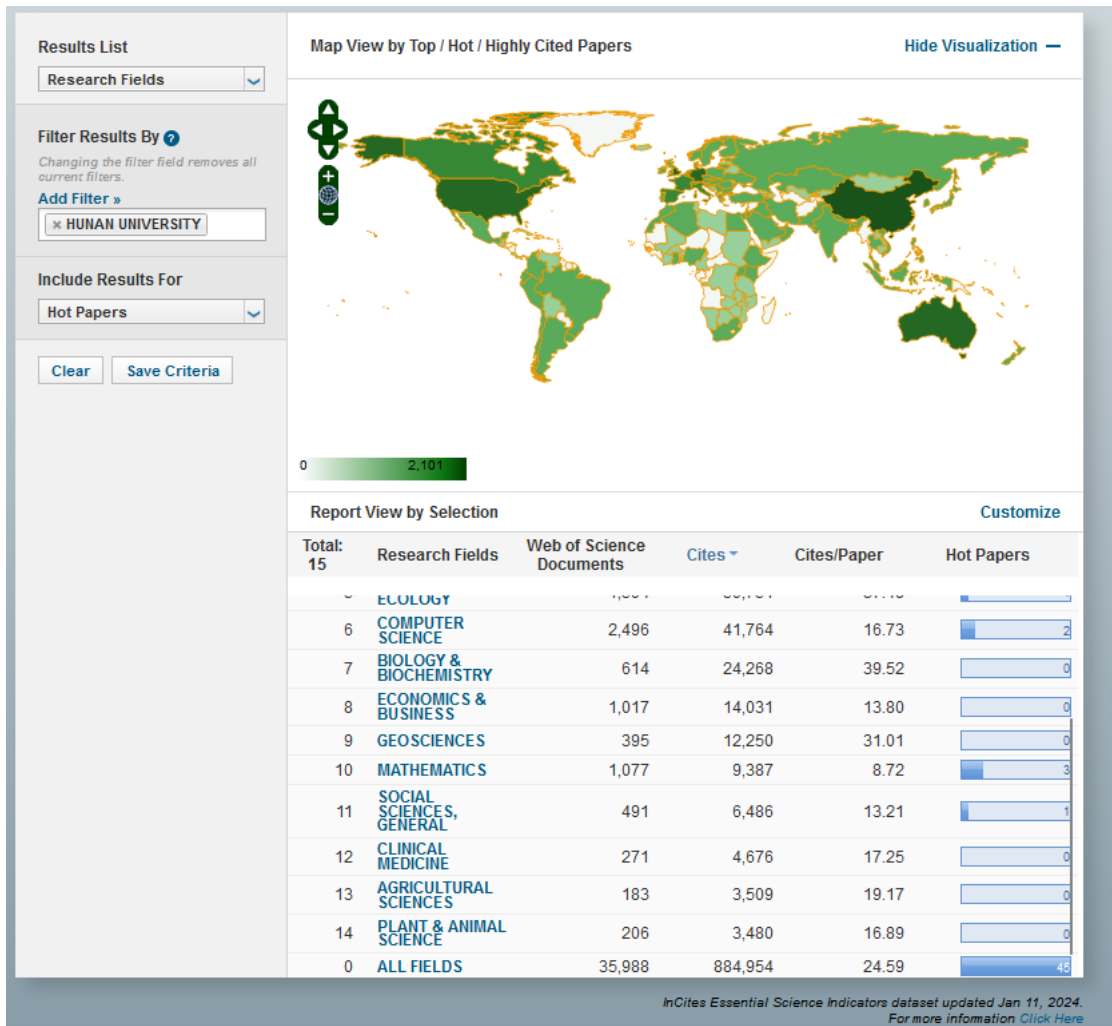


1. Essential Science Indicators for Hot papers for Hunan University on Jan 11, 2024.



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	1	DESIGN STRATEGIES FOR HIGH-ENERGY-DENSITY AQUEOUS ZINC BATTERIES By: RUAN, PC; LIANG, SQ; LIU, BG; et al Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 61 (17) - APR 19 2022 Research Fields: CHEMISTRY	Times Cited: 253 ESI Hot Research Front
	2	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: 249 ESI Hot Research Front
	3	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: 172 ESI Hot Research Front
	4	DUAL OPTIMIZATION APPROACH TO MO SINGLE ATOM DISPERSED G-C3N4 PHOTOCATALYST MORPHOLOGY AND DEFECT EVOLUTION By: ZHANG, C; QIN, DY; ZHOU, Y; et al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 303 - APR 2022 Research Fields: CHEMISTRY	Times Cited: 155 ESI Hot
	5	FRACTIONAL-ORDER DISCRETE-TIME SIR EPIDEMIC MODEL WITH VACCINATION: CHAOS AND COMPLEXITY By: HE, ZY; ABBES, A; JAHANSHAH, H; et al Source: MATHEMATICS 10 (2) - JAN 2022 Research Fields: MATHEMATICS	Times Cited: 118 ESI Hot
	6	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: 118 ESI Hot Research Front

Papers by Research Field

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	7	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: 114 ESI Hot Research Front
	8	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: 106 ESI Hot Research Front
	9	2D HETEROSTRUCTURES FOR UBIQUITOUS ELECTRONICS AND OPTOELECTRONICS: PRINCIPLES, OPPORTUNITIES, AND CHALLENGES By: PHAM, PV., BODEPUDI, SC., SHEHZAD, K., et.al Source: CHEMICAL REVIEWS 122 (6): 6514-6613 MAR 23 2022 Research Fields: CHEMISTRY	Times Cited: 101 ESI Hot
	10	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: 97 ESI Hot Research Front
	11	COBALT SINGLE ATOMS ANCHORED ON OXYGEN-DOPED TUBULAR CARBON NITRIDE FOR EFFICIENT PEROXYMONOSULFATE ACTIVATION: SIMULTANEOUS COORDINATION STRUCTURE AND MORPHOLOGY MODULATION By: WANG, ZW., ALMATRAFI, E., WANG, H., et.al Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 61 (29) - JUL 18 2022 Research Fields: CHEMISTRY	Times Cited: 92 ESI Hot Research Front

Documents	12	IDENTIFICATION OF THE HIGHLY ACTIVE CO-N₄ 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: 85 ESI Hot Research Front
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	16	RECENT ADVANCES AND APPLICATIONS TOWARD EMERGING LITHIUM-SULFUR BATTERIES: WORKING PRINCIPLES AND OPPORTUNITIES By: DENG, RY., WANG, M., YU, HY., et.al Source: ENERGY & ENVIRONMENTAL MATERIALS 5 (3): 777-799 JUL 2022 Research Fields: MATERIALS SCIENCE	Times Cited: 74 ESI Hot
	17	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: 67 ESI Hot Research Front

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	18	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: 63 ESI Hot
	19	OXYGEN VACANCY-MEDIATED SELECTIVE C-N COUPLING TOWARD ELECTROCATALYTIC UREA SYNTHESIS By: WEI, XX., WEN, XJ., LIU, YY., et.al Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY - JUN 22 2022 Research Fields: CHEMISTRY	Times Cited: 55 ESI Hot Research Front
	20	DUAL-THRESHOLD ATTENTION-GUIDED GAN AND LIMITED INFRARED THERMAL IMAGE'S FOR ROTATING MACHINERY FAULT DIAGNOSIS UNDER SPEED FLUCTUATION By: SHAO, HD., LI, W., CAI, BP., et.al Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 19 (9): 9933-9942 SEP 2023 Research Fields: ENGINEERING	Times Cited: 49 ESI Hot Research Front
	21	APPROACHING THE QUANTUM LIMIT IN TWO-DIMENSIONAL SEMICONDUCTOR CONTACTS By: LI, WS., GONG, XS., YU, ZH., et.al Source: NATURE 613 (7943): 274- JAN 12 2023 Research Fields: MATERIALS SCIENCE	Times Cited: 43 ESI Hot Research Front
	22	DATA AUGMENTATION AND INTELLIGENT FAULT DIAGNOSIS OF PLANETARY GEARBOX USING ILOFGAN UNDER EXTREMELY LIMITED SAMPLES By: CHEN, MZ., SHAO, HD., DOU, HX., et.al Source: IEEE TRANSACTIONS ON RELIABILITY 72 (3): 1029-1037 SEP 2023 Research Fields: ENGINEERING	Times Cited: 40 ESI Hot Research Front
	23	TASK CO-OFFLOADING FOR D2D-ASSISTED MOBILE EDGE COMPUTING IN INDUSTRIAL INTERNET OF THINGS By: DAI, XC., XIAO, Z., JIANG, HB., et.al Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 19 (1): 480-490 JAN 2023 Research Fields: ENGINEERING	Times Cited: 39 ESI Hot

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24

HETEROGENEOUS-INTERFACE-ENHANCED ADSORPTION OF ORGANIC AND HYDROXYL FOR BIOMASS ELECTROOXIDATION

By: ZHOU, P.; LV, XS.; TAO, SS.; et al.
Source: ADVANCED MATERIALS 34 (42) - OCT 2022
Research Fields: MATERIALS SCIENCE

Times Cited: 39

ESI Hot

Research Front

25

THE DYNAMICS OF A MEMRISTOR-BASED RULKOV NEURON WITH FRACTIONAL-ORDER DIFFERENCE

By: LI, YM.; WANG, CH.; DENG, QL.; et al.
Source: CHINESE PHYSICS B 31 (6) - JUN 1 2022
Research Fields: PHYSICS

Times Cited: 36

ESI Hot

Research Front

26

DYNAMIC SEMICONDUCTOR-ELECTROLYTE INTERFACE FOR SUSTAINABLE SOLAR WATER SPLITTING OVER 600 HOURS UNDER NEUTRAL CONDITIONS

By: GAO, RT.; NGUYEN, NT.; NAKAJIMA, T.; et al.
Source: SCIENCE ADVANCES 9 (1) - JAN 6 2023
Research Fields: CHEMISTRY

Times Cited: 31

ESI Hot

Research Front

27

STAGGERED CIRCULAR NANOPOROUS GRAPHENE CONVERTS ELECTROMAGNETIC WAVES INTO ELECTRICITY

By: LV, HL.; YAO, YX.; LI, SC.; et al.
Source: NATURE COMMUNICATIONS 14 (1) - APR 8 2023
Research Fields: MATERIALS SCIENCE

Times Cited: 30

ESI Hot

Research Front

28

ACHIEVING HIGHLY PROTON-RESISTANT ZN-PB ANODE THROUGH LOW HYDROGEN AFFINITY AND STRONG BONDING FOR LONG-LIFE ELECTROLYTIC ZN/MNO₂ BATTERY

By: RUAN, PC.; CHEN, XH.; QIN, LP.; et al.
Source: ADVANCED MATERIALS 35 (31) - AUG 2023
Research Fields: MATERIALS SCIENCE

Times Cited: 29

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29

APMSA: ADVERSARIAL PERTURBATION AGAINST MODEL STEALING ATTACKS

By: ZHANG, JL.; PENG, S.; GAO, YS.; et al
Source: IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY 18: 1667-1679 2023
Research Fields: COMPUTER SCIENCE

Times Cited: 29

ESI Hot

Research Front

30

BILAYER TUNGSTEN DISELENIDE TRANSISTORS WITH ON-STATE CURRENTS EXCEEDING 1.5 MILLIAMPERES PER MICROMETRE

By: WU, RX.; TAO, QY.; LI, J.; et al
Source: NATURE ELECTRONICS 5 (8): 497-+ AUG 2022
Research Fields: ENGINEERING

Times Cited: 27

ESI Hot

31

LINKER REGULATION OF IRON-BASED MOFS FOR HIGHLY EFFECTIVE FENTON-LIKE DEGRADATION OF REFRACTORY ORGANIC CONTAMINANTS

By: CHEN, JY.; QIN, CC.; MOU, Y.; et al
Source: CHEMICAL ENGINEERING JOURNAL 459 - MAR 1 2023
Research Fields: ENGINEERING

Times Cited: 24

ESI Hot

Research Front

32

A REVIEW OF CHAOTIC SYSTEMS BASED ON MEMRISTIVE HOPFIELD NEURAL NETWORKS

By: LIN, HR.; WANG, CH.; YU, F.; et al
Source: MATHEMATICS 11 (6) - MAR 2023
Research Fields: MATHEMATICS

Times Cited: 23

ESI Hot

Research Front

33

MULTISTABILITY AND PHASE SYNCHRONIZATION OF RULKOV NEURONS COUPLED WITH A LOCALLY ACTIVE DISCRETE MEMRISTOR

By: MA, ML.; LU, YP.; LI, ZJ.; et al
Source: FRACTAL AND FRACTIONAL 7 (1) - JAN 2023
Research Fields: MATHEMATICS

Times Cited: 23

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34

COLLABORATIVE FAULT DIAGNOSIS OF ROTATING MACHINERY VIA DUAL ADVERSARIAL GUIDED UNSUPERVISED MULTI-DOMAIN ADAPTATION NETWORK

By: CHEN, XK.; SHAO, HD.; XIAO, YM.; et al
Source: MECHANICAL SYSTEMS AND SIGNAL PROCESSING 198 - SEP 1 2023
Research Fields: ENGINEERING

Times Cited: 22

ESI Hot

Research Front

35

FGDAE: A NEW MACHINERY ANOMALY DETECTION METHOD TOWARDS COMPLEX OPERATING CONDITIONS

By: YAN, S.; SHAO, HD.; MIN, ZS.; et al
Source: RELIABILITY ENGINEERING & SYSTEM SAFETY 236 - AUG 2023
Research Fields: ENGINEERING

Times Cited: 20

ESI Hot

Research Front

36

FACING THE CAPACITY FADING OF VANADIUM-BASED ZINC-ION BATTERIES

By: XING, ZY.; XU, GF.; HAN, JW.; et al
Source: TRENDS IN CHEMISTRY 5 (5): 380-392 MAY 2023
Research Fields: CHEMISTRY

Times Cited: 19

ESI Hot

Research Front

37

WIDEBAND GAIN ENHANCEMENT OF MIMO ANTENNA AND ITS APPLICATION IN FMCW RADAR SENSOR INTEGRATED WITH CMOS-BASED TRANSCIEVER CHIP FOR HUMAN RESPIRATORY MONITORING

By: WANG, WS.; FANG, ZY.; TANG, K.; et al
Source: IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION 71 (1): 318-329 JAN 2023
Research Fields: ENGINEERING

Times Cited: 19

ESI Hot

38

CONCURRENT LOW-POWER LISTENING: A NEW DESIGN PARADIGM FOR DUTY-CYCLING COMMUNICATION

By: LIU, DB.; CAO, ZC.; JIANG, HB.; et al
Source: ACM TRANSACTIONS ON SENSOR NETWORKS 19 (1) - FEB 2023
Research Fields: COMPUTER SCIENCE

Times Cited: 18

ESI Hot

Citation Trends		Sort By Citations		Customize Documents		1 - 45	
Documents		39		SINGLE-ATOMIC-SITE PLATINUM STEERS PHOTOGENERATED CHARGE CARRIER LIFETIME OF HEMATITE NANOFILAKES FOR PHOTOELECTROCHEMICAL WATER SPLITTING		Times Cited: 17	
By: GAO, RT; ZHANG, JW; NAKAJIMA, T. et al						ESI Hot	
Source: NATURE COMMUNICATIONS 14 (1): - MAY 8 2023						Research Front	
Research Fields: CHEMISTRY							
40				CARBOXYMETHYL CHITOSAN-MODIFIED ZINC ANODE FOR HIGH-PERFORMANCE ZINC-IODINE BATTERY WITH NARROW OPERATING VOLTAGE		Times Cited: 16	
By: YI, RJ; SHI, XD; TANG, Y. et al						ESI Hot	
Source: SMALL STRUCTURES - MAY 1 2023						Research Front	
Research Fields: MATERIALS SCIENCE							
41				SELECTIVE POTASSIUM DEPOSITION ENABLES DENDRITE-RESISTANT ANODES FOR ULTRASTABLE POTASSIUM-METAL BATTERIES		Times Cited: 14	
By: FENG, YH; RAO, AM; ZHOU, J. et al						ESI Hot	
Source: ADVANCED MATERIALS 35 (30): - JUL 2023						Research Front	
Research Fields: MATERIALS SCIENCE							
42				ADVANCES IN GRAPHENE-BASED FLEXIBLE AND WEARABLE STRAIN SENSORS		Times Cited: 14	
By: CHEN, H; ZHUO, FL; ZHOU, J. et al						ESI Hot	
Source: CHEMICAL ENGINEERING JOURNAL 464: - MAY 15 2023							
Research Fields: ENGINEERING							
43				HIERARCHICAL VELOCITY OPTIMIZATION FOR CONNECTED AUTOMATED VEHICLES WITH CELLULAR VEHICLE-TO-EVERYTHING COMMUNICATION AT CONTINUOUS SIGNALIZED INTERSECTIONS		Times Cited: 11	
By: ZHANG, XZ; FANG, SC; SHEN, YP. et al						ESI Hot	
Source: IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS - JUN 5 2023							
Research Fields: ENGINEERING							
44				ZERO-SHOT HYPERSPECTRAL SHARPENING		Times Cited: 9	
By: DIAN, R; GUO, AJ; LI, ST						ESI Hot	
Source: IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE 45 (10): 12650-12666 OCT 2023							
Research Fields: ENGINEERING							
45				HETEROSTRUCTURES REGULATING LITHIUM POLYSULFIDES FOR ADVANCED LITHIUM-SULFUR BATTERIES		Times Cited: 4	
By: WANG, T; HE, JR; ZHU, Z. et al						ESI Hot	
Source: ADVANCED MATERIALS - OCT 15 2023							
Research Fields: MATERIALS SCIENCE							
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以上 45 篇论文中有 3 篇是环境学院的论文：

- 1) Chen Zhang*, Deyu Qin, Yin Zhou, Fanzhi Qin, Hou Wang, Wenjun Wang, Yang Yang, Guangming Zeng*, Dual optimization approach to Mo single atom dispersed g-C3N4 photocatalyst: Morphology and defect evolution, Applied Catalysis B: Environmental (SCI 2022 IF=22.1) 303 (2022) 120904. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 3 次上榜)
- 2) 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 2022 IF=16.6). 2022. e202202338 (1-10) (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 3 次上榜)
- 3) Junying Chen, Chencheng Qin, Yi Mou, Yixin Cao, Haoyun Chen, Xingzhong Yuan, Hou Wang, Linker regulation of iron-based MOFs for highly effective Fenton-like degradation of refractory organic contaminants, Chemical Engineering Journal, (SCI 2022 IF=15.1), 459 (2023) 141588 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)