

固体所2023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	High-Performance Photodetector Based on the ReSe ₂ /PtSe ₂ van der Waals Heterojunction	Acs Applied Electronic Materials	10.1021/acsaelm.3c00220	Song, Yi; Li, Ming; Chen, Jiawang; Du, Zengyan; Zou, Fengxia; Ma, Xiaofei; Li, Liang; Li, Guanghai	5	5	2748	
2	Improved Sb ₂ S ₃ /TiO ₂ Nanoarray Heterojunction Solar Cells by an Insulating Hole-Selective Tunneling Layer	Acs Applied Energy Materials	10.1021/acsaem.2c03863	Liu, Rong; Zhu, Liangxin; Ge, Chengfeng; Cao, Wenbo; Kuang, Jiajin; Dong, Chao; Chen, Junwei; Wang, Mingtai				
3	Enhancing the Optical Response Speed of Thermochromic Paper Displays by Heat Exchange Manipulation of Invisible Heaters	Acs Applied Energy Materials	10.1021/acsaem.2c03799	Tao, Jingqi; Li, Shuxin; Shi, Jun; Ji, Shulin	6	5	2897	2905
4	Surface Site-Specific Replacement for Catalysis Selectivity Switching	Acs Applied Materials & Interfaces	10.1021/acsemi.2c18553	Zha, Jun; Fan, Wentao; You, Qing; Xia, Nan; Gu, Wanmiao; Zhao, Yan; Yan, Nan; Wu, Zhikun/Meng, Xiangfu; Hu, Lin; Wang, Hui				
5	Flexible 3D Substrate of Ag Nanoparticle-Loaded Carbon Aerogels with Outstanding Surface-Enhanced Raman Scattering Performance	Acs Applied Materials & Interfaces	10.1021/acsemi.3c04414	Zheng, Chunxue; Yu, Jie; Wang, Zhen; Huang, Zhulin; Li, Xinyang; Hu, Xiaoye; Li, Yue	15	24	29609	
6	Simultaneous Enhancement of the Power Factor and Phonon Blocking in Nb-Doped WSe ₂	Acs Applied Materials & Interfaces	10.1021/acsemi.3c02983	Danish, Mazhar Hussain; Yang, Shuhuan; Ming, Hongwei; Chen, Tao; Zhang, Jian; Li, Di; Qin, Xiaoying	15	18	22167	
7	Space-Charging Interfacial Layer by Illumination for Efficient Sb ₂ S ₃ Bulk-Heterojunction Solar Cells with High Open-Circuit Voltage	Acs Applied Materials & Interfaces	10.1021/acsemi.3c02843	Liu, Rong; Zhu, Liangxin; Huang, Jia; Chen, Junwei; Dong, Chao; Chen, Chong; Wang, Mingtai	15	20	24583	
8	Attaining High Figure of Merit in the N-Type Bi ₂ Te _{2.7} Se _{0.3} -Ag ₂ Te Composite System via Comprehensive Regulation of Its Thermoelectric Properties	Acs Applied Materials & Interfaces	10.1021/acsemi.3c08294	Li, Shujin; Chen, Tao; Yang, Shuhuan; Chen, Ke; Danish, Mazhar Hussain; Xin, Hongxing; Song, Chunjun; Li, Di; Zhang, Jian; Qin, Xiaoying	15	30	36457	36467
9	High Out-of-Plane Thermally Conductive Polyimide Film for Electronic Thermal Management by the Incorporation of Core-Shell Ag/Polyimide Microparticles	Acs Applied Polymer Materials	10.1021/acsapm.3c00442	Wang, Yanyan; Xiao, Chao; Jiang, Miao; Ding, Xin; Zheng, Kang; Chen, Lin; Tian, Xingyou; Zhang, Xian	5	6	4224	
10	Poly(vinyl alcohol), Tannic Acid, and Silver-Based Hydrogel Strain Sensors with Fish Scale-Like Surfaces	Acs Applied Polymer Materials	10.1021/acsapm.3c00356	Ding, Jianjun/Cheng, Hua; Zhang, Wei; Pan, Rui; Gong, Yi; Zhuo, Yizhi; Gan, Zhengya; Hu, Rui; Ding, Jianjun; Chen, Lin; Zhang, Xian; Tian, Xingyou	5	6	4146	
11	Ni-Co Alloy Nanoparticles Catalyze Selective Electrochemical Coupling of Nitroarenes into Azoxybenzene Compounds in Aqueous Electrolyte	Acs Nano	10.1021/acsnano.2c12839	Gong, Wanbing; Zhang, Jifang; Zhang, Haimin				
12	Evidences of Topological Surface States in the Nodal-Line Semimetal SnTaS ₂ Nanoflakes	Acs Nano	10.1021/acsnano.2c11932	Liang, Xin; Li, Liang; Lu, Wenjian/Han, Yuyan; Zheng, Guolin; Tian, Mingliang	17	5	4913	4921

13	Addition of Dioxane in Electrolyte Promotes (002)-Textured Zinc Growth and Suppressed Side Reactions in Zinc-Ion Batteries	Acs Nano	10.1021/acsnano.2c11516	Wei, Tingting; Wang, Yifan; Mo, Li'e; Li, Zhaoqian; Hu, Linhua	17	4	3765	3775
14	Enhanced Density of States Facilitates High Thermoelectric Performance in Solution-Grown Ge- and In-Codoped SnSe Nanoplates	Acs Nano	10.1021/acsnano.2c11095	Li, Di				
15	Defect Damping-Enhanced Plasmonic Photothermal Conversion	Acs Nano	10.1021/acsnano.3c00657	Xu, Shuai; Ma, Kun; Wang, Junfeng/Zhu, Shuyi; Guo, Yujing; Zhang, Hongwen; Zhao, Qian; Zhou, Le; Cai, Weiping	17	11	10300	
16	Oxidation-Resistant Silicon Nanosystem for Intelligent Controlled Ferrous Foliar Delivery to Crops	Acs Nano	10.1021/acsnano.3c05120	Li, Wenchao; Zhou, Hongjian; Zhang, Xinyuan; Li, Zeyang; Zou, Zidan; Shen, Yue; Wang, Guozhong	17	15	15199	15215
17	Supple Formamidinium-Based Low-Dimension Perovskite Derivative for Sensitive and Ultrastable X-ray Detection	Acs Nano	10.1021/acsnano.3c02476	Wang, Zihan; Zhang, Hui; Wan, Changmao; Liang, Zheng; Xu, Huifen; Ye, Jiajiu; Pan, Xu	17	14	13638	13647
18	Manipulating Coupled Field Enhancement in Slot-under-Groove Nanoarrays for Universal Surface-Enhanced Raman Scattering	Acs Nano	10.1021/acsnano.3c07458	Yan, Sisi; Chen, Bin; Tang, Haibin; Meng, Guowen	22		22766	22777
19	A Synergistic Combination of AuNRs and C Dots as a Multifunctional Material for Ice Recrystallization Inhibition and Rapid Rewarming	Acs Omega	10.1021/acsomega.3c00079	Ding, Shenyi; Ali, Sarmad; Zhang, Shudong; Zhao, Jun; Liu, Cui; Aslam, Muhammad Adnan; Yu, Xinling; Xi, Min; Pan, Lei; Li, Nian; Wang, Zhenyang	8	11	10466	10475
20	Solid-State Au Nanocone Arrays Substrate for Reliable SERS Profiling of Serum for Disease Diagnosis	Acs Omega	10.1021/acsomega.3c04910	Lu, Yanyan; Lei, Biao; Zhao, Qian; Yang, Xiaowei; Wei, Yi; Xiao, Tingting; Zhu, Shuyi; Zhang, Hongwen; Cai, Weiping	8	32	29836	29846
21	Sustainable Nitrogen Fixation to Produce Ammonia by Electroreduction of Plasma-Generated Nitrite	Acs Sustainable Chemistry & Engineering	10.1021/acssuschemeng.2c06525	Li, Wenyi; Zhang, Shengbo; Ding, Jun; Liu, Jiafang; Zhang, Haimin; Liang, Changhao				
22	Ultrasensitive and On-Site Detection of Carbaryl Pesticides via Dual-Mode Nanosensors Utilizing Portable Devices	Acs Sustainable Chemistry & Engineering	10.1021/acssuschemeng.2c06499	Zhang, Zhong; Zhang, Qianru; Li, Lingfei; Lin, Dan; Jiang, Changlong				
23	Hydrogen trapping, desorption and clustering in heterophase interfaces of W-ZrC alloy	Acta Materialia	10.1016/j.actamat.2022.118469	Zhang, Yange; Li, Xiangyan; Xu, Yichun; Lei, Yawei; Xie, Zhuoming; Wang, Xianping; Fang, Qianfeng; Liu, Changsong; Wu, Xuebang	242			
24	Control of magnetism at low electric fields in multiferroic 0.58BiFeO ₃ -0.42Bi _{0.5} K _{0.5} TiO ₃ single crystal near morphotropic phase boundary	Acta Materialia	10.1016/j.actamat.2023.119044	Yin, Li-Hua; Zhao, Gaochao; Tong, Peng; Yang, Jie; Zhu, Xuebin; Song, Wenhai; Sun, Yuping	255			
25	Tetragonal dipole dominated Zener relaxation in BCC-structured Fe-17at.% Ga single crystals	Acta Materialia	10.1016/j.actamat.2023.119245	Sun, Meng; Jiang, Weibin; Wang, Xianping; Fang, Qianfeng	258			
26	Effect of Cr Addition on the Corrosion Behavior of Twinning-Induced Plasticity Steel	Acta Metallurgica Sinica	10.11900/0412.1961.2021.00418	Si Yongli; Xue Jintao; Wang Xingfu; Liang Juhua; Shi Zimu; Han Fusheng	59	7	905	914
27	Introducing Novel, Multiple Cd Coordination Modes into Gold Nanoclusters by Combined Doping for Enhancing Electrocatalytic Performance	Acta Physico-Chimica Sinica	10.3866/PKU.WHXB202212064	Liu, Zhen; Gu, Wanmiao; Zha, Jun; Yan, Nan; You, Qing; Xia, Nan; Wu, Zhikun/Meng, Xiangfu; Wang, Hui	12			
28	Facet-Termination Promoted Uniform Zn (100) Deposition for High-Stable Zinc-Ion Batteries	Advanced Energy Materials	10.1002/aenm.202301517	Wang, Yifan; Mo, Li'e; Wei, Tingting; Hu, Linhua				

29	Upcycling of Degraded LiCoO ₂ Cathodes into High-Performance Lithium-Ion Batteries via a Three-In-One Strategy	Advanced Energy Materials	10.1002/aenm.202302058	Liu, Zhenzhen; Li, Huaimeng; Fang, Liang; Fu, Zhen; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia				
30	Macro-Sized All-Graphene 3D Structures via Layer-by-Layer Covalent Growth for Micro-to-Macro Inheritable Electrical Performances	Advanced Functional Materials	10.1002/adfm.202305191	Song, Yanping; Li, Nian; Han, Shuai; Zhang, Shudong; Chen, Liqing; Li, Zhao; Yu, Xinling; Liu, Cui; Xi, Min; Wu, Ge; Wang, Wenbo; Wang, Zhenyang				
31	Tendril-Inspired Programmable Liquid Metal Photothermal Actuators for Soft Robots	Advanced Functional Materials	10.1002/adfm.202310380	Li, Xiaofei; Du, Yiming; Xiao, Chao; Ding, Xin; Pan, Xiaoshuan; Zheng, Kang; Liu, Xianglan; Chen, Lin; Gong, Yi; Tian, Xingyou; Zhang, Xian				
32	Origin of the Anomalous Electrical Transport Behavior in Fe-Intercalated Weyl Semimetal T-d-MoTe ₂	Advanced Materials	10.1002/adma.202208800	Wang, Tianyang; Luo, Xuan; Gao, Jingjing; Jiang, Zhongzhu; Wang, Wei; Yang, Xingcai; Zhou, Nan; Zhu, Xiaoguang; Lu, Wenjian; Song, Wenhai; Sun, Yuping				
33	Enhanced Perovskite Solar Cell Stability and Efficiency via Multi-Functional Quaternary Ammonium Bromide Passivation	Advanced Materials Interfaces	10.1002/admi.202201497	Niu, Yunjuan; He, Dingchao; Hu, Linhua; Huang, Yang				
34	Capillary Self-Assembly Register Microspheres to Fabricate Anisotropic Conductive Film Used for Ultra-Fine Pitch Stable Electrical Interfacing Interconnection	Advanced Materials Technologies	10.1002/admt.202300514	Pan, Rui; Zhang, Wei; Cheng, Hua; Yang, Jihua; Gong, Yi; Hu, Rui; Zhuo, Yizhi; Ding, Jianjun; Zhang, Xian; Chen, Lin; Tian, Xingyou				
35	Large-Area Gold-Coated Polyamide Nanopillar Arrays Consisting of Secondary Lamellar Structures and Sub-10-nm Gaps for Ultrasensitive SERS Detection	Advanced Materials Technologies	10.1002/admt.202300367	Lin, Yongxing; Qi, Pengfei; Liu, Jincheng; Zhuo, Yizhi; Cai, Cheng; Zhang, Haibao; Li, Xiangyang; Liu, Xianglan; Chen, Lin; Tian, Xingyou				
36	Semiconductor-Semimetal Transition-Driven Photocurrent Spurt and Infrared Band Response in Lead Iodide at High Pressure	Advanced Optical Materials	10.1002/adom.202300316	Cheng, Peng; Ye, Tingting; Yan, Jinwei; Yao, Deyuan; Pan, Xiaomei; Wang, Yunfeng; Xue, Erqiao; Su, Fuhai; Zhang, Jie; Ding, Junfeng				
37	High-Throughput Tailorable Fabrication of Long-Range Ordered Plasmonic Coaxial Multi-Circular Nano-Slit Arrays Down to 2 nm for SERS Detection	Advanced Optical Materials	10.1002/adom.202300508	Yan, Sisi; Chen, Bin; Wang, Xiujuan; Tang, Haibin; Meng, Guowen				
38	Amorphous/Crystal Heterostructure Coupled Oxygen Vacancies-Sensitized TiO ₂ with Conspicuous Charge-Transfer Resonance for Efficient SERS Detection of Chloramphenicol	Advanced Optical Materials	10.1002/adom.202301609	Quan, Yingnan; Tang, Xiang-Hu; Lu, Wenjing; Huo, Wang; Song, Zongyin; Shen, Wei; Yang, Meng; Huang, Xing-Jiu; Liu, Wen-Qing				
39	Contractible Plasmonic Nanospheres Array with Dynamically Tailorable Gap Size for Molecule Trapping and Sensitive SERS Detection	Advanced Optical Materials	10.1002/adom.202302010	Yan, Sisi; Tang, Haibin; Pan, Qijun; Chen, Bin; Meng, Guowen				
40	Crystallinity Tuning of Na ₃ V ₂ (PO ₄) ₃ : Unlocking Sodium Storage Capacity and Inducing Pseudocapacitance Behavior	Advanced Science	10.1002/advs.202203552	Ma, Hongyang; Zhao, Bangchuan; Bai, Jin; Wang, Peiyao; Li, Wanyun; Mao, Yunjie; Zhu, Xiaoguang; Zhu, Xuebin; Sun, Yuping/Sheng, Zhigao; Sun, Yuping	10	4		
41	Defect-Free Few-Layer M ₄ C ₃ T _x (M = V, Nb, Ta) MXene Nanosheets: Synthesis, Characterization, and Physicochemical Properties	Advanced Science	10.1002/advs.202302882	Huang, Yanan; Shen, Jibing; Lin, Shuai; Song, Wenhai; Zhu, Xuebin; Sun, Yuping				

42	Comparative studies of interatomic potentials for modeling point defects in wurtzite GaN	Aip Advances	10.1063/5.0127110	Lei, Huaping	13	1		
43	Revealing the solid-solution interface interference behaviors between Cu ²⁺ and As(III) via partial peak area analysis of simulations and experiments	Analytica Chimica Acta	10.1016/j.aca.2023.341676	Liang, Bo; Xiao, Xiang -Yu; Song, Zong-Yin; Li, Yong-Yu; Cai, Xin; Xia, Rui-Ze; Chen, Shi-Hua; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu	1277			
44	Practical Strategy for Arsenic(III) Electroanalysis without Modifier in Natural Water: Triggered by Iron Group Ions in Solution	Analytical Chemistry	10.1021/acs.analchem.2c04935	Cai, Xin; Huang, Cong-Cong; Yang, Yuan-Fan; Zhang, Long-Ke; Liang, Bo; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu				
45	Generalizable Descriptors of Highly Sensitive Detection of As(III) over Transition-Metal Single Atoms: A Combined Density Function Theory and Gradient Boosting Regression Approach	Analytical Chemistry	10.1021/acs.analchem.2c04617	Song, Zong-Yin; Gao, Zhi-Wei; Li, Yong-Yu; Xiao, Xiang-Yu; Zhao, Yong-Huan; Yang, Yuan-Fan; Huang, Cong-Cong; Yang, Meng; Chen, Shi-Hua; Li, Pei-Hua; Huang, Xing-Jiu				
46	Multiplex Chroma Response Wearable Hydrogel Patch: Visual Monitoring of Urea in Body Fluids for Health Prognosis	Analytical Chemistry	10.1021/acs.analchem.2c03806	Hu, Bin; Kang, Xiaohui; Xu, Shihao; Zhu, Jiawei; Yang, Liang; Jiang, Changlong/Xu, Shihao; Yang, Liang; Jiang, Changlong	95	7	3587	3595
47	Ambient Electrosynthesis of Urea with Nitrate and Carbon Dioxide over Iron-Based Dual-Sites	Angewandte Chemie-International Edition	10.1002/anie.202210958	Geng, Jing; Ji, Sihan; Jin, Meng; Xu, Min; Wang, Guozhong; Liang, Changhao; Zhang, Haimin				
48	Sandwich-Kernelled AgCu Nanoclusters with Golden Ratio Geometry and Promising Photothermal Efficiency	Angewandte Chemie-International Edition	10.1002/anie.202305604	Fang, Liang; Fan, Wentao; Bian, Guoqing; Wang, Runguo; You, Qing; Gu, Wanmiao; Xia, Nan; Liao, Lingwen; Yan, Nan; Wu, Zhikun				
49	Lattice Compression Revealed at the ≈ 1 nm Scale	Angewandte Chemie-International Edition	10.1002/anie.202308441	Xu, Ziwei; Dong, Hongwei; Gu, Wanmiao; Jin, Fengming; You, Qing; Liao, Lingwen; Wu, Zhikun				
50	Atomically Dispersed Iron Regulating Electronic Structure of Iron Atom Clusters for Electrocatalytic H ₂ O ₂ Production and Biomass Upgrading	Angewandte Chemie-International Edition	10.1002/anie.202314414	Xu, Hui; Zhang, Shengbo; Zhang, Xinyuan; Xu, Min; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin				
51	Pd ₈ Nanocluster with Nonmetal-to-Metal- Ring Coordination and Promising Photothermal Conversion Efficiency	Angewandte Chemie-International Edition	10.1002/anie.202313491	You, Qing; Fan, Wentao; Zhao, Yan; Zhuang, Shengli; Gu, Wanmiao; Liao, Lingwen; Wu, Zhikun				
52	Parallel Planar Heterojunction Strategy Enables Sb ₂ S ₃ Solar Cells with Efficiency Exceeding 8 %	Angewandte Chemie-International Edition	10.1002/anie.202312951	Zhu, Liangxin; Liu, Rong; Wan, Zhiyang; Cao, Wenbo; Dong, Chao; Wang, Yang; Chen, Chong; Naveed, Faisal; Kuang, Jiajin; Lei, Longhui; Cheng, Liqian; Wang, Mingtai				
53	Strongly correlated antiferromagnetic vanadates	Apl Materials	10.1063/5.0164952	Hu, L.;Zhu, X.B.;Sun, Y.P.	11	9		
54	Defect-engineered WO _{3-x} @MoS ₂ hollow tube exhibiting enhanced Fenton-like and photocatalytic activities via electric field rearrangement and band alignment	Applied Catalysis B-Environmental	10.1016/j.apcatb.2022.122013	Hu, Yi; Nie, Mingxing; Hong, Peidong; He, Junyong; Li, Yulian; Zhang, Kaisheng; Yang, Dandan; Liu, Jinhuai; Kong, Lingtao	320			
55	Enhanced electric field control of magnetism in ternary BiFeO ₃ -based ceramics	Applied Physics Letters	10.1063/5.0133946	Zhao, Gaochao; Pan, Chengbing; Dong, Wei; Xie, Lei; Tong, Peng; Yang, Jie; Zhu, Xuebin; Yin, Lihua; Song, Wenhai; Sun, Yuping/Sun, Yuping	122	4		
56	Pressure-induced core defects and photoluminescent quenching in carbon quantum dots	Applied Physics Letters	10.1063/5.0132006	Ye, Tingting; Cheng, Peng; Zeng, Hong; Yao, Deyuan; Pan, Xiaomei; Xue, Erqiao; Ding, Junfeng	122	5		
57	An Attention-Based CNN-LSTM Method for Effluent Wastewater Quality Prediction	Applied Sciences-Basel	10.3390/app13127011	Li, Yue; Kong, Bin; Yu, Weiwei; Zhu, Xingliang	13	12		

58	Fabrication and chemical modification of carbon nanodots/monolayer hexagonal boron nitride/substrate heterostructures and their terahertz optoelectronic properties	Applied Surface Science	10.1016/j.apsusc.2023.157441	Wen, Hua; Cheng, Xingjia; Xu, Wen; Lu, Siyu	629			
59	Laser Irradiation-Induced Pt-Based Bimetallic Alloy Nanostructures without Chemical Reducing Agents for Hydrogen Evolution Reaction	Catalysts	10.3390/catal13061018	Hu, Taiping; Ye, Yixing; Cai, Yunyu; Liu, Jun; Ma, Yao; Li, Pengfei; Liang, Changhao/Hu, Taiping; Ye, Yixing; Cai, Yunyu; Liu, Jun; Ma, Yao; Li, Pengfei; Liang, Changhao/Fan, Yisong	13	6		
60	TiO ₂ /ZnO double-layer broadband antireflective and down-shifting coatings for solar applications	Ceramics International	10.1016/j.ceramint.2022.11305	Huang, Jian Yong; Wang, Yu; Fei, Guang Tao; Xu, Shao Hui; Zeng, Zhi; Wang, Biao	49	7	11091	11100
61	Low thermal expansion for self-compounded Fe _{1-x} CoxS over a wide temperature range	Ceramics International	10.1016/j.ceramint.2023.02168	Wang, Xuelian; Tong, Peng; Xiong, Tingjiao; Dong, Buke; Pan, Chengbing; Song, Wenhai; Sun, Yuping	49	11	17977	
62	Plasma sprayed Yb ₄ Hf ₃ O ₁₂ thermal barrier coatings with excellent thermophysical properties and robust CMAS corrosion resistance	Ceramics International	10.1016/j.ceramint.2023.06021	Dang, Xian; Yuan, Jieyan; Li, Xinyang; Huang, Zhulin; Hu, Xiaoye; Li, Yue/Dang, Xian; Yuan, Jieyan; Li, Xinyang; Huang, Zhulin; Hu, Xiaoye; Li, Yue	49	16	27473	27485
63	Zero thermal expansion, high specific thermal conductivity, and good machinability of Cu ₂ P ₂ O ₇ /2024Al composite	Ceramics International	10.1016/j.ceramint.2023.08240	Xie, Lulu; Lin, Jianchao; Zhong, Xiaokang; Dong, Buke; Zhu, Xiaoguang; Tong, Peng; Song, Wenhai; Sun, Yuping/Sun, Yuping	49	22	35617	35622
64	Regulating buried interface properties and alleviating micro-strain of crystals for efficient perovskite solar cells	Chemical Communications	10.1039/d3cc02709k	Xu, Shendong; Liu, Guozhen; Tao, Yuli; Zhang, Hui; Zhang, Liying; Zhu, Liangzheng; Ye, Jiajiu; Pan, Xu	59	72	10813	10816
65	Tailoring ionomer distribution in the catalyst layer via heteroatom-functionalization toward superior PEMFC performance	Chemical Communications	10.1039/d3cc03610	Sun, Dianding; Zhao, Zhong; Jin, Meng; Zhang, Haimin				
66	A Strecker-like reaction triggering fluorescent sensing platform for enzyme-free and visual quantitative monitoring of carbamates	Chemical Engineering Journal	10.1016/j.cej.2023.142550	Qin, Lingling; Lin, Dan; Xu, Shihao; Jiang, Changlong/Cao, Jie/Lin, Dan; Xu, Shihao; Jiang, Changlong	464			
67	A general way to manipulate electrical conductivity of graphene	Chemical Engineering Journal	10.1016/j.cej.2023.142139	Chen, Liqing; Li, Nian; Yu, Xinling; Zhang, Shudong; Liu, Cui; Song, Yanping; Li, Zhao; Han, Shuai; Wang, Wenbo; Yang, Pengzhan; Hong, Na; Ali, Sarmad; Wang, Zhenyang	462			
68	Reconstructing anode/electrolyte interface and solvation structure towards high stable zinc anode	Chemical Engineering Journal	10.1016/j.cej.2023.141272	Wei, Tingting; Wang, Yifan; Li, Zhaoqian; Zhang, Hong; Hu, Linhua	457			
69	Enhanced phonon scattering and thermoelectric performance for N-type Bi ₂ Te _{2.7} Se _{0.3} through incorporation of conductive polyaniline particles	Chemical Engineering Journal	10.1016/j.cej.2022.140923	Yang, Shuhuan; Ming, Hongwei; Li, Di; Chen, Tao; Li, Shujin; Zhang, Jian; Xin, Hongxing; Qin, Xiaoying	455			
70	Constructing of superhydrophobic and intact crystal terminal: Interface sealing strategy for stable perovskite solar cells with efficiency over 23%	Chemical Engineering Journal	10.1016/j.cej.2022.139808	Xu, Shendong; Zhang, Liying; Liu, Boyuan; Liang, Zheng; Xu, Huifen; Zhang, Hui; Ye, Jiajiu; Liu, Guozhen; Pan, Xu	453			
71	Ambient electrochemical nitrogen fixation with aqueous V ₂ O ₅ nanodots in a fluidized electrocatalysis system	Chemical Engineering Journal	10.1016/j.cej.2022.139494	Li, Wenyi; Ye, Yixing; Jin, Meng; Zhang, Shengbo; Zhang, Yunxia; Wang, Guozhong; Liang, Changhao; Zhang, Haimin	452			

72	Sulfuretted Li- and Mn-rich cathode material with epitaxial spinel stabilizer for ultra-long cycle Li-ion battery	Chemical Engineering Journal	10.1016/j.cej.2022.140398	Li, Wanyun;Zhao, Bangchuan;Bai, Jin;Ma, Hongyang;Wang, Peiyao;Mao, Yunjie;Xiao, Ke;Wang, Xuelian;Tong, Peng;Zhu, Xuebin;Sun, Yuping				
73	Enhancing thermoelectric performance of n-type Bi ₂ Te _{2.7} Se _{0.3} through the incorporation of MnSb ₂ Se ₄ nanoinclusions	Chemical Engineering Journal	10.1016/j.cej.2023.143397	Chen, Tao; Qin, Xiaoying; Ming, Hongwei; Zhang, Xuemei; Yang, Shuhuan; Xin, Hongxing; Li, Di; Zhang, Jian	467			
74	Ratiometric upconversion luminescence sensing platform for visual monitoring of antiarrhythmic drug level in serum	Chemical Engineering Journal	10.1016/j.cej.2023.146923	Kang, Xiaohui; Zhang, Lanpeng; Yang, Liang; Jiang, Changlong/Yang, Liang; Jiang, Changlong				
75	Interface catalytic regulation via electron rearrangement and hydroxyl radicals triggered by oxygen vacancies and heavy metal ions	Chemical Science	10.1039/d2sc06762e	Xiao, Xiang-Yu; Song, Zong-Yin; Zhao, Yong-Huan; Gao, Zhi-Wei; Chen, Shi-Hua; Li, Pei-Hua; Yang, Meng; Huang, Xing-Jiu	14	11	2960	2970
76	Modulating paired Ir-O-Ir via electronic perturbations of correlated Ir single atoms to overcome catalytic selectivity	Chemical Science	10.1039/d3sc03285	Chen, Shi-Hua; Yang, Yuan-Fan; Song, Zong-Yin; Xiao, Xiang-Yu; Huang, Cong-Cong; Cai, Xin; Li, Pei-Hua; Yang, Meng; Huang, Xing-Jiu				
77	Surface Modification Driven Initial Coulombic Efficiency and Rate Performance Enhancement of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ Cathode	Chemsuschem	10.1002/cssc.202301281	Li, Wanyun; Zhao, Bangchuan; Bai, Jin; Mao, Yunjie; Xiao, Ke; Zhu, Xuebin; Sun, Yuping				
78	Rare-earth ions coordination enhanced ratiometric fluorescent sensing platform for quantitative visual analysis of antibiotic residues in real samples	Chinese Chemical Letters	10.1016/j.cclet.2022.107997	Xu, Shihao; Lin, Dan; Yang, Liang; Wang, Zhenyang; Jiang, Changlong	34	6		
79	Dynamic modeling of total ionizing dose-induced threshold voltage shifts in MOS devices	Chinese Physics B	10.1088/1674-1056/ac9fc4	Lu, Guangbao; Liu, Jun; Zhang, Chuanguo; Gao, Yang; Li, Yonggang	32	1		
80	Probing photocarrier dynamics of pressurized graphene using time-resolved terahertz spectroscopy	Chinese Physics B	10.1088/1674-1056/acc2b1	Wang, Yunfeng; Xu, Shujuan; Yang, Jin; Su, Fuhai	32	6		
81	Quantum tunneling in the surface diffusion of single hydrogen atoms on Cu(001)	Chinese Physics B	10.1088/1674-1056/acd2b4	Yu, Xiaofan; Tong, Yangwu; Yang, Yong	32	8		
82	Activated dissociation of H ₂ on the Cu(001) surface: The role of quantum tunneling	Chinese Physics B	10.1088/1674-1056/acd2b3	Yu, Xiaofan; Tong, Yangwu; Yang, Yong	10			
83	Route to Stabilize Cubic Gauche Polynitrogen to Ambient Conditions via Surface Saturation by Hydrogen	Chinese Physics Letters	10.1088/0256-307X/40/8/086102	Chen, Guo; Niu, Caoping; Xia, Wenming; Zhang, Jie; Zeng, Zhi; Wang, Xianlong	40	8		
84	Physical Origin of Color Changes in Lutetium Hydride under Pressure	Chinese Physics Letters	10.1088/0256-307X/40/11/117401	Lv, Run; Tu, Wenqian; Shao, Dingfu; Sun, Yuping; Lu, Wenjian/Sun, Yuping	11			
85	Thermal conductivity and electromagnetic shielding performance of three-dimensional anisotropic BN/MWCNT epoxy composites under low filling capacity	Colloid And Polymer Science	10.1007/s00396-023-05082-5	Zeng, Jiaxuan; Chen, Xi; Hu, Mengyue; Zheng, Kang; Zhang, Xian; Tian, Xingyou/Zheng, Kang				
86	A facile approach for making superhydrophobic cotton fabric membrane for oil water separation	Colloids And Surfaces A: Physicochemical And Engineering Aspects	10.1016/j.colsurfa.2023.132478	Saeed, Abdul;Zhan, Deyi;Hu, Qi;Xu, Weihong;Liu, Jinhuai	678			

87	High-performance, thermal management and long-term preservation Epoxy/TPEDA -Fe ₃ O ₄ @ carboxylic carbon nanotube electromagnetic shielding composites	Composites Communications	10.1016/j.coco.2023.101556	Da, Yunsheng; Liu, Qiang; Tian, Xingyou; Liu, Yanyan; Wang, Hua	39			
88	Dual-functional eco-friendly liquid metal/boron nitride/silk fibroin composite film with outstanding thermal conductivity and electromagnetic shielding efficiency	Composites Communications	10.1016/j.coco.2023.101565	Lv, Zhe; Kong, Lijing; Sun, Puqing; Lin, Yongxing; Wang, Yanyan; Xiao, Chao; Liu, Xianglan; Zhang, Xian; Zheng, Kang; Tian, Xingyou	39			
89	ZnO-SiO ₂ composite coating with anti-reflection and photoluminescence properties for improving the solar cell efficiency	Composites Part B: Engineering	10.1016/j.compositesb.2022.110486	Huang, Jian Yong; Fei, Guang Tao; Xu, Shao Hui; Wang, Biao	251			
90	Ab initio calculations and empirical potential assessments of the energy and structure of symmetric tilt grain boundaries in tungsten	Computational Materials Science	10.1016/j.commatsci.2023.112446	Zheng, Xue-Ru; Li, Xiaolin; Li, Xiangyan; Zhang, Yange; Xu, Yichun; Wu, Xuebang; Liu, C. S.	229			
91	Structural and electronic properties of Ta ₂ O ₅ with one formula unit	Computational Materials Science	10.1016/j.commatsci.2023.112482	Tong, Yangwu; Yang, Yong	230			
92	3D Grid of Carbon Tubes with Mn ₃ O ₄ -NPs/CNTs Filled in their Inner Cavity as Ultrahigh-Rate and Stable Lithium Anode	Energy & Environmental Materials	10.1002/eem2.12586	Zhang, Shiping; Han, Fangming; Pan, Qijun; Lin, Dou; Zhu, Xiaoguang; Shao, Cheng; Zhang, Gaixia; Wang, Zhaoming; Sun, Shuhui; Meng, Guowen				
93	Constructing robust heterointerfaces for carrier viaduct via interfacial molecular bridges enables efficient and stable inverted perovskite solar cells	Energy & Environmental Science	10.1039/d3ee02591h	Xu, Huifen; Liang, Zheng; Ye, Jiajiu; Wang, Zihan; Zhang, Hui; Wan, Changmao; Pan, Xu	12		5792	5804
94	Pseudocapacitance of Cl-Terminated MXene Nanosheets for Efficient Chloride-Ion Hybrid Capacitors	Energy & Fuels	10.1021/acs.energyfuels.3c00248	Zhu, Linzhou; Ji, Jiapeng; Yin, Huajie				
95	Increasing reductive Fe(ii)/Co(ii) sites on P-doped FeCo ₂ O _{4-x} nanosheets to accelerate the valence cycle for the electroanalysis of As(iii)	Environmental Science-Nano	10.1039/d2en01104b	Yang, Yuan-Fan; Huang, Hong-Qi; Song, Zong-Yin; Yang, Meng; Chen, Shi-Hua; Huang, Xing-Jiu/Yang, Yuan-Fan; Huang, Hong-Qi; Song, Zong-Yin; Yang, Meng; Chen, Shi-Hua; Huang, Xing-Jiu	10	3	800	811
96	In situ construction of a magnesium foliar fertilizer with pH-controlled release and high adhesion capacity	Environmental Science-Nano	10.1039/d2en00837h	Li, Wenchao; Zhang, Xinyuan; Zhou, Hongjian; Zou, Zidan; Shen, Yue; Wang, Guozhong	10	1	115	128
97	Environmental Effects of Surfactant-Free Silver Nanoparticles on Enzyme Activities, Bacterial Diversity, and Soil Function	Environmental Toxicology And Chemistry	10.1002/etc.5679	Wu, Lingli; Ye, Yixing; Cai, Yunyu; Ma, Yao; Liang, Changhao/Wu, Lingli; Ye, Yixing; Cai, Yunyu; Ma, Yao; Liang, Changhao				
98	Effect of Bi-B-Si-Zn-Al glass additive on the properties of low-temperature sintered silicon carbide ceramics	Frontiers In Physics	10.3389/fphy.2022.1090437	Zhang, Lan; Yang, Shuquan; Xiao, Meihui; Chen, Lin; Sun, Jun; Ding, Jianjun; Li, Xiaoxiao; Gong, Yi; Zheng, Kang; Zhang, Xian; Tian, Xingyou/Chen, Lin; Sun, Jun; Ding, Jianjun; Li, Xiaoxiao; Gong, Yi; Zheng, Kang; Zhang, Xian; Tian, Xingyou/Sun, Jun	10			
99	Electronic properties of 2H-stacking bilayer MoS ₂ measured by terahertz time-domain spectroscopy	Frontiers Of Physics	10.1007/s11467-023-1295-1	Cheng, Xingjia; Xu, Wen; Wen, Hua; Zhang, Jing; Zhang, Heng; Chen, Qingqing	18	5		
100	Effects of Fe and Al distributions on the Pv-PPv phase transition pressure of MgSiO ₃	Geophysical Journal International	10.1093/gji/ggad295	Xia, Wenming; Niu, Caoping; Zhao, Jing; Wang, Xianlong	235	2	1130	1137

101	Carrier Capture Dynamics of Deep-Level Defects in Neutron-Irradiated Si With Improved Intracascade Potential	Ieee Transactions On Nuclear Science	10.1109/TNS.2022.3229727	Liu, Jun; Zheng, Qirong; Zhang, Chuanguo; Li, Yonggang; Zhang, Yongsheng; Zeng, Zhi	70	2	113	122
102	Poly(arylene alkylene)-Based Ion-Exchange Polymers for Enhancing Capacitive Desalination Capacity and Electrode Stability	Industrial & Engineering Chemistry Research	10.1021/acs.iecr.3c02238	Xu, Yingsheng; Jiang, Tao; Zhang, Xinyuan; Zhou, Hongjian	62	36	14601	14610
103	High-quality ZnO anti-reflective coatings for CdSe crystal in the infrared wavelength	Infrared Physics & Technology	10.1016/j.infrared.2023.104963	Huang, Jian Yong; Fei, Guang Tao; Xu, Shao Hui/Huang, Jian Yong; Fei, Guang Tao; Xu, Shao Hui				
104	Theoretical Study of Intrinsic and Extrinsic Point Defects and Their Effects on Thermoelectric Properties of Cu ₂ SnSe ₃	Inorganic Chemistry	10.1021/acs.inorgchem.2c03292	Ming, Hongwei; Zhu, Chen; Chen, Tao; Yang, Shuhuan; Chen, Yong; Xin, Hongxing; Zhang, Jian; Li, Di; Qin, Xiaoying	62	6	2607	2616
105	Hot-Injection Synthesis of HgTe Nanoparticles: Shape Control and Growth Mechanisms	Inorganic Chemistry	10.1021/acs.inorgchem.3c02030	Xia, Kai; Fei, Guang Tao; Xu, Shao Hui; Gao, Xu Dong; Liang, Yi Fei/Xia, Kai; Fei, Guang Tao; Xu, Shao Hui; Gao, Xu Dong; Liang, Yi Fei	62	33	13632	13638
106	In situ construction of NiCo ₂ O ₄ nanosheets on nickel foam for efficient electrocatalytic oxidation of benzyl alcohol	Inorganic Chemistry Frontiers	10.1039/d2qi02526d	Xu, Min; Geng, Jing; Xu, Hui; Zhang, Shengbo; Zhang, Haimin	10	7	2053	2059
107	Sustainable ammonia synthesis from air by the integration of plasma and electrocatalysis techniques	Inorganic Chemistry Frontiers	10.1039/d3qi00915	Ding, Jun; Li, Wenyi; Liu, Jiafang; Tang, Shu; Zhang, Haimin				
108	Formation, conversion, and elimination of intermediate spinel phase in MgO/kaolin mixture firing for cordierite	International Journal Of Applied Ceramic Technology	10.1111/ijac.14550	Yang, Yang; Yan, Jiaqi; Cheng, Shujia; Liu, Gang; Chen, Bensong; Zheng, Kang; Chen, Lin; Tian, Xingyou/Liu, Gang/Zheng, Kang; Chen, Lin; Tian, Xingyou				
109	Pulp waste extracted reinforced powder incorporated biodegradable chitosan composite film for enhancing red grape shelf-life	International Journal Of Biological Macromolecules	10.1016/j.ijbiomac.2023.126375	Usha, Zubaida Rukhsana;Iqbal, Obaid;Aslam, Muhammad Adnan;Ali, Sarmad;Liu, Cui;Li, Nian;Zhang, Shudong;Wang, Zhenyang	252			
110	Simultaneously removal of P and B from Si by Sr and Zr co-addition during Al-Si low-temperature solvent refining	International Journal Of Minerals Metallurgy And Materials	10.1007/s12613-022-2504-6	Chen, Chen; Ban, Boyuan; Chen, Jian	30	2	365	377
111	FEDIS: A set of algorithms for defect identification	International Journal Of Modern Physics C	10.1142/S0129183124500128	Wang, Yu; Zhang, Chuanguo; Li, Jiahui; Wei, Liuming; Zeng, Zhi				
112	Laser irradiation induced platinum-based bimetallic alloy nanoparticles in liquids for electrocatalytic hydrogen production	Journal Of Alloys And Compounds	10.1016/j.jallcom.2022.167914	Hu, Taiping; Li, Pengfei; Ye, Yixing; Liu, Jun; Cai, Yunyu; Zhang, Guofeng; Liang, Changhao	934			
113	Energy storage in epitaxial multilayered BiFeO ₃ /Na _{0.5} Bi _{0.5} TiO ₃ / La _{0.7} Sr _{0.3} MnO ₃ thin films	Journal Of Alloys And Compounds	10.1016/j.jallcom.2023.171767	Liu, Miao; Gong, Chengzhan; Wei, Renhuai; Hu, Ling; Dai, Jianming; Zhu, Xuebin; Sun, Yuping	967			
114	High magneto-mechanical hysteresis-type damping in FeGaMo alloys	Journal Of Alloys And Compounds	10.1016/j.jallcom.2023.172233	Liu, X.Q.;Sun, M.;Liu, J.X.;Wang, X.G.;Jiang, W.B.;Wang, X.P.;Fang, Q.F.	968			
115	High-entropy enhanced microwave absorption in MAX phases	Journal Of Applied Physics	10.1063/5.0151920	Shen, Jibing; Lin, Shuai; Song, Wenhai; Zhu, Xuebin; Sun, Yuping/Sun, Yuping	133	23		
116	Geometric and electronic effects of Co@NPC catalyst in chemoselective hydrogenation: Tunable activity and selectivity via N,P co-doping	Journal Of Catalysis	10.1016/j.jcat.2023.03.013	Shen, Yue;Chen, Chun;Zou, Zidan;Hu, Zhi;Fu, Zhen;Li, Wenchao;Zhang, Yunxia;Zhang, Haimin;Wang, Guozhong				

117	Visualizing and comparing quantum interference in the π -system and σ -system of organic molecules	Journal Of Chemical Physics	10.1063/5.0141577	Cao, Ning;Zheng, Xiaohong				
118	The influences of Na ⁺ , Ca ²⁺ on the water-in-oil Pickering emulsion stabilized by stearic acid modified hydrophobic calcium carbonate particles	Journal Of Dispersion Science And Technology	10.1080/01932691.2023.2177307	Li, Kun; Li, Xiaoxiao; Ming, Anqi; Guo, Yiming; Sun, Jun; Wang, Hua; Ding, Jianjun; Tian, Xingyou				
119	Laser irradiation synthesized carbon encapsulating ultrafine transition metal nanoparticles for highly efficient oxygen evolution	Journal Of Electroanalytical Chemistry	10.1016/j.jelechem.2022.117007	Zhang, Chao; Zhang, Yuzhuo; Liu, Jun; Ye, Yixing; Chen, Qi; Liang, Changhao/Zhang, Chao; Zhang, Yuzhuo; Liu, Jun; Ye, Yixing; Chen, Qi; Liang, Changhao	928			
120	Molecular exchange and passivation at interface afford high-performing perovskite solar cells with efficiency over 24%	Journal Of Energy Chemistry	10.1016/j.jechem.2023.03.0032095-4956	Sun, Jianjun; Niu, Yunjuan; Yang, Zhiqian; Mo, Li'e; Huang, Yang; Li, Zhaoqian; Hu, Linhua	82		219	227
121	Photoelectrocatalytic principles for meaningfully studying photocatalyst properties and photocatalysis processes: From fundamental theory to environmental applications	Journal Of Energy Chemistry	10.1016/j.jechem.2023.06.038	Liu, Jiafang;Zhang, Shengbo;Zhang, Haimin	86		84	117
122	Enhancing energy storage capacity of supercapacitors via constructing a porous PPy/carbon cloth electrode by a template-assisted method	Journal Of Energy Storage	10.1016/j.est.2023.108312	Wang, Shihao; Yu, Xinling; Li, Nian; Zhang, Shudong; Liu, Cui; Xi, Min; Iqbal, Obaid; Ali, Sarmad; Wang, Zhenyang	72			
123	Oxygen Vacancies of Mn/CeO _x -H induced non-radical activation of peroxymonosulfate through electron mediation for bisphenol A degradation	Journal Of Environmental Chemical Engineering	10.1016/j.jece.2023.111078	He, Junyong;Yang, Ya;Hong, Peidong;Li, Yulian;Xie, Chao;Wu, Zijian;Li, Minqiang;Kong, Lingtao	11	5		
124	Efficient degradation of tetracycline by a novel nanoconfinement structure Cu ₂ O/Cu@MXene composite	Journal Of Hazardous Materials	10.1016/j.jhazmat.2023.130995	Zhou, Qianqian; Hong, Peidong; Shi, Xu; Li, Yulian; Yao, Ke; Zhang, Wanqi; Wang, Chengming; He, Junyong; Zhang, Kaisheng; Kong, Lingtao	448			
125	Layered double hydroxide nanosheets-built porous film-covered Au nanoarrays as enrichment and enhancement chips for efficient SERS detection of trace styrene	Journal Of Hazardous Materials	10.1016/j.jhazmat.2023.132156	Zhao, Zhipeng; Zhao, Qian; Zhou, Le; Wei, Yi; Lei, Biao; Zhang, Hongwen; Cai, Weiping	459			
126	High-pressure synthesis and magnetic properties of a Fe/Ru disordered quadruple perovskite CaCu ₃ Fe ₂ Ru ₂ O ₁₂	Journal Of Magnetism And Magnetic Materials	10.1016/j.jmmm.2023.171366	Li, Sumei; Pan, Chengbing; Zhao, Gaochao; Wang, Meng; Tao, Ming; Yin, Lihua; Song, Wenhai; Yang, Jie; Zhu, Xuebin; Sun, Yuping/Sun, Yuping				
127	Melamine sponge templated synthesis of nickel nanoparticles encapsulated in B, N co-doped carbon nanotubes towards the selective electrosynthesis of hydrogen peroxide	Journal Of Materials Chemistry A	10.1039/d2ta09904g	Xu, Hui; Zhang, Shengbo; Zhang, Xinyuan; Xu, Min; Geng, Jing; Zhang, Haimin				
128	Efficiency improvement of semi-transparent perovskite solar cells via crystallinity enhancement	Journal Of Materials Chemistry A	10.1039/d2ta08362k	Yang, Zhiqian; Niu, Yunjuan; Hu, Linhua/Hu, Linhua	11	6	3070	3079
129	A machine learning methodology to investigate the lattice thermal conductivity of defected PbTe	Journal Of Materials Chemistry A	10.1039/d3ta00845b	Qin, Mi; Yang, Yuming; Ti, Zhuoyang; Shen, Yaoling; Wang, Xianlong	11	20	10612	
130	Carbon layer-confined MoS ₂ /Ni ₃ S ₂ heterostructure with enhanced sodium and potassium storage performance	Journal Of Materials Chemistry A	10.1039/d3ta01792c	Bai, Jin; Mao, Yunjie; Ma, Hongyang; Wang, Peiyao; Li, Wanyun; Xiao, Ke; Zhang, Guofeng; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping	11	23	12102	

131	Ethanol-assisted room-temperature rapid self-healing polydimethylsiloxane-polyurea/carbon composite elastomers for energy harvesters and smart sensors	Journal Of Materials Chemistry A	10.1039/d3ta05217f	Du, Yiming; Wang, Hua; Li, Xiaofei; Liu, Jincheng; Liu, Yanyan; Zhang, Wei; Liu, Qiang; Da, Yunsheng; Li, Hao; Sun, Zhouping; Dong, Yong; Tian, Xingyou				
132	High-throughput surface-enhanced Raman scattering sensors for near-infrared detection of biochemical molecules	Journal Of Materials Chemistry C	10.1039/d2tc05542b	Wang, Yifan; Chen, Zhiming; Zeng, Pan; Cao, An; Zhang, Tao; Li, Yue				
133	Molecular insights into the sensitivity detection mechanism of fluorescent 2D Zr-BTB for 2,4-dinitrophenol	Journal Of Materials Chemistry C	10.1039/d3tc01325a	Zhan, Deyi; Saeed, Abdul; Hu, Qi; Xu, Weihong; Kong, Lingtao; Liu, Jinhuai/Zhan, Deyi; Saeed, Abdul; Hu, Qi; Xu, Weihong; Kong, Lingtao; Liu, Jinhuai/Yu, Zhiwu; Wang, Junfeng/Zhao, Nanjing	11	31	10738	10747
134	Study on One-Step Hot-Dip Aluminizing at Intercritical Temperature of Multiphase Microstructure Steel	Journal Of Materials Engineering And Performance	10.1007/s11665-022-07398-9	Bi, Nannan;Liang, Juhua;Wang, Xingfu	32	10	4668	4675
135	Microstructural evolution and thermal fatigue damage mechanism of second-phase dispersion strengthened tungsten composites under repetitive thermal loads	Journal Of Materials Science & Technology	10.1016/j.jmst.2022.09.007	Wang, Hui; Xie, Zhuoming; Cheng, Xiang; Jing, Ke; Zhang, Linchao; Yang, Junfeng; Liu, Rui; Wang, Xianping; Fang, Qianfeng; Liu, Changsong; Wu, Xuebang/Han, Le; Cao, Lei	140		221	232
136	Hydrogel-derived nitrogen-doped porous carbon framework with vanadium nitride decoration for supercapacitors with superior cycling performance	Journal Of Materials Science And Technology	10.1016/j.jmst.2023.01.031	Wu, Ziqiang;Chen, Qian;Li, Changdian;Zhu, Lili;Huang, Yanan;Zhu, Xiaoguang;Zhu, Xuebin;Sun, Yuping/Sun, Yuping				
137	The enhanced negative thermal expansion in less-oxygen-vacancies copper pyrophosphate	Journal Of Materials Science And Technology	10.1016/j.jmst.2022.10.054	Xie, L. Lu;Shi, T. Fei;Lin, J. Chao;Zhong, X. Kang;Liu, K. Ke;Dong, B. Ke;Wang, X. Lian;Xiong, T. Jiao;Li, Ming;Tong, Peng;Song, W. Hai;Sun, Y. Ping				
138	Effect of BaO-2B(2)O(3) sintering aid on the structural and electrical properties of high temperature piezoelectric ceramic Bi ₃ TiNbO ₉	Journal Of Materials Science-Materials In Electronics	10.1007/s10854-023-09946-y	Tao, M.; Pan, C. B.; Yin, L. H.; Song, W. H.; Zhu, X. B.; Yang, J.; Sun, Y. P./Sun, Y. P.	34	6		
139	Improved ferroelectric properties of BiFe _{0.93} Mn _{0.07} O ₃ -0.82BiFe(0.975)Ti(0.025)O(3)-0.18CaTiO(3) composite thin film by optimization of annealing temperature	Journal Of Materials Science-Materials In Electronics	10.1007/s10854-022-09433-w	Wang, J. M. Z.; Shu, M. F.; Li, S. M.; Pan, C. B.; Tao, M.; Yin, L. H.; Song, W. H.; Zhu, X. B.; Yang, J.; Sun, Y. P.	34	2		
140	Structural, piezoelectric and magnetoelectric properties in 0.65BiFeO ₃ -0.35[(1-x)Bi _{0.5} K _{0.5} TiO ₃ - xBaTiO ₃] solid solutions	Journal Of Materials Science-Materials In Electronics	10.1007/s10854-023-11439-x	Dong, Wei; Zhao, Gaochao; Lei, Xie; Tong, Peng; Yang, Jie; Zhu, Xuebin; Song, Wenhai; Yin, Li-hua; Sun, Yuping/Sun, Yuping	30			
141	Vacancy accumulation mechanism at iron grain boundaries: The influence of grain boundary character and its coupling with grain size	Journal Of Nuclear Materials	10.1016/j.jnucmat.2023.154386	Li, Xiaolin;Ding, Changjie;Zhang, Yange;Xu, Yichun;Li, Xiangyan;Wang, Xianping;Fang, Q.F.;Wu, Xuebang;Liu, C.S.				
142	Interface alloying design to improve the stability and cohesion of W/HfC interface by first-principles study	Journal Of Nuclear Materials	10.1016/j.jnucmat.2023.154320	Zhang, Yuxiang; Zhang, Yange; Li, Xiangyan; Xu, Yichun; Lei, Yawei; Liu, C. S.; Wu, Xuebang	577			
143	The structure and energy of symmetric tilt grain boundaries in tungsten	Journal Of Nuclear Materials	10.1016/j.jnucmat.2023.154442	Zheng, Xue-Ru; Kong, Xiang-Shan; Li, Xiaolin; Li, Xiangyan; Zhang, Yange; Liu, C. S.	581			
144	First-principles study on the corrosion resistance of oxygen at Fe-Pb/Bi solid-liquid interface	Journal Of Nuclear Materials	10.1016/j.jnucmat.2023.154470	Lei, Yawei; Zhang, Yange; Li, Xiangyan; Xu, Yichun; Wu, Xuebang; Wang, Xianping; Sun, Meng; Yang, Junfeng; Liu, Changsong	582			

145	Effect of radiation damage on liquid Pb corrosion at the Fe/Pb solid-liquid interface	Journal Of Nuclear Materials	10.1016/j.jnucmat.2023.154556	Zhang, Yange; Zhang, Jinguan; Li, Xiangyan; Xu, Yichun; Wu, Xuebang; Yang, Junfeng; Wang, Yianping	583			
146	Ni-Intercalation-Induced Topological Nodal Line States and Superconductivity in NiTe	Journal Of Physical Chemistry C	10.1021/acs.jpcc.2c08143	Liang, Xin; Shao, Ding-Fu; Lv, Run; Lu, Wen-Jian; Sun, Yu-Ping/Sun, Yu-Ping				
147	Near- and Far-Field Optical Properties of Dipole-Multipole Plasmonic Coupled Building Blocks	Journal Of Physical Chemistry C	10.1021/acs.jpcc.2c07925	Xi, Min; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang/Xi, Min; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang	127	2	1145	1155
148	Size- and Shape-Dependent Photoexcitation Electron Transfer in Metal Nanoclusters	Journal Of Physical Chemistry C	10.1021/acs.jpcc.2c07678	Fan, Wentao; Yang, Ying; You, Qing; Yan, Nan; Wu, Zhikun				
149	Similarities of Quadrupolar Au NR Monomers and Antibonding Au NR Dimers as Building Blocks in Asymmetric Plasmonic Hybridization	Journal Of Physical Chemistry C	10.1021/acs.jpcc.2c06616	Xi, Min; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang/Xi, Min; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang				
150	Investigations of Pressurized Lu-N-H Materials by Using the Hybrid Functional	Journal Of Physical Chemistry C	10.1021/acs.jpcc.3c04454	Wu, Wenfeng; Zeng, Zhi; Wang, Xianlong				
151	Pressure-Induced Structural Phase Transition and Enhanced Interlayer Coupling in Two-Dimensional Ferromagnet CrSiTe ₃	Journal Of Physical Chemistry Letters	10.1021/acs.jpcclett.3c00507	Pan, Xiaomei; Zeng, Hong; Cheng, Peng; Ye, Tingting; Yao, Deyuan; Xue, Erqiao; Ding, Junfeng	14	13	3320	
152	Regulating the Electronic Structure of Metal Nanoclusters by Longitudinal Single-Dithiolate Substitution	Journal Of Physical Chemistry Letters	10.1021/acs.jpcclett.3c002383216	Fan, Wentao; Yan, Nan; Zha, Jun; Gu, Wanmiao; You, Qing; Yang, Ying; Zhuang, Shengli; Wu, Zhikun	14	13	3216	3221
153	Lattice-mediated room temperature magnetoelectric effect in (1-y)BiFe _{1-x} Cr _x O ₃ -yBaTi _{1-x} Mn _x O ₃ solid solutions	Journal Of The American Ceramic Society	10.1111/jace.19555	Zhao, Gaochao; Pan, Chengbing; Dong, Wei; Tong, Peng; Yang, Jie; Zhu, Xuebin; Yin, Lihua; Song, Wenhai/Sun, Yuping/Yin, Lihua; Song, Wenhai/Yin, Lihua				
154	Coexistent, Competing Tunnelling, and Hopping Charge Transport in Compressed Metal Nanocluster Crystals	Journal Of The American Chemical Society	10.1021/jacs.3c07007	Ji, Shiyu; Peng, Di; You, Qing; Wang, Runguo; Yan, Nan; Zhou, Yue; Xia, Nan; Zeng, Zhi; Wu, Zhikun	44	15	24012	24020
155	Dynamic response of foam-filled sandwich beam with circular shape core under low-velocity impact	Journal Of The Brazilian Society Of Mechanical Sciences And Engineering	10.1007/s40430-022-03951-8	Zhao, Modi	45	1		
156	The Origin of Capacity Degradation and Regulation Strategy in Aqueous Zn-MnO ₂ Battery with Manganese Acetate	Journal Of The Electrochemical Society	10.1149/1945-7111/acc693	Liu, Shuang; Kong, Fantai; Tong, Wenbin; Chen, Yili; Chen, Shuanghong	170	3		
157	Simultaneously enhanced thermal conductivity and dielectric properties of borosilicate glass-based LTCC with AlN and h-BN additions	Journal Of The European Ceramic Society	10.1016/j.jeurceramsoc.2023.04.013	Chen, Lin; Sun, Jun; Ding, Jianjun; Li, Xiaoxiao; Gong, Yi; Zheng, Kang; Zhang, Xian; Tian, Xingyou/Yang, Shuquan; Zhang, Lan; Xiao, Meihui	43	11	4814	
158	Strong textured ferroelectric ceramics CaBi ₂ Nb ₂ O ₉ with superior piezoelectric response via conventional solid-state technique	Journal Of The European Ceramic Society	10.1016/j.jeurceramsoc.2023.07.001	Pan, C. B.; Zhao, G. C.; Li, S. M.; Wang, X. L.; Tao, M.; Yin, L. H.; Song, W. H.; Zhu, X. B.; Yang, J.; Sun, Y. P./Sun, Y. P.	43	15	6825	6832
159	Effects of Vanadium Microalloying and Intercritical Annealing on Yield Strength–Ductility Trade-Offs of Medium-Manganese Steels	Materials	10.3390/ma16062220	Bi, Nannan; Shi, Zimu; Wang, Xingfu; Han, Fusheng; Liang, Juhua	16	6		
160	Emerging electrocatalysts for electrochemical advanced oxidation processes (EAOPs): recent progress and perspectives	Materials Chemistry Frontiers	10.1039/d2qm01294d	Shu, Yajie; Yin, Huajie; Zhang, Haimin				

161	Self-healing liquid metal hydrogel for human-computer interaction and infrared camouflage	Materials Horizons	10.1039/d3mh00341h	Li, Xiaofei; Jiang, Miao; Du, Yiming; Ding, Xin; Xiao, Chao; Wang, Yanyan; Zhuo, Yizhi; Zheng, Kang; Liu, Xianglan; Chen, Lin; Gong, Yi; Tian, Xingyou; Zhang, Xian				
162	Magneto-electrochemistry driven ultralong-life Zn-VS ₂ aqueous zinc-ion batteries	Materials Horizons	10.1039/d3mh00303e	Sheng, Zhigao; Sun, Yuping/Mao, Yunjie; Bai, Jin; Ma, Hongyang; Li, Wanyun; Wang, Peiyao; Zhu, Xiaoguang; Tong, Peng; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping				
163	Solution-processed Sb ₂ Se ₃ nanorod array and its photovoltaic performance	Materials Letters	10.1016/j.matlet.2023.134215	Ge, Chengfeng; Liu, Rong; Zhu, Liangxin; Chen, Junwei; Dong, Chao; Wang, Mingtai				
164	Plasmonic oxygen-deficient sodium tungsten bronze Na ₂ WO _{3-x} microstructures for SERS detection	Materials Letters	10.1016/j.matlet.2023.135113	Wang, Dongran; Wang, Pengxiang; Huang, Zhulin; Tang, Haibin; Deng, Quan	352			
165	One-step magneto-solvothermal synthesis of porous network NiCo ₂ S ₄ for high-performance supercapacitors	Materials Today Chemistry	10.1016/j.mtchem.2023.101585	Chen, Q.; Li, H.; Li, H.; Wu, Z.Q.; Zhu, L.L.; Li, C.D.; Zhu, X.B.; Sun, Y.P.	30			
166	Anodic alumina photonic crystals: Structure engineering, optical properties and prospective applications	Materials Today Communications	10.1016/j.mtcomm.2022.105052	Shang, Guoliang; Fei, Guangtao; Zhang, Lide	34			
167	An adjustable transpiration polyimide membrane for highly efficient personal drying and warming	Materials Today Communications	10.1016/j.mtcomm.2023.106530	Jiang, Miao; Xiao, Chao; He, Xusheng; Wang, Yanyan; Ding, Xin; Zhang, Xian; Li, Xiaofei; Zheng, Kang; Liu, Xianglan; Chen, Lin; Tian, Xingyou/Xiao, Chao; Zhang, Xian; Zheng, Kang	36			
168	Configuration stability and physical properties of new diamondene structure	Materials Today Communications	10.1016/j.mtcomm.2023.106465	Niu, Caoping; Zhao, Jing; Xia, Wenming; Chen, Guo; Zhang, Jie; Wang, Xianlong	36			
169	Hydrophobic 4-(isopropylbenzyl)oxy-substituted metallophthalocyanines as a dopant-free hole selective material for high-performance and moisture-stable perovskite solar cells	Materials Today Energy	10.1016/j.mtener.2023.101324	Kong, Fantai	35			
170	Two birds with one stone: dopant-free squaraine hole-transporting material for perovskite solar cell	Materials Today Energy	10.1016/j.mtener.2023.101411	Liu, Wenjun; Peng, Yaole; Kong, Fantai; Zhao, Chundie; Zhang, Jinxue	37			
171	Large 3D anisotropy of magnetoresistance in MoAlB	Materials Today Physics	10.1016/j.mtphys.2023.101060	Huang, Yanan; Lin, Shuai; Song, Wenhai; Luo, Xuan; Lu, Wenjian; Zhu, Xuebin; Sun, Yuping				
172	A review on the synthesis, properties, and characterizations of graphitic carbon nitride (g-C ₃ N ₄) for energy conversion and storage applications	Materials Today Physics	10.1016/j.mtphys.2023.101080	Iqbal, Obaid; Li, Nian; Wang, Zhenyang/Iqbal, Obaid; Li, Nian; Wang, Zhenyang	34			
173	Microstructural Evolution and Internal Friction Behavior of a Ferrite/Martensitic Steel Induced By Equal-Channel Angular Pressing	Metallurgical And Materials Transactions A-Physical Metallurgy And Materials Science	10.1007/s11661-023-07104-x	Zhang, G. J.; Zhang, Q. G.; Wang, X. G.; Sun, M.; Yang, J. F.; Fang, Q. F.; Wang, X. P./Yang, J. F.	54	9	3489	3502
174	Effects of Alloying Elements on the Solution and Diffusion of Oxygen at Iron Grain Boundary Investigated by First-Principles Study	Metals	10.3390/met13040789	Zhang, Jingdan; Li, Xiaolin; Lei, Yawei; Zhang, Yange; Li, Xiangyan; Xu, Yichun; Wu, Xuebang; Yang, Junfeng; Liu, Changsong	13	4		
175	Coherent Control and Magnetic Detection of Divacancy Spins in Silicon Carbide at High Pressures	Nano Letters	10.1021/acs.nanolett.2c03378	Liu, Lin; Liu, Xiao-Di; Xu, Hai-An; Xu, Wan; Wang, Pu; Ding, Jun-Feng; Gregoryanz, Eugene				

176	Ultrahigh-power electrochemical double-layer capacitors based on structurally integrated 3D carbon tube arrays	Nano Research	10.1007/s12274-023-6263-0	Han, Fangming; Meng, Guowen; Lin, Dou; Chen, Gan; Zhang, Shiping; Qian, Ou; Zhu, Xiaoguang				
177	Facile Synthesis of ZnO/WO ₃ Nanocomposite Porous Films for High-Performance Gas Sensing of Multiple VOCs	Nanomaterials	10.3390/nano13040733	Lei, Biao; Zhang, Hongwen; Zhao, Qian; Wei, Yi; Lu, Yanyan; Xiao, Tingting; Cai, Weiping/Zhang, Hongwen	13	4		
178	Self-Assembled Bifunctional Copper Hydroxide/Gold-Ordered Nanoarray Composites for Fast, Sensitive, and Recyclable SERS Detection of Hazardous Benzene Vapors	Nanomaterials	10.3390/nano13132016	Lu, Yanyan; Lei, Biao; Zhang, Hongwen; Zhao, Zhipeng; Zhu, Shuyi; Zhao, Qian; Cai, Weiping	13	13		
179	Rapid controllable synthesis of branched Au superparticles: formation mechanism of toggling the growth mode and their applications in optical broadband absorption	Nanoscale Advances	10.1039/d3na00008g	Zhong, Shichuan; Wen, Lulu; Zhang, Tao; Cao, An; Zeng, Pan; Zhang, Hanlin; Liu, Dilong; Cai, Weiping; Li, Yue	5	6	1776	1783
180	Atomically dispersed bimetallic Fe–Co electrocatalysts for green production of ammonia	Nature Sustainability	10.1038/s41893-022-00993-7	Zhang, Shengbo; Shi, Tongfei; Zhang, Haimin; Zhou, Hongjian; Chen, Chun; Zhang, Yunxia; Wang, Guozhong; Yin, Huajie	6	2	169	179
181	Magnetic field assisted fabrication of yolk-shell Co ₃ V ₂ O ₈ microspheres for superior lithium-ion storage	New Journal Of Chemistry	10.1039/d3nj00158j	Zhou, Jiafeng; Bai, Jin; Mao, Yunjie; Ma, Hongyang; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping				
182	Greatly enhanced tunneling electroresistance in ferroelectric tunnel junctions with a double barrier design	Npj Computational Materials	10.1038/s41524-023-01101-9	Xiao, Wei; Zeng, Zhi	9	1		
183	Fast generation of reliable primary radiation damage of BCC tungsten by sampling molecular dynamics databases	Nuclear Materials And Energy	10.1016/j.nme.2023.101443	Zhang, Chuanguo; Zheng, Qirong; Li, Yonggang; Wei, Liuming; Cheng, Fan; Zeng, Zhi	35			
184	Effect of Si content on the microstructure and mechanical properties of 9Cr-ferritic/martensitic steels	Nuclear Materials And Energy	10.1016/j.nme.2023.101428	Yang, J. F.; Wang, X. P./Zhang, G. J.; Zhou, Y.; Yang, J. F.; Yang, H. Y.; Wang, M. M.; Jing, K.; Xie, Z. M.; Zhang, L. C.; Liu, R.; Fang, Q. F.; Wang, X. P.	35			
185	A generalized Drude–Smith model for ultrafast pump-and-probe experiments and its application for studying of electronic dynamic properties of polycrystalline diamond	Optics Communications	10.1016/j.optcom.2023.129619	Wen, Hua; Xu, Wen; Cheng, Xingjia	544			
186	Critical behavior at paramagnetic to ferrimagnetic phase transition in A-site ordered perovskite CaCu ₃ Cr ₂ Nb ₂ O ₁₂	Physica B-Condensed Matter	10.1016/j.physb.2022.414376	Li, Sumei; Shu, Mingfang; Wang, Meng; Pan, Chengbing; Zhao, Gaochao; Yin, Lihua; Song, Wenhai; Yang, Jie; Zhu, Xuebin; Sun, Yupin	648			
187	Quantum size effects in stacked multilayer graphene	Physica Scripta	10.1088/1402-4896/accedd	Yang, Yong	98	6		
188	Bipolar spin-filtering and giant magnetoresistance effect in spin-semiconducting zigzag graphene nanoribbons	Physical Chemistry Chemical Physics	10.1039/d2cp05834k	Han, Ziqi; Zeng, Zhi	25	8	6461	6466
189	Giant tunneling electroresistance in a 2D bilayer-In ₂ Se ₃ -based out-of-plane ferroelectric tunnel junction	Physical Chemistry Chemical Physics	10.1039/d3cp01942j	Han, Ziqi	25	27	18158	18165

190	Pressure-Optimized Band Gap and Enhanced Photoelectric Response of Graphitic Carbon Nitride with Nitrogen Vacancies	Physical Review Applied	10.1103/PhysRevApplied.19.024048	Cheng, Peng; Yao, Deyuan; Yan, Jinwei; Ye, Tingting; Zeng, Hong; Pan, Xiaomei; Ding, Junfeng	19	2		
191	Giant tunnel electroresistance in two-dimensional ferroelectric tunnel junctions constructed with a Sc ₂ CO ₂ /In ₂ Se ₃ van der Waals ferroelectric heterostructure	Physical Review B	10.1103/PhysRevB.107.115427	Xie, Aijie; Zeng, Zhi	107	11		
192	Universal phonon softening in the pseudogap state of Tl ₂ Ba ₂ Can-1CunO _{2n+4+d}	Physical Review B	10.1103/PhysRevB.107.224508	Hu, Jia-Wei	107	22		
193	Prediction of giant tunneling magnetoresistance in RuO ₂ /TiO ₂ /RuO ₂ (110) antiferromagnetic tunnel junctions	Physical Review B	10.1103/PhysRevB.108.174439	Jiang, Yuan-Yuan; Wang, Zi-An; Lu, W.J.; Sun, Y.P.; Shao, Ding-Fu	17			
194	Bonding properties of Rubik's-cube-like Slater-Pauling Heusler semiconductors for thermoelectrics	Physical Review B	10.1103/PhysRevB.108.195203	Ti, Zhuoyang	19			
195	Neel Spin Currents in Antiferromagnets	Physical Review Letters	10.1103/PhysRevLett.130.216702	Sun, Y. P./Shao, Ding-Fu; Jiang, Yuan-Yuan; Wang, Zi-An; Lu, W. J.; Sun, Y. P.	130	21		
196	Sensitivity of ion implantation to low-energy electronic stopping cross-sections	Radiation Physics And Chemistry	10.1016/j.radphyschem.2022.110681	Cheng, Fan; Li, Yonggang; Zheng, Qirong; Wei, Liuming; Zhang, Chuanguo; Zeng, Zhi	204			
197	A high-performance, oxidation resistance and flexible Zn@MXene/cellulose nanofibers electromagnetic shielding film	Rsc Advances	10.1039/d2ra07791d	Da, Yunsheng; Qu, Qiqi; Liu, Qiang; Zhu, Menghan; Du, Yiming; Tian, Xingyou; Liu, Yanyan; Wang, Hua	13	10	6619	6629
198	Electrochemical ammonia synthesis by reduction of nitrate on Au doped Cu nanowires	Rsc Advances	10.1039/d3ra00679d	Zha, Yuankang; Liu, Min; Wang, Jinlu; Feng, Jiyu; Li, Daopeng; Zhao, Dongnan; Zhang, Shengbo; Shi, Tongfei	13	15	9839	
199	Single thiolate replacement of metal nanoclusters	Science China-Chemistry	10.1007/s11426-023-1775-y	Ambreen, Ambreen; Zhou, Yue; Gu, Wanmiao; You, Qing; Fang, Liang; Bian, Guoqing; Yan, Nan; Xia, Nan; Wu, Zhikun				
200	A compressed structure construction and transformation in metal nanoclusters	Science China-Materials	10.1007/s40843-023-2455-6	Zha, Jun; Fan, Wentao; Xia, Nan; You, Qing; Yan, Nan; Liao, Lingwen; Wu, Zhikun				
201	Enhancing electrochemical energy storage capacity and rate performance of the anode with a 3D interconnected carbon tube-NiO-SnO ₂ composite scaffold	Science China-Materials	10.1007/s40843-023-2526-8	Zhang, Shiping; Han, Fangming; Pan, Qijun; Lin, Dou; Chen, Gan; Zhu, Xiaoguang; Shao, Cheng; Meng, Guowen	66	9	3493	3500
202	Nonstoichiometric and ligand-dependent paramagnetism of Au ₂₄ Cd(SR) ₁₈ nanoclusters	Science China-Materials	10.1007/s40843-023-2656-2	Ambreen, Ambreen; You, Qing; Xia, Nan; Yan, Nan; Wu, Zhikun				
203	Skin mimicking-sweating evaporation polyimide cooling film for electronic devices	Science China-Technological Sciences	10.1007/s11431-023-2374-0	Jiang, Miao; Xiao, Chao; He, XuSheng; Wang, YanYan; Ding, Xin; Zhang, Xian; Li, XiaoFei; Zheng, Kang; Liu, XiangLan; Chen, Lin; Tian, XingYou/Xiao, Chao; Zhang, Xian; Zheng, Kang				
204	Porous polyimide-based phase change materials with enhanced mechanical properties, thermal conductivity, and thermal shock resistance through precisely designed triple-functional layers	Science China-Technological Sciences	10.1007/s11431-022-2307-6	Jiang, Miao; Xiao, Chao; Ding, Xin; Wang, YanYan; Zhang, Xian; Du, YuHang; Li, XiaoFei; Zheng, Kang; Liu, XiangLan; Chen, Lin; Tian, XingYou/Xiao, Chao; Zhang, Xian; Zheng, Kang				

205	Latent heat thermal storage of solid-state phase transition in thermally stabilized hexagonal FeS	Scripta Materialia	10.1016/j.scriptamat.2022.115166	Wang, Xuelian; Tong, Peng; Xiong, Tingjiao; Dong, Buke; Xie, Lulu; Pan, Chengbing; Wang, Meng; Lin, Jianchao; Song, Wenhai; Sun, Yuping/Sun, Yuping	225			
206	Interplay between carbon and substitutional solute atoms during precipitation of Mn/Ni/Si-rich phases in model reactor pressure vessel steels	Scripta Materialia	10.1016/j.scriptamat.2022.115158	Liu, Xueqing; Sun, Meng; Jiang, Weibin; Wang, Xianping; Fang, Qianfeng	225			
207	Stable nanoparticles dispersion induced an unprecedented high strength in a bulk W-TiC alloy	Scripta Materialia	10.1016/j.scriptamat.2022.115136	Xie, X.F.;Zhang, Yange;Xie, Z.M.;Cheng, X.;Liu, R.;Fang, Q.F.;Liu, C.S.;Wu, Xuebang				
208	Mo2N/CoN nanotube with synergistic reaction of intercalation and conversion enables high performance lithium-ion batteries	Scripta Materialia	10.1016/j.scriptamat.2023.115516	Sun, Yuping/Wang, Peiyao; Zhao, Bangchuan; Bai, Jin; Ma, Hongyang; Li, Wanyun; Mao, Yunjie; Xiao, Ke; Zhu, Xuebin; Sun, Yuping	233			
209	Laser-generated defect-rich MnOx nanobelts with high oxidase mimic activity for glutathione detection	Sensors And Actuators B: Chemical	10.1016/j.snb.2023.133595	Ji, Sihan;Li, Pengfei;Wei, Shuxian;Cheng, Xiaohu;Wu, Lingli;Ye, Yixing;Cai, Yunyu;Liang, Changhao/Zhao, Xianglong;Ma, Kun	383			
210	Enhanced As(III) detection under near-neutral conditions: Synergistic effect of boosted adsorption by oxygen vacancies and valence cycle over activated Au NPs loaded on FeCoOx nanosheets	Sensors And Actuators B: Chemical	10.1016/j.snb.2023.133489	Huang, Cong-Cong;Song, Zong-Yin;Yang, Meng;Huang, Xing-Jiu				
211	Preassembly strategy to anchor single atoms on carbon nitride layers achieving versatile Fenton-like catalysis	Separation And Purification Technology	10.1016/j.seppur.2022.122955	Yang, Dandan; Hu, Yi; Hong, Peidong; Li, Yulian; He, Junyong; Zhang, Kaisheng; Wu, Zijian; Xie, Chao; Liu, Jinhuai; Kong, Lingtao	308			
212	E-waste derived CuAu bimetallic catalysts supported on carbon cloth enabling effective degradation of bisphenol A via an electro-Fenton process	Separation And Purification Technology	10.1016/j.seppur.2022.122507	Ye, Mengxiang; Zhang, Chao; Liu, Zhenzhen; Li, Huaimeng; Fu, Zhen; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia	305			
213	Selective Pt recovery from spent catalyst enabled by hierarchical porous poly(imine dioxime)/polyethylenimine composite membrane for recycled Pt/C catalyst	Separation And Purification Technology	10.1016/j.seppur.2023.123125	Li, Huaimeng;Ye, Mengxiang;Liu, Zhenzhen;Fu, Zhen;Zhang, Haimin;Wang, Guozhong;Zhang, Yunxia	310			
214	Mechanistic insight into active species formation during Fenton-like processes by regulating dissimilar charged groups on Fe3O4 nanospheres	Separation And Purification Technology	10.1016/j.seppur.2023.124082	Yao, Ke; Wei, Jian; Hong, Peidong; Li, Yulian; Xie, Chao; Wu, Zijian; Zhang, Kaisheng; Li, Minqiang; He, Junyong; Kong, Lingtao	319			
215	Fe/Fe3C nanoparticles embedded in N-doped porous carbon as the heterogeneous electro-Fenton catalyst for efficient degradation of bisphenol A	Separation And Purification Technology	10.1016/j.seppur.2023.123778	Zhang, Chao; Ye, Mengxiang; Li, Huaimeng; Liu, Zhenzhen; Fu, Zhen; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia	316			
216	Purification of Quartz Via Low-Temperature Microwave Chlorinated Calcination Combined with Acid Leaching and its Mechanism	Silicon	10.1007/s12633-022-01749-w	Song, Wangfeng;Jiang, Xuesong;Chen, Chen;Ban, Boyuan;Chen, Jian/Ban, Boyuan;Chen, Jian/Wan, Songming	15	2	971	981
217	Carbon Foam-Supported VS2 Cathode for High-Performance Flexible Self-Healing Quasi-Solid-State Zinc-Ion Batteries	Small	10.1002/sml.202207998	Mao, Yunjie; Zhao, Bangchuan; Bai, Jin; Ma, Hongyang; Wang, Peiyao; Li, Wanyun; Xiao, Ke; Wang, Siya; Zhu, Xuebin; Sun, Yuping/Sun, Yuping				
218	Bidirectional Anions Gathering Strategy Afford Efficient Mixed Pb-Sn Perovskite Solar Cells	Small	10.1002/sml.202207480	Tao, Yuli; Liang, Zheng; Ye, Jiajiu; Xu, Huifen; Liu, Guozhen; Pan, Xu; Tian, Xingyou				

219	Phase Engineering of W-Doped MoS ₂ by Magneto-Hydrothermal Synthesis for Hydrogen Evolution Reaction	Small	10.1002/sml.202303646	Li, Changdian; Zhu, Lili; Wu, Ziqiang; Chen, Qian; Zheng, Ruobing; Huan, Jie; Huang, Yanan; Zhu, Xuebin; Sun, Yuping/Sun, Yuping				
220	Facile Synthesis of 2D SiO _x -3D Si Hybrid Anode Materials by Ca Modification Effect for Enhanced Lithium Storage Performance	Small	10.1002/sml.202309346	Ding, Juxuan; Chen, Chen; Jiang, Xuesong; Wang, Zihan; Zhu, Xiaoxiao; Mo, Zhangchao; Chen, Shuanghong; Ban, Boyuan; Chen, Jian				
221	Regulation of Sulfur Atoms in MoS _x by Magneto-Electrodeposition for Hydrogen Evolution Reaction	Small	10.1002/sml.202308729	Li, Changdian; Chen, Qian; Zheng, Ruobing; Huan, Jie; Bai, Jin; Zhu, Lili; Huang, Yanan; Zhu, Xuebin; Sun, Yuping/Sun, Yuping				
222	Two Birds with One Stone: V ₄ C ₃ MXene Synergistically Promoted VS ₂ Cathode and Zinc Anode for High-Performance Aqueous Zinc-Ion Batteries	Small	10.1002/sml.202306615	Mao, Yunjie; Bai, Jin; Wang, Peiyao; Li, Wanyun; Xiao, Ke; Wang, Siya; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping/Sun, Yuping				
223	Ruthenium Oxide Clusters Immobilized in Cationic Vacancies of 2D Titanium Oxide for Chlorine Evolution Reaction	Small Structures	10.1002/sstr.202300240	Ji, Jiapeng; Shi, Lei; Yin, Huajie; Zhang, Haimin				
224	Properties evaluation and failure behaviour of plasma sprayed Y ₄ Hf ₃ O ₁₂ for thermal barrier coating applications	Surface & Coatings Technology	10.1016/j.surfcoat.2022.129162	Dang, Xian; Yuan, Jieyan; Li, Xinyang; Huang, Zhulin; Hu, Xiaoye; Li, Yue/Dang, Xian; Yuan, Jieyan; Li, Xinyang; Huang, Zhulin; Hu, Xiaoye; Li, Yue	454			
225	Transparent p-n heterojunction thin film diodes based on p-CuCrO ₂ and n-In ₂ O ₃	Thin Solid Films	10.1016/j.tsf.2023.139986	Cheng, Wangping; He, Yuandi; Wei, Renhuai; Hu, Ling; Song, Wenhui; Zhu, Xuebin; Sun, Yuping	781			
226	Decisive role of electronic structure in electroanalysis for sensing materials: Insights from density functional theory	Trac-Trends In Analytical Chemistry	10.1016/j.trac.2023.116977	Song, Zong-Yin; Li, Yong-Yu; Xiao, Xiang-Yu; Gao, Zhi-Wei; Zhao, Yong-Huan; Liang, Bo; Chen, Shi-Hua; Li, Pei-Hua; Yang, Meng; Huang, Xing-Jiu	160			

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1	Durable Rapid Self-Disinfection, Reusable Protective Clothing Based on the Ag-Pd@MoS ₂ Nanozyme with Enhanced Triple-Mode Synergistic Antibacterial Effect	Acs Applied Materials & Interfaces	10.1021/acsami.2c23130	Pi, Shuai; Liu, Cui; Zhang, Jixiang; Li, Nian; Shen, Jianjun; Guo, Wei; Qin, Ling; Zhao, Jun; Zhang, Shudong; Wang, Zhenyang	15	14	18032	
2	Niobium and Fluorine Dually Doped Titanium Oxide Nanosheet Arrays for Selective Dual-Band Electrochromic Applications	Acs Applied Nano Materials	10.1021/acsanm.3c01160	Ji, Shulin				
3	Multilayered Upconversion Nanocomposite-Based Photodynamic Hydrogel Dressings for Wound Sterilizing and Healing	Acs Applied Nano Materials	10.1021/acsanm.3c00947	Shen, Jianjun; Li, Lingfei; Kang, Xiaohui; Lin, Dan; Yang, Liang; Jiang, Changlong/Lin, Dan; Yang, Liang; Jiang, Changlong	6	14	12726	12735
4	Oxygen-Enriched Hierarchical Nanoporous Carbon Electrodes for Supercapacitors	Acs Applied Nano Materials	10.1021/acsanm.3c01702	Kang, Jun; Li, Nian; Zhang, Shudong; Song, Yanping; Yu, Xinling; Liu, Cui; Xi, Min; Li, Zhao; Yu, Xing; Pu, Jingwen; Hong, Na; Wang, Zhenyang	6	13	11841	11855
5	A 2.6 V Flexible Supercapacitor Based on Al-MnO ₂ -Na ₂ SO ₄ //AC-KOH with High Specific Energy	Acs Energy Letters	10.1021/acsenergylett.3c00439	Hu, Xiaoye				
6	Thiazole Functionalized Hole Transport Material Featuring Defect Passivation Effects for High-Performance Perovskite Solar Cells	Acs Materials Letters	10.1021/acsmaterialslett.3c00225	Li, Zhaoqian; Hu, Linhua	5	6	1772	
7	Ratiometric Fluorescent Sensor Based on Hydrogen-Bond Triggering the Internal Filter Effect for Enzyme-Free and Visual Monitoring Pesticide Residues	Acs Sustainable Chemistry & Engineering	10.1021/acssuschemeng.3c00772	Lin, Dan; Xu, Shihao; Jiang, Changlong/Guo, Yujie; Li, Lingfei; Lin, Dan; Xu, Shihao; Jiang, Changlong	11	30	11032	11040
8	Tailoring the Solvation Environment Enables Dendrite-Free Zn Anodes for Stable Zinc-Ion Batteries	Acs Sustainable Chemistry & Engineering	10.1021/acssuschemeng.3c04599	Zhu, Xuejun; Wei, Tingting; Li, Zhaoqian; Mo, Li'e; Hu, Linhua	48	8	16975	16983
9	High-throughput study and machine learning on MAX and MAB phases: new materials and fingerprints of superior lattice thermal conductivities	Acta Materialia	10.1016/j.actamat.2023.119001	Lin, Shuai	254			
10	Photoferroelectric Perovskite Synapses for Neuromorphic Computing	Advanced Functional Materials	10.1002/adfm.202309910	Chen, Chong				
11	Triboelectric Nanogenerator with Dynamic Electrode for Geological Disaster and Fall-Down Self-Powered Alarm System	Advanced Functional Materials	10.1002/adfm.202306619	Meng, Guowen				
12	Stabilization and Performance Enhancement Strategies for Halide Perovskite Photocatalysts	Advanced Materials	10.1002/adma.202203836	Yin, Huajie	35	6		
13	Large-Area Flexible Perovskite Light-Emitting Diodes Enabled by Inkjet Printing	Advanced Materials	10.1002/adma.202309921	Shi, Tongfei				

14	Regulated Zn Plating and Stripping by a Multifunctional Polymer-Alloy Interphase Layer for Stable Zn Metal Anode	Advanced Science	10.1002/adv.202303343	Chen, Chong				
15	Investigations of point defect and interface in cg-N under high-pressure	Aip Advances	10.1063/5.0152341	Zhai, Zhenyang; Chen, Guo; Zhang, Jie; Wang, Xianlong; Zeng, Zhi	13	5		
16	Photoinduced Electron Transfer-Triggered g-C ₃ N ₄ /Rhodamine B Sensing System for the Ratiometric Fluorescence Quantitation of Carbendazim	Analytical Chemistry	10.1021/acs.analchem.2c05691	Zhang, Qianru; Zhang, Zhong; Xu, Shihao; Liu, Anqi; Da, Liangguo; Lin, Dan; Jiang, Changlong				
17	Synchronous Photoactivation-Imaging Fluorophores Break Limitations of Photobleaching and Phototoxicity in Live-cell Microscopy	Analytical Chemistry	10.1021/acs.analchem.3c03064	Liu, Bianhua; Zhang, Zhongping	44	7	16243	16250
18	Negligible Ion Migration in Tin-Based and Tin-Doped Perovskites	Angewandte Chemie-International Edition	10.1002/anie.202213932	Liang, Zheng; Pan, Xu; Ye, Jiajiu				
19	Balancing Interfacial Reactions through Regulating p-Band Centers by an Indium Tin Oxide Protective Layer for Stable Zn Metal Anodes	Angewandte Chemie-International Edition	10.1002/anie.202308454	Li, Xiangyang				
20	0D/2D Schottky junction synergies with 2D/2D S-scheme heterojunction strategy to achieve uniform separation of carriers in 0D/2D/2D quasi CNQDs/TCN/ZnIn ₂ S ₄ towards photocatalytic remediating petroleum hydrocarbons polluted marine	Applied Catalysis B: Environmental	10.1016/j.apcatb.2023.122387	Zhang, Kaisheng				
21	Modulating the electronic structures derived by neighbouring hetero-diatomic FeCoN ₆ -Gra for prominent electrocatalysis of arsenic acid	Applied Catalysis B-Environmental	10.1016/j.apcatb.2023.122851	Liu, Wen-Qing/Li, Yong -Yu; Song, Zong-Yin; Gao, Zhi-Wei; Xiao, Xiang-Yu; Zhao, Yong-Huan; Li, Pei-Hua; Huang, Xing-Jiu	334			
22	Electrocatalytic conversion of methane to ethanol by ultrathin WO ₃ nanosheets: Oxygen vacancy engineering	Applied Materials Today	10.1016/j.apmt.2023.101855	Chen, Bin	32			
23	2D/2D Mo _{0.74} W _{0.26} S ₂ /Ti ₃ C ₂ MXene for microwave absorption with broad effective absorption band	Applied Physics Letters	10.1063/5.0156401	Li, H.; Zhu, X. B.	123	2		
24	Computational understanding and prediction of 8-electron half-Heusler compounds with unusual suppressed phonon conduction	Applied Physics Reviews	10.1063/5.0136310	Ti, Zhuoyang; Li, Jingyu; Zhang, Xuemei; Zhang, Yongsheng	10	3		
25	0D/2D Z-schemed carbon nitride quantum dots/Bi ₂ MoO ₆ -x with enhanced carriers' separation efficiency toward oxidation coupling of amines under ambient conditions	Applied Surface Science	10.1016/j.apsusc.2023.156736	Zhang, Kaisheng	619			
26	Regulating coordination by multi-configurational alkaloid-based passivation molecules for high-performance perovskite photovoltaics	Chemical Engineering Journal	10.1016/j.cej.2022.139535	Liu, Guozhen; Pan, Xu	452			

27	Stitching electron localized heptazine units with carbon patches to regulate exciton dissociation behavior of carbon nitride for photocatalytic elimination of petroleum hydrocarbons	Chemical Engineering Journal	10.1016/j.cej.2022.139092	Zhang, Kaisheng	452			
28	Realizing high thermoelectric performance in magnetic field-assisted solution synthesized nanoporous SnSe integrated with quantum dots	Chemical Engineering Journal	10.1016/j.cej.2022.138637	Fang, Jun/Li, Di	451			
29	Surface strain-regulated twin-rich Au-Pt bimetallic nanowire for highly efficient alcohol oxidation reaction	Chemical Engineering Journal	10.1016/j.cej.2023.143411	Liao, Lingwen	468			
30	Conjugate cyclic cations engineering for high-performance 2D/3D heterojunction perovskite solar cells	Chemical Engineering Journal	10.1016/j.cej.2023.143392	Du, Du; Liu, Guozhen; Zhang, Liying; Tao, Yuli; Zhang, Hui; Guo, Tianle; Xu, Huifen; Xu, Shendong; Ye, Jiajiu; Pan, Xu	467			
31	Highly porous carbon derived from hydrothermal-pyrolysis synergistic carbonization of biomass for enhanced CO ₂ capture	Colloids And Surfaces A: Physicochemical And Engineering Aspects	10.1016/j.colsurfa.2023.131787	Cai, Weiping; Wang, Xianbiao	673			
32	Comparison investigation on corrosion of SIMP and T91 steels exposed to liquid LBE at 450 °C: The role of Si on reducing oxidation rate	Corrosion Science	10.1016/j.corsci.2023.111553	Xu, Yichun				
33	Microstructure Characterization and Hardening Evaluation of Ferrite/Martensitic Steels Induced by He ²⁺ Irradiation	Crystals	10.3390/cryst13091308	Zhang, Guangjie; Yang, Junfeng; Xie, Zhuoming; Zhang, Linchao; Liu, Rui; Sun, Meng; Hu, Yi; Wu, Xuebang; Fang, Qianfeng; Liu, Changsong; Wang, Xianping	9			
34	Promoting form I' crystallization and melting-recrystallization by adding a beta-nucleating agent into poly(butene-1)/isotactic polypropylene blends	Crystengcomm	10.1039/d3ce00212h	Xu, Min; Han, Yu; Li, Xiangyang; Ding, Jianjun; Zheng, Kang; Lin, Yongxing; Chen, Lin; Tian, Xingyou	25	17	2629	
35	Selective pseudocapacitive separation of zinc ions via silk cocoon derived N-doped porous carbon	Desalination	10.1016/j.desal.2022.116220	Xu, Yingsheng; Xiang, Shuhong; Zhou, Jianguo; Liu, Fei; Zhou, Hongjian/Zhou, Hongjian	546			
36	Terahertz optoelectronic properties of synthetic single crystal diamond	Diamond And Related Materials	10.1016/j.diamond.2023.110266	Xu, Wen	139			
37	An Improved Theoretical Model to Extract the Optical Conductivity of Two-Dimensional Material from Terahertz Transmission or Reflection Spectroscopy	Electronics	10.3390/electronics12040864	Xu, Wen	12	4		
38	Scalable production of hydrogen evolution corrosion resistant Zn-Al alloy anode for electrolytic MnO ₂ /Zn batteries	Energy Storage Materials	10.1016/j.ensm.2022.10.059	Ban, Boyuan; Chen, Jian	54		570	578
39	Selenium nanoparticles improve nickel-induced testosterone synthesis disturbance by down-regulating miR-708-5p/p38 MAPK pathway in Leydig cells	Environmental Toxicology	10.1002/tox.23811	Gu, Zhangyu; Ye, Yixing; Liang, Changhao				
40	Hollow glass microspheres/phenolic syntactic foams with excellent mechanical and thermal insulate performance	Frontiers In Chemistry	10.3389/fchem.2023.1216706	Wang, Hui; Cheng, Hua; Wang, Hua; Zheng, Kang	11			

41	Enhanced performance of planar perovskite solar cells by doping the SnO ₂ electron transport layer with guanidinium chloride	Frontiers In Materials	10.3389/fmats.2023.1118641	Ye, Jiajiu	10			
42	Faraday rotation in nitrogen-doped diamond measured by polarized terahertz time-domain spectroscopy in the presence of strong magnetic field	Hongwai Yu Haomibo Xuebao/Journal Of Infrared And Millimeter Waves	10.11972/j.issn.1001-9014.2023.06.008	Wen, Hua;Xu, Wen;Zhang, Jing;Cheng, Xing-Jia	6	755	761	
43	Enhanced near-room temperature thermoelectric performance and mechanical strength of n-type BiTeSe materials incorporated with Ag ₂ Se inclusions	Inorganic Chemistry Frontiers	10.1039/d3qi00972f	Chen, K.; Chen, T.; Ai, L.; Ming, H. W.; Li, S. J.; Zhang, J.; Qin, X. Y.; Xin, H. X.; Song, C. J.; Li, D.	10	18	5292	5302
44	Tribological performance under different environments of Ti-C-N composite films for marine wear-resistant parts	International Journal Of Minerals Metallurgy And Materials	10.1007/s12613-022-2551-z	Yang, Junfeng	30	1	144	155
45	Research Progress on the Effect of Third Components on the Microstructure and Properties of W-Cu Composites	Jom	10.1007/s11837-023-06270-y	Wei, Chenlong				
46	Phase transition and mechanical performance evolution in TiVZr-Nbx alloys	Journal Of Alloys And Compounds	10.1016/j.jallcom.2022.168458	Wang, X. G.; Sun, M.	937			
47	Laser-induced manganese oxide/graphene composite electrodes with commercial-level mass loading towards high-performance supercapacitors	Journal Of Alloys And Compounds	10.1016/j.jallcom.2023.172435	Li, Nian; Song, Yanping; Zhang, Shudong; Liu, Cui; Li, Zhao; Hong, Na; Xi, Min; Wang, Zhenyang				
48	Uncertainty evaluation of Monte Carlo simulated line scan profiles of a critical dimension scanning electron microscope (CD-SEM)	Journal Of Applied Physics	10.1063/5.0153379	Khan, M. S. S.; Li, Y. G.	133	24		
49	Damage characteristics of 193 nm laser irradiated on MgF ₂ window	Journal Of Central South University	10.1007/s11771-023-5336-2	Li, Gang	30	5	1469	1476
50	Ball milling as an effective method for improving oxygen evolution reaction electrocatalyst Ca ₃ Co ₄ O ₉	Journal Of Electroanalytical Chemistry	10.1016/j.jelechem.2023.117182	Sun, Yuping/Zheng, Ruobing; Zhu, Lili; Li, Changdian; Wu, Ziqiang; Huang, Yanan; Yang, Jie; Wei, Renhuai; Zhu, Xuebin; Sun, Yuping	931			
51	Hydrogen-bond induced enhanced emission ratiometric fluorescent handy needle for visualization assay of amoxicillin by smartphone sensing platform	Journal Of Hazardous Materials	10.1016/j.jhazmat.2022.130403	Li, Lingfei; Yang, Liang; Lin, Dan; Xu, Shihao; Mei, Chunsheng; Jiang, Changlong/Yang, Liang; Lin, Dan; Xu, Shihao; Jiang, Changlong	444			
52	The study of magneto-optical conductivity of monolayer MoS	Journal Of Infrared And Millimeter Waves	10.11972/j.issn.1001-9014.2023.02.003	Xu Wen	42	2	156	
53	Inuence of neutron irradiation on X-ray diraction, Raman spectrum and photoluminescence from pyrolytic and hot-pressed hexagonal boron nitride	Journal Of Luminescence	10.1016/j.jlumin.2023.120118	Xu, Wen;Zhang, Jing	263			
54	Constructing asymmetrical dual catalytic sites in manganese oxides enables fast and stable lithium-oxygen catalysis	Journal Of Materials Chemistry A	10.1039/d2ta07232g	Liu, Jun	11	3	1188	1198
55	Self-powered, ultra-broadband, and polarization-sensitive photodetectors based on 1D van der Waals layered material Nb ₂ Pd ₃ Se ₈	Journal Of Materials Chemistry A	10.1039/d3ta01223a	Chen, Jiawang; Li, Liang	11	21	11517	

56	Electronic perturbation by interfacial coupling of iridium cluster and Cu ₃ P accelerates water splitting kinetics	Journal Of Materials Chemistry A	10.1039/d3ta04533a	Liu, Jun	48	12	26742	26751
57	Sandwich-type phase-change composites with the dual-function of efficient heat management and temperature-regulated electromagnetic interference shielding performance	Journal Of Materials Chemistry C	10.1039/d2tc04381e	Qin, Ling; Liu, Cui; Zhang, Jixiang; Xi, Min; Pi, Shuai; Guo, Wei; Li, Nian; Zhang, Shudong; Wang, Zhenyang	11	4	1381	1392
58	Small molecule-incorporated SnO ₂ layer for efficient perovskite solar cells	Journal Of Materials Chemistry C	10.1039/d3tc02603e	Chen, Chong				
59	A PA66 lamellar crystal film with excellent triboelectric performance in vertical contact separation mode	Journal Of Materials Chemistry C	10.1039/d3tc02258g	Liu, Jincheng; Ji, Po; Liu, Xianglan; Lin, Yongxing; Li, Xiangyang; Chen, Lin; Tian, Xingyou	11	36	12222	12233
60	Ag@ZIF-67 nanocomposites for ultra-sensitive SERS detection to thiram molecules	Journal Of Physics D-Applied Physics	10.1088/1361-6463/acadea	Gao, Lei; Luo, Yuanyuan; Cao, Zhenyu	56	5		
61	One-spot autogenous formation of crystalline-amorphous Ni ₃ S ₂ /NiFeOXHy heterostructure nanosheets array for synergistically boosted oxygen evolution reaction	Journal Of Power Sources	10.1016/j.jpowsour.2023.233163	Zhang, Xiang; Huang, Zhulin; Chen, Bin/Zhang, Xiang; Huang, Zhulin; Chen, Bin	574			
62	A Review of the Laser Cladding of Metal-Based Alloys, Ceramic-Reinforced Composites, Amorphous Alloys, and High-Entropy Alloys on Aluminum Alloys	Lubricants	10.3390/lubricants11110482	Shi, Zimu; Wang, Xingfu; Zhao, Modi; Liang, Juhua	11			
63	Phase Structure, Microstructure, Corrosion, and Wear Resistance of Al _{0.8} CrFeCoNiCu _{0.5} High-Entropy Alloy	Lubricants	10.3390/lubricants11090358	Wang, Xingfu; Shi, Zimu; Liang, Juhua	9			
64	Study on the Automatic Identification of ABX ₃ Perovskite Crystal Structure Based on the Bond-Valence Vector Sum	Materials	10.3390/ma16010334	Zhang, Laisheng; Zhuang, Zhong; Fang, Qianfeng; Wang, Xianping	16	1		
65	The Role of Carbon in Metal-Organic Chemical Vapor Deposition-Grown MoS ₂ Films	Materials	10.3390/ma16217030	Li, Di	21			
66	Dual-function ionic liquid enhances perovskite crystal in perovskite solar cells	Materials Letters	10.1016/j.matlet.2023.134427	Li, Dufeng; Niu, Yunjuan; Yang, Zhiqian; Hu, Linhua	344			
67	Significant enhancement of the thermoelectric properties for MnSb ₂ Se ₄ through Ag doping	Materials Today Communications	10.1016/j.mtcomm.2023.105881	Chen, Yong;Chen, Tao;Ming, Hongwei;Yao, Gang;Li, Di;Zhang, Jian;Song, Chunjun;Xin, Hongxing				
68	Nonvolatile resistive switching in lead-free La ₂ CoMnO ₆ -based memory device	Materials Today Communications	10.1016/j.mtcomm.2023.106454	Yang, Yong	36			
69	Assessment of Gold-Bearing Quartz Vein as a Potential High-Purity Quartz Resource: Evidence from Mineralogy, Geochemistry, and Technological Purification	Minerals	10.3390/min13020261	Chen, Jian	13	2		
70	Enhanced electrical properties in 2D perovskites via the bridging effect of SnS _{1-x} O _{2x} for perovskite solar cells with efficiency exceeding 24%	Nano Energy	10.1016/j.nanoen.2023.108287	Chen, Chong; Dong, Chao; Wang, Mingtai	109			
71	Switchable Anomalous Hall Effects in Polar-Stacked 2D Antiferromagnet MnBi ₂ Te ₄	Nano Letters	10.1021/acs.nanolett.3c00047	Shao, Ding-Fu	23	9	3781	

72	Self-Optimized Ligand Effect of Single-Atom Modifier in Ternary Pt-Based Alloy for Efficient Hydrogen Oxidation	Nano Letters	10.1021/acs.nanolett.3c00391	Pang, Beibei; Liang, Changhao/Pang, Beibei; Liang, Changhao	23	9	3826	
73	Biological calcium phosphate nanorods for piezocatalytic extraction of U(VI) from water	Nano Research	10.1007/s12274-023-6159-z	Xu, Shao Hui; Liu, Mao; Fei, Guang Tao; Zhang, Li De				
74	A two-dimensional Te/ReS ₂ van der Waals heterostructure photodetector with high photoresponsivity and fast photoresponse	Nanoscale	10.1039/d2nr07185a	Li, Liang; Gan, Wei	15	17	7730	
75	Anomalous spin current anisotropy in a noncollinear antiferromagnet	Nature Communications	10.1038/s41467-023-41568-0	Shao, Ding-Fu	1			
76	Magnetic detection under high pressures using designed silicon vacancy centres in silicon carbide	Nature Materials	10.1038/s41563-023-01477-5	Liu, Lin; Liu, Xiao-Di; Xu, Hai-An; Xu, Wan; Yan, Jin-Wei; Gregoryanz, Eugene	22	4	489	
77	Surface morphology and deuterium retention in W and W-HfC alloy exposed to high flux D plasma irradiation	Nuclear Engineering And Technology	10.1016/j.net.2022.10.011	Xie, Zhuoming	55	2	575	
78	Fiber-coupled silicon carbide divacancy magnetometer and thermometer	Optics Express	10.1364/OE.483411	Liu, Lin; Liu, Xiao-Di	31	10	15592	
79	Experimental and Simulation Analysis on the Mechanical Behavior of 3D-Enhanced Al-Based Tetrahedral Lattice Materials	Physica Status Solidi A-Applications And Materials Science	10.1002/pssa.202200580	Shi, Zimu	220	1		
80	Study of the Surface and Bulk States of Bi ₂ Te ₃ Topological Insulators Using Terahertz Time-Domain Spectroscopy	Physica Status Solidi-Rapid Research Letters	10.1002/pssr.202300008	Ding, Lan; Wu, Min; Zhou, Shun; Zhu, Ludan; Xu, Wen				
81	Compressive Mechanical Behavior of Additively Manufactured 3D Auxetic Metamaterials with Enhanced Strength	Physica Status Solidi-Rapid Research Letters	10.1002/pssr.202300226	Wang, Xingfu				
82	Design and Characterization of New 3D Reentrant Rhombic Auxetic Structures with Enhanced Mechanical Properties	Physica Status Solidi-Rapid Research Letters	10.1002/pssr.202300347	Wang, Xingfu				
83	Realizing pure spin current by the photogalvanic effect in armchair graphene nanoribbons with nano-constriction engineering	Physical Chemistry Chemical Physics	10.1039/d2cp05353e	Li, Yuejun; Zheng, Xiaohong	25	4	2890	2896
84	Effects of pressure on hydrogen diffusion behaviors in MgO	Physical Chemistry Chemical Physics	10.1039/d3cp00707c	Yang, Kaishuai; Zeng, Zhi; Wang, Xianlong	25	29	19824	19833
85	Multiorbital Nature of Doped Sr ₂ IrO ₄	Physical Review Letters	10.1103/PhysRevLett.131.036504	Zhang, Guoren	131	3		
86	Flexible polytetrafluoroethylene (PTFE) composite film with enhanced thermal conductivity and low interface thermal resistance for high frequency electronics	Polymer	10.1016/j.polymer.2023.126367	Xiao, Chao;Jiang, Miao;He, Xusheng;Wang, Yanyan;Ding, Xin;Zhang, Xian;Li, Xiaofei;Zheng, Kang;Liu, Xianglan;Chen, Lin;Tian, Xingyou	285			
87	Surface/Interface Modulation Enhanced Photogenerated Carrier Separation and Transfer of Bismuth-Based Catalysts	Progress In Chemistry	10.7536/PC220939	Ding, Jianjun	35	4	509	518

88	TiO2 compact layer induced charge transfer enhancement in a three-dimensional TiO2-Ag array SERS substrate for quantitative and multiplex analysis	Rsc Advances	10.1039/d3ra00094j	Jiang, Changlong	13	12	8270	8280
89	Pt nanoparticle dispersed Ni(OH)(2) nanosheets via a pulsed laser deposition method efficiently enhanced hydrogen evolution reaction performance in alkaline conditions	Rsc Advances	10.1039/d3ra00340j	Zhao, Zhong; Zhang, Shengbo; Jin, Meng; Zhang, Haimin	13	20	13840	
90	The volatile release evaluation of nicotine from snus products under different storage conditions based on surface-enhanced Raman spectroscopy technology	Rsc Advances	10.1039/d3ra03977c	Tian, Yongfeng; Tang, Xianghu; Huang, Xingjiu	13	33	23130	23137
91	Ultra-robust icephobic coatings with high toughness, strong substrate adhesion and self-healing capability	Science China-Materials	10.1007/s40843-022-2340-9	Zhuo, Yizhi				
92	Centrifugation assembly proceeded tube-based SERS sensor for field-deployable solution detection	Sensors And Actuators B: Chemical	10.1016/j.snb.2022.132982	Chen, Bin; Huang, Zhulin	376			
93	Engineering Multiple Microstructural Defects for Record-Breaking Thermoelectric Properties of Chalcopyrite Cu1-xAgxGaTe2	Small	10.1002/sml.202206865	Zhang, Jian				
94	Nanoclusterzyme for Dual Colorimetric Sensings: A Case Study on [Au-14(Dppp)(5)I-4](2+)	Small	10.1002/sml.202207936	Zhao, Hongliang; You, Qing; Zhu, Wanli; Li, Man-Bo; Zhao, Yan; Wu, Zhikun				
95	Binder-Free LiMn2O4 Nanosheets on Carbon Cloth for Selective Lithium Extraction from Brine via Capacitive Deionization	Small	10.1002/sml.202306530	Ma, Guangqiang; Xu, Yingsheng; Mao, Hengjian; Zhang, Xinyuan; Zhou, Hongjian				
96	Building Block Metal Nanocluster-Based Growth in 1D Direction	Small	10.1002/sml.202305556	Qiao, Yao; Zou, Jiafeng; Fei, Wenwen; Fan, Wentao; You, Qing; Zhao, Yan; Li, Man-Bo; Wu, Zhikun				
97	Liquid-Metal-Assisted Synthesis of Patterned GaN Thin Films for High-Performance UV Photodetectors Array	Small Methods	10.1002/smt.202300175	Chen, Jiawang; Li, Liang; Shi, Dongfeng				
98	Functional 1,3-DTu Additive in Perovskite Layer for Stable Triple-Cation Perovskite Solar Cells with Efficiency Exceeding 23%	Solar Rrl	10.1002/solr.202300810	Chen, Chong				
99	Lotus leaf mastoid inspired Ag micro/nanoarrays on PDMS film as flexible SERS sensor for in-situ analysis of pesticide residues on nonplanar surfaces	Spectrochimica Acta Part A-Molecular And Biomolecular Spectroscopy	10.1016/j.saa.2022.122211	Jiang, Changlong	288			
100	Surface enlargement of tantalum capacitor foils by pulsed direct current etching and laser cladding	Surface & Coatings Technology	10.1016/j.surfcoat.2023.129693	Zhang, Shudong; Liu, Cui; Zhao, Jun; Kong, Mingguang; Li, Nian; Wang, Zhenyang/Zhang, Shudong; Liu, Cui; Zhao, Jun; Hong, Na; Li, Zhao; Song, Yanping; Kong, Mingguang; Li, Nian; Wang, Zhenyang	467			
101	A robust rationally designed multinarydouble perovskites microplates as an efficient visible-light photocatalyst	Surfaces And Interfaces	10.1016/j.surfin.2023.102794	Ali, Sarmad; Nian, Li; Wang, Zhenyang	38			

102	Passivation mechanism of the perovskite upper interface based on MAPbBr ₃ quantum dots for efficient and stable perovskite solar cells	Sustainable Energy & Fuels	10.1039/d3se00740e	Chen, Chong	20		5057	5065
103	Cationic fluorescent carbon dots with solution ultra-stability and its rapid/ on-site sensing application for HClO	Talanta	10.1016/j.talanta.2023.125137	Li, Lingfei; Zhao, Jun; Liu, Bianhua; Yang, Liang				
104	Enhancement on the hardness and oxidation resistance property of TiN/Ag composite films for high temperature applications by addition of Si	Vacuum	10.1016/j.vacuum.2022.111752	Yang, Junfeng	209			