

## 固体所2025年第一署名单位论文

序号	标题	期刊	DOI	作者列表	卷	期	起始页	截至页
1	Recycling and Reuse of Rare Earth Polishing Powder Waste by a Simple Gravity Settling-Acid Leaching Process	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-025-02935-8	Zhu, Xiaoxiao; Jiang, Xuesong; Ding, Juxuan; Mo, Zhangchao; Wang, Ling; Ban, Boyuan; Chen, Jian	16	9	4643	4658
2	Point Defects and Grain Boundaries Effects on Electrical Transports of PbTe Using the Non-equilibrium Green's Function	ACTA METALLURGICA SINICA-ENGLISH LETTERS	10.1007/s40195-025-01834-0	Qin, Mi; Cao, Bingqing; Wang, Xianlong	38	5	811	822
3	Simultaneous AoLP and DoLP Detection in a Bias-Switchable PdSe <sub>2</sub> /MoS <sub>2</sub> /PdSe <sub>2</sub> Heterojunction for Polarization Discrimination	ADVANCED MATERIALS	10.1002/adma.202500572	Ma, Xiaofei; Chen, Jiawang; Zou, Fengxia; Chen, Wei; Li, Guanghai; Li, Liang; Wang, Zeping	37	16		
4	Leaf Vein-Inspired Programmable Superstructure Liquid Metal Photothermal Actuator for Soft Robots	ADVANCED MATERIALS	10.1002/adma.202416991	Li, Xiaofei; Du, Yiming; Pan, Xiaoshuan; Xiao, Chao; Ding, Xin; Zheng, Kang; Liu, Xianglan; Chen, Lin; Gong, Yi; Tian, Xingyou; Zhang, Xian	37	18		
5	Achieving Ultralow Lattice Thermal Conductivity and High Thermoelectric Performance in Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> Alloys via Introducing Organic & Inorganic Nanoparticles	SMALL	10.1002/smll.202406695	Chen, Tao; Li, Shujing; Xin, Hongxing; Li, Di; Zhang, Jian; Qin, Xiaoying	21	7		
6	High Strength and High Damping of AA6061/Zn Multilayer Composites Processed by Accumulative Roll Bonding	ADVANCED ENGINEERING MATERIALS	10.1002/adem.202500532	Chen, Junlan; Sun, Yan; Jiang, Yuankai; Sun, Meng; Jiang, Weibin; Wang, Xianping; Fang, Qianfeng	27	10		
7	Operando Magnetism on Oxygen Redox Process in Li-Rich Cathodes	ADVANCED MATERIALS	10.1002/adma.202420453	Qiu, Shiyu; Bai, Jin; Wang, Peiyao; Xiao, Ke; Liu, Yuanyuan; Wang, Siya; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping	37	18		
8	Ohmic Contact Heterostructures Immobilized Pt Single Atoms for Boosting Alkaline Hydrogen Evolution Reaction	SMALL	10.1002/smll.202411696	Zheng, Xiaoyan; Wu, Xiaoxiao; Wan, Rui; Wang, Yuguang; Chen, Bin; Meng, Guowen	21	22		
9	Dynamic response of foam-filled negative Poisson's ratio beams under low-velocity impact	JOURNAL OF SANDWICH STRUCTURES & MATERIALS	10.1177/10996362251317302	Zhao, Modi; Yuan, Long; Yuan, Hui; Zhang, Jianxun	27	4	869	894

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10	Laser Ultrafast Confined Alloying of Sub-5 nm RuM (M = Cu, Rh, and Pd) Particles on Carbon Nanotubes for Hydrogen Evolution Reaction	ADVANCED SCIENCE	10.1002/advs.202415065	Hu, Taiping; He, Ningning; Wei, Shuxian; Kang, Xingyu; Cai, Yunyu; Ye, Yixing; Li, Pengfei; Liang, Changhao	12	19		
11	Integrated Headband for Monitoring Chloride Anions in Sweat Using Developed Flexible Patches	ACS SENSORS	10.1021/acssensors.4c03366	Wang, Chen-Lu; Cai, Xin; Zhao, Yong-Huan; Liu, Zi-Hao; Xia, Rui-Ze; Tang, Li-Jun; Song, Zong-Yin; Chen, Shi-Hua; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu	10	5	3441	3449
12	PbSe-Induced Sb2S3 Crystallization and Interface Band Optimization for High-Efficiency Bulk Heterojunction Sb2S3 Solar Cells	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202420361	Wang, Yang; Jin, Mengqi; Wan, Zhiyang; Chen, Chong; Cao, Wenbo; Naveed, Faisal; Kuang, Jiajin; Cheng, Liqun; Lei, Longhui; Dong, Yingying; Wang, Mingtai	35	24		
13	Optimizing the electronic structure of copper and cobalt dual sites for efficient electrosynthesis of urea	INORGANIC CHEMISTRY FRONTIERS	10.1039/d5qi00151j	Liu, Jiafang; Zhang, Shengbo; Mao, Zhixian; Li, Wenyi; Jin, Meng; Yin, Huajie; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin	12	9	3426	3437
14	Phase transitions in H2-HD-D2 mixtures up to 350 GPa	PHYSICAL REVIEW B	10.1103/PhysRevB.111.024109	Xu, Haian; Xu, Wan; Wang, Pu; Liu, Lin; Liu, Xiao-Di; Gregoryanz, Eugene	111	2		
15	Terahertz Saturable Absorption across Charge Separation in Photoexcited Monolayer Graphene/MoS2 Heterostructure	JOURNAL OF PHYSICAL CHEMISTRY LETTERS	10.1021/acs.jpcllett.4c03138	Xi, Qi; Wang, Xinyao; Su, Fuhai	16	2	553	560
16	Enhanced piezoelectricity in CaBi2Nb2O9 high-temperature piezoelectric ceramics: low-temperature sintering and weak texturing	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	10.1007/s10854-024-14206-8	Wang, Z. P.; Yin, L. H.; Song, W. H.; Zhu, X. B.; Yang, J.; Sun, Y. P.	36	2		
17	Machine learning study of universal electronic stopping cross-sections of ions in matter	NUCLEAR ENGINEERING AND TECHNOLOGY	10.1016/j.net.2024.10.033	Cheng, Fan; Zheng, Qirong; Zhang, Chuanguo; Li, Yonggang	57	3		
18	One-step synthesis of WC-xTaC powders improves the mechanical properties of binderless WC cemented carbides	CERAMICS INTERNATIONAL	10.1016/j.ceramint.2024.12.428	Hu, Menggen; Gao, Xincan; Wang, Zhen; Dang, Xian; Yang, Chengwan; Li, Xinyang; Li, Ming; Li, Yue; Hu, Xiaoye; Huang, Zhulin	51	8	9960	9969
19	La2O3 stabilized WB2-SiC composites with remarkable ablation resistance up to 2273 K	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY	10.1016/j.jeurceramsoc.2025.117298	Hu, Menggen; Wang, Zhen; Dang, Xian; Yang, Chengwan; Li, Xinyang; Li, Ming; Hu, Xiaoye; Li, Yue; Huang, Zhulin	45	10		

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20	Effects of repetitive thermal loads on microstructure and mechanical properties of potassium-doped tungsten alloy as plasma facing material	NUCLEAR FUSION	10.1088/1741-4326/adabf8	Wang, Hui; Xie, Zhuo-Ming; Yu, Mu-Lan; Fu, Yin-Juan; Liu, Rui; Wang, Xian-Ping; Fang, Qian-Feng; Liu, Chang-Song; Wu, Xue-Bang; Zhu, Da-Huan	65	2		
21	Activating Reversible V4+/V5+ Redox Couple in NASICON-Type Phosphate Cathodes by High Entropy Substitution for Sodium-Ion Batteries	SMALL	10.1002/sml.202500566	Wang, Siya; Bai, Jin; Wang, Peiyao; Mao, Yunjie; Xiao, Ke; Liu, Yuanyuan; Qiu, Shiyu; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping	21	10		
22	Microstructure and mechanical properties of ultrafine-grained W-Ni-Al alloys prepared via in-situ precipitation	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2024.178002	Yang, Run; Wang, Hui; Xie, Zhuoming; Liu, Rui; Wang, Xianping; Wu, Xuebang; Fang, Qianfeng; Liu, Changsong	1010			
23	Realized stable BP-N at ambient pressure by phosphorus doping	MATTER AND RADIATION AT EXTREMES	10.1063/5.0239841	Chen, Guo; Zhang, Chengfeng; Zhu, Yuanqin; Cao, Bingqing; Zhang, Jie; Wang, Xianlong	10	1		
24	Atomic-scale mechanisms of He-induced dislocation loop growth in $\alpha$ -Fe from molecular dynamics simulations	JOURNAL OF NUCLEAR MATERIALS	10.1016/j.jnucmat.2025.155672	Wang, Ziqiang; Li, Xiangyan; Zhang, Yange; Xu, Yichun; Liu, Changsong; Wu, Xuebang	607			
25	Effect of doping particles on the wear behavior of tungsten materials at varying temperatures	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T	10.1016/j.jmrt.2025.01.161	Ding, C. S.; Xie, X. F.; Yang, J. F.; Liu, R.; Wu, X. B.; Wang, X. P.; Xie, Z. M.	35		1680	1689
26	Dispersive Pd islands-deposited Au nanorods for in situ SERS monitoring of catalytic reaction	RSC ADVANCES	10.1039/d5ra01059d	Lu, Wenjing; Jiang, Yurui; Yu, Yan; Shen, Wei; Yang, Meng; Huang, Xingjiu; Tang, Xianghu	15	9	6663	6667
27	Self-Healing, Superhydrophobic, and Heat-Resistant Schiff Base/OTS/PDMS Multifunctional Composite Membrane	ACS APPLIED POLYMER MATERIALS	10.1021/acsapm.4c03553	Dong, Yong; Sun, Zhouping; Liu, Yanyan; Tian, Xingyou; Zhang, Wei; Wang, Hua	7	3	1181	1186
28	Small-angle scattering mechanisms in semicrystalline polymers	MATERIALS TODAY COMMUNICATIONS	10.1016/j.mtcomm.2025.111832	Li, Xiangyang; Lin, Yongxing; Chen, Lin; Tian, Xingyou	43			
29	Charge distribution manipulation in fluorine-containing additives enables highly efficient and stable perovskite solar cells	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.160571	Sun, Aiqing; Yang, Zhiqian; Han, Mengting; Ban, Boyuan; Meng, Yan; Huang, Yang; Hu, Linhua	507			

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30	A Self-Assembly MOF-on-MOF Heterostructure-Driven Fluorescence Sensor for Aerogel-Based Visualization Detection of Flavomycin	SMALL	10.1002/smll.202410911	Guo, Yujie; Li, Lingfei; Xu, Shihao; Jiang, Changlong	21	11		
31	Dual-Shell Nanocomposites for Enhanced Therapeutic Applications in Cancer Treatment	ACS APPLIED NANO MATERIALS	10.1021/acsanm.4c06281	Wu, Zhaoguo; Zhou, Xuezhi; Zhao, Aiwu; Wang, Jin	8	5	2280	2290
32	Designing Chiral Organometallic Nanosheets with Room-Temperature Multiferroicity and Topological Nodes	NANO LETTERS	10.1021/acs.nanolett.4c05408	Zhao, Jing; Wu, Wenfeng; Wang, Hanyu; Li, Xiangyang; Wang, Xianlong	25	4	1480	1486
33	Size-Controlled Ni Nanoparticles Confined into Amino-Modified Mesoporous Silica for Efficient Hydrodeoxygenation of Bio-Derived Aromatic Aldehyde	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202417584	Zou, Zidan; Shen, Yue; Chen, Chun; Li, Wenchao; Zhang, Yunxia; Zhang, Haimin; Wang, Guozhong	35	12		
34	Highly Strained Interfaces and Phase Separation for Boosting Electrochemical Methanol Oxidation and Hydrogen Evolution	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.4c22994	He, Zhen; Liao, Lingwen	17	9	14109	14118
35	Asymmetric contact structure enables fast response of Bi <sub>2</sub> O <sub>2</sub> Se photodetectors	APPLIED PHYSICS LETTERS	10.1063/5.0245424	Min, Yunxiao; Wang, Zihan; Li, Liang	126	5		
36	Restraining ion migration stabilizes perovskite solar cells	JOURNAL OF POWER SOURCES	10.1016/j.jpowsour.2025.236318	Yang, Zhiqian; Li, Dufeng; Mo, Li'e; Li, Zhaoqian; Huang, Yang; Hu, Linhua	632			
37	Room temperature aqueous-phase hydrogenation coupling with green hydrogen: Sustainable technologies innovating by efficient Co-CoOx@NC catalyst derived from N-induced interfacial electron rearrangement	NANO RESEARCH	10.26599/NR.2025.94907118	Shen, Yue; Chen, Chun; Zou, Zidan; Li, Wenchao; Zhang, Yunxia; Zhang, Haimin; Wang, Guozhong	18	2		
38	Chemical Synthesis of ~1 nm Multilevel Capacitor-like Particles with Atomic Precision	Angewandte Chemie - International Edition	10.1002/anie.202420931	Zhou, Yue; Chen, Dong; Gu, Wanmiao; Fan, Wentao; Wang, Runguo; Fang, Liang; You, Qing; Zhuang, Shengli; Bian, Guoqing; Liao, Lingwen; Zhou, Ziyang; Xia, Nan; Yang, Jun; Wu, Zhikun	64	8		
39	Breaking the trade-off between capacity, stability, and selectivity for electrochemical lithium extraction via a dual-ion doping strategy	Desalination	10.1016/j.desal.2025.118530	Zhou, Jianguo; Xu, Yingsheng; Shin, Dong-Myeong; Zhou, Hongjian	600			

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40	Selective cesium extraction from highly saline solution using hybrid capacitive deionization with zinc-doped manganese hexacyanoferrate electrode	Journal of Hazardous Materials	10.1016/j.jhazmat.2024.136889	Pang, Mengdie; Zhou, Jianguo; Mao, Hengjian; Xu, Yingsheng; Zhou, Hongjian	485			
41	Regulation of polyamide-66 lamellar crystal for superhydrophobicity and enhanced anti-icing performance	Applied Surface Science	10.1016/j.apsusc.2024.162000	Liu, Jincheng; Lin, Yongxing; Zhang, Haibao; Liu, Xianglan; He, Hui; Li, Xiangyang; Chen, Lin; Tian, Xingyou	685			
42	Efficient Alkaline-Free Electrooxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid using Electrochemically-Charged Ni <sub>x</sub> Co <sub>1-x</sub> (OH) <sub>2</sub> as a Redox Mediator	Angewandte Chemie - International Edition	10.1002/anie.202423109	Zhang, Jifang; Shen, Yue; Wu, Zenglong; Zhang, Xinyuan; Kang, Jian; Wu, Yijin; Zhang, Shengbo; Chen, Shan; Wang, Guozhong; Zhang, Haimin; Yin, Huajie; Zhao, Huijun	64	13		
43	Structural and electrical properties of HfO <sub>2</sub> at high pressure	Physical Review B	10.1103/PhysRevB.111.115104	Pan, Xiaomei; Xue, Erqiao; Li, Wen-Guang; Pan, Weijin; Yao, Deyuan; Zhang, Xin; Yin, Yuewei; Cheng, Peng; Liu, Qi-Jun; Ding, Junfeng	111	11		
44	Growth mechanism and sintering properties of high crystallinity Archimedean polyhedral (Zr <sub>0.5</sub> Hf <sub>0.5</sub> )B <sub>2</sub> nanoparticles	Journal of the European Ceramic Society	10.1016/j.jeurceramsoc.2025.117251	Wang, Zhen; Cheng, Yuan; Li, Kewei; Hu, Menggen; Zhang, Hanwen; Dang, Xian; Li, Ming; Li, Xinyang; Huang, Zhulin; Li, Yue; Hu, Xiaoye	45	7		
45	A comprehensive study of recent advances, challenges and factors of nanofiltration membrane in various industrial applications	Desalination	10.1016/j.desal.2024.118461	Usha, Zubaida Rukhsana; Liu, Cui; Zhang, Shudong; Wang, Zhenyang	599			
46	Controllable printing perovskite thick film for X-ray flat panel imaging	Chemical Engineering Journal	10.1016/j.cej.2024.158656	Wang, Zihan; Ma, Yuanbo; Wan, Changmao; Zhang, Hui; Pan, Xu; Ye, Jiajiu	504			
47	Well defined phase boundaries and superconductivity with high T <sub>c</sub> in PbSe single crystal	Chinese Physics B	10.1088/1674-1056/adb272	Hu, Jiawei; Meng, Yanghao; Zhang, He; Zhong, Wei; Zhai, Hang; Yu, Xiaohui; Yue, Binbin; Hong, Fang	34	4		
48	Dual-site parallel binding ligands for enhanced perovskite solar cell efficiency	Journal of Energy Chemistry	10.1016/j.jechem.2025.01.045	Yang, Zhiqian; Ding, Yong; Ren, Yingke; Mo, Li'e; Han, Mengting; Sun, Aiqing; Li, Zhaoqian; Zhang, Hong; Huang, Yang; Hu, Linhua	105		112	120
49	Efficient improvement strategy for supported iridium-based catalysts in pure water electrolysis	Journal of Alloys and Compounds	10.1016/j.jallcom.2025.180071	Wang, Xinlei; Zhang, Yuzhuo; Shen, Yujie; Liu, Jun; Zhang, Haimin	1023			

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50	Oxygen and nitrogen effects on anelasticity and mechanical property of Ti35Zr30V10Nb25 multi-principal element alloys	Scripta Materialia	10.1016/j.scriptamat.2024.116488	Wang, X. G.; Sun, M.; Liu, X. Q.; Ke, Y. B.; Shi, T.; Liu, J. X.; Jiang, W. B.; Lu, C. Y.; Wang, X. P.; Fang, Q. F.	258			
51	Enhanced mechanical properties and excellent thermal stability in Mo alloys by nanoscale HfC dispersion	Journal of Alloys and Compounds	10.1016/j.jallcom.2025.180048	Zhang, Y. H.; Wang, Z. H.; Yang, R.; Liu, R.; Zhang, L. C.; Xie, Z. M.; Wang, X. P.; Fang, Q. F.; Wu, X. B.; Liu, C. S.	1022			
52	Deep oxygen-crosslinking and self-coating synergetic engineering on pitch-based hard carbon anode for sodium-ion batteries	Journal of Colloid and Interface Science	10.1016/j.jcis.2025.01.220	Xiao, Ke; Wang, Peiyao; Bai, Jin; Liu, Yuanyuan; Wang, Siya; Qiu, Shiyu; Wang, Xianlong; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping	686		267	276
53	Direct spectroscopic evidence for the variations of crystal field and orbital occupation across Mott transitions in V2O3 thin films	Physical Review B	10.1103/PhysRevB.111.115159	Xiao, Ke; Wang, Peiyao; Bai, Jin; Liu, Yuanyuan; Wang, Siya; Qiu, Shiyu; Wang, Xianlong; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping	111	11		
54	Anomalous anisotropic magnetotransport behavior mediated by Fermi surface reconstruction in topological nodal line TiB2 single crystals	Materials Today Physics	10.1016/j.mtphys.2025.101690	Cheng, Ming; Liu, Lanxin; Zhao, Yu; Deng, Yifan; Lv, Run; Lan, Ruihuan; Zhou, Nan; Pan, Yongqiang; Song, Wenhai; Han, Yuyan; Luo, Xuan; Sun, Yuping	53			
55	Investigation into the tensile strength and water resistance of branched and fluorinated reinforced transparent PDMS	Materials Letters	10.1016/j.matlet.2025.138180	Dong, Yong; Sun, Zhouping; Liu, Yanyan; Tian, Xingyou; Zhang, Wei; Wang, Hua	385			
56	Crack nucleation and propagation in $\beta$ -HMX induced by structural phase transitions	Physics Letters, Section A: General, Atomic and Solid State Physics	10.1016/j.physleta.2025.130491	Li, Jiahui; Zhang, Chuanguo; Zeng, Zhi	544			
57	Combined effects of metallic dopants and nonmetallic impurities on interface cohesion in tungsten alloys by first-principles	Journal of Nuclear Materials	10.1016/j.jnucmat.2024.155536	Zhang, Y. X.; Zhang, Y. G.; Xie, Z. M.; Li, X. . Y.; Xu, Y. C.; Liu, R.; Liu, C. S.; Wu, X. B.	605			
58	Machine learning-driven simultaneous quantification of Cd(II) and Cu(II) on Co2P/CoP heterostructure: enhanced electrochemical signals via activated Co-P electron bridge	Journal of Hazardous Materials	10.1016/j.jhazmat.2025.138030	Gao, Zhi-Wei; Yu, Yan; Chen, Shi-Hua; Li, Yong-Yu; Liu, Zi-Hao; Yang, Meng; Li, Pei-Hua; Song, Zong-Yin; Huang, Xing-Jiu	491			
59	Ambient Synthesis of Cyclohexanone Oxime via In Situ Produced Hydrogen Peroxide over Cobalt-Based Electrocatalyst	Advanced Science	10.1002/advs.202413475	Xu, Hui; Jin, Meng; Zhang, Shengbo; Zhang, Xinyuan; Xu, Min; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin	12	6		

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60	Highly selective electrocatalytic reduction of nitrate to ammonia over a copper-cobalt bimetallic catalyst	RSC Advances	10.1039/d5ra00860c	Li, Daopeng; Zhang, Shengbo; Mao, Zhixian; Liu, Min; Hu, Kui; Zhao, Dongnan; Qv, Zhengguo; Zhou, Li; Shi, Tongfei	15	12	9461	9466
61	Boosting ion uptake and electron transport through bridging Na <sub>2</sub> MnSiO <sub>4</sub> with acidified carbon nanotubes for enhanced hybrid capacitance deionization	Separation and Purification Technology	10.1016/j.seppur.2024.130429	Chen, Zhouyi; Zhang, Xiao; Shen, Yue; Geng, Wusong; Gong, Chengyun; Zhang, Yunxia; Wang, Guozhong	359			
62	Hierarchically porous 3D Y-branched carbon tube grids for high-performance filter capacitors	Science China Technological Sciences	10.1007/s11431-024-2850-6	Chen, Gan; Han, Fangming; Meng, Guowen; Wei, Bingqing	68	4		
63	Synthesis of carbon fiber reinforced SiC aerogel composites with enhanced mechanical and antioxidant properties for high temperature insulation	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T	10.1016/j.jmrt.2025.04.131	Zheng, Chunxue; Yu, Jie; Li, Xinyang; Huang, Zhulin; Li, Ming; Hu, Xiaoye; Li, Yue; Duan, Jingbo	36		4547	4556
64	Investigation of hydrogen diffusion in zirconia under extreme conditions	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	10.1039/d5cp00434a	Wang, Fengqi; Zhu, Yuanqin; Wang, Xianlong	27	25	13476	13489
65	A facile co-precipitation synthesis of robust NiFe phosphate electrocatalysts for efficient oxygen evolution in AEMWE	APPLIED CATALYSIS O: OPEN	10.1016/j.apcato.2025.207056	Yu, Yu; Liu, Jun; Liang, Changhao	205			
66	Flexible ZrO <sub>2</sub> /ZrB <sub>2</sub> /C nanofiber felt with enhanced microwave absorption and ultralow thermal conductivity	JOURNAL OF MATERIONICS	10.1016/j.jmat.2024.100988	Yang, Chengwan; Li, Kewei; Hu, Meng; Li, Xinyang; Li, Ming; Hu, Xiaoye; Li, Yue; Huang, Zhulin; Meng, Guowen	11	4		
67	Photo-enhanced synergistic sterilization and self-regulated ion release in rGO-Ag nanocomposites under NIR irradiation	COLLOIDS AND SURFACES B-BIOINTERFACES	10.1016/j.colsurfb.2025.114744	Wu, Lingli; Wei, Shuxian; He, Ningning; Shen, Jiayue; Cheng, Xiaohu; Zhou, Hongyu; Kang, Xingyu; Cai, Yunyu; Ye, Yixing; Li, Pengfei; Liang, Changhao	253			
68	Lattice and electronic structural engineering toward PET waste upcycling over PVP-incorporated Ni(OH) <sub>2</sub>	APPLIED CATALYSIS B-ENVIRONMENT AND ENERGY	10.1016/j.apcatb.2025.125556	Zhang, Heng; Zhang, Shengbo; Li, Huaimeng; Li, Wenyi; Mao, Zhixian; Yin, Huajie; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia	378			
69	Gold-Silver-Alloy Core-Expanded Nanocubes with Sub-5 nm Intragaps for SERS-Based Sensing	ACS APPLIED NANO MATERIALS	10.1021/acsnm.5c02250	Zhang, Songge; Zhang, Hanlin; Bao, Haoming; Cao, An; Zhong, Shichuan; Wen, Lulu; Liu, Dilong	8	22	11692	11701

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70	Remove the innermost atom of a magnetic multi-shell gold nanoparticle for near-unity conversion of CO <sub>2</sub> to CO	SCIENCE ADVANCES	10.1126/sciadv.adu1996	Bian, Guoqing; Fang, Liang; You, Qing; Wang, Runguo; Gu, Wanmiao; Zhou, Yue; Yan, Nan; Zhuang, Shengli; Ji, Shiyu; Liao, Lingwen; Wu, Zhikun	11	15		
71	Self-Calibrating All-Solid-State Ion-Selective Electrodes without Reference Electrodes	JOURNAL OF PHYSICAL CHEMISTRY C	10.1021/acs.jpcc.5c02043	Xia, Rui-Ze; Cai, Xin; Lin, Jing-Yi; Zhao, Yong-Huan; Chen, Shi-Hua; Yang, Meng; Song, Zong-Yin; Li, Pei-Hua; Huang, Xing-Jiu	129	25		
72	Generalized Adaptive Cation-Selective Interfaces Exhibiting High Stability: Integrating Transduction Materials and Uniform Ion-Selective Membranes via One-Step Fabrication	ADVANCED MATERIALS	10.1002/adma.202501749	Cai, Xin; Xia, Rui-Ze; Chen, Shi-Hua; Liu, Zi-Hao; Zhao, Yong-Huan; Wang, Chen-Lu; Song, Zong-Yin; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu				
73	Synergistic modulation of band structure and phonon transport for higher thermoelectric performance of WSe <sub>2</sub>	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.164510	Danish, Mazhar Hussain; Aligayev, Amil; Chen, Tao; Li, Di; Zhang, Jian; Qin, Xiaoying	518			
74	Angular-dependent tunneling magnetoresistance in a tunnel junction with ferromagnetic and noncollinear antiferromagnetic electrodes	PHYSICAL REVIEW B	10.1103/PhysRevB.111.144417	Luo, Qing-Qing; Guo, Xiao-Yan; Zhou, Hang; Lu, Wen-Jian; Sun, Yu-Ping; Shao, Ding-Fu	111	14		
75	Research Progress in the Polymeric Nitrogen with High Energy Density	CHINESE PHYSICS LETTERS	10.1088/0256-307X/42/5/056101	Zhang, Jie; Chen, Guo; Zhang, Chengfeng; Xu, Yuxuan; Wang, Xianlong	42	5		
76	Insights into engineering of Ag-NPs on Al nanotip arrays for UV irradiation-induced surface-enhanced Raman scattering	MICROCHEMICAL JOURNAL	10.1016/j.microc.2025.113904	Hu, Meng; Zhou, Ningning; Tang, Haibin; Liu, Dilong; Huang, Zhulin; Meng, Guowen	213			
77	Functional Nanomaterials for Sensing and Detection (2nd Edition)	NANOMATERIALS	10.3390/nano15080588	Cai, Weiping; Zhang, Hongwen	15	8		
78	Machine Learning-Driven Surface Plasmon-Enhanced Dual Spectroscopies Improve Recognition and Real-Time Monitoring of Hazardous Chemicals	ANALYTICAL CHEMISTRY	10.1021/acs.analchem.5c00545	Lu, Yanyan; Qiao, Yu; Bao, Haoming; Chen, Kang; Wei, Yi; Zhao, Qian; Zhang, Hongwen; Cai, Weiping	97	15	8537	8544
79	Electrochemical Carbon Dioxide Reduction Reaction or Hydrogen Evolution Reaction: Kernel and Type-Dependent Catalytic Activity of Staples in Metal Nanoclusters	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202507721	Xia, Nan; Zhuang, Shengli; Gu, Wanmiao; Wu, Zhikun				

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80	Asymmetric Self-Assembly of Colloidal Superstructures in Nested Transient Emulsion Aerosols	ADVANCED MATERIALS	10.1002/adma.202420269	Liu, Dilong; Zhu, Zhaoting; Cao, An; Li, Yue	37	24		
81	Accurate voltammetric analysis of As(III) in cooked rice: A true reflection of actual human intake	SENSORS AND ACTUATORS B-CHEMICAL	10.1016/j.snb.2025.137783	Yang, Yuan-Fan; Liu, Zi-Hao; Tang, Li-Jun; Gao, Zhi-Wei; Yang, Meng; Song, Zong-Yin; Li, Pei-Hua; Chen, Shi-Hua; Huang, Xing-Jiu	438			
82	Inhibitions imposed by kinetic constraints of membranes in all-solid-state ion-selective electrodes: characteristics of interfacial capacitance in solid contacts	CHEMICAL SCIENCE	10.1039/d5sc01241d	Xia, Rui-Ze; Cai, Xin; Lin, Jing-Yi; Zhao, Yong-Huan; Liu, Zi-Hao; Wang, Chen-Lu; Chen, Shi-Hua; Yang, Meng; Song, Zong-Yin; Li, Pei-Hua; Huang, Xing-Jiu	16	23		
83	Chemical composition fluctuations simultaneously enhance the strain-hardening rate and ductility in refractory multi-principal element alloys	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES	10.1016/j.msea.2025.148654	Wang, X. G.; Sun, M.; Liu, X. Q.; Jiang, W. B.; Wu, X. B.; Fang, Q. F.; Liu, C. S.; Wang, X. P.	941			
84	Record open-circuit voltage of 0.85 V via indium-content engineering in efficient CuInS <sub>2</sub> solar cells	SOLAR ENERGY MATERIALS AND SOLAR CELLS	10.1016/j.solmat.2025.113747	Cao, Wenbo; Chen, Chong; Wang, Mingtai	291			
85	Sulfur-regulated composition in CuInS <sub>2</sub> films for efficient solar cells	JOURNAL OF PHYSICS D-APPLIED PHYSICS	10.1088/1361-6463/add548	Lei, Longhui; Cao, Wenbo; Kuang, Jiajin; Zheng, Chaofan; Wang, Mingtai	58	23		
86	Unveiling Growth and Photovoltaic Principles in Density-Controllable TiO <sub>2</sub> Nanorod Arrays for Efficient Solar Cells	SMALL METHODS	10.1002/smt.202500264	Cao, Wenbo; Dong, Chao; Zheng, Chaofan; Kuang, Jiajin; Wang, Yang; Naveed, Faisal; Jin, Mengqi; Dong, Yingying; Chen, Chong; Wang, Mingtai				
87	Promoting Form II-Form I Phase Transition of Polybutene-1 by Constantly Alternative Annealing	CHINESE JOURNAL OF POLYMER SCIENCE	10.1007/s10118-025-3359-x	Liu, Tang-Guo; Li, Xiang-Yang; Lu, Shui-Sheng; Lin, Yong-Xing; Chen, Lin; Tian, Xing-You				
88	Ce-doped titanium oxide composite films with enhanced water vapor barrier and light-blocking properties for encapsulation	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	10.1016/j.colsurfa.2025.137464	Yao, Yunle; Zhang, Wei; Pan, Rui; Liu, Mengru; Gong, Yi; Chen, Lin; Zhang, Xian; Tian, Xingyou	724			
89	Interface regulation via bidentate $\pi$ -chelators for high-performance perovskite solar cells	JOURNAL OF MATERIALS CHEMISTRY A	10.1039/d5ta01102g	Han, Mengting; Sun, Aiqing; Yang, Zhiqian; Li, Zhaoqian; Mo, Li'e; Huang, Yang; Hu, Linhua	13	19	14002	14009

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90	Laser-engineered metastable $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanodots with remarkable peroxidase-like catalytic activity for glucose sensing	SURFACES AND INTERFACES	10.1016/j.surf.2025.106455	Ji, Sihan; Cai, Yunyu; Ye, Yixing; Liang, Changhao	64			
91	Atomic-scale insights into influence of rhenium clusters on screw dislocation migration and irradiation hardening in tungsten	JOURNAL OF NUCLEAR MATERIALS	10.1016/j.jnucmat.2025.155973	Yang, Wei-shu; Ding, Chang-jie; Li, Xiao-lin; Wang, Zi-qiang; Li, Xiang-yan; Zhang, Yan-ge; Xu, Yi-chun; Liu, C. S.; Wu, Xuebang	615			
92	Octopus-inspired solvent-assisted rapid self-healing polydimethylsiloxane-polyurea elastomers	POLYMER	10.1016/j.polymer.2025.128326	Du, Yiming; Wang, Hua; Li, Xiaofei; Li, Hang; Zhang, Wei; Liu, Yanyan; Tian, Xingyou	326			
93	Exfoliating from high-pressure arsenic-nitrogen compounds: an efficient way to obtain 2D-AsN	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	10.1039/d5cp00461f	Zhang, Yanfeng; Chen, Guo; Zhang, Chengfeng; Zhang, Jie; Wang, Xianlong	27	15	7532	7537
94	Supramolecular Fluorescence Probe for Rapid Visual Detection of Pyrethroid and Composite Aerogel as a Pyrethroid Vapor Sensor	ANALYTICAL CHEMISTRY	10.1021/acs.analchem.5c02399	Liu, Anqi; Zhang, Qipeng; Pan, Lei; Yang, Fan; Lin, Dan; Jiang, Changlong				
95	Aqueous/Chemical-Resistant Organic Room Temperature Phosphorescence Materials From Siloxane Network Reinforcement	ADVANCED OPTICAL MATERIALS	10.1002/adom.202500647	Zhang, Qipeng; Kang, Xiaohui; Yang, Fan; Yang, Liang; Jiang, Changlong				
96	Direct regeneration of highly degraded LiNi <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> O <sub>2</sub> to high-performance single-crystalline cathodes	ENERGY STORAGE MATERIALS	10.1016/j.ensm.2025.104240	Liu, Zhenzhen; Zhang, Heng; Wu, Xi; Fu, Zhen; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia; Zhao, Huijun	78			
97	Stabilize Perovskite Precursors and Inhibit Intermediates for High Performing Perovskite Solar Cells	SMALL	10.1002/smll.202503279	Yang, Zhiqian; Sun, Aiqing; Li, Zhaoqian; Mo, Li'e; Huang, Yang; Hu, Linhua	21	24		
98	Preparation and properties of stretchable low temperature resistant flexible epoxy resin curing agent	POLYMER CHEMISTRY	10.1039/d5py00254k	Li, Hao; Liu, Qiang; Du, Yiming; Liu, Yanyan; Zhang, Wei; Tian, Xingyou; Wang, Hua	16	24	2878	2886
99	Forward osmosis coupled with electrochemical oxidation for treatment of reverse osmosis concentrate from coal chemical industry	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	10.1016/j.jece.2025.116294	Lu, Jiandong; Yang, Dandan; Hong, Peidong; Li, Yahui; Li, Yulian; Xie, Chao; Wu, Zijian; He, Junyong; Kong, Lingtao	13	3		

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100	Twin Boundary-Regulated Platinum-Yttrium Elemental Distributions for Boosting Electrochemical Alcohol Oxidation	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.5c06857	He, Zhen; Liao, Lingwen	17	22	32544	32552
101	Modeling small-angle X-ray scattering in quiescently crystallized polymers in the absence of long-period dispersity	JOURNAL OF APPLIED CRYSTALLOGRAPHY	10.1107/S1600576725002705	Li, Xiangyang; Chen, Lin; Tian, Xingyou; Ding, Jianjun	58		948	962
102	Fabrication strategies for lead-free bismuth-based perovskite solar cells: a review	CHEMICAL COMMUNICATIONS	10.1039/d5cc01441g	Kang, Jian; Yin, Huajie	61	50	9005	9038
103	Thermomagnetic irreversibility in a Cr <sub>1.45</sub> Te <sub>2</sub> crystal: Role of spin-phonon coupling	PHYSICAL REVIEW B	10.1103/qqp-qsx7	Zhang, Ranran; Li, Jingxin; Hou, Yubin; Lu, Qingyou; Sun, Yuping; Lan, Ruihuan; Luo, Xuan; Zhou, Nan; Cheng, Ming; Liu, Lanxin; Pan, Yongqiang; Song, Wenhai;	112	10		
104	Origin of the abnormal electrical transport behavior in Cu-intercalated 1T-TaS <sub>2</sub>	PHYSICAL REVIEW B	10.1103/qtgk-gsjx	Wang, Wei; Gao, Jingjing; Zhou, Nan; Jiang, Zhongzhu; Wang, Tianyang; Song, Wenhai; Lu, Wenjian; Luo, Xuan; Sun, Yuping	112	7		
105	Carbon-Encapsulated CeO <sub>2</sub> -Co Heterostructure via Tight Coupling Enables Corrosion-Resistant Bifunctional Catalysis in Zinc-Air Battery	ADVANCED ENERGY MATERIALS	10.1002/aenm.202501790	Xu, Li; Mao, Zhixian; Bi, Mengfan; Tu, Tengxiu; Tian, Yongying; Zhou, Xiao; Wu, Jun; Wu, Yijin; Chen, Shan; Yin, Huajie	15	34		
106	Dynamic Restructuring of Strongly Interacting Copper Single-Atom and Atomic Cluster Sites for Selective Electrosynthesis of Hydroxylamine	ACS NANO	10.1021/acsnano.5c08014	Zhang, Shengbo; Shi, Tongfei; Zhang, Xinyuan; Yin, Huajie; Zhang, Haimin	19	29	26892	26903
107	High-Density Atomically Dispersed Copper Sites with Close Distances on Ultrathin N-Doped Carbon Nanosheets as an Efficient Oxygen Reduction Catalyst	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.5c09930	Bi, Mengfan; Kang, Jian; Shi, Tongfei; Wu, Yijin; Chen, Shan; Yin, Huajie	17	31	44541	44551
108	Co and CoPc Molecular Kondo Box on Gold Surface	PHYSICAL REVIEW LETTERS	10.1103/65qq-dknn	Li, Xiangyang	135	8		
109	Pt Colloidosomes with Broadband Absorption for Near-Infrared Light Photocatalysis Through D-Band Hot-Carriers Generation	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	10.1002/anie.202509431	Zhao, Xianglong; Ma, Kun; Wang, Changhao; Wang, Junfeng; Ji, Sihan; Li, Pengfei; Tang, Haibin; Cai, Yunyu; Cheng, Xiaohu; Wei, Shuxian; Wu, Lingli; Ye, Yixing; Liang, Changhao	64	39		

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110	Strain tuning of charge density wave and Mott-insulating states in monolayer VTe <sub>2</sub>	CHINESE PHYSICS B	10.1088/1674-1056/ade8e0	Tu, Wenqian; Lv, Run; Shao, Dingfu; Sun, Yuping; Lu, Wenjian	34	9		
111	Eco-friendly fabrication of hierarchical superhydrophobic nonwoven polyester membranes via sol-gel/phase inversion for ultra-high flux oil-water separation	JOURNAL OF MEMBRANE SCIENCE	10.1016/j.memsci.2025.124460	Saeed, Abdul; Rehan, Zulfiqar Ahmad; Nawaz, Raziq; Zhan, Deyi; Zahid, Muhammad; Liu, Zi-Hao; Haider, Asif Ali; Shareef, Shumaila; Gao, Zhi-Wei; Tang, Xianghu; Liu, Jinhui	734			
112	Crystallization Kinetics and Structural Perturbation in Poly(ethylene oxide)-Melamine Blends under Quiescent Isothermal Conditions	LANGMUIR	10.1021/acs.langmuir.5c03324	Ali, Sarmad; Shehzad, Khurram; Li, Nian; Wang, Zhenyang				
113	Multiscale symbiotic carbonaceous silica nanofiber aerogels composed of a ZrO <sub>2</sub> pinning structure with high-temperature thermal insulation and high strength	JOURNAL OF MATERIALS CHEMISTRY A	10.1039/d5ta04574f	Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang; Yang, Pengzhan				
114	Encapsulation of SiO <sub>2</sub> Nanofibers with Air Interlayer and SiC Shell for High Temperature Thermal Insulating Aerogels	SMALL	10.1002/smll.202504690	Li, Nian; Guo, Wei; Zhang, Shudong; Wang, Zhenyang; Yang, Pengzhan	21	36		
115	Rare Earth Ion-Induced Functionalized Fluorescent MOF Hydrogel Patches for Monitoring Lysozyme in Tears	ANALYTICAL CHEMISTRY	10.1021/acs.analchem.5c00346	Pan, Lei; Yang, Fan; Jiang, Changlong; Kang, Xiaohui; Zhang, Qipeng	97	26	13799	13808
116	Direct Recycling of Degraded LiFePO <sub>4</sub> Cathode Material via Natural Electron Donors Healing and Targeted Surface Reconstruction	ADVANCED MATERIALS	10.1002/adma.202511246	Liu, Yuanyuan; Bai, Jin; Wang, Peiyao; Xiao, Ke; Wang, Siya; Qiu, Shiyu; Wang, Xianlong; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping				
117	Improved electromagnetic wave absorbing in high-entropy few-layered MXene	APPLIED PHYSICS LETTERS	10.1063/5.0284781	Sun, Y. P.; Shen, J. B.; Zhao, G. C.; Song, W. H.; Zhu, X. B.	127	10		
118	Interface Design in Bimetallic PdNi Nanowires for Boosting Alcohol Oxidation Performances	NANOMATERIALS	10.3390/nano15131047	He, Zhen; Liao, Lingwen	15	13		
119	Tantalum-doped tungsten carbide nanostructures with efficient charge transfer for superior SERS performance	RARE METALS	10.1007/s12598-025-03522-5	Hu, Meng-En; Wang, Zhen; Gao, Xin-Can; Dang, Xian; Yang, Cheng-Wan; Li, Ke-Wei; Liu, Di-Long; Hu, Xiao-Ye; Li, Yue; Huang, Zhu-Lin; Meng, Guo-Wen				

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120	Architecture engineering and lattice modulation of exposed Cu (100)/(111) surfaces for efficient electrochemical CO <sub>2</sub> reduction	CHEMICAL COMMUNICATIONS	10.1039/d5cc02854j	He, Zhen; Liu, Hao; Liao, Lingwen	61	65	12207	12210
121	Sulfur-Engineered Second-Shell in Fe-N <sub>4</sub> Catalysts: Dual Active Sites Harmonized Activity and Stability in Real Water Environment	SMALL	10.1002/smll.202506829	Tang, Li-Jun; Gao, Zhi-Wei; Yang, Yuan-Fan; Liu, Zi-Hao; Yang, Meng; Song, Zong-Yin; Chen, Shi-Hua; Huang, Xing-Jiu				
122	Laser Fragmentation Breaks the Limitation of Twin-Forming Ability of fcc Metals (Pt/Rh/Pd) with High Stacking Fault Energy	JOURNAL OF PHYSICAL CHEMISTRY C	10.1021/acs.jpcc.5c02889	He, Ningning; Hu, Taiping; Kang, Xingyu; Wei, Shuxian; Wu, Lingli; Ye, Yixing; Cai, Yunyu; Li, Pengfei; Liang, Changhao	129	27	12595	12606
123	Machine Learning-Coupled Upconversion Nanoprobe-Based Immunochromatographic Device for Blood Drug Dynamics Monitoring	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202518138	Kang, Xiaohui; Zhang, Qipeng; Yang, Fan; Li, Xingzhen; Jia, Wei; Pan, Lei; Yang, Liang; Jiang, Changlong				
124	Harnessing Energy Enrichment Strategy for Designing Innovative Sandwich-Structured Upconversion Nanoprobes	ANALYTICAL CHEMISTRY	10.1021/acs.analchem.5c01789	Zhu, Jiawei; Kang, Xiaohui; Shen, Jianjun; Zhang, Lanpeng; Yang, Liang; Jiang, Changlong	97	36	19489	19497
125	The selective dissolution corrosion of silicon carbide grain boundary in lead-bismuth eutectic: Insights from experimental and first-principles investigations	CORROSION SCIENCE	10.1016/j.corsci.2025.113125	Li, Qiqi; Zhang, Yange; Yang, Junfeng; Li, Xiaolin; Li, Xiangyan; Wu, Xuebang; Liu, Changsong; Xu, Yichun	255			
126	Achieving Stable Perovskite X-ray Imaging Consistency via Constructing Heterojunction Architecture	ACS PHOTONICS	10.1021/acsp Photonics.5c01099	Ma, Yuanbo; Wang, Zihan; Wan, Changmao; Zhang, Hui; Wang, Zhenyu; Ye, Jiajiu; Pan, Xu	12	8	4659	4669
127	The EALD-Al <sub>2</sub> O <sub>3</sub> /CTPEN composite films with Al-O-C chemical bonding exhibit enhanced moisture barrier and mechanical properties for encapsulation	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	10.1016/j.colsurfa.2025.138378	Yao, Yunle; Pan, Rui; Gong, Yi; Chen, Lin; Zhang, Xian; Tian, Xingyou	727			
128	Residual Solvent Management Enables High-Efficiency Antisolvent-Free Perovskite Solar Cells	ACS ENERGY LETTERS	10.1021/acsenerylett.5c01538	Tao, Yuli; Liang, Zheng; Ye, Jiajiu; Cao, Chentai; Yang, Quan; Song, Shuo; Gao, Bin; Liu, Qingsha; Abbas, Zameer; Pan, Xu				
129	Exploration of Deformation Mechanism in Isotactic Polypropylene Using a New Two-Dimensional Fast Fourier Transform Method	MACROMOLECULES	10.1021/acs.macromol.5c01804	Li, Xiangyang; Liu, Tangguo; Chen, Lin; Tian, Xingyou	58	16	8808	8820

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130	Stabilizing NH <sub>4</sub> V <sub>4</sub> O <sub>10</sub> by Al-doping: boosting kinetics and ammonium retention for practical zinc-ion batteries	INORGANIC CHEMISTRY FRONTIERS	10.1039/d5qi01280e	Peng, Yuqi; Mo, Li'e; Yan, Weilin; Liu, Lufan; Zhu, Xuejun; Huang, Yang; Hu, Linhua				
131	Boosting Performance of Quasi-Solid-State Zinc Ion Batteries via Zincophilic Solubilization	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	10.1002/anie.202508556	Wang, Yifan; Yan, Weilin; Zhu, Xuejun; Li, Zhaoqian; Mo, Lie; Huang, Yang; Hu, Linhua	64	35		
132	Full-Dimensional Penetration Strategy with Degradable PEAI Enables 8.21% Efficiency in Bulk Heterojunction Sb <sub>2</sub> S <sub>3</sub> Solar Cells	ADVANCED ENERGY MATERIALS	10.1002/aenm.202502805	Wang, Yang; Yang, Dong; Jin, Mengqi; Wan, Zhiyang; Cao, Wenbo; Naveed, Faisal; Kuang, Jiabin; Zheng, Chaofan; Wang, Chaoyang; Dong, Yingying; Wang, Mingtai; Chen, Chong				
133	Isometric mapping of non-closely-packed gold nanoparticle array on micro-curved surfaces	CHEMICAL ENGINEERING JOURNAL	10.1016/j.ccej.2025.168444	Zhang, Hanlin; Liu, Dilong; Zhu, Zhaoting; Li, Liang; Song, Xiongllue; Cao, An	523			
134	Enhanced vacancy-interstitial annihilation via sliding, rotation and emission of the interstitial in tungsten	NUCLEAR MATERIALS AND ENERGY	10.1016/j.nme.2025.101973	Hu, Yi; Li, Xiaolin; Qian, Fangqing; Tong, He; Ding, Changjie; Chen, Shifeng; Zhang, Yange; Xu, Yichun; Li, Xiang-Yan; Wu, Xuebang; Liu, C. S.	44			
135	Terahertz magneto-optical properties of nitrogen-doped carbon nanodots on a sapphire substrate	PHYSICAL REVIEW B	10.1103/16nj-rlg7	Farooq, Ali; Xu, Wen; Wen, Hua; Cheng, Xingjia; Hamdalnile, Altayeb Alshibly Abdalfrag	112	4		
136	An ultra-low dark current, high-performance photodetector based on CVD-grown Bi <sub>2</sub> TeO <sub>5</sub>	JOURNAL OF MATERIALS CHEMISTRY C	10.1039/d5tc01483b	Min, Yunxiao; Wang, Zihan; Li, Liang				
137	Electronic properties of neutron-irradiated hexagonal boron nitride measured by terahertz magneto-optical experiment	INFRARED PHYSICS & TECHNOLOGY	10.1016/j.infrared.2025.106111	Farooq, Ali; Xu, Wen; Cheng, Xingjia; Hamdalnile, Altayeb Alshibly Abdalfrag	151			
138	Helium effect on temperature-displacement rate equivalence in radiation-induced swelling of iron: A study by improved stochastic cluster dynamics	NUCLEAR MATERIALS AND ENERGY	10.1016/j.nme.2025.101977	Hu, Yi; Qian, Fangqing; Li, Xiaolin; Tong, He; Zhang, Yange; Xu, Yichun; Xie, Zhuoming; Liu, Rui; Li, Xiang-Yan; Wu, Xuebang; Wang, Xianping; Liu, C. S.	44			
139	Evidence for the Meissner Effect in the Nickelate Superconductor La <sub>3</sub> Ni <sub>2</sub> O <sub>7-δ</sub> Single Crystal Using Diamond Quantum Sensors	PHYSICAL REVIEW LETTERS	10.1103/yvj7-htb4	Liu, Lin; Yan, Guizhen; Yu, Lunxuan; Liu, Xiao-Di	135	9		

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140	High-pressure polymerization of cis-N2F2 chains	PHYSICAL REVIEW B	10.1103/ftjw-ksh7	Chen, Guo; Zhang, Chengfeng; Zhang, Jie; Wang, Xianlong	112	6		
141	Edge Terminations Induced Structural Instability in 2D LP-N and HLP-N	INORGANIC CHEMISTRY	10.1021/acs.inorgchem.5c02577	Chen, Guo; Zhang, Chengfeng; Zhu, Yuanqin; Zhao, Jing; Zhang, Jie; Wang, Xianlong	64	29	15257	15266
142	In-Situ Electrochemical Reconstruction of Copper Single-Sites to Dual-Sites for Ambient Urea Synthesis	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	10.1002/anie.202509385	Liu, Jiafang; Zhang, Shengbo; Mao, Zhixian; Li, Wenyi; Jin, Meng; Yin, Huajie; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin	64	38		
143	Oxygen adsorption effects on geometries and electronics of thermoelectric PbTe surfaces	Applied Surface Science	10.1016/j.apsusc.2025.164358	Shen, Yaoling; Ti, Zhuoyang; Qin, Mi; Wang, Xianlong; Li, Jingyu; Sun, Hairui; Liu, Xiaobing; Chen, Xin; Zhang, Yongsheng	714			
144	Carbon source graphitization-driven morphology control of HfB2 powders synthesized by boro/carbothermal reduction	CERAMICS INTERNATIONAL	10.1016/j.ceramint.2025.08.195	Zhang, Hanwen; Wang, Zhen; Li, Kewei; Dang, Xian; Hu, Meng; Li, Shuxin; Li, Ming; Huang, Zhulin; Hu, Xiaoye	51	26	49559	49570
145	Thermally stable and efficient upconversion luminescent titanate perovskites based on dual-cation substitution for lighting and anti-counterfeiting	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2025.185361	Yang, Fan; Jiang, Changlong; Qasem, Abdulkareem; Li, Xingzhen; Yang, Fan; Jiang, Changlong	1048			
146	Anisotropy of linear magnetoresistance in the kagome metal ZrV6Sn6	PHYSICAL REVIEW B	10.1103/6x8y-f4qc	Deng, Yifan; Cheng, Ming; Liu, Lanxin; Zhou, Nan; Zhao, Yu; Lan, Ruihuan; Pan, Yongqiang; Song, Wenhai; Zhu, Xiaoguang; Luo, Xuan; Sun, Yuping; Han, Yuyan; Sun, Yuping	112	19		
147	Tunable spin texture in ferroelectric Bi6O9	PHYSICAL REVIEW B	10.1103/l2t3-n7r1	Huang, Li-Qi; Zhou, Hang; Wang, Zi-An; Sun, Yu-Ping; Lu, Wen-Jian; Shao, Ding-Fu	112	19		
148	Synergetic Modulation of Crystal Facet Orientation and Lattice Stability by Lithium Substitution in P2-Type Layered Oxides for Enhanced Sodium Storage	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.5c14701	Xiao, Ke; Wang, Peiyao; Bai, Jin; Liu, Yuanyuan; Wang, Siya; Qiu, Shiyu; Wang, Xianlong; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping	17	41	57103	57113
149	Multiple topological phases of magnons induced by Dzyaloshinskii-Moriya and pseudodipolar anisotropic exchange interactions in kagome ferromagnets	PHYSICAL REVIEW B	10.1103/gr5v-26np	Ni, Jin-Yu; Zheng, Xia-Ming; Wei, Peng-Tao; Liu, Da-Yong; Zou, Liang-Jian	112	18		

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150	Iridium Single-Atom-Modulated Nickel Hydroxide for Boosting Overall Water Splitting	ACS NANO	10.1021/acsnano.5c15995	Wan, Rui; Wang, Yuguang; Wu, Xiaoxiao; Chen, Bin; Meng, Guowen	19	44	38849	38860
151	Quartz Sand Structure Change and Impurity Removal Behavior in HCl Gas Chlorination Over a Wide High-Temperature Range and its Mechanism	SILICON	10.1007/s12633-025-03571-6	Fu, Hao; Chen, Xiaotian; Gui, Yuziyu; Wang, Zhongyu; Zhu, Xiaoxiao; Jiang, Xuesong; Wang, Ling; Ban, Boyuan; Chen, Jian				
152	Possible orthorhombic phase of Ta <sub>2</sub> O <sub>5</sub> under high pressures	CHINESE PHYSICS B	10.1088/1674-1056/ae0925	Gong, Yan; Yang, Yong	34	11		
153	Perovskite Solar Cells Based on Regulated Crystallization of Multifunctional Pyridine Molecules	ACS APPLIED MATERIALS & INTERFACES	10.1021/acсами.5c12696	Sun, Aiqing; Zhang, Yongxiang; Zhang, Jinfeng; Yang, Zhiqian; Han, Mengting; Huang, Yang; Mo, Li'e; Hu, Linhua	17	43	59279	59288
154	Multidimensional defect identification of semiconductors in nonequilibrium	NATURE COMMUNICATIONS	10.1038/s41467-025-65718-8	Liu, Jun; Gao, Yang; Li, Yonggang; Zhang, Chuanguo; Zeng, Zhi	16	1		
155	Optimally incorporating intra-cascade spatial correlations into mean-field cluster dynamics for radiation damage modeling	NUCLEAR MATERIALS AND ENERGY	10.1016/j.nme.2025.102001	Zheng, Qirong; Tang, Panfei; Liu, Jun; Zhang, Chuanguo; Li, Yonggang; Zeng, Zhi	45			
156	Influence of point defects on thermal conductivity in TiFe <sub>x</sub> Ni <sub>1-x</sub> Sb alloys	PHYSICAL REVIEW MATERIALS	10.1103/dcn1-gp6n	Ti, Zhuoyang	9	11		
157	Single-Crystal HfB <sub>2</sub> Nanorod-Induced Synergy in HfB <sub>2</sub> -SiC Ultrahigh-Temperature Ceramics: Enhancement of Mechanical and Ablation Resistance	RESEARCH	10.34133/research.0963	Li, Kewei; Wang, Zhen; Yu, Mulan; Hu, Menggen; Huang, Zhulin; Cheng, Yuan; Hu, Xiaoye; Li, Yue; Hu, Ping; Zhang, Xinghong	8			
158	Molecular ferroelectric altermagnetism by design	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	10.1007/s11433-025-2819-4	Shao, Ding-Fu	68	12		
159	Nanocluster-Stabilized Sulfur-Based Superradical with High Photothermal Performance and NIR-II Emission	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	10.1002/anie.202517738	Hu, Zhiyuan; Ji, Shiyu; Wang, Wenying; Gu, Wanmiao; Guan, Guowei; You, Qing; Zhou, Yue; Liao, Lingwen; Yan, Nan; Wu, Zhikun				

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160	Plasmonic Ag/Au Alloy Aerogels with Hierarchical Mesoporosity for Ultrasensitive and Stable SERS Detection of Illicit Drugs	ACS APPLIED NANO MATERIALS	10.1021/acsanm.5c04662	Wang, Yifan; Bao, Haoming; Zhang, Hongwen; Li, Yue	8	49	23740	23747
161	Transient Emulsions: A New Paradigm for Dynamic Colloidal Assembly	ACCOUNTS OF CHEMICAL RESEARCH	10.1021/acs.accounts.5c00657	Cao, An; Liu, Dilong	58	22	3451	3462
162	Synthesis of hollow-spherical-structured HfB <sub>2</sub> with superior electromagnetic wave absorption performance	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2025.185358	Zhang, Hanwen; Wang, Tianxu; Shen, Chen; Wang, Zhen; Li, Kewei; Dang, Xian; Hu, Meng; Li, Shuxin; Li, Ming; Huang, Zhulin; Hu, Xiaoye	1049			
163	Colossal Barocaloric Strength in Plastic Ag <sub>2</sub> Te <sub>1-x</sub> S <sub>x</sub> with High Density	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202519224	Liu, Keke; Lin, Jianchao; Tu, Wenqian; Tao, Kun; Yu, Mulan; Jiang, Runjian; Xiong, Tingjiao; Lu, Wenjian; Song, Wenhai; Sun, Yuping; Tong, Peng				
164	Unlocking Interlayer Confinement Enables All-Slope Hard Carbon with Ultrafast and Highly Reversible Sodium Storage	ACS NANO	10.1021/acsnano.5c14641	Wang, Peiyao; Wang, Siya; Bai, Jin; Zhu, Xuebin; Sun, Yuping; Zhao, Bangchuan	19	44	38735	38748
165	Type-I heterostructure based on ReSe <sub>2</sub> /PtS <sub>2</sub> for self-powered and broadband UV-NIR photodetectors	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	10.1007/s10854-025-15838-0	Chen, Wei; Ma, Xiaofei; Wu, Lin; Li, Liang	36	27		
166	Dual-strategy stabilization of zinc anodes through solvation regulation and interfacial engineering in aqueous zinc ion batteries	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.168877	Yan, Weilin; Wang, Yifan; Liu, Lufan; Tao, Feiyu; Huang, Yang; Li, Zhaoqian; Mo, Li'e; Hu, Linhua	524			
167	Tailoring the Electric Double Layer with Trace PEG400 for Ultra-Stable Zn Anodes	SMALL	10.1002/smll.202509688	Wu, Mingzhu; Tao, Feiyu; Wang, Yifan; Li, Zhaoqian; Huang, Yang; Mo, Li'e; Hu, Linhua	21	47		
168	Preparation of freestanding and flexible vanadium dioxide membranes with multifunctional applications	JOURNAL OF MATERIALS CHEMISTRY A	10.1039/d5ta05798a	Wu, Liangfei; Li, Ming	13	46	40229	40238
169	Giant Uncompensated Magnon Spin Currents in X-Type Magnets	CHINESE PHYSICS LETTERS	10.1088/0256-307X/42/11/110713	Wang, Zi-An; Lu, Wen-Jian; Sun, Yu-Ping; Shao, Ding-Fu; Zhang, Shui-Sen; Tian, Mingliang; Du, Haifeng	42	11		

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170	Tailoring hydrogen-bonded networks in polyethylene oxide-based solid-state electrolyte for high solid-state battery performance	JOURNAL OF ENERGY STORAGE	10.1016/j.est.2025.119112	Li, Shi Jia; Fei, Guang Tao; Xu, Shao Hui; Liao, Yi Song	140			
171	An in-situ photocured flexible composite solid electrolyte utilizing the synergistic regulation of ferroelectric LiTaO <sub>3</sub> and polyacrylonitrile for lithium metal batteries	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.169843	Zhou, Li; Ma, Jian; Liao, Yisong; Li, Shijia; Gao, Wenyuan; Liu, Min; Xu, Shaohui; Wang, Zhaoming; Shi, Tongfei; Zou, Jinglu; Wang, Qinqin	525			
172	In Situ Real-Time and Reusable Antibacterial Mask Based on CoO@Ag Nanozyme with Enhanced Catalytic Activity	SMALL	10.1002/sml.202510196	Li, Ying; Zhao, Jun; Liu, Bianhua; Iqbal, Obaid				
173	High-Strength, Recyclable, Self-Healing Polyurethane Elastomers with Mechanically Responsive Self-Reinforcement	ACS APPLIED POLYMER MATERIALS	10.1021/acsapm.5c03544	Li, Hang; Du, Yiming; Zhang, Wei; Liu, Yanyan; Tian, Xingyou; Wang, Hua	7	21	15163	15175
174	Transient Emulsion-Assisted Fabrication of Liquid Metal Microsphere Arrays for Mechanically Adaptive Anisotropic Conductive Packaging	NANO LETTERS	10.1021/acs.nanolett.5c03578	Pan, Rui; Liu, Dilong; Cao, An; Zhang, Wei; Yao, Yunle; Gong, Yi; Chen, Lin; Tian, Xingyou	25	42	15240	15248
175	Structural Evolution of Crystalline Scaffolds and Ionic Domains in Polyethylene and Ethylene/Methacrylic Acid Copolymer Blend Blown Films	ACS APPLIED POLYMER MATERIALS	10.1021/acsapm.5c03573	Ali, Sarmad; Li, Nian; Zhang, Shudong; Wang, Zhenyang				
176	Laser-directed covalent Si-N-C bonding at SiO <sub>x</sub> /3D graphene interface for durable composite anodes in lithium-ion battery	ADVANCED COMPOSITES AND HYBRID MATERIALS	10.1007/s42114-025-01525-5	Hong, Na; Li, Nian; Li, Zhao; Zhang, Shudong; Ali, Sarmad; Song, Yanping; Liu, Cui; Kang, Jun; Wang, Shihao; Wang, Zhenyang	8	6		
177	SO <sub>2</sub> -tolerant electrochemical CO <sub>2</sub> capture and NaHCO <sub>3</sub> conversion enabled by saline water electrolysis	ENERGY & ENVIRONMENTAL SCIENCE	10.1039/d5ee05170c	Tu, Tengxiu; Zhang, Xinyuan; Wu, Yijin; Mao, Zhixian; Zhang, Jifang; Kang, Jian; Chen, Shan; Zhang, Haimin; Yin, Huajie; Zhao, Huijun				
178	Oxygenated Carbon Electrocatalysts for Chlorine Evolution Reaction	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	10.1021/jacs.5c14480	Shu, Yajie; Ji, Jiapeng; Mao, Zhixian; Chen, Shan; Zhang, Haimin; Yin, Huajie; Zhao, Huijun	147	48	44293	44302
179	Reversible flexible functional metal-organic frameworks sensor with artificial intelligence data analysis for real-time trace water monitor	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.170841	Lin, Dan; Liu, Anqi; Pan, Lei; Yang, Liang; Jiang, Changlong	526			

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180	Suppression of PCBM dimer formation in inverted perovskite solar cells	NATURE MATERIALS	10.1038/s41563-025-02368-7	Liang, Zheng; Xu, Huifen; Huang, Zhenda; Ye, Jiajiu; Liu, Boyuan; Weng, Shirui; Tao, Yuli; Zhang, Hui; Chen, Feng; Yang, Liangbao; Pan, Xu				
181	Rational Design of Pt-Co Synergy in Mesoscale Confinement: Enabling Stable C=O Selective Hydrogenation under Ambient Conditions	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	10.1021/acssusc-hemeng.5c06843	Zou, Zidan; Chai, Zhuoya; Zhang, Jia; Chen, Chun; Zhang, Yunxia; Zhang, Haimin; Zhao, Huijun; Wang, Guozhong				
182	Construction of carbon nanotube-supported CuO-Fe <sub>3</sub> O <sub>4</sub> dual-site catalysts for ambient electrosynthesis of ammonia	INORGANIC CHEMISTRY FRONTIERS	10.1039/d5qi01543j	Zhang, Shun; Zhang, Shengbo; Liu, Jiafang; Mao, Zhixian; Zhang, Yunxia; Wang, Guozhong; Yin, Huajie; Zhang, Haimin	12	24	8110	8117
183	Single-Atom Chromium-Embedded N-Doped Graphene as a Multifunctional Separator Coating for Lithium-Sulfur Batteries	Batteries and Supercaps	10.1002/batt.202500200	Bettels, Frederik; Rashidi, Donna; Lin, Zhihua; Schenk, Leon; Li, Taoran; Wu, Haiwei; Frank, Irmgard; Nadimi, Ebrahim; Liu, Yuping; Zhang, Chaofeng; Ding, Fei; Zhang, Lin	8	12		
184	Compact Carbon-Based Ultra-High-Power Electrodes: A Sodium Alginate-Induced Self-Shrinkage and Densification Approach	Small	10.1002/sml.202407475	Lin, Dou; Li, Pei; Zhou, Ziyang; Jiang, Suxia; Fan, Yonghui; Zhang, Guofeng; Meng, Guowen; Wei, Bingqing; Han, Fangming	21	21		
185	Concurrently Selective Electrosynthesis of Ammonia and Glycolic Acid Over Cathodic Single-Atom Cobalt and Anodic PdNi Alloying Catalysts	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202415046	Zhang, Shengbo; Li, Ke; Zhang, Xinyuan; Ye, Yixing; Shi, Tongfei; Jiang, Yong; Zheng, Lirong; Lin, Yue; Zhang, Haimin	35	6		
186	Selenium absorption, translocation and biotransformation in pak choi ( <i>Brassica chinensis</i> L.) after foliar application of selenium nanoparticles	FOOD chemistry	10.1016/j.foodchem.2024.141439	Li, Wenchao; Ma, Lan; Ye, Yixing; Tang, Qi; Shen, Yue; Zou, Zidan; Zhou, Hongjian; Liang, Changhao; Wang, Guozhong	463	4		
187	Ultra-low Cu(I) loading achieving ultra-high fouling-resistance and decontamination performance in a self-cleaning Cu <sub>2</sub> O/Ti <sub>3</sub> C <sub>2</sub> Tx@PVDF catalytic membrane integrated system	JOURNAL OF HAZARDOUS MATERIALS	10.1016/j.jhazmat.2025.138817	Xie, Chao; Zhang, Pengyu; Hu, Yi; Yang, Dandan; Li, Yahui; Li, Yulian; Lu, Jiandong; Wu, Zijian; He, Junyong; Hong, Peidong; Kong, Lingtao	495			
188	Phonon anharmonicity driven charge density wave transition and ultrafast dynamics in 1T-TaS <sub>2</sub> /TaSe <sub>2</sub>	PHYSICAL REVIEW B	10.1103/frw3-jl7n	Tu, Wenqian; Lv, Run; Shao, Dingfu; Sun, Yuping; Lu, Wenjian	112	22	224310	
189	A dual-bioinspired laminated approach enables high thermal conductivity and superior toughness in zero-thermal-expansion copper composites	Acta Materialia	10.1016/j.actamat.2025.121799	Dong, Buke; Zhng, Xuekai; Cao, Saichao; Lin, Jianchao; Zeng, Jiawei; Liu, Keke; Tan, Zhijian; Chen, Jie; Song, Wenhai; Sun, Yuping; Tong, Peng	304		121799	121799

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190	A biomimetic aluminum composite exhibiting gradient-distributed thermal expansion, high thermal conductivity, and highly directional toughness	Journal of Materials Science & Technology	10.1016/j.jmst.2024.06.025	Dong, Buke; Wei, Chenlong; Lin, Jianchao; Xie, Lulu; Liu, Keke; Xiong, Tingjiao; Song, Wenhai; Tong, Peng; Sun, Yuping	213		90	97
191	Boosting Long-Life Sodium Storage of Na <sub>4</sub> MnV(PO <sub>4</sub> ) <sub>3</sub> via Synergistic Bond Structure Regulation and Interfacial Modification	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202523851	Wang, Siya; Bai, Jin; Wang, Peiyao; Xiao, Ke; Liu, Yuanyuan; Qiu, Shiyu; Wang, Xiaolong; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping	36	31		
192	Supramolecular Fluorescence Probe for Rapid Visual Detection of Pyrethroid and Composite Aerogel as Pyrethroid vapor Sensor	ANALYTICAL CHEMISTRY	10.1021/acs.analchem.5c02399	Liu, Anqi; Zhang, Qipeng; Pan, Lei; Yang, Fan; Lin, Dan; Jiang, Changlong	97	25	13672	13680
193	Donor-acceptor Type Solvatochromic Flavonoid Materials Fluorophores for Polarity Sensing and Real-time Temperature Monitoring	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202415250	Liu, Anqi; Zhang, Qipeng; Pan, Lei; Yang, Fan; Lin, Dan; Jiang, Changlong	35	7		
194	Ultra-low Cu(I) loading achieving ultra-high fouling-resistance and decontamination performance in a self-cleaning Cu <sub>2</sub> O/Ti <sub>3</sub> C <sub>2</sub> Tx@PVDF catalytic membrane integrated system	Journal of Hazardous Materials	10.1016/j.jhazmat.2025.138817	Xie, Chao; Zhang, Pengyu; Pan, Fakang; Hu, Yi; Yang, Dandan; Li, Yahui; Li, Yulian; Lu, Jiandong; Wu, Zijian; He, Junyong; Hong, Peidong; Kong, Lingtao	495			
195	Dual-functional La/Fe-MOFs-NH <sub>2</sub> for real-time visual removal of fluoride in dynamic environments	Chemical Engineering Journal	10.1016/j.cej.2025.172243	Wei, Jian; Sun, Rui; Ma, Han; He, Junyong; Yang, Dandan; Lu, Jiandong; Hong, Peidong; Li, Yulian; Li, YaHui; Xie, Chao; Wu, Zijian; Kong, lingtao	528			

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1	Ru Quantum Dots Modified Mucor-Derived Carbon Submicroribbons for Advanced Lithium-Sulfur Batteries	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202420162	Chen, Bin	35	25		
2	Further Promoting Form II-To-Form I Phase Transition in Low-Molecular-Weight Polybutene-1 by Addition of Heating/Cooling Cycles Into Nucleation Stage of Form I	JOURNAL OF POLYMER SCIENCE	10.1002/pol.20250082	Liu, Tangguo; Li, Xiangyang; Lin, Yongxing; Chen, Lin; Tian, Xingyou	63	9	2010	2024
3	Supramolecular Interface Buffer Layer for Stable Zinc Anode	SMALL METHODS	10.1002/smtd.202401865	Wang, Yifan; Peng, Yuqi; Li, Zhaoqian; Mo, Li'e; Huang, Yang; Hu, Linhua	9	7		
4	Highly Oriented SiC@SiO <sub>2</sub> Ceramic Fiber Aerogels with Good Anisotropy of the Thermal Conductivity and High-Temperature Resistance	ADVANCED SCIENCE	10.1002/advs.202416740	Zhang, Zheng; Liu, Cui; Li, Nian; Guo, Wei; Li, Ying; Yang, Pengzhan; Zhang, Shudong; Wang, Zhenyang	12	17		
5	A High-Capacity Manganese-Metal Battery with Dual-Storage Mechanism	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	10.1002/anie.202423921	Li, Xiangyang	64	15		
6	Effects of Chelators on Fluoride Removal by AlCl <sub>3</sub> and AlI <sub>3</sub> Coagulation: Performance and Mechanism	ENVIRONMENTAL SCIENCE & TECHNOLOGY	10.1021/acs.est.4c11302	Zhang, Kaisheng	59	6	3297	3308
7	Preparation of Silica Powder from Low-Grade Quartz by Mechanical Activation Acid Leaching and Its Mechanism	SILICON	10.1007/s12633-025-03240-8	Gui, Yuziyu; Zhu, Xiaoxiao; Fu, Hao; Wang, Ling; Ban, Boyuan; Chen, Jian	17	4	835	849
8	Largely Promoted C-H Activation in Methane with O <sub>2</sub> via d-Orbital Hybridization Induced by CuO <sub>x</sub> Supported on ZnO	ACS CATALYSIS	10.1021/acscatal.4c06051	Chen, Bin	15	3	1607	1615
9	Effects of pre-service heat treatments on microstructure and properties of atmospheric-plasma-sprayed Yb <sub>2</sub> SiO <sub>5</sub> environmental barrier coating	SURFACE & COATINGS TECHNOLOGY	10.1016/j.surfcoat.2025.131760	Dong, Wenxiu; Hu, Xiaoye; Dang, Xian; Li, Kewei; Li, Xinyang; Huang, Zhulin; Li, Yue; Duan, Jingbo	497			

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10	Interface engineering of Ni <sub>3</sub> S <sub>2</sub> coupled NiFe-LDH heterostructure enables superior overall water splitting	MATERIALS TODAY CHEMISTRY	10.1016/j.mtchem.2024.102510	Huang, Zhulin; Chen, Bin	43			
11	Improved dimensional stability of zero-thermal-expansion Cu <sub>2</sub> P <sub>2</sub> O <sub>7</sub> /ZL101 composite by thermal treatment	APPLIED PHYSICS LETTERS	10.1063/5.0254207	Zeng, Jiawei; Lin, Jianchao; Dong, Buke; Song, Wenhai; Tong, Peng; Sun, Yuping	126	11		
12	Facile synthesis of vanadium oxide thin films by atomic layer deposition and post-annealing	APPLIED PHYSICS LETTERS	10.1063/5.0245902	Sun, Y. K.; Zhang, G. D.; Hu, L.; Wei, R. H.; Zhu, X. B.; Sun, Y. P.; Zhang, R. R.	126	5		
13	Sulfur chains glass formed by fast compression	NATURE COMMUNICATIONS	10.1038/s41467-024-55028-w	Gregoryanz, Eugene	16	1		
14	Surface catalytic effect of Ag nanoparticles and influence of dissolved oxygen on photocatalytic reduction of nitrate	RSC ADVANCES	10.1039/d5ra00782h	Huang, Bin; Liu, Wei; Chao, Kun; Wang, Dongran; Wang, Pengxiang; Han, Fangming; Tang, Haibin; Meng, Guowen	15	11	8657	8662
15	High-Throughput Screening of Selective Bimetallic Atomic Catalysts for Self-Adaptive Matched Electrochemical Reduction	NANO LETTERS	10.1021/acs.nanolett.4c06524	Song, Zong-Yin; Li, Pei-Hua; Yang, Meng; Lin, Jing-Yi; Xia, Rui-Ze; Cai, Xin; Chen, Shi-Hua; Huang, Xing-Jiu; Li, Yong-Yu; Liu, Wen-Qing	25	10	3947	3955
16	Stepwise Coordination Engineering of Pt <sub>1</sub> /Au <sub>25</sub> Dual Catalytic Sites with Enhanced Electrochemical Activity and Stability	ADVANCED MATERIALS	10.1002/adma.202417900	Li, Pei-Hua; Song, Zong-Yin; Zhao, Yong-Huan; Liang, Bo; Yang, Meng; Huang, Xing-Jiu	37	10		
17	Synthesis of lutetium hydrides at high pressures	MATTER AND RADIATION AT EXTREMES	10.1063/5.0227283	Peng, Yuan-Ao; Wang, Han-Yu; Su, Fu-Hai; Wang, Pu; Xu, Hai-An; Liu, Lin; Yu, Lun-Xuan; Xu, Wan; Gregoryanz, Eugene; Liu, Xiao-Di	10	1		
18	Machine learning-integrated surface-enhanced Raman spectroscopy analysis of multicomponent dye mixtures	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	10.1016/j.saa.2025.125806	Yu, Yan; Lu, Wenjing; Jiang, Yurui; Li, Junhui; Yang, Meng; Huang, Xingjiu; Tang, Xianghu	332			
19	Lithium extraction from salt lake via rocking-chair flow electrode capacitive deionization with monovalent selective membrane	DESALINATION	10.1016/j.desal.2024.118516	Jiang, Jie; Wei, Yanan; Zhou, Hongjian	600			

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20	Binder-free SiO <sub>2</sub> nanoparticles coated polypropylene separator for high performance lithium-ion battery	SOLID STATE IONICS	10.1016/j.ssi.2025.116783	Xu, Hai Yan; Fei, Guang Tao; Xu, Shao Hui; Chen, Wen Chao; Li, Shi Jia	420			
21	Design and application of metal-organic framework based chemo-fluorescent sensor for selective sensing of the full spectrum of tetracyclines in complex samples	CHEMICAL ENGINEERING JOURNAL	10.1016/j.ccej.2025.160281	Zhu, Yaowei; Tang, Ruijie; Zhao, Jun; Jiang, Changlong; Li, Lingfei; Liu, Bianhua	507			
22	Zinc Doping-Induced Lattice Growth Regulation for Enhanced Upconversion Emission in Serum Bilirubin Detection	ANALYTICAL CHEMISTRY	10.1021/acs.analchem.4c05839	Zhang, Lanpeng; Kang, Xiaohui; Yang, Fan; Jia, Wei; Yang, Liang; Jiang, Changlong	97	6	3515	3524
23	3D Printable Plasmonic Titanium Nitride Nanoparticles Enhanced Thermoplastic Polyurethane Composite for Photothermal Deicing and Infrared Imaging	ACS APPLIED NANO MATERIALS	10.1021/acsanm.4c06803	Xi, Min; Li, Nian; Wang, Zhenyang/Xi, Min; Li, Nian; Wang, Zhenyang	8	5	2500	2511
24	Anisotropic thermal conductivity of 3D printed graphene enhanced thermoplastic polyurethanes structure toward photothermal conversion	CARBON	10.1016/j.carbon.2025.120023	Xi, Min; Li, Nian; Zhang, Shudong; Wang, Zhenyang	234			
25	Enhancing open-circuit voltage in FAPbI <sub>3</sub> perovskite solar cells via self-formation of coherent buried interface FAPbI <sub>x</sub> Cl <sub>3-x</sub>	CHEMICAL COMMUNICATIONS	10.1039/d4cc06599a	Li, Zhaoqian	61	13	2758	2761
26	Hierarchical hollow microspheres assembled from carbon nanosheets integrated with molybdenum carbide nanoparticles for boosting microwave absorption properties	NANO RESEARCH	10.26599/NR.2025.94907034	Zhang, Xiao	18	1		
27	Multidentate chelation via pyridine-based molecules for high-efficiency perovskite solar cells	INORGANIC CHEMISTRY FRONTIERS	10.1039/d4qi03269a	Zhang, Yongxiang; Zhang, Jinfeng; Sun, Aiqin; Yang, Zhiqian; Han, Mengting; Huang, Yang; Hu, Linhua	12	6	2395	2403
28	Sustainable production of bio-based pentanediol from ring-opening hydrogenolysis of furan derivative over hydrotalcite-derived mixed metal oxide catalyst	FUEL	10.1016/j.fuel.2025.134398	Li, Yue; Shen, Yue; Zhang, Jia; Chen, Chun; Zhang, Xiao; Geng, Baoyou; Wang, Guozhong	387			
29	Junction Field-Effect Transistors Based on MoSe <sub>2</sub> /WSe <sub>2</sub> Heterostructures for High-Performance Photodetection	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.4c15167	Li, Liang	17	11	16970	16977

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30	Interlayer hopping between a surface Mott insulator and a bulk band insulator in layered 1T-TaS <sub>2</sub>	PHYSICAL REVIEW B	10.1103/PhysRevB.111.075126	Gao, Jingjing; Luo, Xuan; Sun, Yuping	111	7		
31	The Reversible and Background-Free Hydrogel-Sensing Platform for Dual-Mode Detection of Acetone in Exhaled Breath	ANALYTICAL CHEMISTRY	10.1021/acs.analchem.4c06189	Jiang, Changlong	97	7	4084	4091
32	Background-free luminescent and chromatic assay for strong visual detection of creatinine	TALANTA	10.1016/j.talanta.2025.127631	Jiang, Changlong	287			
33	MUA-modified Au nanocluster-driven fluorescence sensor for chromatographic test strips-based visual detection of patulin	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	10.1016/j.saa.2025.125736	Xu, Shihao; Jiang, Changlong; Gao, Hongcheng; Xie, Zhenzhen; Xu, Shihao	330			
34	An Environmental Engineering Study Case: Constructing Cataluminescence Sensors Based on Octahedral Nanocomposites for Isovaleraldehyde Detection	MOLECULES	10.3390/molecules30030646	Sun, Bai	30	3		
35	Spindle-shaped efficient adsorbent NiCo <sub>2</sub> O <sub>4</sub> /MIL-53(Fe) for the removal of Congo red: Design, synthesis and performance studies	DESALINATION AND WATER TREATMENT	10.1016/j.dwt.2025.101030	Sun, Bai; Kong, Lingtao	321			
36	Design and characterization of micro-nano cellulose fibers composite separators for sodium-ion batteries	JOURNAL OF MEMBRANE SCIENCE	10.1016/j.memsci.2025.124161	Ma, Xiaohang; Xiang, Hongfa; Hu, Linhua	728			
37	Simultaneously optimizing power factor and thermal conductivity of n-type PbTe	APPLIED PHYSICS LETTERS	10.1063/5.0263654	Chen, Tao; Wang, Shenghui; Xin, Hongxing; Li, Di; Huang, Zhulin; Zhang, Jian	126	21		
38	Effect of soybean isolate protein and glucono- $\delta$ -lactone on porous cordierite structure and properties	INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY	10.1111/ijac.15133	Cheng, Shufen; Liu, Gang; Chen, Lin; Zheng, Kang; Tian, Xingyou; Cheng, Shuji	22	4		
39	Effects of alumina fibers on densification and thermal properties of BBSCA/ Al <sub>2</sub> O <sub>3</sub> low temperature co-fired ceramic composites prepared via aqueous tape casting	CERAMICS INTERNATIONAL	10.1016/j.ceramint.2025.01.106	Li, Jiali; Xing, Hanlu; Xue, Shijie; Sun, Jun; Hu, Kun; Chen, Lin; Li, Xiaoxiao; Gong, Yi; Zhang, Xian; Tian, Xingyou; Sun, Jun; Hu, Kun	51	10	12663	12672

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40	Microstructure and mechanical properties of ZrC nanoparticles dispersion-strengthened FeCrAl alloys containing Mo and Nb	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2025.180876	Liu, Rui; Fang, Qianfeng; Wang, Xianping	1030			
41	Construction of an MoSe <sub>2</sub> /MoS <sub>2</sub> nanosheet heterostructure for enhanced sodium storage performance	JOURNAL OF MATERIALS CHEMISTRY C	10.1039/d5tc01002k	Wang, Xuelian; Bai, Jin	13	24	12554	12563
42	Implications of high-pressure oxygen hydrates on radiolytic oxygen in Jovian icy moons	COMMUNICATIONS CHEMISTRY	10.1038/s42004-025-01509-y	Gregoryanz, Eugene	8	1		
43	Magnetic ordering phase transition and abnormal brittleness in dilute Fe-Mn solid solution	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T	10.1016/j.jmrt.2025.04.136	Liu, Wei; Liang, Yunfeng; Li, Xiangyan; Xu, Yichun; Zhang, Yange; Fang, Q. F.; Liu, C. S.; Wu, Xuebang	36		4284	4292
44	Néel vector-dependent anomalous transport in altermagnetic metal CrSb	NPJ QUANTUM MATERIALS	10.1038/s41535-025-00766-3	Shao, Ding-Fu	10	1		
45	Highly Sensitive and Flexible B-VO <sub>2</sub> /Polymer Photodetector for Broadband Infrared Detection	LASER & PHOTONICS REVIEWS	10.1002/lpor.202500303	Li, Ming				
46	Low-voltage driven robust ferroelectrics in layered ultrathin film	SURFACES AND INTERFACES	10.1016/j.surfin.2025.106167	Tong, Haiyun; Gong, Chengzhan; Yang, Bingbing; Zhu, Xuebin	62			
47	Adsorption-modulated dynamical stability of nanobubbles at the solid-liquid interface	CHINESE PHYSICS B	10.1088/1674-1056/adbd29	Yang, Yong	34	6		
48	Competing magnetic states in quasi-one-dimensional hexagonal ferromagnetic Nd <sub>1-x</sub> La <sub>x</sub> CrGe <sub>3</sub> crystals	APPLIED PHYSICS LETTERS	10.1063/5.0260689	Luo, Xuan; Zhou, Nan	126	21		
49	Large magnetoresistance and thermoelectric properties of a quasi-skutterudite Ca <sub>3</sub> Pt <sub>4</sub> Sn <sub>13</sub> single crystal	JOURNAL OF MATERIALS CHEMISTRY C	10.1039/d4tc04812a	Luo, Qingqing; Shao, Dingfu; Luo, Xuan; Zhou, Nan	13	20	10205	10211

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50	Enhanced strength and thermal stability of tungsten alloys by the dispersion of nanoscale potassium bubbles and ZrC particles	JOURNAL OF NUCLEAR MATERIALS	10.1016/j.jnucmat.2025.155863	Yang, Run; Xie, Zhuoming; Liu, Rui; Yang, Junfeng; Wu, Xuebang; Wang, Xianping; Fang, Qianfeng; Liu, Changsong	613			
51	Spin-Splitting Magnetoresistance in Altermagnetic RuO <sub>2</sub> Thin Films	ADVANCED MATERIALS	10.1002/adma.202507764	Wang, Zi-An; Shao, Ding-Fu				
52	Graphene-modified C/C composites for enhanced directional thermal conductivity	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T	10.1016/j.jmrt.2025.04.089	Song, Shanyong; Li, Xinyang; Shen, Chen; Li, Ming; Hu, Xiaoye; Huang, Zhulin	36		4043	4052
53	In-situ construction of WN-Ni <sub>2</sub> P heterostructures embedded in nitrogen-doped carbon nanoflakes as lithium sulfide hosts for advanced lithium-sulfur batteries	RARE METALS	10.1007/s12598-025-03313-y	Chen, Bin				
54	Pt/Ti <sub>3</sub> C <sub>2</sub> electrode material used for H <sub>2</sub> S sensor with low detection limit and high stability	CHINESE CHEMICAL LETTERS	10.1016/j.ccllet.2024.110195	Zong, Huakang; Li, Xinyue; Yu, Xingxing; Luo, Yuanyuan	36	5		
55	Pressure-resistant anomalous Hall effect and magnetism in the kagome ferromagnet LiMn <sub>6</sub> Sn <sub>6</sub>	APPLIED MATERIALS TODAY	10.1016/j.apmt.2025.102794	Zhao, Jing; Wang, Xianlong	45			
56	Photoelectrocatalytic reduction of nitrate to nitrogen gas by Cu <sub>2</sub> O nanorod arrays on Cu foams with high stability	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	10.1039/d5cp01153a	Liu, Wei; Huang, Bin; Chen, Peng; Wang, Dongran; Wang, Pengxiang; Huang, Zhulin; Tang, Haibin; Meng, Guowen				
57	Triple Synergistic Modulation via Sn Doping in Tetrahedrites: Electronic Structure, DOS, and Scattering Engineering for a High Thermoelectric Performance	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.5c03760	Zhang, Jian	17	19	28384	28394
58	Oxidation Resistance and Mechanical Properties of Mo <sub>2</sub> N/MoSi <sub>2</sub> Multi-Layer Films Prepared by Reactive Magnetron Sputtering	COATINGS	10.3390/coatings15040457	Yang, Junfeng; Fang, Qianfeng	15	4		
59	Influence of carrier localization on terahertz conductivity in Weyl semimetal Mn <sub>3</sub> Sn thin films	APPLIED PHYSICS LETTERS	10.1063/5.0254697	Xu, Wen	126	15		

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60	Chainmail Structures of CoNi Alloys Encapsulated in Nitrogen-Doped Carbon Nanotubes Empowered Long-Term Stable Detection of Sodium Ions	SMALL	10.1002/sml.202501034	Zhao, Yong-Huan; Xia, Rui-Ze; Cai, Xin; Liu, Zi-Hao; Song, Zong-Yin; Chen, Shi-Hua; Yang, Meng; Lin, Jing-Yi; Li, Pei-Hua; Huang, Xing-Jiu				
61	Role of strontium and associated particle enrichment in Si purification using Al-Si-Sr solvent refining	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	10.1016/j.mssp.2025.109620	Ban, Boyuan; Chen, Jian	195			
62	Potential-Driven Dynamic Spring-Effect of Pd—Cu Dual-Atoms Empowered Stability and Activity for Electrocatalytic Reduction	ADVANCED SCIENCE	10.1002/advs.202501393	Li, Pei-Hua; Yang, Yuan-Fan; Song, Zong-Yin; Liang, Bo; Zhao, Yong-Huan; Cai, Xin; Liu, Zi-Hao; Lin, Jing-Yi; Yang, Meng; Huang, Xing-Jiu				
63	High-efficiency and stable perovskite solar cells via bidentate chelation for facet-engineered growth of FAPbI <sub>3</sub> (111) crystals	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.164079	Chen, Chong	516			
64	Liquid metal/elastomer composites with strain invariant electromagnetic shielding	COMPOSITES COMMUNICATIONS	10.1016/j.coco.2025.102364	Sun, Zhouping; Dong, Yong; Zhang, Wei; Liu, Yanyan; Tian, Xingyou; Wang, Hua	56			
65	The influences of graphene nanoplatelets dimension on the thermophysical properties of nanocomposite phase change materials	MATERIALS TODAY COMMUNICATIONS	10.1016/j.mtcomm.2025.113089	Zhong, Yan; Zhang, Junyan; Li, Wencong; Qi, Wei; Ma, Yuhan; Sun, Xin; Liu, Yanyan; Zhang, Haibao; Sun, Jun; Li, Xiaoxiao; Chen, Lin; Tian, Xingyou	47			
66	Bifunctional TeS/TeP <sub>2</sub> O <sub>7</sub> Nanocomposite for Enhanced Energy Storage and Hydrogen Evolution	ENERGY & FUELS	10.1021/acs.energyfuels.5c00508	Ali, Sarmad; Li, Nian; Wang, Zhenyang	39	22	10659	10673
67	Multiple-Layered Single-Walled Carbon Nanotube/Silver Nanowire Composite Film for High-Efficiency Electromagnetic Interference Shielding	CHEMISTRYSELECT	10.1002/slct.202406185	Wan, Yuhao; Wu, Hang; Hu, Rui; Gan, Zhengya; Ding, Jianjun; Gong, Yi; Tian, Xingyou	10	14		
68	Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /NiFe-LDH heterojunction as a photo-assisted electro catalyst for efficient oxygen evolution reaction	SEPARATION AND PURIFICATION TECHNOLOGY	10.1016/j.seppur.2025.132959	Hu, Linhua	369			
69	Intercalation and Interface Engineering of Layered MnO <sub>2</sub> Cathodes toward High-Performance Aqueous Zinc-Ion Batteries	JOURNAL OF PHYSICAL CHEMISTRY C	10.1021/acs.jpcc.5c01408	Mo, Li'e; Hu, Linhua	129	14	6684	6696

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70	Hypophosphorous Acid Additive Engineering for Efficient Cu <sub>2</sub> AgBiI <sub>6</sub> Solar Cells	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202504863	Kang, Jian; Yin, Huajie				
71	Orthochannel matrix current collector for high-rate flow electrode capacitive deionization in hypersaline environments	CHEMICAL ENGINEERING JOURNAL	10.1016/j.ccej.2025.163913	Zhou, Hongjian	515			
72	Selective lithium extraction from natural brine with high Na/Li and Mg/Li ratios using a polyporous LiMn <sub>0.5</sub> Fe <sub>0.5</sub> PO <sub>4</sub> /C electrode	DESALINATION	10.1016/j.desal.2025.118859	Zhou, Hongjian	609			
73	Constructing surface oxygen vacancy-rich In <sub>2</sub> O <sub>3</sub> -x /tubular carbon nitride S-scheme heterojunction for selective biomass-derivative oxidation coupled with H <sub>2</sub> production	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	10.1016/j.jmst.2024.12.093	Wang, Weikang; Zhang, Jifang	236		301	309
74	Laser-generated Au nanoparticles enabling PEGylation in dense brush conformation persisted high stability under elevated temperature	COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS	10.1016/j.colsurfa.2025.137282	Wei, Shuxian; Cheng, Xiaohu; Wu, Lingli; He, Ningning; Shen, Jiayue; Zhou, Hongyu; Kang, Xingyu; Cai, Yunyu; Ye, Yixing; Li, Pengfei; Liang, Changhao	722			
75	Improving the washability of conductive textiles by constructing a dually crosslinked polyvinyl alcohol network with silver nanowires	NANOSCALE	10.1039/d5nr01022e	Ge, Qianru; Zeng, Qingyang; Li, Shuxin; Ji, Shulin	17	18	11520	11529
76	New high-pressure phases of nitrogen-rich Zr-N compounds	INTERNATIONAL JOURNAL OF MODERN PHYSICS C	10.1142/S0129183125500834	Zhang, Yanfeng; Zhang, Jie; Wang, Xianlong				
77	High-Strength Self-Healing Polyurethane Composites Reinforced by Hydrogen Bonds	ACS APPLIED POLYMER MATERIALS	10.1021/acsapm.5c00639	Guo, Wei; Zhang, Jixiang; Li, Nian; Zhang, Shudong; Liu, Cui; Wang, Zhenyang				
78	Radiation-cooled aramid composite films featuring tunable TiO <sub>2</sub> nanorod arrays anchored on the surface of 2D mica nanosheets for passive daytime radiative cooling applications	JOURNAL OF MATERIALS CHEMISTRY A	10.1039/d5ta01778e	Ma, Bo; Guo, Wei; Zhang, Jixiang; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang				
79	Integrated Solar-thermal Conversion, Heat Collection and Antibacterial Properties of Composite Fabrics: A Case Study of PEG@SiO <sub>2</sub> Microcapsules Intercalated within MXene	ACS APPLIED NANO MATERIALS	10.1021/acsanm.5c01480	Tao, Meng; Guo, Wei; Zhang, Jixiang; Liu, Cui; Li, Nian; Xi, Min; Zhang, Shudong; Wang, Zhenyang	8	19	10056	10065

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80	Surface modification of tantalum foil for enhanced capacitance using flash-induced tantalum powder coating and electrochemical etching	MATERIALS TODAY COMMUNICATIONS	10.1016/j.mtcomm.2025.112980	Song, Yanping; Kang, Jun; Li, Zhao; Hong, Na; Kong, Mingguang; Li, Nian; Wang, Zhenyang	47			
81	Laser-Induced Synthesis of ZnO/Graphene Composites with a Porous Structure for Supercapacitors	ACS APPLIED NANO MATERIALS	10.1021/acsanm.5c01312	Gao, Qinghuan; Song, Yanping; Li, Zhao; Kang, Jun; Hong, Na; Wang, Shihao; Wang, Shichang; Yang, Zhiyuan; Li, Nian; Wang, Zhenyang	8	23	11906	11918
82	Ratiometric fluorescent sensor for sensitive visualization of full-spectrum fluoroquinolone antibiotic residues in the environment	MICROCHEMICAL JOURNAL	10.1016/j.microc.2025.113260	Tang, Ruijie; Li, Lingfei; Zhu, Yaowei; Zhan, Minghui; Zhao, Jun; Jiang, Changlong; Liu, Bianhua	212			
83	Supercooling Behavior of 2-Amino-2-methyl-1,3-propanediol for Thermal Energy Storage	MOLECULES	10.3390/molecules30102206	Bai, Jin	30	10		
84	Laser induced 3D printed graphene enhanced thermoplastic polyurethane structure for improved anisotropy and Photo-/Electro-thermal deicing performance	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.162399	Xi, Min; Li, Nian; Wang, Zhenyang	512			
85	Doping-engineered regulation of Co(IV)=O enhanced Fenton-like activities via electronic structure modulation on CoSCN nanotubes	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.162104	Ge, Liang; Wei, Jian; He, Junyong; Sun, Rui; Wang, Wenlong; Yang, Dandan; Lu, Jiandong; Hong, Peidong; Li, Yulian; Li, Yahui; Xie, Chao; Wu, Zijian; Kong, Lingtao	512			
86	Buried SnI2 Induces Gradient Heterojunctions in Sn-Pb Perovskite Solar Cells	ACS ENERGY LETTERS	10.1021/acsenergylett.5c00305	Pan, Xu	10	5	2084	2092
87	Background-free and dual-signal output intelligent hydrogel nanosensor for sensitive detection of catalase in serum	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.162593	Jiang, Changlong	512			
88	Sulfonated poly(fluorenylene-co-terphenylene alkylene) cation-exchange membrane for flow electrode capacitive deionization	SEPARATION AND PURIFICATION TECHNOLOGY	10.1016/j.seppur.2025.133932	Zhou, Hongjian	376			
89	Composite phase change materials of hyper-crosslinked polystyrene/ n-eicosane with high latent heat and high compressive strength	JOURNAL OF ENERGY STORAGE	10.1016/j.est.2025.116916	Liu, Mengru; Zhang, Wei; Pan, Rui; Yao, Yunle; Li, Jianmin; Zhang, Jiaping; Chen, Lin; Zhang, Xian; Tian, Xingyou; Gong, Yi	124			

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90	Unravelling dual LSPR shifting effects via tip amplification from anisotropic plasmonic nanocrystal in MOFs shell	PHYSICA SCRIPTA	10.1088/1402-4896/add5a7	Wu, ZhaoGuo; Zhao, AiWu; Wang, Jin	100	6		
91	Magnetic-field-driven quantum metallic state and scaling relationship in polycrystalline vanadium films	SUPERCONDUCTOR SCIENCE & TECHNOLOGY	10.1088/1361-6668/ade299	Wang, Xian-Long; Li, Ming	38	7		
92	Lithium Intercalation Chemistry in TaS <sub>2</sub> Nanosheets for Lithium-Ion Batteries Anodes	NANOMATERIALS	10.3390/nano15080626	Wang, Xuelian; Bai, Jin	15	8		
93	Ni-Co bimetallic phosphide catalyst toward electrocatalytic ammonia synthesis under ambient conditions	RSC ADVANCES	10.1039/d5ra00391a	Zhao, Dongnan; Mao, Zhixian; Zhang, Shengbo; Liu, Min; Hu, Kui; Li, Daopeng; Qu, Zhengguo; Zhou, Li; Shi, Tongfei	15	13	10390	10394
94	Au nanoparticles with oxygen vacancies on BiVO <sub>4</sub> for electrocatalytic nitrate reduction to ammonia	RSC ADVANCES	10.1039/d5ra00886g	Zhang, Shengbo; Mao, Zhixian; Zhao, Dongnan; Li, Daopeng; Shi, Tongfei	15	19	14739	14744
95	Advances in Room-Temperature Catalytic Ozone Decomposition: Mechanisms, Catalysts, and Future Challenges	CHEMNANOMAT	10.1002/cnma.202400646	Hu, Changjuan; Tian, Yongying; Zhou, Shihao; Yin, Huajie	11	9		
96	Magnetic phase diagram of Cr <sub>2</sub> Te <sub>3</sub> revisited by ac magnetostrictive coefficient	APPLIED PHYSICS LETTERS	10.1063/5.0271368	Sun, Y. P.; Jiang, Zhongzhu; Luo, Xuan	127	1		
97	Colorimetric ALP detection with a ligand-exchanged Au <sub>8</sub> cluster	CHEMICAL COMMUNICATIONS	10.1039/d5cc02136g	You, Qing; Wu, Zhikun	61	68	12741	12744
98	Compositional design of spectrally stable blue mixed-halide perovskite LEDs	ACTA PHYSICA SINICA	10.7498/aps.74.20250297	Feng, Jiyu; Liu, Min; Qu, Zhengguo; Zhao, Dongnan; Li, Daopeng; Shi, Tongfei	74	14		
99	Microstructure and Properties of ZrC Nanoparticles-Strengthened WNiFe Alloys	RARE METAL MATERIALS AND ENGINEERING	10.12442/j.issn.1002-185X.20240635	Yang, Run; Wang, Hui; Liu, Rui; Wu, Xuebang; Wang, Xianping; Fang, Qianfeng; Liu, Changsong	54	7	1661	1670

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100	Laser-engineered carbon hierarchies with multiscale attenuation mechanisms for ultrabroadband microwave absorption	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.168152	Li, Zhao; Li, Nian; Song, Yanping; Kang, Jun; Hong, Na; Wang, Shihao; Yang, Zhiyuan; Zhang, Shudong; Liu, Cui; Xi, Min; Wang, Zhenyang	522			
101	An Eco-Friendly Sb <sub>2</sub> Se <sub>3</sub> -Based Superhydrophobic Photothermal Coating for Scalable Anti-icing and De-icing Applications	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.5c03999	Wang, Chao; Zhang, Jixiang; Zhan, Minghui; Wang, Pan; Liu, Bianhua; Zhao, Jun	17	31	44872	44883
102	Fast Photo-Heat-Response Cu <sub>7</sub> S <sub>4</sub> /PNIPAM Composite Hydrogels Real-Time Adjusting the Incident Light Transmittance Rate for Smart Windows	CHEMNANOMAT	10.1002/cnma.202500213	Zhu, Zhou; Guo, Wei; Zhang, Shudong; Li, Nian; Xi, Min; Zhang, Jixiang; Liu, Cui; Wang, Zhenyang				
103	Mn <sup>2+</sup> -doping optimization strategy for MoS <sub>2</sub> substrates to amplified SERS sensitivity of antibiotic pollutants	SENSORS AND ACTUATORS B-CHEMICAL	10.1016/j.snb.2025.138204	Tang, Xiang-Hu; Huang, Xing-Jiu	443			
104	A quadruple-functional photo-electrocatalyst for monitorable PCB-12 dechlorination during alkaline water splitting	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2025.183469	Chen, Bin	1040			
105	Preparation of N-doped VO <sub>2</sub> by thermal oxidation of vanadium nitride	MATERIALS TODAY COMMUNICATIONS	10.1016/j.mtcomm.2025.113258	Du, Fei; Wu, Liangfei; Du, Xinmiao; Song, Haoran; Huang, Zhulin; Li, Ming; Wang, Xianlong	47			
106	Revealing the exchange kinetics of thiol-capped Au <sub>25</sub> nanoclusters with alkynyl ligands	CHEMICAL SCIENCE	10.1039/d5sc04701c	Bian, Guoqing; Wu, Zhikun				
107	Aqueous Selenium Ion Engineering: A Universal Strategy to Reverse Gradient Limitations in Sb <sub>2</sub> (S,Se) <sub>3</sub> Photovoltaics for Enhanced Carrier Dynamics and Performance	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202512587	Chen, Chong				
108	Bidirectional Hydrogen Spillover Enables High Activity Catalysts for Rechargeable Hydrogen Batteries	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	10.1002/anie.202512466	Li, Xiangyang				
109	PVA-Based Organohydrogel Strain Sensors with Balanced Comprehensive Properties Coreinforced by Polyzwitterions and Tannic Acid	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	10.1021/acs.iecr.5c02855	Cheng, Hua; Gong, Yi; Tian, Xingyou	64	37	18258	18267

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110	Cotton-like self-supporting hollow SiO <sub>2</sub> nanoparticle-based antireflection coatings: Design, fabrication, and optimized optical-mechanical properties	CERAMICS INTERNATIONAL	10.1016/j.ceramint.2025.03.220	Hu, Xu Ran; Xu, Shao Hui; Fei, Guang Tao; Wang, Biao; Li, Shi Jia; Liao, Yi Song	51	18	25361	25370
111	Electrochemical upgrading of 5-hydroxymethylfurfural via a defect-rich NiCo <sub>2</sub> O <sub>4</sub> array	GREEN CHEMISTRY	10.1039/d5gc03049h	Mao, Zhixian; Wu, Yijin	27	37	11517	11529
112	Rational in-situ construction of oxygen-deficient and carbon-coated TiO <sub>2</sub> hollow nanotubes for high-performance electrochemical desalination	CHEMICAL ENGINEERING JOURNAL	10.1016/j.ccej.2025.166487	Zhou, Hongjian	521			
113	Internal-external combination of carbon encapsulation and dual redox-active centers for efficient electrochemical desalination	ELECTROCHIMICA ACTA	10.1016/j.electacta.2025.146952	Zhou, Hongjian	538			
114	A refined method for assessing the sodium silicate sol-gel rate during silica aerogel preparation: The influence of Ca <sup>2+</sup> as an application example	COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS	10.1016/j.colsurfa.2025.138131	Ma, Yuhao; Li, Wencong; Qi, Wei; Zhong, Yan; Liu, Yanyan; Zhang, Haibao; Li, Xiaoxiao; Sun, Jun; Tian, Xingyou	727			
115	Self-Regulated Bilateral Anchoring Enables Efficient Charge Transport Pathways for High-Performance Rigid and Flexible Perovskite Solar Cells	NANO-MICRO LETTERS	10.1007/s40820-025-01846-6	Pan, Xu	17	1		
116	Large-Area Vertically Aligned Bi Nanosheets Decorated with Ag-NPs for Efficient Surface-Enhanced Raman Spectroscopy Detection	CRYSTAL GROWTH & DESIGN	10.1021/acs.cgd.5c00056	Tang, Haibin; Huang, Zhulin	25	15	5730	5741
117	Localizing the Long-Range Disorder of Reconstructed Cobalt Oxyhydroxides for Anion Exchange Membrane Water Electrolysis	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	10.1002/anie.202513592	Li, Xiangyang				
118	Synergistic Regulation of Thermopower and Reduced Thermal Conductivity Achieving Higher Thermoelectric Properties in p-Type AsSbTe <sub>2</sub> via Selenium Alloying	ACS APPLIED ENERGY MATERIALS	10.1021/acsaem.5c01632	Jiang, Haolin; Ming, Hongwei; Hu, Wei; Zhang, Wenhao; Song, Chunjun; Zhang, Jian; Xin, Hongxing; Li, Di	8	13	9868	9877
119	Solar-Driven Atmospheric Water Production Through Hierarchically Ordered Porous Carbon for Self-Sustaining Green Hydrogen Production	ADVANCED MATERIALS	10.1002/adma.202511336	Fu, Bo; Zhang, Jifang; Zhang, Zhen; Zhang, Xinyuan; Kang, Jian; Chen, Shan; Yin, Huajie				

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120	Unlocking high-efficiency capacitive desalination performance of Na <sub>4</sub> Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> P <sub>2</sub> O <sub>7</sub> @C via Mn substitution	DESALINATION	10.1016/j.desal.2025.119249	Tan, Jianxiong; Zhou, Jianguo; Wei, Yanan; Zhou, Hongjian	615			
121	Interface-driven electronic modulation enhances U-S coordination in carbon-confined Co-Mo sulfide heterojunctions for electrochemical uranium extraction	CHEMICAL ENGINEERING JOURNAL	10.1016/j.ccej.2025.164881	Li, Qianxi; Zhou, Jianguo; Zhou, Hongjian	519			
122	Time-dependent solid-state phase transition enables efficient latent heat storage in Ni <sub>1-x</sub> Fe <sub>x</sub> S	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2025.183086	Bai, Jin	1039			
123	Spin-orbit torque-driven chiral domain wall motion in Mn <sub>3</sub> Sn	APPLIED PHYSICS LETTERS	10.1063/5.0275467	Shao, Dingfu	127	7		
124	Eu <sup>3+</sup> -activated Y <sub>2</sub> Mg <sub>2</sub> Ga <sub>2</sub> Si <sub>2</sub> O <sub>12</sub> deep red phosphor for healthy lighting wLEDs	PHYSICA B-CONDENSED MATTER	10.1016/j.physb.2025.417627	Wei, Chenlong	715			
125	Universal quasidegenerate orbital origin of two-dome phases in iron pnictide superconductors	PHYSICAL REVIEW B	10.1103/cdgy-gwyj	Liu, Da-Yong; Zou, Liang-Jian	112	1		
126	Study on the high intensity tungsten alloys with the addition of rhenium metal prepared by microwave sintering	International Journal of Refractory Metals and Hard Materials	10.1016/j.ijrmhm.2025.107378	Wei, Chenlong; Wang, Xuexiang; Fang, Jiayu; Qiao, Huihui; Wen, Jun; Tong, Peng	133			
127	Fully-ambient-air processed perovskite solar cells with 24.38 % efficiency through passivation at buried interface by multifunctional molecule	Materials Today Energy	10.1016/j.mtener.2025.102052	Gong, Haisheng; Kong, Fantai; Zhang, Xianliang; Ghadaric, Rahim; Sonmezoglu, Savas	53			
128	Scalable fabrication of customizable annular nanocavity arrays via confined nanosphere self-assembly for multiplex SERS-based analyte detection	Sensors and Actuators B: Chemical	10.1016/j.snb.2025.138494	Zhang, Lili; Li, Yanyan; Hu, Zhiguo; Zhu, Chuhong; Tang, Haibin; Zhang, Lijun; Li, Qianwen; Cai, Li; Sun, Kexi; Huang, Zhulin; Zhang, Hongwen; Li, Zhongbo	444			
129	Pressure-Tunable Coherent Terahertz Emission in a Two-Dimensional Gallium Telluride Crystal	LASER & PHOTONICS REVIEWS	10.1002/lpor.202501885	Wang, Xinyao; Su, Fuhai				

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130	Plasmonic detection of Rashba spin-orbit coupling in monolayer transition metal dichalcogenides	PHYSICAL REVIEW B	10.1103/pxkx-rvkl	Xu, W.	112	16		
131	Research progress of pressure-modulated photoelectric properties of materials	ACTA PHYSICA SINICA	10.7498/aps.74.20250912	Cheng, Peng; Ye, Tingting; Pan, Xiaomei; Xue, Erqiao; Yao, Deyuan; Ding, Junfeng	74	20		
132	Copper hexacyanoferrate framework with dual redox centers for selective lithium extraction in hybrid capacitive deionization	CHINESE JOURNAL OF CHEMICAL ENGINEERING	10.1016/j.cjche.2025.09.008	Zhou, Hongjian	88		256	264
133	Substrate-engineered Mo single-atom catalysts for enhanced PMS activation: Selective IO <sub>2</sub> generation toward efficient tetracycline degradation	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2025.170045	Wang, Yue; Li, Peihua; Song, Zongyin; Zhang, Kaisheng; Huang, Xingjiu	525			
134	Irradiation effects on the elastic properties of tungsten: Impact of dispersed He, vacancy, and transmutation solutes	MATERIALS & DESIGN	10.1016/j.matdes.2025.115175	Liu, Wei; Liang, Yunfeng; Liu, C. S.; Li, Xiangyan; Wu, Xuebang	260			
135	Quaternary AuPdNaS <sub>2</sub> Nanoribbon for a Photodetector with High Photoresponsivity at a Wavelength of 660 nm	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.5c16409	Zhang, Rui; Su, Fuhai	17	44	61084	61090
136	Dual-functional PVDF-HFP additive inverted perovskite solar cells via defect passivation and hydrophobic protection	MATERIALS TODAY CHEMISTRY	10.1016/j.mtchem.2025.103157	Chen, Chong	50			
137	The Effect of Polymer Dispersants on the Stability and Thermophysical Properties of Graphene Nanoplatelets/Alkane Composite Phase Change Materials	JOURNAL OF APPLIED POLYMER SCIENCE	10.1002/app.58157	Li, Wencong; Qi, Wei; Ma, Yuhan; Zhong, Yan; Sun, Xin; Xue, Shijie; Zhang, Haibao; Li, Xiaoxiao; Liu, Yanyan; Sun, Jun; Chen, Lin; Tian, Xingyou				
138	Construction and Structure Tailoring of Versatile Metal Halide Perovskite Composites for Photocatalysis	TOPICS IN CURRENT CHEMISTRY	10.1007/s41061-025-00534-8	Ali, Sarmad	384	1		
139	Facile Amine Modification Synthesis of Core-Shell Polychloromethylstyrene@Ni Microspheres for Anisotropic Conductive Films	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202522420	Pan, Rui; Liu, Hao; Gong, Yi				

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140	Dual-Defect Synergic Cr x Ti y O2 Nanostructures Boosting High SERS Performance	JOURNAL OF PHYSICAL CHEMISTRY LETTERS	10.1021/acs.jpcclett.5c03250	Jiang, Yurui; Ren, Junyang; Quan, Yingnan; Yang, Meng; Huang, Xingjiu; Tang, Xianghu	16	46	12036	12044
141	Enhanced Anisotropy of 3D-Printed Graphene-Polyurethane Composites with Optimized Laser Scan Parameters for Photo/Electrothermal Deicing Applications	ACS APPLIED NANO MATERIALS	10.1021/acsanm.5c03853	Liu, Cui; Li, Nian; Zhang, Shudong; Xi, Min; Wang, Zhenyang	8	43	20991	21008
142	Fluorescent biosensor based on aptamer-cDNA hybridization for Cd2+ detection and molecular mechanism investigation	MICROCHEMICAL JOURNAL	10.1016/j.microc.2025.115614	Xie, Zhenzhen; Jia, Wei; Li, Xingzhen; Pan, Lei; Jiang, Changlong	218			
143	Fast-Response Self-Powered Polarized Broadband Photodetector Based on ReS2/Nb3Cl8 van der Waals Heterostructure	ACS APPLIED ELECTRONIC MATERIALS	10.1021/acsaelm.5c01645	Ma, Xiaofei; Wu, Lin; Li, Liang; Tian, Mingliang	7	21	9850	9858
144	CuO Nanoparticle-Loaded TiO2 Catalyst for High-Performance Photocatalytic Hydrogen Peroxide Generation	SMALL	10.1002/sml.202510644	Yao, Beibei; Kang, Jian; Mao, Zhixian; Tu, Tengxiu; Wu, Zenglong; Bi, Mengfan; Chen, Shan; Yin, Huajie				
145	High-Work-Function Semiconducting Artificial Layer for Durable Zinc Metal Anodes	ADVANCED FUNCTIONAL MATERIALS	10.1002/adfm.202523713	Li, Xiangyang				
146	Efficient Cataluminescence Sensor for Detecting Methanol Based on NiCo2O4//MIL-Ti125 Polyhedral Composite Nano-Materials	CHEMOSENSORS	10.3390/chemosensors13090339	Sun, Bai	13	9		
147	Ethanol Molecule Engineering Toward Stabilized 1T-MoS2 with Extraordinary Sodium Storage Performance	MOLECULES	10.3390/molecules30183801	Wang, Xuelian; Bai, Jin	30	18		
148	High-efficiency (21%) SnS heterojunction solar cells enabled by a novel ZrS2 buffer layer: a numerical study	Results in Engineering	10.1016/j.rineng.2025.108470	Ali Raza , Khurram Shehzad, Sarmad Ali, Zohaib Ali, Fahad Rasheed, Shenggao Wang, Nian Li, Shudong Zhang, Cui Liu, Min Xi, Zhenyang Wang, Antonio Zuerro	28	0	0	
149	Ternary Metal Oxide–Chitosan Hybrids for Efficient Photocatalytic Remediation of Organic Pollutants from Wastewater	Topics in Catalysis	10.1007/s11244-024-01942-8	Qirui, Liu; Faisal, Muhammad; Ali, Sarmad; Ali, Nisar; Nian, Li; Khan, Adnan; Malik, Sumeet; Farhan, Muhammad; Ali, Nauman; Kalsoom, Umme	68	9	984	999

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150	Enhanced electrochemical performance of MoP2-based supercapacitor electrodes through doping with transition, post-transition, and rare earth metals	Fuel	10.1016/j.fuel.2025.134960	Maraj, Mudassar; Shabbir, Mir Rehman; Ali, Faisal; Naseer, Muhammad Hamza; Bhalli, Ali Haider; Ali, Sarmad; Li, Nian; Li, Xiuhong; Wang, Zhenyang	394			
151	Thiourea-linked covalent triazine frameworks enable efficient and selective gold recovery from e-waste leachate	Separation and Purification Technology	10.1016/j.seppur.2024.130506	Xu, Qingfei; Zhang, Heng; Li, Huaimeng; Zhang, Guofeng; Fang, Zhen; Zhang, Yunxia	359			
152	Light programmable liquid metal /colorless polyimide (LM/CPI) transparent film for dynamic infrared camouflage	Composites Part B: Engineering	10.1016/j.compositesb.2024.112042	Pan, Xiaoshuan; Li, Xiaofei; Xiao, Chao; Ding, Xin; Zheng, Kang; Liu, Xianglan; Xue, Meng; Chen, Lin; Gong, Yi; Tian, Xingyou; Zhang, Xian	291			
153	Regulation of surface-bound radicals enhanced Fenton-like activities via radicals confined on Fe3O4/MXenes	Journal of Colloid and Interface Science	10.1016/j.jcis.2025.02.118	Wang, Wenlong; Wei, Jian; He, Junyong; Sun, Rui; Ge, Liang; Yang, Dandan; Lu, Jiandong; Hong, Peidong; Li, Yulian; Li, Yahui; Xie, Chao; Wu, Zijian; Li, Minqiang; Kong, Lingtao	687		677	690
154	Design and Engineering of Silver Nanomushroom Arrays as a Universal Solid-State SERS Platform for the Label-Free, Sensitive and Quantitative Detection of Trace	ACS Applied Bio Materials	10.1021/acsabm.4c01697	Kang Chen, Qian Zhao, Yi Wei, Jingtao Sun, Yanyan Lu, Tingting Xiao, Hongwen Zhang, Weiping Cai	8	2	1484	1492
155	Self-organized deposition morphologies of polymethyl methacrylate nanoparticles in droplets during drying process	Physics Letters, Section A: General, Atomic and Solid State Physics	10.1016/j.physleta.2024.130177	Liang, Yi Fei; Fei, Guang Tao; Xu, Shao Hui; Li, Shi Jia; Wang, Biao	531			
156	Preparation, microstructure and properties of FeCrAlTiSi high entropy alloy coatings using the combined technique of magnetron sputtering with multi-ion plating	Vacuum	10.1016/j.vacuum.2025.114161	Zuo, Li; Gao, Qi; Xu, Yi-Cun; Xie, Zuo-Ming; Zhang, Lin-Chao; Liu, Rui; Pang, Li-Long; Wang, Zhi-Guang; Lu, Gai-Ling; Yang, Jun-Feng	236			
157	Fe3+ induced CoFe@hollow carbon nanocage morphology engineering modulation for tunable microwave absorption based on the Kirkendall effect	Journal of Alloys and Compounds	10.1016/j.jallcom.2024.177438	Guo, Yiming; Sun, Jun; Lin, Yongxing; Li, Xiangyang; Liu, Gang; Gong, Yi; Zhang, Xian; Tian, Xingyou; Li, Xiaoxiao; Chen, Lin	1010			
158	De novo fabrication of biom mineralized Au nanorod@enzymes@ZIF-8 nanocomposites for enhanced enzymatic biocascade reaction in cancer cell	Colloids and Surfaces A: Physicochemical and Engineering Aspects	10.1016/j.colsurfa.2025.136734	Wang, Yashi; Wu, Zhaoguo; Yang, Junwei; Zhao, Aiwu; Wang, Jin	717			
159	Modified silicone rubber with super-stretch and high-temperature resistance for liquid metal/elastomer composites with electrical insulation and strain-invariant electromagnetic	Journal of Materials Science and Technology	10.1016/j.jmst.2024.12.073	Sun, Zhouping; Dong, Yong; Zhang, Wei; Liu, Yanyan; Tian, Xingyou; Wang, Hua	230		186	194

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160	Recovery of high-purity rhenium resources from W-Mo-Re alloy scraps by two-stage low-temperature oxidation volatilization	Process Safety and Environmental Protection	10.1016/j.psep.2025.107056	Wei, Chenlong; Qiao, Huihui; Fang, Jiayu; Wang, Xuexiang; Wen, Jun; Tong, Peng	197			
161	Quartz lattice Al impurity Removal: A simple annealing – leaching process and analysis	Materials Letters	10.1016/j.matlet.2025.138478	Gui, Yuziyu; Chen, Xiaotian; Zhu, Xiaoxiao; Fu, Hao; Jiang, Xuesong; Sun, Jifei; Wang, Ling; Ban, Boyuan; Chen, Jian	391			
162	Expandable graphite optimized carbon-fiber/carbon-aerogel composites with enhanced mechanical property for thermal insulation under extreme environments	Materials Today Energy	10.1016/j.mtener.2025.101852	Zhou, Ningning; Wang, Qiaoqian; Yu, Jie; Li, Xinyang; Li, Ming; Liu, Dilong; Hu, Xiaoye; Huang, Zhulin	49			
163	Breathable sandwich laminates with dynamic infrared camouflage for all-weather scenarios	Composites Part B: Engineering	10.1016/j.compositesb.2024.112014	Hu, Mengyue; Xiao, Chao; Li, Xiaofei; Pan, Xiaoshuan; Zhang, Xian; Liu, Xianglan; Ding, Xin; Xue, Meng; Tian, Xingyou; Zheng, Kang	291			