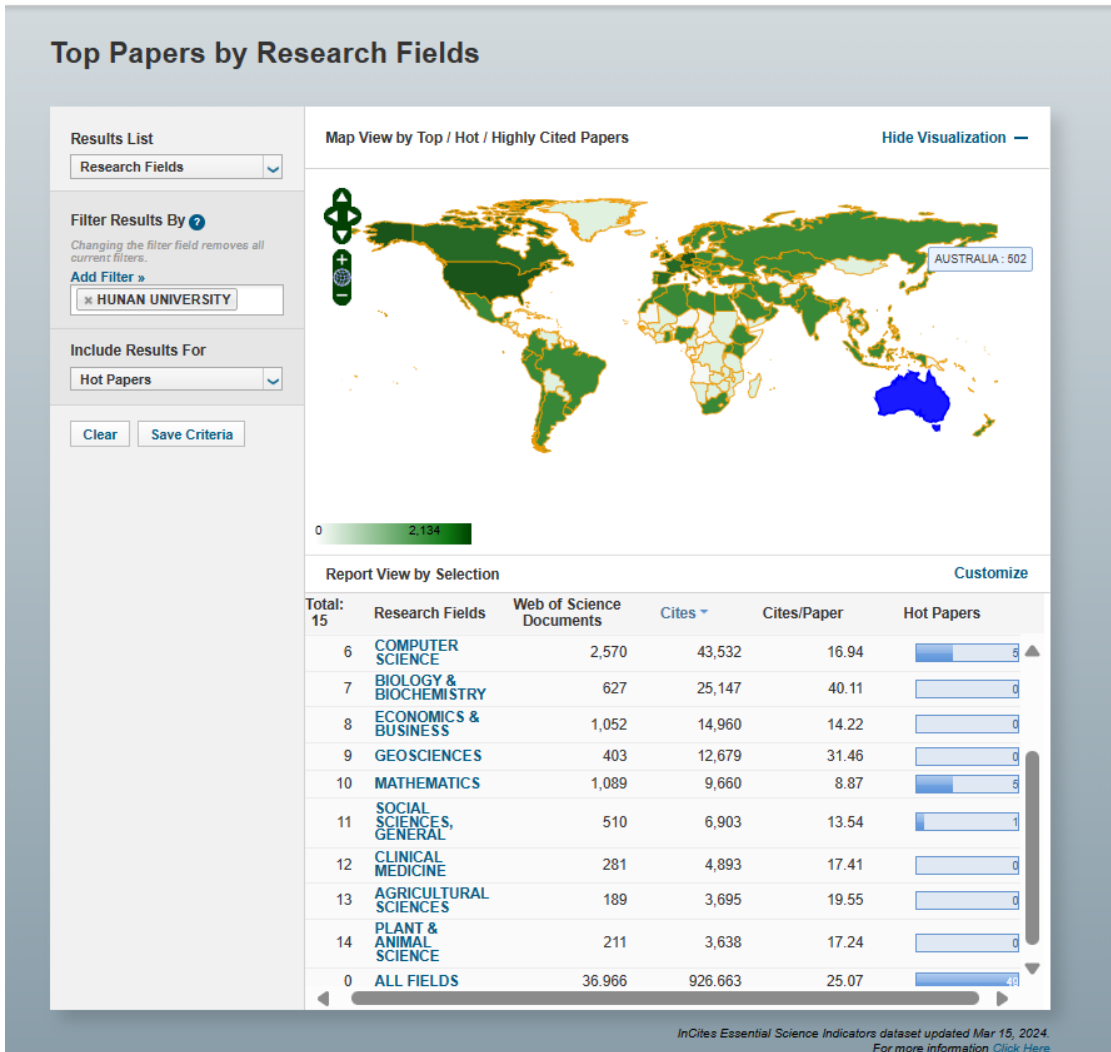


1. Essential Science Indicators for Hot papers for Hunan University on Mar 15, 2024.



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	1	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: 334 ESI Hot Research Front
	2	INTERFACIAL ENGINEERING STRATEGY FOR HIGH-PERFORMANCE ZN METAL ANODES By: LI, B; ZHANG, XT; WANG, TL; et al Source: NANO-MICRO LETTERS 14 (1): - 2022 Research Fields: MATERIALS SCIENCE	Times Cited: 174 ESI Hot
	3	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: 147 ESI Hot Research Front
	4	ULTRASENSITIVE LABEL-FREE VOLTAMMETRIC DETERMINATION OF NORFLOXACIN BASED ON MOLECULARLY IMPRINTED POLYMERS AND AU NANOPARTICLE-FUNCTIONALIZED BLACK PHOSPHORUS NANOSHEET NANOCOMPOSITE By: LI, G; QI, XM; WU, JT; et al Source: JOURNAL OF HAZARDOUS MATERIALS 436: - AUG 15 2022 Research Fields: ENGINEERING	Times Cited: 120 ESI Hot Research Front
	5	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: 115 ESI Hot Research Front
	6	IDENTIFICATION OF THE HIGHLY ACTIVE CO ₄ 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: 107 ESI Hot Research Front

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		By: WANG, P.-J., LIANG, S.Q., CHEN, C., et al Source: ADVANCED MATERIALS 34 (33) - AUG 2022 Research Fields: MATERIALS SCIENCE	ESI Hot
	8	LIGHTWEIGHT HYBRID MATERIALS AND STRUCTURES FOR ENERGY ABSORPTION: A STATE-OF-THE-ART REVIEW AND OUTLOOK	Times Cited: 91
		By: SUN, G.Y., CHEN, D.D., ZHU, G.H., et al Source: THIN-WALLED STRUCTURES 172 - MAR 2022 Research Fields: ENGINEERING	ESI Hot
	9	THE EMERGING DRIVING FORCE OF ENERGY CONSUMPTION IN CHINA: DOES DIGITAL ECONOMY DEVELOPMENT MATTER?	Times Cited: 81
		By: XUE, Y., TANG, C., WU, H.T., et al Source: ENERGY POLICY 165 - JUN 2022 Research Fields: SOCIAL SCIENCES, GENERAL	ESI Hot Research Front
	10	OXYGEN VACANCY-MEDIATED SELECTIVE C-N COUPLING TOWARD ELECTROCATALYTIC UREA SYNTHESIS	Times Cited: 74
		By: WEI, X.X., WEN, X.J., LIU, Y.Y., et al Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY - JUN 22 2022 Research Fields: CHEMISTRY	ESI Hot Research Front
	11	DIELECTRIC METALENS FOR MINIATURIZED IMAGING SYSTEMS: PROGRESS AND CHALLENGES	Times Cited: 69
		By: PAN, M.Y., FU, Y.F., ZHENG, M.J., et al Source: LIGHT-SCIENCE & APPLICATIONS 11 (1) - JUN 28 2022 Research Fields: PHYSICS	ESI Hot
	12	A TAILORED ELECTROLYTE FOR SAFE AND DURABLE POTASSIUM ION BATTERIES	Times Cited: 64
		By: FAN, L., XIE, H.B., HU, Y.Y., et al Source: ENERGY & ENVIRONMENTAL SCIENCE 16 (1): 305-315 JAN 18 2023 Research Fields: ENVIRONMENT/ECOLOGY	ESI Hot Research Front

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	13	TASK CO-OFFLOADING FOR D2D-ASSISTED MOBILE EDGE COMPUTING IN INDUSTRIAL INTERNET OF THINGS	Times Cited: 62
		By: DAI, X.X., XIAO, Z., JIANG, H.B., et al Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 19 (1): 480-490 JAN 2023 Research Fields: ENGINEERING	Research Front
	14	DUAL-THRESHOLD ATTENTION-GUIDED GAN AND LIMITED INFRARED THERMAL IMAGES FOR ROTATING MACHINERY FAULT DIAGNOSIS UNDER SPEED FLUCTUATION	Times Cited: 60
		By: SHAO, H.D., LI, W., CAI, B.P., et al Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 19 (9): 9933-9942 SEP 2023 Research Fields: ENGINEERING	ESI Hot Research Front
	15	AN ENERGY-EFFICIENT FRAMEWORK FOR INTERNET OF THINGS UNDERLYING HETEROGENEOUS SMALL CELL NETWORKS	Times Cited: 56
		By: JIANG, H.B., XIAO, Z., LI, Z.X., et al Source: IEEE TRANSACTIONS ON MOBILE COMPUTING 21 (1): 31-43 JAN 1 2022 Research Fields: COMPUTER SCIENCE	ESI Hot Research Front
	16	DATA AUGMENTATION AND INTELLIGENT FAULT DIAGNOSIS OF PLANETARY GEARBOX USING ILOFGAN UNDER EXTREMELY LIMITED SAMPLES	Times Cited: 53
		By: CHEN, M.Z., SHAO, H.D., DOU, H.X., et al Source: IEEE TRANSACTIONS ON RELIABILITY 72 (3): 1029-1037 SEP 2023 Research Fields: ENGINEERING	ESI Hot Research Front
	17	JOINT TASK OFFLOADING AND RESOURCE ALLOCATION FOR ENERGY-CONSTRAINED MOBILE EDGE COMPUTING	Times Cited: 52
		By: JIANG, H.B., DAI, X.X., XIAO, Z., et al Source: IEEE TRANSACTIONS ON MOBILE COMPUTING 22 (7): 4000-4015 JUL 1 2023 Research Fields: COMPUTER SCIENCE	ESI Hot Research Front
	18	IN SITU FORMED UNIFORM AND ELASTIC SEI FOR HIGH-PERFORMANCE BATTERIES	Times Cited: 50
		By: GU, M.Y., RAO, A.M., ZHOU, J., et al Source: ENERGY & ENVIRONMENTAL SCIENCE 16 (3): 1166-1175 MAR 15 2023 Research Fields: ENVIRONMENT/ECOLOGY	ESI Hot Research Front

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	19	A LOW-PROFILE PROGRAMMABLE BEAM SCANNING HOLOGRAPHIC ARRAY ANTENNA WITHOUT PHASE SHIFTERS	Times Cited: 49
		By: PAN, S.P., LIN, M.T., XU, M., et al Source: IEEE INTERNET OF THINGS JOURNAL 9 (11): 8838-8851 JUN 1 2022 Research Fields: COMPUTER SCIENCE	ESI Hot
	20	ACHIEVING HIGHLY PROTON-RESISTANT ZN-PB ANODE THROUGH LOW HYDROGEN AFFINITY AND STRONG BONDING FOR LONG-LIFE ELECTROLYTIC ZN/MNO ₂ BATTERY	Times Cited: 46
		By: RUAN, P.C., CHEN, X.H., QIN, L.P., et al Source: ADVANCED MATERIALS 35 (31) - AUG 2023 Research Fields: MATERIALS SCIENCE	ESI Hot Research Front
	21	COLLABORATIVE FAULT DIAGNOSIS OF ROTATING MACHINERY VIA DUAL ADVERSARIAL GUIDED UNSUPERVISED MULTI-DOMAIN ADAPTATION NETWORK	Times Cited: 42
		By: CHEN, X.X., SHAO, H.D., XIAO, Y.M., et al Source: MECHANICAL SYSTEMS AND SIGNAL PROCESSING 198 - SEP 1 2023 Research Fields: ENGINEERING	ESI Hot Research Front
	22	MULTI-SCALE INTEGRATED DEEP SELF-ATTENTION NETWORK FOR PREDICTING REMAINING USEFUL LIFE OF AERO-ENGINE	Times Cited: 39
		By: ZHAO, K., JIA, Z., JIA, F., et al Source: ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE 120 - APR 2023 Research Fields: ENGINEERING	ESI Hot
	23	FGDAE: A NEW MACHINERY ANOMALY DETECTION METHOD TOWARDS COMPLEX OPERATING CONDITIONS	Times Cited: 38
		By: YAN, S., SHAO, H.D., MIN, Z.S., et al Source: RELIABILITY ENGINEERING & SYSTEM SAFETY 236 - AUG 2023 Research Fields: ENGINEERING	ESI Hot Research Front
	24	RECONFIGURABLE LOGIC-IN-MEMORY ARCHITECTURES BASED ON A TWO-DIMENSIONAL VAN DER WAALS HETEROSTRUCTURE DEVICE	Times Cited: 38
		By: SUN, X.X., ZHU, C.G., YI, J., et al Source: NATURE ELECTRONICS 5 (11): 752 - NOV 2022 Research Fields: ENGINEERING	ESI Hot

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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: 35

ESI Hot

Research Front

26

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: 30

ESI Hot

Research Front

27

PERCEPTION TASK OFFLOADING WITH COLLABORATIVE COMPUTATION FOR AUTONOMOUS DRIVING

By XIAO, Z., SHU, JM., JIANG, HB., et al

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS 41 (2): 457-473 FEB 2023

Research Fields: COMPUTER SCIENCE

Times Cited: 30

ESI Hot

28

CARBOXYMETHYL CHITOSAN MODIFIED ZINC ANODE FOR HIGH-PERFORMANCE ZINC-IODINE BATTERY WITH NARROW OPERATING VOLTAGE

By YI, RJ., SHI, XD., TANG, Y., et al

Source: SMALL STRUCTURES - MAY 1 2023

Research Fields: MATERIALS SCIENCE

Times Cited: 30

ESI Hot

Research Front

29

MULTI-OBJECTIVE PARALLEL TASK OFFLOADING AND CONTENT CACHING IN D2D-AIDED MEC NETWORKS

By XIAO, Z., SHU, JM., JIANG, HB., et al

Source: IEEE TRANSACTIONS ON MOBILE COMPUTING 22 (11): 6599-6615 NOV 1 2023

Research Fields: COMPUTER SCIENCE

Times Cited: 28

ESI Hot

Research Front

30

SELECTION CRITERIA FOR ELECTRICAL DOUBLE LAYER STRUCTURE REGULATORS ENABLING STABLE ZN METAL ANODES

By HUANG, C., ZHAO, X., HAO, YS., et al

Source: ENERGY & ENVIRONMENTAL SCIENCE 16 (4): 1721-1731 APR 12 2023

Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 27

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31	<p>A CHAOTIC IMAGE ENCRYPTION METHOD BASED ON THE ARTIFICIAL FISH SWARMS ALGORITHM AND THE DNA CODING</p> <p>By: ZHU, Y., WANG, CH., SUN, JR., et al Source: MATHEMATICS 11 (3) - FEB 2023 Research Fields: MATHEMATICS</p>	<p>Times Cited: 26</p> <p>ESI Hot</p> <p>Research Front</p>	
32	<p>DYNAMIC ANALYSIS AND AUDIO ENCRYPTION APPLICATION IN IOT OF A MULTI-SCROLL FRACTIONAL-ORDER MEMRISTIVE HOPFIELD NEURAL NETWORK</p> <p>By: YU, F., YU, QL., CHEN, HF., et al Source: FRACTAL AND FRACTIONAL 6 (7) - JUL 2022 Research Fields: MATHEMATICS</p>	<p>Times Cited: 26</p> <p>ESI Hot</p> <p>Research Front</p>	
33	<p>DUAL MECHANISM OF ION (DE)INTERCALATION AND IODINE REDOX TOWARDS ADVANCED ZINC BATTERIES</p> <p>By: YANG, YQ., GUO, S., PAN, YC., et al Source: ENERGY & ENVIRONMENTAL SCIENCE 16 (5) 2358-2367 MAY 17 2023 Research Fields: ENVIRONMENT/ECOLOGY</p>	<p>Times Cited: 23</p> <p>ESI Hot</p>	
34	<p>OPTICAL SYNAPTIC DEVICES WITH ULTRA-LOW POWER CONSUMPTION FOR NEUROMORPHIC COMPUTING</p> <p>By: ZHU, CG., LIU, HW., WANG, WQ., et al Source: LIGHT-SCIENCE & APPLICATIONS 11 (1) - NOV 29 2022 Research Fields: PHYSICS</p>	<p>Times Cited: 22</p> <p>ESI Hot</p>	
35	<p>A MEMRISTIVE SPIKING NEURAL NETWORK CIRCUIT WITH SELECTIVE SUPERVISED ATTENTION ALGORITHM</p> <p>By: DENG, ZK., WANG, CH., LIN, HR., et al Source: IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS 42 (8): 2604-2617 AUG 2023 Research Fields: ENGINEERING</p>	<p>Times Cited: 19</p> <p>ESI Hot</p> <p>Research Front</p>	
36	<p>TOWARDS TRUSTWORTHY ROTATING MACHINERY FAULT DIAGNOSIS VIA ATTENTION UNCERTAINTY IN TRANSFORMER</p> <p>By: XIAO, YM., SHAO, HD., FENG, MJ., et al Source: JOURNAL OF MANUFACTURING SYSTEMS 70: 186-201 OCT 2023 Research Fields: ENGINEERING</p>	<p>Times Cited: 19</p> <p>ESI Hot</p> <p>Research Front</p>	

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37

SELF-ASSEMBLED MULTILAYERS DIRECT A BUFFER INTERPHASE FOR LONG-LIFE AQUEOUS ZINC-ION BATTERIES

By LI, DM., TANG, Y., LIANG, SQ., et al

Source: ENERGY & ENVIRONMENTAL SCIENCE 16 (8): 3381-3390 AUG 9 2023

Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 17

ESI Hot

38

EFFECT OF CHARGE TRANSPORT ON ELECTRICAL DEGRADATION IN POLYPROPYLENE/ORGANIC MOLECULAR SEMICONDUCTOR COMPOSITES FOR HVDC CABLE INSULATION

By YUAN, C., LIU, DD., ZHU, YJ., et al

Source: APPLIED PHYSICS LETTERS 122 (11) - MAR 13 2023

Research Fields: PHYSICS

Times Cited: 16

ESI Hot

Research Front

39

ANGULAR MOMENTUM HOLOGRAPHY VIA A MINIMALIST METASURFACE FOR OPTICAL NESTED ENCRYPTION

By YANG, H., HE, P., OU, K., et al

Source: LIGHT-SCIENCE & APPLICATIONS 12 (1) - MAR 28 2023

Research Fields: PHYSICS

Times Cited: 15

ESI Hot

Research Front

40

A WEARABLE LOCALIZED SURFACE PLASMONS ANTENNA SENSOR FOR COMMUNICATION AND SWEAT SENSING

By ZHANG, C., XIAO, P., ZHAO, ZT., et al

Source: IEEE SENSORS JOURNAL 23 (11): 11591-11599 JUN 1 2023

Research Fields: ENGINEERING

Times Cited: 15

ESI Hot

41

DUAL DONOR-ACCEPTOR COVALENT ORGANIC FRAMEWORKS FOR HYDROGEN PEROXIDE PHOTOSYNTHESIS

By QIN, CC., WU, XD., TANG, L., et al

Source: NATURE COMMUNICATIONS 14 (1) - AUG 28 2023

Research Fields: CHEMISTRY

Times Cited: 15

ESI Hot

42

A FAST HYPERCHAOTIC IMAGE ENCRYPTION SCHEME

By MA, XJ., WANG, CH., QIU, WL., et al

Source: INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS 33 (05) - APR 2023

Research Fields: MATHEMATICS

Times Cited: 15

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43

DEEPMO-KIT V2: A SOFTWARE PACKAGE FOR DEEP POTENTIAL MODELS
By: ZENG, JZ; ZHANG, D, LU, DH; et al
Source: JOURNAL OF CHEMICAL PHYSICS 159 (5) - AUG 7 2023
Research Fields: CHEMISTRY

Times Cited: 14
ESI Hot

44

TEST OF LEPTON UNIVERSALITY IN $B \rightarrow SL+L$ DECAYS
By: AAU, R; ABDELMOULLEB, ASW; BETETA, CA, et al
Source: PHYSICAL REVIEW LETTERS 131 (5) - AUG 2 2023
Research Fields: PHYSICS

Times Cited: 11
ESI Hot
Research Front

45

HETEROSTRUCTURES REGULATING LITHIUM POLYSULFIDES FOR ADVANCED LITHIUM-SULFUR BATTERIES
By: WANG, T; HE, JR; ZHU, Z; et al
Source: ADVANCED MATERIALS - OCT 15 2023
Research Fields: MATERIALS SCIENCE

Times Cited: 11
ESI Hot

46

MEASUREMENT OF LEPTON UNIVERSALITY PARAMETERS IN B PLUS $7K$ PLUS $L+L$ - AND $B07K70L+L$ - DECAYS
By: AAU, R; ABDELMOULLEB, ASW; BETETA, CA; et al
Source: PHYSICAL REVIEW D 108 (3) - AUG 2 2023
Research Fields: PHYSICS

Times Cited: 9
ESI Hot
Research Front

47

A CLASS OF $2n+1$ DIMENSIONAL SIMPLEST HAMILTONIAN CONSERVATIVE CHAOTIC SYSTEMS AND FAST IMAGE ENCRYPTION SCHEMES
By: KONG, XX, YU, F; YAO, W; et al
Source: APPLIED MATHEMATICAL MODELLING 125: 351-374 PART B JAN 2024
Research Fields: ENGINEERING

Times Cited: 7
ESI Hot

48

OCCURRENCE AND EFFECTS OF MICROPLASTICS IN LAKE ECOSYSTEMS: PARTICULAR FOCUS ON MIGRATION IN WATER AND FOOD CHAINS
By: YIN, LS; DU, L; WEN, XF; et al
Source: REVIEWS OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 261 (1) - DEC 2023
Research Fields: ENVIRONMENT/ECOLOGY

Times Cited: 6
ESI Hot

49

APTAMER-PROTEIN INTERACTIONS: FROM REGULATION TO BIOMOLECULAR DETECTION
By: JI, CL; WEI, JY; ZHANG, L; et al
Source: CHEMICAL REVIEWS 123 (22): 12471-12506 NOV 6 2023
Research Fields: CHEMISTRY

Times Cited: 3
ESI Hot

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- 1) C. Qin, X. Wu, L. Tang, X. Chen, M. Li, Y. Mou, B. Su, S. Wang, C. Feng, J. Liu, X. Yuan*, Y. Zhao*, H. Wang*, Dual donor-acceptor covalent organic frameworks for hydrogen peroxide photosynthesis, Nature Communications (SCI 2022 IF=16.6) 14 (2023) 5238. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)
- 2) L. Yin, L. Du, X. Wen, D. Huang*, R. Xiao, Z. Wang, H. Su, J. Huang, G. Wang, J. Tao, Y. Kang, Occurrence and Effects of Microplastics in Lake Ecosystems: Particular Focus on Migration in Water and Food Chains, Reviews of Environmental Contamination and Toxicology (SCI 2022 IF=6.0) 261 (2023) 11. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)