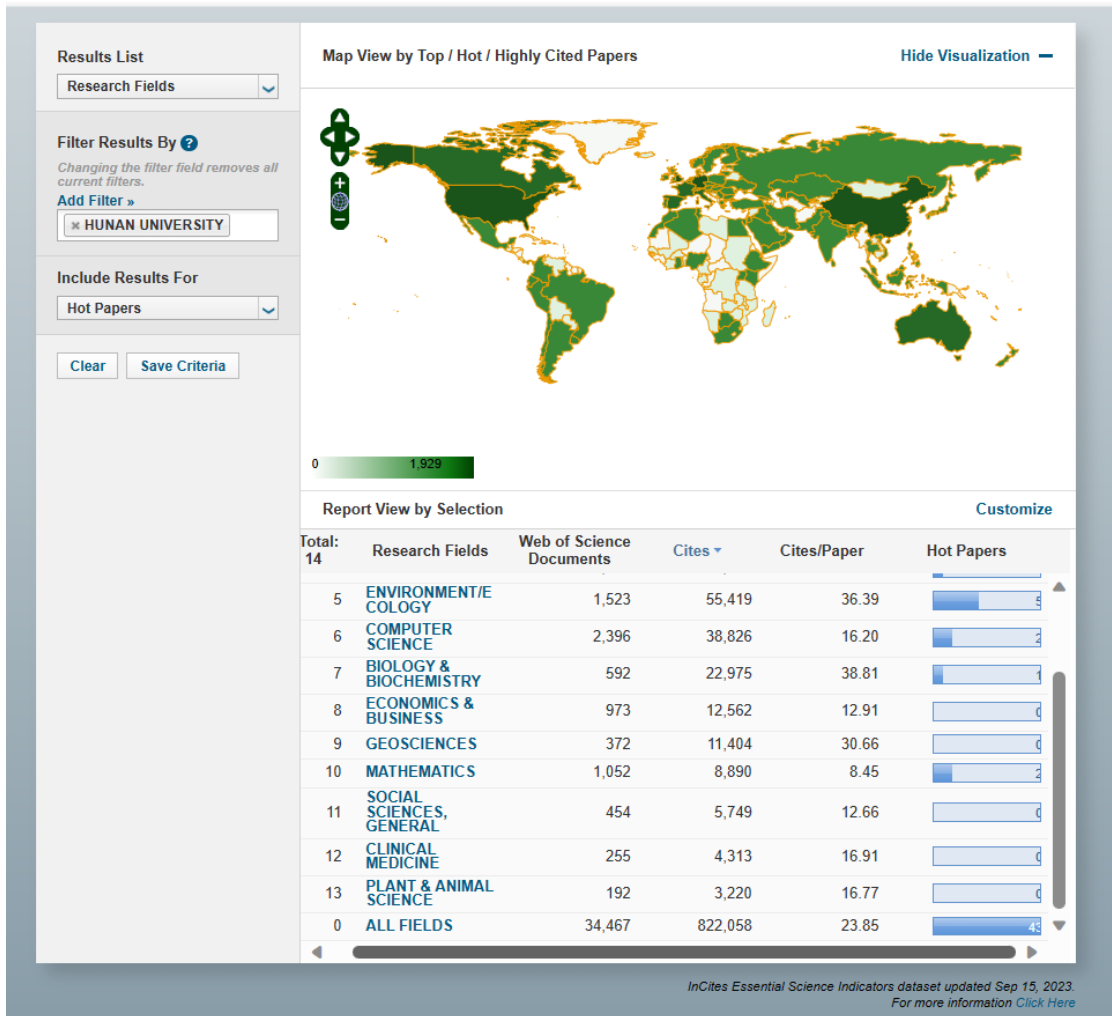


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1	A REVIEW OF LITHIUM-ION BATTERY SAFETY CONCERNS: THE ISSUES, STRATEGIES, AND TESTING STANDARDS	By: CHEN, YQ; KANG, YQ; ZHAO, Y; et al Source: JOURNAL OF ENERGY CHEMISTRY 59: 83-99 AUG 2021 Research Fields: CHEMISTRY	Times Cited: 375	ESI Hot	
2	DESIGN 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: 245	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: 225	ESI Hot	Research Front
4	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: 190	ESI Hot	
5	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: 134	ESI Hot	Research Front
6	ADAPTIVE PAYLOAD DISTRIBUTION IN MULTIPLE IMAGES STEGANOGRAPHY BASED ON IMAGE TEXTURE FEATURES	By: LIAO, X; YIN, JJ; CHEN, ML; et al Source: IEEE TRANSACTIONS ON DEPENDABLE AND SECURE COMPUTING 19 (2): 897-911 MAR-APR 2022 Research Fields: COMPUTER SCIENCE	Times Cited: 131	ESI Hot	Research Front

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	8 FRACTIONAL-ORDER DISCRETE-TIME SIR EPIDEMIC MODEL WITH VACCINATION: CHAOS AND COMPLEXITY By: HE, ZY; ABBES, A; JAHANSHAHI, H; et al Source: MATHEMATICS 10 (2) - JAN 2022 Research Fields: MATHEMATICS Times Cited: 111 ESI Hot Research Front		
	9 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: 88 ESI Hot Research Front		
	10 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: 82 ESI Hot Research Front		
	11 DESCRIPTORS FOR THE EVALUATION OF ELECTROCATALYTIC REACTIONS: D-BAND THEORY AND BEYOND By: JIAO, SL; FU, XW; HUANG, HW Source: ADVANCED FUNCTIONAL MATERIALS 32 (4) - JAN 2022 Research Fields: MATERIALS SCIENCE Times Cited: 80 ESI Hot		
	12 CONSTRUCTING A PLASMA-BASED SCHOTTKY HETEROJUNCTION FOR NEAR-INFRARED-DRIVEN PHOTOTHERMAL SYNERGISTIC WATER DISINFECTION: SYNERGETIC EFFECTS AND ANTIBACTERIAL MECHANISMS By: YANG, YY; FENG, HP; NIU, CG; et al Source: CHEMICAL ENGINEERING JOURNAL 426 - DEC 15 2021 Research Fields: ENGINEERING Times Cited: 79 ESI Hot Research Front		

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	14 HIGHLY EFFICIENT FAULT DIAGNOSIS OF ROTATING MACHINERY UNDER TIME-VARYING SPEEDS USING LSIMM 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: 78 ESI Hot Research Front		
	15 MICROPLASTICS AS A VEHICLE OF HEAVY METALS IN AQUATIC ENVIRONMENTS: A REVIEW OF ADSORPTION FACTORS, MECHANISMS, AND BIOLOGICAL EFFECTS By: LIU, S; HUANG, JH; ZHANG, W; et al Source: JOURNAL OF ENVIRONMENTAL MANAGEMENT 302 - PART A JAN 15 2022 Research Fields: ENVIRONMENT/ECOLOGY Times Cited: 76 ESI Hot		
	16 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: 75 ESI Hot Research Front		
	17 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: 73 ESI Hot Research Front		
	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: 65 ESI Hot Research Front		

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	19	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): 942-955 MAR 2023 Research Fields: ENGINEERING	Times Cited: 65 ESI Hot Research Front
	20	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: 64 ESI Hot Research Front
	21	LIGHTWEIGHT HYBRID MATERIALS AND STRUCTURES FOR ENERGY ABSORPTION: A STATE-OF-THE-ART REVIEW AND OUTLOOK By: SUN, GY; CHEN, DD; ZHU, GH; et al Source: THIN-WALLED STRUCTURES 172: - MAR 2022 Research Fields: ENGINEERING	Times Cited: 61 ESI Hot
	22	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: 49 ESI Hot
	23	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: 49 ESI Hot Research Front
	24	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: 48 ESI Hot Research Front

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	25	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: 36 ESI Hot Research Front
	26	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: 30 ESI Hot Research Front
	27	DESIGN STRATEGIES FOR MARKEDLY ENHANCING ENERGY EFFICIENCY IN THE ELECTROCATALYTIC CO2 REDUCTION REACTION By: LAI, WC; QIAO, Y; ZHANG, JW; et al Source: ENERGY & ENVIRONMENTAL SCIENCE 15 (9): 3603-3629 SEP 14 2022 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 30 ESI Hot
	28	A FUNCTIONALIZED SEPARATOR ENABLES DENDRITE-FREE ZN ANODE VIA METAL-POLYDOPAMINE COORDINATION CHEMISTRY By: LIU, YF; LIU, SD; XIE, XS; et al Source: INFOMAT 5 (3): - MAR 2023 Research Fields: MATERIALS SCIENCE	Times Cited: 28 ESI Hot
	29	APPROPRIATE OXYGEN VACANCIES AND MO-N BOND SYNERGISTICALLY MODULATE CHARGE TRANSFER DYNAMICS OF MOO3_X/S-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: 24 ESI Hot
	30	REVERSIBLE OXYGEN-RICH FUNCTIONAL GROUPS GRAFTED 3D HONEYCOMB-LIKE CARBON ANODE FOR SUPER-LONG POTASSIUM ION BATTERIES By: CHENG, N; ZHOU, W; LIU, JL; et al Source: NANO-MICRO LETTERS 14 (1): - DEC 2022 Research Fields: MATERIALS SCIENCE	Times Cited: 23 ESI Hot

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	31	BIOCOMPATIBLE ZINC BATTERY WITH PROGRAMMABLE ELECTRO-CROSS-LINKED ELECTROLYTE By: XIE, XS; LI, JJ; XING, ZY; et al Source: NATIONAL SCIENCE REVIEW 10 (3): - FEB 28 2023 Research Fields: MATERIALS SCIENCE	Times Cited: 23 ESI Hot Research Front
	32	IN SITU FORMED UNIFORM AND ELASTIC SEI FOR HIGH-PERFORMANCE BATTERIES By: GU, MY; RAO, AM; ZHOU, J; et al Source: ENERGY & ENVIRONMENTAL SCIENCE 16 (3): 1166-1175 MAR 15 2023 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 22 ESI Hot Research Front
	33	PHASE-ENGINEERED CATHODE FOR SUPER-STABLE POTASSIUM STORAGE By: WU, LC; FU, HW; LI, S; et al Source: NATURE COMMUNICATIONS 14 (1): - FEB 6 2023 Research Fields: MATERIALS SCIENCE	Times Cited: 20 ESI Hot Research Front
	34	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: 18 ESI Hot
	35	MILESTONES IN AUTONOMOUS DRIVING AND INTELLIGENT VEHICLES: SURVEY OF SURVEYS By: CHEN, L; LI, YC; HUANG, C; et al Source: IEEE TRANSACTIONS ON INTELLIGENT VEHICLES 8 (2): 1046-1056 FEB 2023 Research Fields: ENGINEERING	Times Cited: 18 ESI Hot Research Front
	36	THE COLLISION BETWEEN G-C3N4 AND QDS IN THE FIELDS OF ENERGY AND ENVIRONMENT: SYNERGISTIC EFFECT'S FOR EFFICIENT PHOTOCATALYSIS By: CHEN, YX; CHENG, M; LAI, C; et al Source: SMALL 19 (14): - APR 2023 Research Fields: MATERIALS SCIENCE	Times Cited: 17 ESI Hot Research Front

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FUNCTIONAL PARTITION OF FE AND TI CO-DOPED G-C3N4 FOR PHOTO-FENTON DEGRADATION OF OXYTETRACYCLINE: PERFORMANCE, MECHANISM, AND DFT STUDY
By: LAI, C.; MA, DS.; YI, H.; et al
Source: SEPARATION AND PURIFICATION TECHNOLOGY 306 - PART A FEB 1 2023
Research Fields: CHEMISTRY

Times Cited: 16
ESI Hot

38

FUNCTIONAL METAL/CARBON COMPOSITES DERIVED FROM METAL-ORGANIC FRAMEWORKS: INSIGHT INTO STRUCTURES, PROPERTIES, PERFORMANCES, AND MECHANISMS
By: XIAO, WJ.; CHENG, M.; LIU, Y.; et al
Source: ACS CATALYSIS - 1759-1790 JAN 17 2023
Research Fields: CHEMISTRY

Times Cited: 15
ESI Hot
Research Front

39

A CHAOTIC IMAGE ENCRYPTION METHOD BASED ON THE ARTIFICIAL FISH SWARMS ALGORITHM AND THE DNA CODING
By: ZHU, Y.; WANG, CH.; SUN, JR.; et al
Source: MATHEMATICS 11 (3) - FEB 2023
Research Fields: MATHEMATICS

Times Cited: 13
ESI Hot
Research Front

40

A NOVEL CONDITIONAL WEIGHTING TRANSFER WASSERSTEIN AUTO-ENCODER FOR ROLLING BEARING FAULT DIAGNOSIS WITH MULTI-SOURCE DOMAINS
By: ZHAO, K.; JIA, F.; SHAO, HD;
Source: KNOWLEDGE-BASED SYSTEMS 262 - FEB 28 2023
Research Fields: COMPUTER SCIENCE

Times Cited: 11
ESI Hot

41

AMIDE-FUNCTIONAL, LI3N/LIF-RICH HETEROSTRUCTURED ELECTRODE ELECTROLYTE INTERPHASES FOR 4.6 V LI/LICO02 BATTERIES
By: LIU, JD.; WU, MG.; LI, X.; et al
Source: ADVANCED ENERGY MATERIALS 13 (15) - APR 2023
Research Fields: MATERIALS SCIENCE

Times Cited: 9
ESI Hot

Research Fields: MATERIALS SCIENCE

42

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: 7
ESI Hot

43

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

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- 1) Ya-Ya Yang, Hao-Peng Feng, Cheng-Gang Niu*, Da-Wei Huang, Hai Guo, Chao Liang, Hui-Yun Liu, Sha Chen, Ning Tang, Lu Li, Constructing a plasma-based Schottky heterojunction for near-infrared-driven photothermal synergistic water disinfection: Synergetic effects and antibacterial mechanisms, Chemical Engineering Journal (SCI 2022 IF=15.1), 426 (2021) 131902. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)
- 2) Si Liu, JinHui Huang*, Wei Zhang, LiXiu Shi, KaiXin Yi, HanBo Yu, ChenYu Zhang, SuZhou Li, JiaoNi Li, Microplastics as a vehicle of heavy metals in aquatic environments: A review of adsorption factors, mechanisms, and biological effects, Journal of Environmental Management (SCI 2022 IF=8.7), 302 (2022) 113995 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)
- 3) 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 MoO_{3-x}/S-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 2 次上榜)
- 4)Yongxi Chen, Min Cheng*, Cui Lai*, Zhen Wei*, Gaoxia Zhang, Ling Li, Chensi Tang, Li Du, Guangfu Wang, Hongda Liu, The Collision between g-C3N4 and QDs in the Fields of Energy and Environment: Synergistic Effects for Efficient Photocatalysis. Small (SCI 2022 IF=13.3), 2023, 19, 2205902 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 1 次上榜)
- 5) Cui Lai*, Dengsheng Ma, Huan Yi*, Mingming Zhang, Fuhang Xu, Xiuqin Huo, Haoyang Ye, Ling Li, Lu Yang, Lin Tang, Ming Yan, Functional partition of Fe and Ti co-doped g-C3N4 for photo-Fenton degradation of oxytetracycline: Performance, mechanism, and DFT study, Separation

and Purification Technology (SCI 2022 IF=8.6), 306 (2023) 122546. (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)

6) Wenjun Xiao, Min Cheng*, Yang Liu*, Jun Wang*, Gaoxia Zhang, Zhen Wei, Ling Li, Li Du, Guangfu Wang, and Hongda Liu, Functional Metal/Carbon Composites Derived from Metal–Organic Frameworks: Insight into Structures, Properties, Performances, and Mechanisms, ACS Catalysis (SCI 2022 IF=12.9), 2023 13 (3), 1759-1790 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 1 次上榜)