FROM CHINA


By: WU, HT; XUE, Y; HAO, Y; et al

Source: ENERGY ECONOMICS 103 - NOV 2021

Research Fields: ECONOMICS & BUSINESS

Times Cited: 95

 ESI Hot

 Research Front

12


ACTIVATION OF PEROXYMONOSULFATE BY BIOCHAR-BASED CATALYSTS AND APPLICATIONS IN THE DEGRADATION OF ORGANIC CONTAMINANTS: A REVIEW

By: ZHAO, CH; SHAO, BB; YAN, M; et al

Source: CHEMICAL ENGINEERING JOURNAL 416 - JUL 15 2021

Research Fields: ENGINEERING

Times Cited: 95

 ESI Hot

13


ISSUES AND OPPORTUNITIES FACING AQUEOUS MN2+/MNO2-BASED BATTERIES


By: LIU, ZX; QIN, LP; LU, BA; et al

Source: CHEMSUSCHEM 15 (10) - MAY 20 2022

Research Fields: CHEMISTRY

Times Cited: 76

 ESI Hot

 Research Front

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14

REVIEW ON CHAOTIC DYNAMICS OF MEMRISTIVE NEURON AND NEURAL NETWORK

By LIN, HR; WANG, CH; DENG, QL, et al
Source: NONLINEAR DYNAMICS 106 (1): 959-973 SEP 2021
Research Fields: ENGINEERING

Times Cited: 55

ESI Hot

Research Front

15

SUB-10 NM FABRICATION: METHODS AND APPLICATIONS

By CHEN, YQ; SHU, ZW; ZHANG, S; et al
Source: INTERNATIONAL JOURNAL OF EXTREME MANUFACTURING 3 (3): - JUL 2021
Research Fields: ENGINEERING

Times Cited: 51

ESI Hot

16

UNSUPERVISED DOMAIN-SHARE CNN FOR MACHINE FAULT TRANSFER DIAGNOSIS FROM STEADY SPEEDS TO TIME-VARYING SPEEDS

By CAO, HR; SHAO, HD; ZHONG, X; et al
Source: JOURNAL OF MANUFACTURING SYSTEMS 62: 186-198 JAN 2022
Research Fields: ENGINEERING

Times Cited: 50

ESI Hot

Research Front

17

ULTRA-SENSITIVE, LABEL-FREE VOLTAMMETRIC DETERMINATION OF NORFLOXACIN BASED ON MOLECULARLY IMPRINTED POLYMERS AND Au NANOPARTICLE-FUNCTIONALIZED BLACK PHOSPHORUS NANOSHEET NANOCOMPOSITE

By LI, GL; QI, XM; WU, JT, et al
Source: JOURNAL OF HAZARDOUS MATERIALS 436: - AUG 15 2022
Research Fields: ENGINEERING

Times Cited: 42

ESI Hot

Research Front

18

HIGHLY EFFICIENT FAULT DIAGNOSIS OF ROTATING MACHINERY UNDER TIME-VARYING SPEEDS USING LSISMM AND SMALL INFRARED THERMAL IMAGES

By LI, X; SHAO, HD; LU, SL, et al
Source: IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS 52 (12): 7328-7340 DEC 2022
Research Fields: ENGINEERING

Times Cited: 34

ESI Hot

Research Front

Citation Trends		Sort By: Citations		Customize Documents		1 - 31 of 31	
Documents		19		WEAK CATION-SOLVENT INTERACTIONS IN ETHER-BASED ELECTROLYTES STABILIZING POTASSIUM-ION BATTERIES		Times Cited: 26	
				By LI, JF; HU, YY; XIE, HB; et al		ESI Hot	
				Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 61 (33) - AUG 15 2022		Research Front	
				Research Fields: CHEMISTRY			
Filter Results By		20		MULTI-MODE DATA AUGMENTATION AND FAULT DIAGNOSIS OF ROTATING MACHINERY USING MODIFIED AGCAN DESIGNED WITH NEW FRAMEWORK		Times Cited: 26	
Add Filter				By LI, W; ZHONG, X; SHAO, HD; et al		ESI Hot	
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Hot Papers				Research Fields: ENGINEERING			
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		21		DIGITAL ECONOMY AND URBAN LOW-CARBON SUSTAINABLE DEVELOPMENT: THE ROLE OF INNOVATION FACTOR MOBILITY IN CHINA		Times Cited: 23	
				By WANG, LL; CHEN, LY; LI, YS;		ESI Hot	
				Source: ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH 29 (32): 48539-48557 JUL 2022			
				Research Fields: ENVIRONMENT/ECOLOGY			
		22		THE PHOSPHATE CATHODES FOR AQUEOUS ZINC-ION BATTERIES		Times Cited: 20	
				By LI, X; CHEN, ZJ; YANG, YQ; et al		ESI Hot	
				Source: INORGANIC CHEMISTRY FRONTIERS 9 (16): 3986-3998 AUG 9 2022		Research Front	
				Research Fields: CHEMISTRY			
		23		AQUEOUS ELECTROLYTES WITH HYDROPHOBIC ORGANIC COSOLVENTS FOR STABILIZING ZINC METAL ANODES		Times Cited: 18	
				By MIAO, LC; WANG, RH; DI, SL; et al		ESI Hot	
				Source: ACS NANO 16 (6): 9667-9678 JUN 28 2022			
				Research Fields: MATERIALS SCIENCE			

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Documents		24		IMPROVING STABILITY MXENES		Times Cited: 18	
				By JIANG, JZ; BAI, SS; ZOU, J; et al		ESI Hot	
				Source: NANO RESEARCH 15 (7): 6551-6567 JUL 2022		Research Front	
				Research Fields: PHYSICS			
Filter Results By		25		COBALT SINGLE ATOMS ANCHORED ON OXYGEN-DOPED TUBULAR CARBON NITRIDE FOR EFFICIENT PEROXYMONOSULFATE ACTIVATION: SIMULTANEOUS COORDINATION STRUCTURE AND MORPHOLOGY MODULATION		Times Cited: 16	
Add Filter				By WANG, ZW; ALMATRAFI, E; WANG, H; et al		ESI Hot	
Include Results For				Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 61 (29) - JUL 18 2022		Research Front	
Hot Papers				Research Fields: CHEMISTRY			
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		26		THE EMERGING DRIVING FORCE OF ENERGY CONSUMPTION IN CHINA: DOES DIGITAL ECONOMY DEVELOPMENT MATTER?		Times Cited: 15	
				By XUE, Y; TANG, C; WU, HT; et al		ESI Hot	
				Source: ENERGY POLICY 165 - JUN 2022			
				Research Fields: SOCIAL SCIENCES, GENERAL			
		27		BRAIN-LIKE INITIAL-BOOSTED HYPERCHAOS AND APPLICATION IN BIOMEDICAL IMAGE ENCRYPTION		Times Cited: 15	
				By LIN, HR; WANG, CH; CUI, L; et al		ESI Hot	
				Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 18 (12): 8839-8850 DEC 2022			
				Research Fields: ENGINEERING			
		28		SPONTANEOUS CONSTRUCTION OF NUCLEOPHILIC CARBONYL-CONTAINING INTERPHASE TOWARD ULTRASTABLE ZINC-METAL ANODES		Times Cited: 13	
				By WANG, PJ; LIANG, SQ; CHEN, C; et al		ESI Hot	
				Source: ADVANCED MATERIALS 34 (33) - AUG 2022			
				Research Fields: MATERIALS SCIENCE			

29		ENABLING MULTI-CHEMISORPTION SITES ON CARBON NANOFIBERS CATHODES BY AN IN-SITU EXFOLIATION STRATEGY FOR HIGH-PERFORMANCE ZN-ION HYBRID CAPACITORS		Times Cited: 9	
		By HE, HC; LIAN, JC; CHEN, CM; et al		ESI Hot	
		Source: NANO-MICRO LETTERS 14 (1) - DEC 2022			
		Research Fields: MATERIALS SCIENCE			
30		MOLECULAR ENGINEERING OF DONOR-ACCEPTOR STRUCTURED G-C3N4 FOR SUPERIOR PHOTOCATALYTIC OXYTETRACYCLINE DEGRADATION		Times Cited: 7	
		By ZHANG, C; OUYANG, ZL; YANG, Y; et al		ESI Hot	
		Source: CHEMICAL ENGINEERING JOURNAL 448 - NOV 15 2022			
		Research Fields: ENGINEERING			
31		HOW TECHNOLOGICAL INNOVATION AND INSTITUTIONAL QUALITY AFFECT SECTORAL ENERGY CONSUMPTION IN PAKISTAN? FRESH POLICY INSIGHTS FROM NOVEL ECONOMETRIC APPROACH		Times Cited: 6	
		By ZHENG, L; ABBASI, KR; SALEM, S; et al		ESI Hot	
		Source: TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE 183 - OCT 2022			
		Research Fields: SOCIAL SCIENCES, GENERAL			

以上 31 篇论文中有 5 篇是环境学院的论文:

- 1) 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 2021 IF=14.224). 405(2021)124187 :1-39 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 2 次上榜)
- 2) Wuqi Huang, Sa Xiao, Hua Zhong^{*}, Ming Yan^{*}, Xin Yang, Activation of persulfates by carbonaceous materials: A review, Chemical Engineering Journal (SCI 2021 IF=16.744) 418 (2021) 129297. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
- 3) Chenhui Zhao, Binbin Shao, Ming Yan, Zhifeng Liu, Qinghua Liang, Qingyun He, Ting Wu,

Yang Liu, Yuan Pan, Jing Huang, Jiajia Wang, Jie Liang, Lin Tang, Activation of peroxymonosulfate by biochar-based catalysts and applications in the degradation of organic contaminants: A review, Chemical Engineering Journal, 416(2021) 128829(ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 2 次上榜)

4) Ziwei Wang, Eydhah Almatrafi, Han Wang, Hong Qin, Wenjun Wang, Li Du, Sha Chen, Guangming Zeng*, Piao Xu*.Cobalt Single Atoms Anchored on Oxygen-Doped Tubular Carbon Nitride for Efficient Peroxymonosulfate Activation: Simultaneous Coordination Structure and Morphology Modulation. Angewandte Chemie (SCI 2021 IF=15.336). 2022. e202202338 (1-10) (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)

5) Chen Zhang, Zenglin Ouyang, Yang Yang, Xia Long, Lei Qin, Wenjun Wang, Yin Zhou, Deyu Qin, Fanzhi Qin, Cui Lai, Molecular engineering of donor-acceptor structured g-C₃N₄ for superior photocatalytic oxytetracycline degradation, Chemical Engineering Journal (SCI 2021 IF=16.744), 2022, 448, 137370 (ESI Hot Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)