

1. Essential Science Indicators for Hot papers for Hunan University on 13 Jul, 2023.



Papers by Research Field

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	1	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: 326 ESI Hot
	2	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: 213 ESI Hot Research Front
	3	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: 204 ESI Hot Research Front
	4	INTELLIGENT FAULT DIAGNOSIS OF ROTOR-BEARING SYSTEM UNDER VARYING WORKING CONDITIONS WITH MODIFIED TRANSFER CONVOLUTIONAL NEURAL NETWORK AND THERMAL IMAGES By: SHAO, HD; XIA, M; HAN, GJ; et.al Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 17 (5): 3488-3496 MAY 2021 Research Fields: ENGINEERING	Times Cited: 159 ESI Hot
	5	STABILIZING ZINC ANODES BY REGULATING THE ELECTRICAL DOUBLE LAYER WITH SACCHARIN ANIONS By: HUANG, C; ZHAO, X; LIU, S; et.al Source: ADVANCED MATERIALS 33 (38): - SEP 2021 Research Fields: MATERIALS SCIENCE	Times Cited: 156 ESI Hot

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6

COMBINED ANODIC AND CATHODIC HYDROGEN PRODUCTION FROM ALDEHYDE OXIDATION AND HYDROGEN EVOLUTION REACTION

By: WANG, TH; TAO, L; ZHU, XR; et al

Source: NATURE CATALYSIS 5 (1): 66-73 JAN 2022

Research Fields: CHEMISTRY

Times Cited: 100

ESI Hot

Research Front

7

A REVIEW OF BIODEGRADABLE PLASTICS TO BIODEGRADABLE MICROPLASTICS: ANOTHER ECOLOGICAL THREAT TO SOIL ENVIRONMENTS?

By: QIN, M; CHEN, CY; SONG, B; et al

Source: JOURNAL OF CLEANER PRODUCTION 312: - AUG 20 2021

Research Fields: ENGINEERING

Times Cited: 85

ESI Hot

8

UNRAVELING THE ORIGIN OF SULFUR-DOPED FE-N-C SINGLE-ATOM CATALYST FOR ENHANCED OXYGEN REDUCTION ACTIVITY: EFFECT OF IRON SPIN-STATE TUNING

By: CHEN, ZY; NIU, H; DING, J; et al

Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 60 (48): 25404-25410 NOV 22 2021

Research Fields: CHEMISTRY

Times Cited: 72

ESI Hot

Research Front

9

ULTRASENSITIVE 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: 69

ESI Hot

Research Front

10

INTELLIGENT FAULT DIAGNOSIS OF MACHINERY USING DIGITAL TWIN-ASSISTED DEEP TRANSFER LEARNING

By: XIA, M; SHAO, HD; WILLIAMS, D; et al

Source: RELIABILITY ENGINEERING & SYSTEM SAFETY 215: - NOV 2021

Research Fields: ENGINEERING

Times Cited: 68

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11

EFFECTS OF FINANCIAL AGGLOMERATION ON GREEN TOTAL FACTOR PRODUCTIVITY IN CHINESE CITIES: INSIGHTS FROM AN EMPIRICAL SPATIAL DURBIN MODEL

By: XIE, R; FU, W; YAO, SL; et al

Source: ENERGY ECONOMICS 101: - SEP 2021

Research Fields: ECONOMICS & BUSINESS

Times Cited: 66

ESI Hot

12

SURFACE DESIGN FOR ANTIBACTERIAL MATERIALS: FROM FUNDAMENTALS TO ADVANCED STRATEGIES

By: LI, WL; THIAN, ES; WANG, M; et al

Source: ADVANCED SCIENCE 8 (19): - OCT 2021

Research Fields: PHYSICS

Times Cited: 65

ESI Hot

13

METAL-ORGANIC FRAMEWORKS FUNCTIONALIZED SEPARATORS FOR ROBUST AQUEOUS ZINC-ION BATTERIES

By: SONG, Y; RUAN, PC; MAO, CW; et al

Source: NANO-MICRO LETTERS 14 (1): - DEC 2022

Research Fields: MATERIALS SCIENCE

Times Cited: 48

ESI Hot

14

SYNERGISTIC CHEMICAL AND ELECTROCHEMICAL STRATEGY FOR HIGH-PERFORMANCE ZN//MNO2 BATTERIES

By: HAN, MM; YAO, JJ; HUANG, JW; et al

Source: CHINESE CHEMICAL LETTERS 34 (2): - FEB 2023

Research Fields: CHEMISTRY

Times Cited: 47

ESI Hot

Research Front

15

BRAIN-LIKE INITIAL-BOOSTED HYPERCHAOS AND APPLICATION IN BIOMEDICAL IMAGE ENCRYPTION

By: LIN, HR; WANG, CH; CUI, L; et al

Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 18 (12): 8839-8850 DEC 2022

Research Fields: ENGINEERING

Times Cited: 46

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16

A MEMRISTIVE SYNAPSE CONTROL METHOD TO GENERATE DIVERSIFIED MULTISTRUCTURE CHAOTIC ATTRACTORS

By: LIN, HR; WANG, CH; XU, C; et al

Source: IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS 42 (3): 942-951 MAR 2023

Research Fields: ENGINEERING

Times Cited: 46

ESI Hot

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17

SPONTANEOUS CONSTRUCTION OF NUCLEOPHILIC CARBONYL-CONTAINING INTERPHASE TOWARD ULTRASTABLE ZINC-METAL ANODES

By: WANG, PJ; LIANG, SQ; CHEN, C; et al

Source: ADVANCED MATERIALS 34 (33): - AUG 2022

Research Fields: MATERIALS SCIENCE

Times Cited: 40

ESI Hot

18

NOVEL JOINT TRANSFER NETWORK FOR UNSUPERVISED BEARING FAULT DIAGNOSIS FROM SIMULATION DOMAIN TO EXPERIMENTAL DOMAIN

By: XIAO, YM; SHAO, HD; HAN, SY; et al

Source: IEEE-ASME TRANSACTIONS ON MECHATRONICS 27 (6): 5254-5263 PART 2 DEC 2022

Research Fields: ENGINEERING

Times Cited: 38

ESI Hot

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19

PEROXYDISULFATE ACTIVATION BY SULFUR-DOPED ORDERED MESOPOROUS CARBON: INSIGHT INTO THE INTRINSIC RELATIONSHIP BETWEEN DEFECTS AND O-(1)2 GENERATION

By: LIU, SY; LAI, C; ZHOU, XR; et al

Source: WATER RESEARCH 221: - AUG 1 2022

Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 37

ESI Hot

20

TOWARD BETTER DRUG DISCOVERY WITH KNOWLEDGE GRAPH

By: ZENG, XX; TU, XQ; LIU, YS; et al

Source: CURRENT OPINION IN STRUCTURAL BIOLOGY 72: 114-126 FEB 2022

Research Fields: BIOLOGY & BIOCHEMISTRY

Times Cited: 35

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21

GENERATING N-SCROLL CHAOTIC ATTRACTORS FROM A MEMRISTOR-BASED MAGNETIZED HOPFIELD NEURAL NETWORK

By: LIN, HR; WANG, CH; SUN, YC; et al

Source: IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS 70 (1): 311-315 JAN 2023

Research Fields: ENGINEERING

Times Cited: 33

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22

THE EMERGING DRIVING FORCE OF ENERGY CONSUMPTION IN CHINA: DOES DIGITAL ECONOMY DEVELOPMENT MATTER?

By: XUE, Y; TANG, C; WU, HT; et al

Source: ENERGY POLICY 165: - JUN 2022

Research Fields: SOCIAL SCIENCES, GENERAL

Times Cited: 31

ESI Hot

23

IDENTIFICATION OF THE HIGHLY ACTIVE CO-N-4 COORDINATION MOTIF FOR SELECTIVE OXYGEN REDUCTION TO HYDROGEN PEROXIDE

By: CHEN, SY; LUO, T; LI, XQ; et al

Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 144 (32): 14505-14516 AUG 17 2022

Research Fields: CHEMISTRY

Times Cited: 29

ESI Hot

24

DIELECTRIC METALENS FOR MINIATURIZED IMAGING SYSTEMS: PROGRESS AND CHALLENGES

By: PAN, MY; FU, YF; ZHENG, MJ; et al

Source: LIGHT-SCIENCE & APPLICATIONS 11 (1): - JUN 28 2022

Research Fields: PHYSICS

Times Cited: 26

ESI Hot

25

THE EMERGING MECHANISMS AND FUNCTIONS OF MICROAUTOPHAGY

By: WANG, LM; KLJONSKY, DJ; SHEN, HM;

Source: NATURE REVIEWS MOLECULAR CELL BIOLOGY 24 (3): 186-203 MAR 2023

Research Fields: MOLECULAR BIOLOGY & GENETICS

Times Cited: 22

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26	SELF-CENTRING HYBRID-STEEL-FRAMES EMPLOYING ENERGY DISSIPATION SEQUENCES: INSIGHTS AND INELASTIC SEISMIC DEMAND MODEL	By: ZHANG, HY; ZHOU, XH; KE, K; et.al Source: JOURNAL OF BUILDING ENGINEERING 63: - PART A JAN 1 2023 Research Fields: ENGINEERING	Times Cited: 22 ESI Hot Research Front	
27	HYPERCHAOTIC MEMRISTIVE RING NEURAL NETWORK AND APPLICATION IN MEDICAL IMAGE ENCRYPTION	By: LIN, HR; WANG, CH; CUI, L; et.al Source: NONLINEAR DYNAMICS 110 (1): 841-855 SEP 2022 Research Fields: ENGINEERING	Times Cited: 21 ESI Hot Research Front	
28	EXPERIMENTAL AND NUMERICAL STUDY OF A BRACE-TYPE HYBRID DAMPER WITH STEEL SLIT PLATES ENHANCED BY FRICTION MECHANISM	By: KE, K; CHEN, YH; ZHOU, XH; et.al Source: THIN-WALLED STRUCTURES 182: - PART B JAN 2023 Research Fields: ENGINEERING	Times Cited: 21 ESI Hot Research Front	
29	ZINCOPHILIC ELECTRODE INTERPHASE WITH APPENDED PROTON RESERVOIR ABILITY STABILIZES ZN METAL ANODES	By: XING, ZY; SUN, YY; XIE, XS; et.al Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION: - DEC 22 2022 Research Fields: CHEMISTRY	Times Cited: 17 ESI Hot	
30	RECENT PROGRESS IN THE APPLICATIONS OF NON-METAL MODIFIED GRAPHITIC CARBON NITRIDE IN PHOTOCATALYSIS	By: TANG, CS; CHENG, M; LAI, C; et.al Source: COORDINATION CHEMISTRY REVIEWS 474: - JAN 1 2023 Research Fields: CHEMISTRY	Times Cited: 15 ESI Hot Research Front	
31	A TAILORED ELECTROLYTE FOR SAFE AND DURABLE POTASSIUM ION BATTERIES	By: FAN, L; XIE, HB; HU, YY; et.al Source: ENERGY & ENVIRONMENTAL SCIENCE 16 (1): 305-315 JAN 18 2023 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 15 ESI Hot Research Front	
32	A CRITICAL REVIEW ON MICROBIAL ECOLOGY IN THE NOVEL BIOLOGICAL NITROGEN REMOVAL PROCESS: DYNAMIC BALANCE OF COMPLEX FUNCTIONAL MICROBES FOR NITROGEN REMOVAL	By: CHEN, H; LIU, K; YANG, EZ; et.al Source: SCIENCE OF THE TOTAL ENVIRONMENT 857: - PART 2 JAN 20 2023 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 13 ESI Hot	
33	APPROPRIATE OXYGEN VACANCIES AND MO-N BOND SYNERGISTICALLY MODULATE CHARGE TRANSFER DYNAMICS OF MOO ₃ -xS-CN FOR SUPERIOR PHOTOCATALYTIC DISINFECTION: UNVEILING SYNERGISTIC EFFECTS AND DISINFECTION MECHANISM	By: YANG, YY; NIU, CG; HUANG, DW; et.al Source: JOURNAL OF HAZARDOUS MATERIALS 445: - MAR 5 2023 Research Fields: ENGINEERING	Times Cited: 11 ESI Hot Research Front	
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以上 33 篇论文中有 4 篇是环境学院的论文：

- 1) Meng Qin¹, Changya Chen¹, Biao Song, Maocai Shen, Weicheng Cao, Hailan Yang, Guangming Zeng*, Jilai Gong*, A review of biodegradable plastics to biodegradable microplastics: Another ecological threat to soil environments?, Journal of Cleaner Production (SCI 2022 IF=11.1), 312 (2021) 127816. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
- 2) Shiyu Liu, Cui Lai*, Xuerong Zhou, Chen Zhang, Liang Chen, Huchuan Yan, Lei Qin, Danlian Huang, Haoyang Ye, Wenfang Chen, Ling Li, Mingming Zhang, Lin Tang, Fuhang Xu, Dengsheng Ma. Peroxydisulfate activation by sulfur-doped ordered mesoporous carbon: Insight into the intrinsic relationship between defects and ¹O₂ generation. Water Research (SCI 2022 IF=12.8), 441 (2023)129871. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜)
- 3) Chensi Tang, Min Cheng*, Cui Lai*, Ling Li, Xiaofeng Yang, Li Du, Gaoxia Zhang, Guangfu Wang, Lu Yang. Recent progress in the applications of non-metal modified graphitic carbon nitride in photocatalysis. Coordination Chemistry Reviews (SCI 2022 IF=20.6), 474 (2023) 214846 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 2 次上榜)
- 4) Ya-Ya Yang, Cheng-Gang Niu, Da-Wei Huang, Hai Guo, Hao-Peng Feng, Lu Li, Hui-Yun Liu, Qian-Qian Fan, Meng-Zhu Qin, Appropriate oxygen vacancies and Mo-N bond synergistically modulate charge transfer dynamics of MoO₃-xS-CN for superior photocatalytic disinfection:

Unveiling synergistic effects and disinfection mechanism, Journal of Hazardous Materials, 445(2023)130481 (SCI 2022 IF=13.6) (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)