

## 固体所2022年第一署名单位论文

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1	Ultra-long spin relaxation in two-dimensional ferromagnet Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> flake	2D Materials	10.1088/2053-1583/ac2ab3	Sun, Tao; Zhou, Chun; Jiang, Zhongzhu; Li, Xiaoming; Qiu, Kang; Xiao, Ruichun; Liu, Caixing; Ma, Zongwei; Luo, Xuan; Sun, Yuping; Sheng, Zhigao	8	4		
2	Adjustable Synthesis of Ni-Based Metal-Organic Framework Membranes and Their Field-Effect Transistor Sensors for Mercury Detection	Acs Applied Electronic Materials	10.1021/acsaem.1c01009	Shen, Shuyang; Luo, Yuanyuan	4	2	622	630
3	Particle Size and Particle-Size Distribution Effects on Li <sup>+</sup> Extraction/Insertion Kinetics for Li-Rich Mn-Based Oxides	Acs Applied Energy Materials	10.1021/acsaem.1c01941	Fang, Zhitang; Li, Wanyun; Zhao, Bangchuan; Bai, Jin; Li, Kunzhen; Ma, Hongyang; Zhu, Xuebin; Sun, Yuping	4	10	10986	10997
4	A Precise BSA Protein Template Developed the C, N, S Co-Doped Fe <sub>3</sub> O <sub>4</sub> Nanolayers as Anodes for Efficient Lithium-Ion Batteries	Acs Applied Energy Materials	10.1021/acsaem.2c01971	Tao, Tongxiang; Xu, Shuai; Bai, Jin; Rehman, Sajid ur; Wang, Peiyao; Zhao, Xianglong; Chen, Ruiguo; Xu, Huangtao; Bi, Hong; Zhao, Bangchuan; Ma, Kun; Wang, Junfeng	5	8	10254	10263
5	Interfacial Engineering of the Platinum/Molybdenum Disulfide/graphitic Carbon Nitride Composite for Enhanced Photocatalytic Hydrogen Production	Acs Applied Energy Materials	10.1021/acsaem.2c01292	Ding, Jianjun; Song, Lili; Li, Xiangyang; Chen, Lin; Li, Xiaoxiao; Sun, Jun; Zhang, Xian; Wang, Yuqiao; Tian, Xingyou	5	7	8800	8811
6	High Thermoelectric Performance of Cu <sub>3</sub> SbSe <sub>4</sub> Obtained by Synergistic Modulation of Power Factor and Thermal Conductivity	Acs Applied Energy Materials	10.1021/acsaem.2c03006	Ai, Li; Ming, Hongwei; Chen, Tao; Chen, Ke; Zhang, Jian; Qin, Xiaoying; Li, Di/Zhang, Jinhua				
7	Simultaneous Separation and Recovery of Gold and Copper from Electronic Waste Enabled by an Asymmetric Electrochemical System	Acs Applied Materials & Interfaces	10.1021/acsaem.1c24822	Ye, Mengxiang; Li, Huaimeng; Zhang, Xi; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia				
8	Intermediate-Phase-Modified Crystallization for Stable and Efficient CsPbI <sub>3</sub> Perovskite Solar Cells	Acs Applied Materials & Interfaces	10.1021/acsaem.2c04308	Zhu, Liangzheng/Zhang, Liying; Guo, Tianle; Liu, Boyuan; Du, Du; Xu, Shendong; Pan, Xu; Liu, Guozhen	14	17	19614	19622

9	Intercalation Reaction in Amorphous Layer-Wrapped Ni <sub>0.2</sub> Mo <sub>0.8</sub> N/Ni <sub>3</sub> N Heterostructure Toward Efficient Lithium-Ion Storage	Acs Applied Materials & Interfaces	10.1021/acsami.2c10781	Wang, Peiyao; Bai, Jin; Zhao, Bangchuan; Ma, Hongyang; Li, Wanyun; Zhu, Xuebin; Sun, Yuping				
10	Efficient SERS Response of Porous-ZnO-Covered Gold Nanoparticle Chips to Trace Benzene-Volatile Organic Compounds	Acs Applied Materials & Interfaces	10.1021/acsami.2c11682	Zhao, Zhipeng; Bao, Haoming; Zhao, Qian; Fu, Hao; Zhou, Le; Zhang, Hongwen; Li, Yue; Cai, Weiping				
11	Ag Nanoparticle-Coated Polystyrene Microspheres for Electromagnetic Interference Shielding Films with Low Metal Content	Acs Applied Nano Materials	10.1021/acsanm.2c00315	Cheng, Hua; Zhang, Wei; Pan, Rui; Li, Zhe; Gong, Yi; Wang, Fangkuo; Hu, Rui; Ding, Jianjun; Zhang, Xian; Lin, Chen; Tian, Xingyou	5	4	5292	5301
12	Single-Phase Organic-Inorganic Hybrid Nanoparticles for Warm-White Lighting	Acs Applied Nano Materials	10.1021/acsanm.2c01430	Fei, Guang Tao; Huang, Jianyong; De Zhang, Li/Wu, Honge; Fei, Guang Tao; Huang, Jianyong; De Zhang, Li/Wu, Honge				
13	Gold-Modified Mo <sub>2</sub> C Nanoparticles Supported on Nitrogen-Doped Carbon Nanotubes for Electrochemical Nitrogen Fixation	Acs Applied Nano Materials	10.1021/acsanm.2c00379	Lv, Jiali;Hu, Taiping;Li, Wenyi;Ye, Yixing;Liu, Jun;Li, Pengfei;Zhang, Haimin;Liang, Changhao	5	5	7382	7391
14	VO <sub>2</sub> @SiO <sub>2</sub> Nanoparticle-Based Films with Localized Surface Plasmon Resonance for Smart Windows	Acs Applied Nano Materials	10.1021/acsanm.2c02788	Du, Zengyan; Li, Ming; Zou, Fengxia; Song, Yi; Xu, Sichao; Wu, Liangfei; Li, Liang; Li, Guanghai	5	9	12972	12979
15	Blue Carbon Dot-Based Portable Smartphone Platform for Visualization of Copper(II)	Acs Applied Nano Materials	10.1021/acsanm.2c01595	Li, Xingzhen; Pan, Lei; Yang, Fan; Yang, Liang	5	7	9252	9259
16	Na <sub>y</sub> WO <sub>3</sub> -xNanosheet Array via In Situ Na Intercalation for Surface-Enhanced Raman Scattering Detection of Methylene Blue	Acs Applied Nano Materials	10.1021/acsanm.2c00862	Tang, Zihui;Wang, Dongran;Chen, Bin;Huo, Dexian;Wang, Xiujuan;Tang, Haibin;Meng, Guowen	5	6	7841	7849
17	Mixed-Phase Low-Dimensional Perovskite-Assisted Interfacial Lead Directional Management for Stable Perovskite Solar Cells with Efficiency over 24%	Acs Energy Letters	10.1021/acsenergylett.1c01878	Liu, Guozhen; Zheng, Haiying; Ye, Jiajiu; Xu, Shendong; Zhang, Liying; Xu, Huifen; Liang, Zheng; Chen, Xiaojing; Pan, Xu	6	12	4395	4404
18	Resonant Molecular Modification for Energy Level Alignment in Perovskite Solar Cells	Acs Energy Letters	10.1021/acsenergylett.2c01537	Niu, Yunjuan;Peng, Yaole;Hu, Linhua	7	9	3104	3111

19	Identifying the Intermediate Free-Carrier Dynamics Across the Charge Separation in Monolayer MoS <sub>2</sub> /ReSe <sub>2</sub> Heterostructures	Acs Nano	10.1021/acsnano.1c06822	Yang, Jin; Jiang, Shaolong; Xie, Jiafeng; Jiang, Huachao; Xu, Shujuan; Zhang, Kai; Shi, Yuping; Zhang, Yanfeng; Zeng, Zhi; Fang, Guangyou; Wang, Tianwu; Su, Fuhai	15	10	16760	16768
20	Controlled Transformation of Liquid Metal Microspheres in Aqueous Solution Triggered by Growth of GaOOH	Acs Omega	10.1021/acsomega.1c06897	Li, Xiaofei; Ding, Xin; Du, Yuhang; Xiao, Chao; Zheng, Kang; Liu, Xianglan; Tian, Xingyou; Zhang, Xian	7	9	7912	7919
21	Chemical Interface Damping-Induced Attenuation of Surface Plasmon-Enhanced Raman Spectroscopy	Acs Photonics	10.1021/acsp Photonics.2c00685	Zhu, Shuyi; Zhao, Qian; Fu, Hao; Zhang, Hongwen; Bao, Haoming; Le, Zhou; Zhang, Tao; Li, Yue; Cai, Weiping	9	9	3000	3011
22	Light Up Fluorescence Visual Sensitive Detection of Organophosphorus with a Smartphone-Based Platform Utilizing a Composite Rhodamine B-Ag@Au Nanoprobe	Acs Sustainable Chemistry & Engineering	10.1021/acssuschemeng.1c05544	Lin, Dan; Li, Lingfei; Song, Xin; Xu, Shihao; Zhang, Qianru; Hu, Zhong; Yang, Liang; Jiang, Changlong	9	43	14579	14587
23	Hierarchical microstructures enabled excellent low-temperature strength-ductility synergy in bulk pure tungsten	Acta Materialia	10.1016/j.actamat.2022.117765	Xie, X.F.; Xie, Z.M.; Liu, R.; Fang, Q.F.; Liu, C.S.; Wu, Xuebang	228			
24	Excellent high-temperature strength and ductility of the ZrC nanoparticles dispersed molybdenum	Acta Materialia	10.1016/j.actamat.2022.117725	Jing, K.; Liu, R.; Xie, Z.M.; Ke, J.G.; Wang, X.P.; Fang, Q.F.; Liu, C.S.; Wu, X.B.	227			
25	Ultrasonic Emulsification Preparation of Metallic Rubidium Sol and Its Ignition Performance	Acta Metallurgica Sinica	10.11900/0412.1961.2021.00001	Guo Yujing; Bao Haoming; Fu Hao; Zhang Hongwen; Cai Weiping	58	6	792	798
26	Ultralow Lattice Thermal Conductivity and High Thermoelectric Figure of Merit in Dually Substituted Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub> Tetrahedrites	Advanced Electronic Materials	10.1002/aelm.202200110	Zhu, Chen; Ming, Hongwei; Zhang, Jian; Li, Di; Chen, Tao; Qin, Xiaoying	8	10		
27	Unexpected Redispersion Effect of Au Nanoclusters for Enormous Enhancement of Electrocatalytic Stability and Activity	Advanced Functional Materials	10.1002/adfm.202209283	Xiao, Xiang-Yu; Song, Zong-Yin; Zhao, Yong-Huan; Chen, Shi-Hua; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu/Xiao, Xiang-Yu; Song, Zong-Yin; Zhao, Yong-Huan; Chen, Shi-Hua; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu				
28	A Selective Targeting Anchor Strategy Affords Efficient and Stable Ideal-Bandgap Perovskite Solar Cells	Advanced Materials	10.1002/adma.202110241	Liang, Zheng; Xu, Huifen; Liu, Guozhen; Tao, Yuli; Xu, Xiaoxiao; Xu, Shendong; Zhang, Liying; Chen, Xiaojing; Pan, Xu; Ye, Jiajiu	34	18		

29	Biaxially Strained MoS <sub>2</sub> Nanoshells with Controllable Layers Boost Alkaline Hydrogen Evolution	Advanced Materials	10.1002/adma.202202195	Zhang, Tao; Yu, Jie; Li, Yue	34	27		
30	Microporous-Ceria-Wrapped Gold Nanoparticles for Conductometric and SERS Dual Monitoring of Hazardous Gases at Room Temperature	Advanced Materials Interfaces	10.1002/admi.202102107	Bao, Haoming; Guo, Yujing; Zhang, Tao; Fu, Hao; Zhu, Shuyi; Zhou, Le; Zhang, Hongwen; Li, Yue; Cai, Weiping	9	9		
31	Transition Metal Nitrides in Lithium- and Sodium-Ion Batteries: Recent Progress and Perspectives	Advanced Materials Interfaces	10.1002/admi.202200606	Wang, Peiyao; Zhao, Bangchuan; Bai, Jin; Tong, Peng; Zhu, Xuebin; Sun, Yuping	9	24		
32	Double-Carbon-Layer Coated Na <sub>4</sub> MnV(PO <sub>4</sub> ) <sub>3</sub> Towards High-Performance Sodium-Ion Full Batteries	Advanced Materials Interfaces	10.1002/admi.202201386	Ma, Hongyang; Bai, Jin; Wang, Peiyao; Li, Wanyun; Mao, Yunjie; Xiao, Ke; Zhu, Xuebin; Zhao, Bangchuan; Sun, Yuping/Sun, Yuping	9	30		
33	p-Type Near-Infrared Transparent Delafossite Thin Films with Ultrahigh Conductivity	Advanced Optical Materials	10.1002/adom.202102559	Zheng, Jinxing/Sun, Yuping/Li, Chenhui; Wei, Renhuai; Cheng, Wangping; Hu, Ling; Song, Wenhai; Zhu, Xuebin; Sun, Yuping				
34	Sulfur Vacancies-Triggered High SERS Activity of Molybdenum Disulfide for Ultrasensitive Detection of Trace Diclofenac	Advanced Optical Materials	10.1002/adom.202201395	Quan, Yingnan; Tang, Xiang-Hu; Shen, Wei; Li, Peihua; Yang, Meng; Huang, Xing-Jiu; Liu, Wen-Qing				
35	Phonon-Related Monochromatic THz Radiation and its Magneto-Modulation in 2D Ferromagnetic Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub>	Advanced Science	10.1002/advs.202103229	Cheng, Long; Li, Huiping; Lin, Gaoting; Yan, Jian; Zhang, Lei; Yang, Cheng; Tong, Wei; Ren, Zhuang; Zhu, Wang; Cong, Xin; Gao, Jingjing; Tan, Pingheng; Luo, Xuan; Sun, Yuping; Zhu, Wenguang; Sheng, Zhigao				
36	Tungsten Nanoparticles Accelerate Polysulfides Conversion: A Viable Route toward Stable Room-Temperature Sodium-Sulfur Batteries	Advanced Science	10.1002/advs.202105544	Liu, Yuping; Bettels, Frederik; Lin, Zihua; Li, Taoran; Pfnür, Herbert; Ding, Fei; Zhang, Lin	9	11		
37	Phonon-Related Monochromatic THz Radiation and its Magneto-Modulation in 2D Ferromagnetic Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub>	Advanced Science	10.1002/advs.202103229	Cheng, Long; Zhang, Lei; Tong, Wei; Ren, Zhuang; Zhu, Wang; sun, Yuping; Sheng, Zhigao/Lin, Gaoting; Yan, Jian; Yang, Cheng; Gao, Jingjing; Luo, Xuan; sun, Yuping	9	1		

38	Hydrogen Peroxide Assisted Electrooxidation of Benzene to Phenol over Bifunctional Ni-(O-C-2)(4) Sites	Advanced Science	10.1002/advs.202204043	Zhang, Shengbo; Jin, Meng; Xu, Hui; Li, Wenyi; Ye, Yixing; Shi, Tongfei; Zhou, Hongjian; Chen, Chun; Wang, Guozhong; Zhang, Yunxia; Zhang, Haimin				
39	Assembling of anisotropic plasmonic sheet-core-satellites for simultaneous ultrasensitive detection of MC-LR toxin	Analyst	10.1039/d1an01524a	Zhang, ZhiHang; Wang, Jin	146	22	7005	7020
40	Enhanced electrochemical sensing performance for trace Hg(II) by high activity of Co <sup>3+</sup> on Co <sub>3</sub> O <sub>4</sub> -NP/N-RGO surface	Analytica Chimica Acta	10.1016/j.aca.2022.339607	Xie, Feng; Yang, Meng; Huang, Xing-Jiu; Liu, Wen-Qing; Xie, Pin -Hua/Song, Zong-Yin; Yang, Meng/Xie, Feng; Yang, Meng; Huang, Xing-Jiu; Liu, Wen-Qing; Xie, Pin -Hua	1200			
41	Au-25 Nanoclusters Exhibit Superhigh Catalytic Activity in Electrochemical Detection of As(III)	Analytical Chemistry	10.1021/acs.analchem.1c03748	Xiao, Xiang-Yu; Song, Zong-Yin; Li, Pei-Hua; Chen, Shi-Hua; Li, Li-Na; Yang, Meng; Lin, Chu-Hong; Huang,	93	41	14014	14023
42	Portable Smartphone Platform Based on a Single Dual-Emissive Ratiometric Fluorescent Probe for Visual Detection of Isopropanol in Exhaled Breath	Analytical Chemistry	10.1021/acs.analchem.1c03280	Yang, Fan; Lin, Dan; Pan, Lei; Zhu, Jiawei; Shen, Jianjun; Yang, Liang; Jiang, Changlong	93	43	14506	14513
43	Highly Sensitive and Stable Determination of As(III) under Near-Neutral Conditions: Benefit from the Synergetic Catalysis of Pt Single Atoms and Active S Atoms over Pt-1/MoS <sub>2</sub>	Analytical Chemistry	10.1021/acs.analchem.1c03416	Li, Pei-Hua; Yang, Meng; Song, Zong-Yin; Chen, Shi-Hua; Xiao, Xiang-Yu; Lin, Chu-Hong; Huang, Xing-Jiu	93	45	15115	15123
44	Chromaticity Evolutionary Detection of Food Contaminant Semicarbazide through an Upconversion Luminescence-Based Nanosensor	Analytical Chemistry	10.1021/acs.analchem.1c04207	Zhu, Jiawei; Shen, Jianjun; Hu, Bin; Yang, Liang; Jiang, Changlong/Yang, Liang; Jiang, Changlong	94	2	1126	1134
45	A Portable Sensing Platform Using an Upconversion-Based Nanosensor for Visual Quantitative Monitoring of Mesna	Analytical Chemistry	10.1021/acs.analchem.2c00380	Hu, Bin; Zhu, Jiawei; Shen, Jianjun; Yang, Liang; Jiang, Changlong/Yang, Liang; Jiang, Changlong	94	21	7559	7566
46	Sensing Material-Dependent Interference of Multiple Heavy Metal Ions: Experimental and Simulated Thermodynamics Study on Cu(II), Cd(II), and As(III) Electroanalysis	Analytical Chemistry	10.1021/acs.analchem.1c05617	Song, Zong-Yin; Xiao, Xiang-Yu; Chen, Shi-Hua; Li, Yong-Yu; Yang, Yuan-Fan; Huang, Cong-Cong; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu	94	16	6225	6233

47	General Strategies to Construct Highly Efficient Sensing Interfaces for Metal Ions Detection from the Perspective of Catalysis	Analytical Chemistry	10.1021/acs.analchem.2c01797	Xiao, Xiang-Yu; Zhao, Yong-Huan; Song, Zong-Yin; Chen, Shi-Hua; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu/Xiao, Xiang-Yu; Zhao, Yong-Huan; Song, Zong-Yin; Chen, Shi-Hua; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu				
48	Engineering Electron-Rich Sites on CoSe <sub>2-x</sub> Nanosheets for the Enhanced Electroanalysis of As(III): A Study on the Electronic Structure via X-ray Absorption Fine Structure Spectroscopy and Density Functional Theory Calculations	Analytical Chemistry	10.1021/acs.analchem.1c04785	Chen, Shi-Hua; Song, Zong-Yin; Xiao, Xiang-Yu; Yang, Yuan-Fan; Li, Pei-Hua; Yang, Meng; Huang, Xing-Jiu	94	7	3211	3218
49	Thiolated, Reduced Palladium Nanoclusters with Resolved Structures for the Electrocatalytic Reduction of	Angewandte Chemie-International Edition	10.1002/anie.202208751	Zhuang, Shengli; You, Qing; Fan, Wentao; Wu, Zhikun	61	46		
50	Topological Quantum Phase Transitions of Anisotropic Antiferromagnetic Kitaev Model	Annalen Der Physik	10.1002/andp.202200012	Jia, Shi-Qing; Quan, Ya-Min; Zou, Liang-Jian	534	6		
51	Hollow carbon sphere encapsulated nickel nanoreactor for aqueous-phase hydrogenation-rearrangement tandem reaction with enhanced catalytic performance	Applied Catalysis B: Environmental	10.1016/j.apcatb.2022.121140	Hu, Zhi; Chen, Chun; Zou, Zidan; Shen, Yue; Fu, Zhen; Zhu, Xiaoguang; Zhang, Yunxia; Zhang, Haimin; Zhao, Huijun; Wang, Guozhong	306			
52	Heteroepitaxial and homoepitaxial nucleation strategies to grow Sb <sub>2</sub> S <sub>3</sub> nanorod arrays and therefrom a derived gain of 7.18%-efficient Sb <sub>2</sub> (S,Se) <sub>3</sub> quasi-nanoarray heterojunction solar	Applied Materials Today	10.1016/j.apmt.2022.101487	Liu, Rong; Dong, Chao; Zhu, Liangxin; Chen, Junwei; Huang, Jia; Cao, Wenbo; Zhang, Xueqiang; Ge, Chengfeng; Wang, Mingtai	27			
53	Pressure-induced two-dimensional to three-dimensional structural phase transition in 2H-type layered lead iodide PbI <sub>2</sub>	Applied Physics Letters	10.1063/5.0081461	Ding, Junfeng; Cheng, Peng; Ye, Tingting; Xu, Wan; Zeng, Hong; Yao, Deyuan; Pan, Xiaomei; Zhang, Jie	120	5		
54	Semiconductor-metal transition in lead iodide under pressure	Applied Physics Letters	10.1063/5.0095525	Cheng, Peng; Wang, Yunfeng; Ye, Tingting; Chu, Lingqiao; Yang, Jin; Zeng, Hong; Yao, Deyuan; Pan, Xiaomei; Zhang, Jie; Jiang, Huachao; Su, Fuhai;	120	21		
55	Enhancing the performances of V <sub>2</sub> O <sub>3</sub> thin films as p-Type transparent conducting oxides via compressive	Applied Physics Letters	10.1063/5.0099445	Zhu, M.; Zhang, G.D.; Hu, L.; Wei, R.H.; Song, W.H.; Zhu, X.B.; Sun, Y.P./Zhang, R.R.; Sun, Y.P.	121	6		

56	Thermoelectric properties of hole-doped CuRhO <sub>2</sub> thin films	Applied Physics Letters	10.1063/5.0116562	Cheng, W. P.; He, Y. D.; Wei, R. H.; Hu, L.; Song, W. H.; Zhu, X. B.; Sun, Y. P./Sun, Y. P.	121	17		
57	Simulation and experimental studies of the dissolution corrosion of 4H-SiC in liquid Pb/Bi	Applied Surface Science	10.1016/j.apsusc.2022.152686	Lei, Yawei; Zhang, Yange; Li, Xiangyan; Xu, Yichun; Wu, Xuebang; Sun, Meng; Liu, Changsong	585			
58	He <sup>2+</sup> irradiation induced microstructure evolution in sub-surface layer of the coarse-grained tungsten accessed by synchrotron GIXRD and	Applied Surface Science	10.1016/j.apsusc.2022.153461	Huang, W.J.; Sun, M.; Yang, J.F.; Xie, Z.M.; Liu, R.; Wang, X.P.; Wu, X.B.; Liu, C.S.; Fang, Q.F.	593			
59	Reinforced structural stability of Li-rich Mn-based cathodes by constructing multifunctional heterostructure using Nb-based	Applied Surface Science	10.1016/j.apsusc.2022.153910	Li, Wanyun; Zhao, Bangchuan; Bai, Jin; Ma, Hongyang; Wang, Peiyao; Mao, Yunjie; Lin, Shuai; Zhu, Xiaoguang; Zhu, Xuebin	599			
60	Influence of silicon carbide nanowires on the properties of Bi-B-Si-Zn-Al glass based low temperature co-fired ceramics	Ceramics International	10.1016/j.ceramint.2022.05.212	Zhang, Lan; Yang, Shuquan; Xiao, Meihui; Chen, Lin; Sun, Jun; Ding, Jianjun; Li, Xiaoxiao; Gong, Yi; Zheng, Kang; Zhang, Xian; Tian, Xingyou	48	17	25382	25389
61	In situ growth of MOFs on Ni(OH) <sub>2</sub> for efficient electrocatalytic oxidation of 5-hydroxymethylfurfural	Chemical Communications	10.1039/d1cc04680b	Wang, Dongdong; Gong, Wanbing; Zhang, Jifang; Wang, Guozhong; Zhang, Haimin; Zhao, Huijun	57	86	11358	11361
62	Pt-Modified MoO <sub>3</sub> catalyst for the electrochemically selective C = O hydrogenation of cinnamaldehyde	Chemical Communications	10.1039/d2cc01527g	Wang, Jialu; Jin, Meng; Zhang, Haimin	58	47	6721	6724
63	Bonding interaction regulation in hydrogel electrolyte enable dendrite-free aqueous zinc-ion batteries from –	Chemical Engineering Journal	10.1016/j.cej.2022.134646	Wei, Tingting; Li, Zhaoqian; Hu, Linhua	434			
64	New insights into nanostructure/functionality-dependent catalysis of pollutants by arc-designing graphite-encapsulated silver	Chemical Engineering Journal	10.1016/j.cej.2021.132774	Wang, Tianhui; Zhao, Yonghui; Hu, Rui; Ding, Jianjun; Gong, Yi; Tian, Xingyou	430			
65	Porous $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> gas sensor with instantaneous attenuated response toward triethylamine and its reaction	Chemical Engineering Journal	10.1016/j.cej.2021.131631	Wang, Hong; Luo, Yuanyuan; Li, Ke; Liu, Bo; Gao, Lei	427			
66	In-situ growth of zero-valent iron in FeOx/Mn <sub>3</sub> O <sub>4</sub> to improve the surficial redox for high-efficient electrocatalysis of Pb(II)	Chemical Engineering Journal	10.1016/j.cej.2021.132959	Chen, Shi-Hua; Li, Pei-Hua; Yang, Meng; Huang, Xing-Jiu	430			

67	Guanidinium-assisted crystallization modulation and reduction of open-circuit voltage deficit for efficient planar FAPbBr <sub>3</sub> perovskite solar cells	Chemical Engineering Journal	10.1016/j.cej.2022.135181	Zhu, Liangzheng/Xu, Huifen; Liang, Zheng; Ye, Jiajiu; Xu, Shendong; Wang, Zihan; Chen, Xiaojing; Pan, Xu; Liu, Guozhen	437			
68	Direct growth of porous vanadium nitride on carbon cloth with commercial-level mass loading for solid-state supercapacitors	Chemical Engineering Journal	10.1016/j.cej.2022.136597	Wu, Ziqiang;Li, Han;Li, Hui;Yang, Bingbing;Wei, Renhuai;Zhu, Xiaoguang;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	444			
69	Improving capacitive deionization performance by using O <sub>2</sub> plasma modified carbon black	Chemical Engineering Journal	10.1016/j.cej.2022.138530	Cao, Ruya;Zhou, Jian;Wang, De;Zhang, Jianfeng;Zhang, Yingzi;Li, Jiaying/Zhou, Hongjian	451			
70	A boric acid functional multi-emission metal organic frameworks-based fluorescence sensing platform for visualization of gallic acid	Chemical Engineering Journal	10.1016/j.cej.2022.138283	Pan, Lei;Li, Xingzhen;Zhang, Qipeng;Xu, Shihao;Yang, Liang;Yang, Fan;Jiang, Changlong/Xu, Shihao;Yang, Liang;Yang, Fan;Jiang, Changlong	450			
71	Band Engineering SnTe via Trivalent Substitutions for Enhanced Thermoelectric Performance	Chemistry Of Materials	10.1021/acs.chemmater.1c03198	Zhang, Xuemei; Wang, Zhongyi; Zou, Bo; Brod, Madison K.; Zhu, Jianbo; Jia, Tiantian; Tang, Guodong; Snyder, G. Jeffrey; Zhang, Yongsheng				
72	Seaweed-derived hierarchically porous carbon for highly efficient removal of tetracycline	Chinese Journal Of Chemical Physics	10.1063/1674-0068/cjcp2009154	Qin, Wen-Xiu;Wang, Guo-Zhong;Zhang, Hai-Min;Zhang, Yun-Xia	35	3	578-588	
73	Synthesis of ternary compound in H-S-Se system at high pressures*	Chinese Physics B	10.1088/1674-1056/abf7aa	Zhang, Xiao	30	12		
74	Growth, characterization, and Raman spectra of the 1 T phases of TiTe <sub>2</sub> , TiSe <sub>2</sub> , and TiS <sub>2</sub>	Chinese Physics B	10.1088/1674-1056/ac306a	Tang, Xiao-Fang;Xu, Wen	31	3		
75	Raman spectroscopy investigation on the pressure-induced structural and magnetic phase transition in two-dimensional antiferromagnet FePS <sub>3</sub>	Chinese Physics B	10.1088/1674-1056/ac5a41	Zeng, Hong;Ye, Tingting;Cheng, Peng;Yao, Deyuan;Ding, Junfeng	31	5		
76	Onion-structured transition metal dichalcogenide nanoparticles by laser fabrication in liquids and atmospheres	Chinese Physics B	10.1088/1674-1056/ac539c	Zhou, Le;Zhang, Hongwen;Zhao, Qian;Cai, Weiping	31	7		
77	Effects of oxygen concentration and irradiation defects on the oxidation corrosion of body-centered-cubic iron surfaces: A first-principles study	Chinese Physics B	10.1088/1674-1056/ac633c	Ye, Zhiqiang;Lei, Yawei;Zhang, Jingdan;Zhang, Yange;Li, Xiangyan;Xu, Yichun;Wu, Xuebang;Liu, C.S.	31	8		



78	Epitaxial Bi(2)Sr(2)CuO <sub>y</sub> thin films as p-type transparent conductors	Chinese Physics B	10.1088/1674-1056/ac67ca	Zhou, Chen; Cheng, Wang-Ping; He, Yuan-Di; Shao, Cheng; Hu, Ling; Wei, Ren-Huai; Song, Wen-Hai; Zhu, Xue-Bin; Sun, Yu-Ping/Qin, Jing-Gang/Sun,	31	10		
79	Photothermal-chemical synthesis of P-S-H ternary hydride at high pressures	Chinese Physics B	10.1088/1674-1056/ac5604	Ye, Tingting; Zeng, Hong; Cheng, Peng; Yao, Deyuan; Pan, Xiaomei; Zhang, Xiao; Ding, Junfeng	31	6		
80	Dual-functional antireflection and down-shifting coating for Si solar cells	Colloids And Surfaces A-Physicochemical And Engineering	10.1016/j.colsurfa.2022.129907	Huang, Jian Yong; Wang, Yu; Fei, Guang Tao; Xu, Shao Hui; Wang, Biao; Zeng,	652			
81	A controllable gradient structure of hydrophobic composite fabric constructed by silver nanowires and polyvinylidene fluoride microspheres for electromagnetic interference shielding	Composites Part A: Applied Science And Manufacturing	10.1016/j.compositesa.2022.106884	Jia, Li;Ding, Xin;Sun, Jun;Zhang, Xian;Tian, Xingyou	156			
82	A novel three-dimensional boron phosphide network for thermal management of epoxy composites	Composites Part B: Engineering	10.1016/j.compositesb.2022.109662	He, Jing;Wang, Hua;Gong, Yi;Tian, Xingyou	233			
83	Electromagnetic interference shielding epoxy composites with satisfactory thermal conductivity and electrical insulation performance enabled by low-melting-point alloy layered structure	Composites Part B: Engineering	10.1016/j.compositesb.2022.109611	Zhang, Ping;Zhang, Xian;Ding, Xin;Wang, Yanyan;Xiao, Chao;Zheng, Kang;Liu, Xianglan;Chen, Lin;Tian, Xingyou	232			
84	Giant Piezoelectric Coefficient in Lead-Free BiFe <sub>0.975</sub> Ti <sub>0.025</sub> O <sub>3</sub> -CaTiO <sub>3</sub> Solid Solution Thin Films	Crystal Growth & Design	10.1021/acs.cgd.1c00697	Shu, Mingfang; Yang, Bingbing; Liu, Miao; Zhu, Shunjin; Li, Sumei; Pan, Chengbing; Wang, Jiamingzhu; Yin, Lihua; Yang, Jie; Zhu, Xuebin; Sun,	21	11	6230	6236
85	Orientations-Dependent Metal-to-Insulator Transition in Solution-Deposited High-Entropy Nickelate	Crystal Growth & Design	10.1021/acs.cgd.2c00945	Hu, Ling; Zhu, Xiaoguang; Zhu, Xuebin/Sun, Yuping				
86	Strain Profile in the Subsurface of He-Ion-Irradiated Tungsten Accessed by S-GIXRD	Crystals	10.3390/cryst12050691	Huang, Wenjie; Sun, Meng; Yang, Junfeng; Xie, Zhuoming; Liu, Rui; Wang, Xianping; Wu, Xuebang; Fang, Qianfeng; Liu, Changsong	12	5		
87	One-step fabrication of nitrogen-doped laser-induced graphene derived from melamine/polyimide for enhanced flexible supercapacitors	Crystengcomm	10.1039/d1ce01608c	Han, Shuai; Liu, Cui; Li, Nian; Zhang, Shudong; Song, Yanping; Chen, Liqing; Xi, Min; Yu, Xinling; Wang, Wenbo; Kong, Mingguang; Wang, Zhenyang	24	10	1866	1876

88	The influence of melt status and beta-nucleation agent distribution on the crystallization of isotactic polypropylene	Crystengcomm	10.1039/d1ce01660a	Chen, Pujing; Xu, Min; Li, Xiangyang; Han, Yu; Ding, Jianjun; Lin, Yongxing; Liu, Gang; Zhang, Xian; Chen, Lin; Tian, Xingyou				
89	Enhanced ferroelectric, piezoelectric and dielectric properties of (1-x)CaBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> -xBaZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> high-temperature piezoelectric	Current Applied Physics	10.1016/j.cap.2021.12.004	Pan, C.B.; Zhao, G.C.; Li, S.M.; Shu, M.F.; Wu, J.; Wang, J.M.Z.; Yin, L.H.; Song, W.H.; Zhu, X.B.; Yang, J.; Sun, Y.P./Sun, Y.P.	34		64	70
90	Selective sodium(I) capture by olivine FePO <sub>4</sub> @C electrode in pseudocapacitive deionization:	Desalination	10.1016/j.desal.2022.115931	Xiang, Shuhong; Xu, Yingsheng; Zhang, Xinyuan; Zhou, Hongjian	539			
91	A freestanding, hierarchically porous poly(imine dioxime) membrane enabling selective gold recovery from e-waste with unprecedented capacity	Ecomat	10.1002/eom2.12248	Li, Huaimeng; Ye, Mengxiang; Fu, Zhen; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia				
92	Highly sensitive electrochemical detection of Hg(II) promoted by oxygen vacancies of plasma-treated ZnO: XPS and DFT calculation	Electrochimica Acta	10.1016/j.electacta.2022.140757	Xie, Feng; Yang, Meng; Song, Zong-Yin; Huang, Xing-Jiu; Liu, Wen-Qing; Xie, Pin-Hua; Yang, Meng; Song, Zong-Yin; Chen, Shi-Hua; Li, Pei-Hua; Xiao,	426			
93	Influence of Guide Vane Slope on Axial-Flow Hydraulic Performance and Internal Flow Characteristics	Energies	10.3390/en15176103	Li, Yue; Song, Yiwei; Xia, Shengsheng; Li, Qiang	15	17		
94	Oxygen-deficient TiO <sub>2</sub> Yolk-shell Spheres for Enhanced Lithium Storage Properties	Energy And Environmental Materials	10.1002/eem2.12156	Li, Zhaoqian; Peng, Yuqi; Huang, Yang	5	1	238	244
95	Plastic behavior of the foam-filled sandwich beam with circular tube core under transverse loading	Engineering Structures	10.1016/j.engstruct.2022.14801	Zhao, Modi; Wang, Xingfu; Shi, Zimu; Liang, Juhua	268			
96	Plastic behavior of foam-filled negative Poisson's ratio beams	Engineering Structures	10.1016/j.engstruct.2022.15092	Zhao, Modi	273			
97	Stacking effects on the structure and magnetic properties of MoN <sub>2</sub>	Epl	10.1209/0295-5075/ac23eb	Liang, X.; Lv, H. Y.; Si, J. G.; Hong, Y. T.; Lu, W. J.; Sun, Y. P.	135	4		
98	Tailoring the morphology of CoNi alloy by static magnetic field for electromagnetic wave absorption	European Physical Journal Plus	10.1140/epjp/s13360-022-02680-0	ur Rehman, Sajid/Aslam, Muhammad Adnan; Li, Nian; Wang, Zhenyang/Aslam, Muhammad Adnan; Li, Nian; Wang, Zhenyang/Khan,	137	4		

99	Influence of doubly-hydrogenated oxygen vacancy on the TID effect of MOS devices	Frontiers In Materials	10.3389/fmats.2022.1010049	Lu, Guangbao; Liu, Jun; Zheng, Qirong; Li, Yonggang	9			
100	Core shell hetero-structured SiO <sub>2</sub> @Ni/SiO <sub>2</sub> catalyst for efficient aqueous-phase hydrogenation of bio-derived unsaturated compounds	Fuel	10.1016/j.fuel.2022.123694	Zou, Zidan; Chen, Chun; Hu, Zhi; Shen, Yue; Fu, Zhen; Li, Wenchao; Zhang, Yunxia; Zhang, Haimin; Zhao, Huijun; Wang, Guozhong	318			
101	Facile synthesis of N, P co-doped carbon encapsulated Ni catalyst for green production of cyclopentanone from biomass derivative furfural	Fuel	10.1016/j.fuel.2022.123815	Hu, Zhi; Chen, Chun; Zou, Zidan; Shen, Yue; Fu, Zhen; Zhang, Yunxia; Zhang, Haimin; Zhao, Huijun; Wang, Guozhong	319			
102	Effect of heat treatment on microstructure and mechanical property of ODS-CLAM-Zr steel	Fusion Engineering And Design	10.1016/j.fusengdes.2022.113310	Zhu, Gaofan; Bai, Yunfei; Wu, Yiheng; Huang, Qunying/Ming, Hongwei	184			
103	Novle layered boron nitride nanosheets/cellulose nanofibers/epoxy composite with high thermal	High Performance Polymers	10.1177/09540083211046456	Da, Yunsheng; He, Jing; Qu, Qiqi; Zhu, Menghan; Wang, Hua; Liu, Yanyan	34	1	87	94
104	Significantly enhanced thermally conductive epoxy composite composed of caterpillar-like structured expanded graphite/boron nitride nanotubes	High Performance Polymers	10.1177/09540083221106057	Zhu, Menghan; Xiao, Chao; Qu, Qiqi; Da, Yunsheng; Liu, Yanyan; Tian, Xingyou; Wang, Hua	34	9	1018	1027
105	Surface-Plasmon-Mediated Alloying for Monodisperse Au-Ag Alloy Nanoparticles in Liquid	Inorganic Chemistry	10.1021/acs.inorgchem.2c01975	He, Ningning; Wei, Shuxian; Hu, Taiping; Ye, Yixing; Cai, Yunyu; Liu, Jun; Li, Pengfei; Liang, Changhao	61	31	12449	12457
106	Quenching and Electrical Current Poling Effect on Improved Ferroelectric and Piezoelectric Properties in BiFeO <sub>3</sub> -Based High-	Inorganic Chemistry	10.1021/acs.inorgchem.2c01989	Wu, Jie; Zhao, Gaochao; Dong, Wei; Pan, Chengbing; Tao, Kun; Tong, Peng; Yang, Jie; Zhu, Xuebin; Yin, Lihua; Song, Wenhai/Sun, Yuping				
107	Electrochemical reduction of nitrate to ammonia in a fluidized electrocatalysis system with oxygen vacancy-rich CuOx nanoparticles	Inorganic Chemistry Frontiers	10.1039/d1qi01062j	Geng, Jing; Ji, Sihan; Xu, Hui; Zhao, Cuijiao; Zhang, Shengbo; Zhang, Haimin	8	24	5209	5213
108	Iron covalent doping in WB <sub>2</sub> to boost its hydrogen evolution activity	Inorganic Chemistry Frontiers	10.1039/d1qi01419f	Jin, Meng; Liu, Yanyan; Wang, Jialu; Zhang, Xian; Han, Miaomiao; Zhang, Yunxia; Wang, Guozhong; Zhang,				
109	Iron covalent doping in WB <sub>2</sub> to boost its hydrogen evolution activity	Inorganic Chemistry Frontiers	10.1039/d1qi01419f	Jin, Meng; Liu, Yanyan; Wang, Jialu; Zhang, Xian; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin	9	3	524	530

110	Enhancing the thermoelectric performance of n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> through the incorporation of Ag <sub>9</sub> AlSe <sub>6</sub> inclusions	Inorganic Chemistry Frontiers	10.1039/d2qi01232d	Chen, Tao; Ming, Hongwei; Qin, Xiaoying; Zhu, Chen; Chen, Yong; Ai, Li; Li, Di; Zhang, Yongsheng; Xin, Hongxing; Zhang, Jian	9	20	5386	5393
111	S-doping induced phase engineering of MoSe <sub>2</sub> for hydrogen evolution reaction	International Journal Of Hydrogen Energy	10.1016/j.ijhydene.2022.07.008	Li, Han;Zhu, Lili;Li, Changdian;Wu, Ziqiang;Li, Hui;Chen, Qian;Huang, Yanan;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	47	71	30371	30377
112	Strain effects on the behavior of intrinsic point defects within the GaN/AlN interface	International Journal Of Modern Physics C	10.1142/S0129183122501637	Yang, Yuming; Zhang, Xuemei; Liu, Jun; Zhang, Chuanguo; Li, Yonggang; Zeng, Zhi; Zhang, Yongsheng	33	12		
113	Microstructure and mechanical properties of in-situ formed ZrC nanoparticles dispersion-strengthened	International Journal Of Refractory Metals And Hard Materials	10.1016/j.ijrmhm.2022.10.5912	Cheng, X.;Jing, K.;Xie, Z.M.;Liu, R.;Wu, X.B.;Wang, X.P.;Fang, Q.F.;Liu, C.S.	107			
114	VO <sub>2</sub> -based intelligent thermal control coating for spacecraft by regulating infrared emittance	Journal Of Alloys And Compounds	10.1016/j.jallcom.2021.16.2679	Du, Zengyan;Li, Ming;Xu, Sichao;Li, Kaibin;Zou, Fengxia;Li, Guanghai	895			
115	Phase transition and defect relaxation behavior in a medium manganese steel	Journal Of Alloys And Compounds	10.1016/j.jallcom.2022.16.4003	Liu, Xueqing;Sun, Meng;Liang, Juhua;Jiang, Weibin;Wang,	904			
116	Effect of phase composition on the internal friction and magnetostriction in the L12/D03 biphasic Fe-27Ga alloys	Journal Of Alloys And Compounds	10.1016/j.jallcom.2021.16.2661	Li, L.;Gao, Y.X.;Sun, M.;Jing, K.;Zhuang, Z.;Wang, X.P.;Jiang, W.B.;Fang, Q.F.	895			
117	Determination of recrystallization temperature of deformed high-purity Al assessed by internal friction technique	Journal Of Alloys And Compounds	10.1016/j.jallcom.2021.16.1984	Chen, Tianlu;Sun, Meng;Liu, Rui;Jiang, Weibin;Wu, Xuebang;Wang, Xianping;Liu, Changsong;Fang, Qianfeng	891			
118	Lattice disorder effect on the structural, ferroelectric and electrocaloric properties of (Ba, Sr, Ca)TiO <sub>3</sub> ceramics	Journal Of Alloys And Compounds	10.1016/j.jallcom.2022.16.5433	Wu, Jie;Zhao, Gaochao;Pan, Chengbing;Tao, Kun;Yang, Jie;Zhu, Xuebin;Tong, Peng;Yin, Lihua;Song, Wenhai;Sun, Yuping/Sun, Yuping	915			
119	Study on high damping L12/D03 biphasic Fe-27Ga alloys with near-zero magnetostriction and its damping mechanism	Journal Of Alloys And Compounds	10.1016/j.jallcom.2022.16.6554	Li, L.;Gao, Y.X.;Zhuang, Z.;Sun, M.;Jiang, W.B.;Fang, Q.F.;Wang, X.P.	924			
120	FeCo nanoalloys encapsulated in pod-like N-doped carbon nanotubes as efficient oxygen reduction reaction electrocatalysts for zinc-air batteries	Journal Of Alloys And Compounds	10.1016/j.jallcom.2022.16.6122	Zhu, Min; Zhang, Chao	921			

121	Kohler's rule and anisotropic Berry-phase effect in nodal-line semimetal ZrSiSe	Journal Of Applied Physics	10.1063/5.0076919	Song, Jiangpeng;Wang, Jian;Wang, Yihao;Zhang, Lei;Song, Meng;Li, Zhihao;Cao, Liang;Xiong, Yimin/Liu, Dayong	131	6		
122	Spin glass and magnetoelectric effect in BiFeO <sub>3</sub> -Bi <sub>0.5</sub> K <sub>0.5</sub> TiO <sub>3</sub> -Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> single crystals	Journal Of Applied Physics	10.1063/5.0092058	Yin, L.H.;Yang, J.;Tong, P.;Song, W.H.;Dai, J.M.;Zhu, X.B.;Sun, Y.P./Sun, Y.P.	132	4		
123	Low-temperature preparation and electrical properties of CaBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> piezoelectric ceramic by addition of B <sub>2</sub> O <sub>3</sub>	Journal Of Applied Physics	10.1063/5.0109215	Pan, C.B.;Zhao, G.C.;Li, S.M.;Wang, X.L.;Wang, J.M.Z.;Tao, M.;Yin, L.H.;Song, W.H.;Zhu, X.B.;Yang, J.;Sun, Y.P./Sun, Y.P.	132	11		
124	Thickness dependence of metal-insulator transition in SrMoO <sub>3</sub> thin films	Journal Of Applied Physics	10.1063/5.0098993	Zhu, Min;Li, Pengfei;Hu, Ling;Wei, Renhuai;Yang, Jie;Song, Wenhai;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	132	7		
125	Enhanced peroxymonosulfate activation by hierarchical porous Fe <sub>3</sub> O <sub>4</sub> /Co <sub>3</sub> S <sub>4</sub> nanosheets for efficient elimination of rhodamine B: Mechanisms, degradation pathways	Journal Of Colloid And Interface Science	10.1016/j.jcis.2021.11.118	Shi, Xu;Hong, Peidong;Huang, Hongqi;Yang, Dandan;Zhang, Kaisheng;He, Junyong;Li, Yulian;Wu, Zijian;Xie, Chao;Liu, Jinhuai;Kong, Lingtao	610		751	765
126	Improved crystallinity and self-healing effects in perovskite solar cells via functional incorporation of polyvinylpyrrolidone	Journal Of Energy Chemistry	10.1016/j.jechem.2021.10.029	Niu, Yunjuan;He, Dingchao;Hu, Linhua	68		12	18
127	Enzyme-free and rapid visual quantitative detection for pesticide residues utilizing portable smartphone integrated paper sensor	Journal Of Hazardous Materials	10.1016/j.jhazmat.2022.12.9320	Zhang, Qianru; Zhang, Zhong; Xu, Shihao; Lin, Dan; Jiang, Changlong/Lin, Dan; Jiang, Changlong	436			
128	Selenization governs the intrinsic activity of copper-cobalt complexes for enhanced non-radical Fenton-like oxidation toward organic contaminants	Journal Of Hazardous Materials	10.1016/j.jhazmat.2022.12.8958	Hong, Peidong;Zhang, Kaisheng;He, Junyong;Li, Yulian;Wu, Zijian;Xie, Chao;Liu, Jinhuai;Kong, Lingtao	435			
129	High-performance pseudocapacitive removal of cadmium via synergistic valence conversion in perovskite-type FeMnO <sub>3</sub>	Journal Of Hazardous Materials	10.1016/j.jhazmat.2022.12.9575	Xu, Yingsheng;Xiang, Shuhong;Zhang, Xinyuan;Zhou, Hongjian;Zhang, Haimin	439			
130	Selective removal of Sr(II) from saliferous radioactive wastewater by capacitive deionization	Journal Of Hazardous Materials	10.1016/j.jhazmat.2022.12.8591	Xiang, Shuhong;Mao, Hengjian;Geng, Wusong;Xu, Yingsheng;Zhou, Hongjian	431			

131	Simultaneous detection of heavy metals in solutions by electrodeposition assisted laser induced breakdown spectroscopy	Journal Of Laser Applications	10.2351/7.0000572	Ma, Mingjun; Fang, Li; Zhao, Nanjing; Meng, Deshuo; Pan, Chaochao; Liu, Jianguo; Liu, Wenqing/Huang, Xingjiu/Ma, Mingjun; Fang, Li; Zhao, Nanjing; Meng, Deshuo; Pan, Chaochao; Liu, Jianguo; Liu, Wenqing	34	1		
132	RKKY interaction of magnetic impurities in nodal-line semimetals	Journal Of Magnetism And Magnetic Materials	10.1016/j.jmmm.2022.169164	Wang, Zhong-Yi;Zou, Liang-Jian	553			
133	Enhancing the energy storage capacity of graphene supercapacitors: Via solar heating	Journal Of Materials Chemistry A	10.1039/d1ta09222g	Yu, Xinling;Li, Nian;Zhang, Shudong;Liu, Cui;Chen, Liqing;Xi, Min;Song, Yanping;Ali, Sarmad;Iqbal, Obaid;Jiang, Changlong;Wang, Zhenyang/Yu, Xinling;Li, Nian;Zhang, Shudong;Liu, Cui;Chen, Liqing;Xi, Min;Song, Yanping;Ali, Sarmad;Iqbal, Obaid;Jiang, Changlong;Wang, Zhenyang	10	7	3382	3392
134	Conduction band engineering of half-Heusler thermoelectrics using orbital chemistry	Journal Of Materials Chemistry A	10.1039/d1ta09377k	Guo, Shuping;Zhang, Yongsheng	10	6	3051	3057
135	Thermoelectric property enhancement by merging bands in NbFeSb-based half-Heusler mixtures	Journal Of Materials Chemistry A	10.1039/d1ta09660e	Ti, Zhuoyang;Guo, Shuping;Zhang, Xuemei;Lia, Jingyu;Zhang, Yongsheng	10	10	5593	5604
136	Highly stable and uniformly dispersed 1T-MoS2 nanosheets co-induced by chemical pressure and 2D template method with high supercapacitor	Journal Of Materials Chemistry A	10.1039/d1ta10159e	Li, Han;Lin, Shuai;Li, Hui;Wu, Ziqiang;Zhu, Lili;Li, Changdian;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	10	13	7373	7381
137	Adjustable antiperovskite cobalt-based nitrides as efficient electrocatalysts for overall water splitting	Journal Of Materials Chemistry A	10.1039/d2ta03313e	Zhu, Lili;Li, Changdian;Li, Han;Li, Hui;Wu, Ziqiang;Huang, Yanan;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	10	29	15520	15527
138	Highly stable 1T-MoS2 by magneto-hydrothermal synthesis with Ru modification for efficient hydrogen evolution reaction	Journal Of Materials Chemistry A	10.1039/d2ta05954a	Zhu, Lili; Li, Changdian; Li, Han; Huang, Yanan; Li, Hui; Wu, Ziqiang; Lin, Shuai; Zhu, Xuebin; Sun, Yuping/Sun, Yuping	10	39	21013	21020
139	Improving the power factor and figure of merit of p-type CuSbSe2 via introducing Sb vacancies	Journal Of Materials Chemistry C	10.1039/d1tc02728j	Chen, Tao; Ming, Hongwei; Qin, Xiaoying; Zhu, Chen; Huang, Lulu; Hou, Yunxiang; Li, Di; Zhang, Jian; Xin,	9	41	14858	14865

140	Superior piezoelectricity and resistivity in CaBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> high-temperature piezoelectric ceramics: synergy of structural distortion and weak texturing	Journal Of Materials Chemistry C	10.1039/d2tc03598g	Pan, Chengbing; Zhao, Gaochao; Li, Sumei; Wang, Xuelian; Wang, Jiamingzhu; Tao, Ming; Yin, Lihua; Song, Wenhai; Tong, Peng; Zhu, Xuebin; Yang, Jie; Sun, Yuping/Sun, Yuping	10	42	15851	15860
141	Rapidly responsive liquid metal/polyimide photothermal actuators designed based on the bilayer structure difference in coefficient of	Journal Of Materials Chemistry C	10.1039/d2tc02820d	Li, Xiaofei; Ding, Xin; Du, Yuhang; Xiao, Chao; Wang, Yanyan; Zheng, Kang; Liu, Xianglan; Chen, Lin; Tian, Xingyou; Zhang, Xian/Xiao, Chao;	10	38	14255	14264
142	Study on One-Step Hot-Dip Aluminizing at Intercritical Temperature of Multiphase	Journal Of Materials Engineering And Performance	10.1007/s11665-022-07398-9	Bi, Nannan; Liang, Juhua; Wang, Xingfu				
143	Effects of Al addition on damping and mechanical properties of Fe-Ga alloy sheet	Journal Of Materials Research And Technology-Jmr&T	10.1016/j.jmrt.2022.06.099	Li, Lan; Sun, Meng; Jing, Ke; Gao, Yunxia; Jiang, Weibin; Fang, Qianfeng; Wang, Xianping	19		3592	3602
144	Metal/antiperovskite metal nitride composites Ag/AgNNi <sub>3</sub> as novel efficient electrocatalysts for hydrogen evolution reaction in alkaline media	Journal Of Materials Science And Technology	10.1016/j.jmst.2021.09.059	Zhu, Lili;Yang, Bingbing;Wu, Ziqiang;Li, Changdian;Li, Han;Li, Hui;Huang, Yanan;Zhu, Xiaoguang;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	112		222	229
145	Realization of high-purity 1T-MoS <sub>2</sub> by hydrothermal synthesis through synergistic effect of nitric acid and ethanol for supercapacitors	Journal Of Materials Science And Technology	10.1016/j.jmst.2022.01.018	Li, Han;Li, Hui;Wu, Ziqiang;Zhu, Lili;Li, Changdian;Lin, Shuai;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	123		34	40
146	Phase evolution and enhanced piezoelectric, multiferroic, and magnetoelectric properties in Cr–Mn co-doped BiFeO <sub>3</sub> –BaTiO <sub>3</sub> system	Journal Of Materials Science: Materials In Electronics	10.1007/s10854-022-08492-3	Zhao, Gaochao	33	19	15936	15945
147	Damage behaviors in microstructures and mechanical properties of pure tungsten induced by repetitive thermal	Journal Of Nuclear Materials	10.1016/j.jnucmat.2021.153433	Wang, H.;Xie, Z.M.;Zhang, L.C.;Liu, R.;Fang, Q.F.;Wang, X.P.;Liu, C.S.;Wu, Xuebang/Han, L.	559			
148	Prediction of vacancy formation energies at tungsten grain boundaries from local structure via machine learning method	Journal Of Nuclear Materials	10.1016/j.jnucmat.2021.153412	Wang, Yuxuan;Li, Xiaolin;Li, Xiangyan;Zhang, Yuxiang;Zhang, Yange;Xu, Yichun;Lei, Yawei;Liu, C.S.;Wu, Xuebang	559			
149	Towards the dependence of radiation damage on the grain boundary character and grain size in tungsten: A combined study of molecular statics	Journal Of Nuclear Materials	10.1016/j.jnucmat.2022.153637	Li, Xiaolin;Wang, Yuxuan;Zhang, Yange;Xu, Yichun;Li, Xiang-Yan;Wang, Xianping;Fang, Q.F.;Wu, Xuebang;Liu, C.S.	563			

150	An embedded-atom method potential for studying the properties of Fe-Pb solid-liquid interface	Journal Of Nuclear Materials	10.1016/j.jnucmat.2022.154041	Lei, Yawei;Zhang, Jingdan;zhang, Yange;Li, Xiangyan;Xu, Yichun;Wu, Xuebang;Sun, Meng;Liu, Changsong	572			
151	Radiation damage accumulation mechanisms at iron grain boundaries revealed by coupled atomic and coarse-grained simulations via the parameter-passing and structural feedback	Journal Of Nuclear Materials	10.1016/j.jnucmat.2022.154092	Li, Xiangyan;Li, Xiaolin;Zhang, Yange;Xu, Yichun;Wu, Xuebang;Wang, Xianping;Liu, C.S.;Fang, Q.F.	572			
152	Micelle Dynamic Reconstruction to Effectively Modulate the Transmission of Smart Windows	Journal Of Physical Chemistry B	10.1021/acs.jpcc.2c01383	Li, Nian; Xi, Min; Che, Yamin; Zhang, Shudong; Wang, Zhenyang/Guo, Wei; Liu, Cui; Li, Nian; Xi, Min; Che, Yamin; Zhang, Shudong; Wang, Zhenyang				
153	Angular Scattered Light Intensity of Dipole-Multipole Plasmonic	Journal Of Physical Chemistry C	10.1021/acs.jpcc.1c05141	Xi, Min; Ding, Shenyi; Li, Nian; Wang, Zhenyang	125	42	23231	23239
154	Ambient Electrochemical Nitrogen Fixation over a Bifunctional Mo-(O-C2)4 Site Catalyst	Journal Of Physical Chemistry C	10.1021/acs.jpcc.1c10039	Zhang, Shengbo;Shi, Tongfei;Li, Ke;Wang, Guozhong;Zhang, Yunxia;Yin, Huajie;Zhang, Haimin	126	2	965	973
155	Parallel Aligned Dipole-Multipole Plasmonic Hybridization	Journal Of Physical Chemistry C	10.1021/acs.jpcc.2c00150	Xi, Min; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang/Xi, Min; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang	126	10	4984	4994
156	Strongly Tunable Raman Resonance in InSe under Pressure	Journal Of Physical Chemistry C	10.1021/acs.jpcc.2c00913	Huang, Ge	126	14	6344	6350
157	Molecular Evolution of Nitrogen Dioxide on a Nanostructured Gold Surface in the Atmosphere by In Situ Surface-Enhanced Raman	Journal Of Physical Chemistry C	10.1021/acs.jpcc.2c04775	Fu, Hao; Bao, Haoming; Zhang, Hongwen; Zhao, Qian; Zhou, Le; Zhu, Shuyi; Guo, Yujing; Li, Yue; Cai, Weiping				
158	Optimal Excitation Wavelength for Surface-Enhanced Raman Spectroscopy: The Role of Chemical	Journal Of Physical Chemistry Letters	10.1021/acs.jpcclett.1c03535	Zhu, Shuyi;Bao, Haoming;Zhang, Hongwen;Fu, Hao;Zhao, Qian;Zhou, Le;Li, Yue;Cai, Weiping	12	45	11014	11021
159	Abnormally Weak Surface-Enhanced Raman Scattering Activity of Tip-Rich Au Nanostars: The Role of Interfacial Defects	Journal Of Physical Chemistry Letters	10.1021/acs.jpcclett.1c04088	Guo, Yujing; Zhu, Shuyi; Bao, Haoming; Fu, Hao; Zhang, Hongwen; Zhou, Le; Li, Yue; Cai, Weiping	13	10	2428	2433
160	Pressure-Induced Bifurcation in the Photoluminescence of Red Carbon Quantum Dots: Coexistence of Emissions from Surface Groups and Nitrogen-Doped Cores	Journal Of Physical Chemistry Letters	10.1021/acs.jpcclett.2c01161	Ye, Tingting; Cheng, Peng; Zeng, Hong; Yao, Deyuan; Pan, Xiaomei; Jiang, Huachao; Ding, Junfeng			4768	4777



161	Ultralow Melting Temperature of High-Pressure Face-Centered Cubic Superionic Ice	Journal Of Physical Chemistry Letters	10.1021/acs.jpcclett.2c01814	Niu, Caoping;Zhang, Hanxing;Zhang, Jie;Zeng, Zhi;Wang, Xianlong	13	32	7448	7453
162	MgXN <sub>2</sub> (X = Hf/Zr) Monolayers: Auxetic Semiconductor with Highly Anisotropic Optical/Mechanical Properties and Carrier Mobility	Journal Of Physical Chemistry Letters	10.1021/acs.jpcclett.2c03005	Li, Pengfei; Liang, Changhao/Li, Pengfei; Liang, Changhao				
163	Topological magnons in one-dimensional ferromagnetic Su-Schrieffer-Heeger model with	Journal Of Physics-Condensed Matter	10.1088/1361-648X/ac99cb	Wei, Peng-Tao; Ni, Jin-Yu; Zheng, Xia-Ming; Liu, Da-Yong; Zou, Liang-Jian	34	49		
164	Improving thermal conductivity of polyvinylidene fluoride/low-melting-point alloy with segregated structure induced by incorporation of silver	Journal Of Polymer Research	10.1007/s10965-022-03242-9	Zhang, Ping;Zhang, Xian;Ding, Xin;Wang, Yanyan;Xiao, Chao;Zheng, Kang;Chen, Lin;Tian, Xingyou	29	9		
165	Compressive and Energy Absorption Properties of Pyramidal Lattice Structures by Various Preparation	Materials	10.3390/ma14216484	Zhang, Hairi; Wang, Xingfu; Shi, Zimu; Xue, Jintao; Han, Fusheng	14	21		
166	Microstructures and Tensile Properties of 9Cr-F/M Steel at Elevated Temperatures	Materials	10.3390/ma15031248	Zhang, Guangjie; Zhang, Qinggang; Yang, Junfeng; Xie, Zhuoming; Zhang, Linchao; Liu, Rui; Fang, Qianfeng;	15	3		
167	Investigations of Structural, Electronic and Magnetic Properties of MnSe under High Pressure	Materials	10.3390/ma15031109	Zhao, Jing;Zhang, Hanxing;Niu, Caoping;Wang, Xianlong	15	3		
168	Development of Y <sub>2</sub> O <sub>3</sub> Dispersion-Strengthened Copper Alloy by Sol-Gel Method	Materials	10.3390/ma15072416	Ke, Jiangang; Xie, Zhuoming; Liu, Rui; Jing, Ke; Cheng, Xiang; Wang, Hui; Wang, Xianping; Wu, Xuebang; Fang, Qianfeng; Liu, Changsong	15	7		
169	Microstructure evolution and yield strength improvement of a low carbon medium manganese steel experienced intercritical annealing, pre-straining and tempering	Materials Characterization	10.1016/j.matchar.2022.112439	Bi, Nannan; Liang, Juhua; Wang, Xingfu; Han, Fusheng	194			
170	High thermoelectric performance for an Ag <sub>2</sub> Se-based material prepared by a wet chemical method (vol 4, pg 875,	Materials Chemistry Frontiers	10.1039/d1qm90092g	Li, D.; Zhang, J. H.; Li, J. M.; Zhang, J.; Qin, X. Y.	5	24	8397	8397
171	Regulation of UV light on the hot-electron current of Au/TiO <sub>2</sub> :Tb <sup>3+</sup>	Materials Letters	10.1016/j.matlet.2021.131267	Liu, Shu Li;Fei, Guang Tao;Xia, Kai;Xu, Shao Hui;Gao, Xu Dong	308			

172	Dodecylamine assisted perovskite growth for high-performance perovskite solar cells with low defect	Materials Letters	10.1016/j.matlet.2021.131365	He, Dingchao;Yang, Zhiqian;Li, Dufeng;Niu, Yuanjuan;Hu, Linhua	309			
173	Simultaneously improved ferroelectric and magnetic properties of Bi7Fe2NiTi3O21 thin films by in-situ magnetic field annealing	Materials Letters	10.1016/j.matlet.2021.131167	Huang, Hui;Liu, Miao;Yang, Bingbing;Zhu, Xuebin	308			
174	Laser-synthesized ultrafine NiO nanoparticles with abundant oxygen vacancies for highly efficient oxygen evolution	Materials Letters	10.1016/j.matlet.2022.132409	Zhu, Min;Zhang, Chao	321			
175	A promising patterned mesoscopic CuInS2 solar cell	Materials Letters	10.1016/j.matlet.2022.132276	Zhang, Xueqiang;Cao, Wenbo;Chen, Wangwei;Dong, Chao;Wang, Mingtai	319			
176	Amorphous-conjugated polymer-additive approach to prepare quality Spiro-OMeTAD-based hole transporting material for efficient	Materials Letters	10.1016/j.matlet.2022.132028	Zhu, Liangxin;Chen, Junwei;Liu, Rong;Dong, Chao;Huang, Jia;Wan, Zhiyang;Cao, Wenbo;Zhang, Xueqiang;Ge, Chengfeng;Wang, Mingtai	316			
177	Dopant-free hole conductor with hybrid multisite passivation for perovskite solar cells	Materials Letters	10.1016/j.matlet.2022.132931	Zhao, Chundie;Kong, Fantai;Chen, Shuanghong;Peng, Yaole;Zhang, Jinxue;Liu, Wenjun	326			
178	Preparation of nanoscale WC powders by sol-gel synthesis and carbon monoxide carbonization	Materials Letters	10.1016/j.matlet.2022.132143	Ke, J. G.; Liu, R.; Xie, Z. M.; Sun, M.; Jing, K.; Zhang, G. F.; Cheng, X.; Liu, X. Q.; Wang, X. P.; Wu, X. B.; Liu, C. S.; Fang, Q. F.	318			
179	Effects of rolling reduction on microstructural evolution and mechanical properties of W-	Materials Science And Engineering A	10.1016/j.msea.2021.142310	Zhao, B.L.;Zhang, L.F.;Ke, J.G.;Cheng, X.;Xie, Z.M.;Liu, R.;Wu, X.B.;Fang, Q.F.;Liu, C.S.	830			
180	Enhanced mechanical properties and thermal stability of hot-rolled Mo-0.5%ZrC alloy	Materials Science And Engineering A	10.1016/j.msea.2022.143803	Jing, K.;Cheng, X.;Liu, R.;Xie, X.F.;Xie, Z.M.;Wu, X.B.;Fang, Q.F.;Liu, C.S.;Wang, X.P.	854			
181	Enhancing P removal from primary Si by P-containing Al2Si2Sr phase during Al-Si solvent refining	Materials Science In Semiconductor Processing	10.1016/j.mssp.2022.106769	Chen, Chen;Song, Wangfeng;Jiang, Xuesong;Ding, Juxuan;Zhu, Xiaoxiao;Chen, Jian;Ban, Boyuan/Chen,	147			
182	Effect of heat input on the microstructure and mechanical properties of the simulated coarse-grained heat-affected zone (CGHAZ) of novel twinning-induced	Materials Today Communications	10.1016/j.mtcomm.2022.104407	Deng, Haoxiang;Liu, Zhihong;Ma, Jianguo;Wang, Zhiyong/Wang, Xingfu;Han, Fusheng/Ma, Jianguo	33			

183	Research on Microstructures and Properties of High-Strength Anticorrosion Twinning-Induced	Metals	10.3390/met12040537	Si, Yongli; Wang, Xingfu; Liang, Juhua; Han, Fusheng	12	4		
184	Surface Roughening of Pt-Polystyrene Spherical Janus Micromotors for Enhanced Motion Speed	Micromachines	10.3390/mi13040555	Zhou, Le;Wei, Yi;Zhang, Hongwen;Huang, Zhulin;Zhu, Shuyi;Zhao, Zhipeng;Guo, Yujing;Fu,	13	4		
185	Application of competitive adsorption of ethylenediamine and polyetheramine in direct float of quartz from quartz-feldspar mixed minerals under neutral	Minerals Engineering	10.1016/j.mineng.2022.107850	Jiang, Xuesong;Chen, Jian;Ban, Boyuan;Song, Wangfeng;Chen, Chen/Chen, Jian;Ban, Boyuan	188			
186	Creating high-dense stacking faults and endo-grown nanoneedles to enhance phonon scattering and improve thermoelectric performance of	Nano Energy	10.1016/j.nanoen.2022.107510	Ming, Hongwei; Zhu, Chen; Chen, Tao; Yang, Shuhuan; Chen, Yong; Zhang, Jian; Li, Di; Xin, Hongxing; Qin, Xiaoying/Zhang, Jian; Li, Di; Qin,	100			
187	Fabrication of Pt-Ag-Au heterogeneous truncated hollow sub-microspheres for chemically self-propelled colloidal	Nano Futures	10.1088/2399-1984/ac57bc	Wei, Yi;Zhao, Qian;Zhang, Hongwen;Zhou, Le;Cai, Weiping	6	2		
188	Single-Atom-Kernelled Nanocluster Catalyst	Nano Letters	10.1021/acs.nanolett.2c02290	Zhuang, Shengli;Fan, Wentao;Liao, Lingwen;Zhao, Yan;Wu, Zhikun	22	17	7144	7150
189	Interfacial engineering of metallic rhodium by thiol modification approach for ambient electrosynthesis	Nano Research	10.1007/s12274-022-4585-y	Jin, Meng; Zhang, Xinyuan; Zhang, Xian; Zhou, Hongjian; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin				
190	Plasmonic Cu <sub>2</sub> S <sub>24</sub> nanocages for novel solar photothermal nanoink and	Nano Research	10.1007/s12274-021-3880-3	Xi, Min;Xu, Longchang;Li, Nian;Zhang, Shudong;Wang, Zhenyang	15	4	3161	3169
191	High-Density-Nanotips-Composed 3D Hierarchical Au/CuS Hybrids for Sensitive, Signal-Reproducible, and Substrate-Recyclable SERS Detection	Nanomaterials	10.3390/nano12142359	Fu, Hao; Zhao, Qian; Bao, Haoming; Zhou, Le; Zhu, Shuyi; Zhang, Hongwen; Cai, Weiping	12	14		
192	In-Situ Monitoring the SERS Spectra of para-Aminothiophenol Adsorbed on Plasmon-Tunable Au@Ag Core-Shell Nanostars	Nanomaterials	10.3390/nano12071156	Ke, Yan; Chen, Bin; Hu, Meng; Huang, Zhulin; Meng, Guowen/Ke, Yan; Chen, Bin; Hu, Meng; Huang, Zhulin; Meng, Guowen	12	7		
193	Abnormal linear dichroism transition in two-dimensional PdPS	Nanoscale	10.1039/d2nr03587a	Li, Gang; Chen, Zheng; Zhang, Hanlin; Yu, Mengxi; Zhang, Hui; Chen, Jiawen; Wang, Zihan; Yin, Shiqi; Lin, Weichang; Gong, Penglai; Zeng, Longhui; Zhu, Xiangde; Wei, Wensen; Tian, Mingliang;				

194	Mass-determining role in the electrophoretic separation of colloidal plasmonic nanoparticle oligomers	Nanoscale	10.1039/d2nr03585e	Cao, An; Tan, Jingyi; Liu, Dilong; Chen, Zhiming; Dou, Liguang; Liu, Zhiqiang; Li, Yue				
195	Achieving higher thermoelectric performance of n-type PbTe by adjusting the band structure and enhanced phonon scattering	Nanoscale	10.1039/d2nr04419f	Wu, Wei; Zhu, Chen; Ming, Hongwei; Chen, Tao; Li, Di; Qin, Xiaoying; Zhang, Jian				
196	A highly transparent and photothermal composite coating for effective anti-/de-icing of glass surfaces	Nanoscale Advances	10.1039/d2na00151a	Guo, Wei; Liu, Cui; Li, Nian; Xi, Min; Che, Yamin; Jiang, Changlong; Zhang, Shudong; Wang, Zhenyang/Liu, Cui; Li, Nian; Xi, Min; Jiang, Changlong; Zhang, Shudong; Wang, Zhenyang	4	13	2884	2892
197	SERS spectral evolution of azo-reactions mediated by plasmonic Au@Ag core-shell nanorods	Nanoscale Advances	10.1039/d2na00486k	Hu, Mengen; Huang, Zhulin; Liu, Rui; Tang, Haibin; Meng, Guowen	4	22	4730	4738
198	Stabilization of hexazine rings in potassium polynitride at high pressure	Nature Chemistry	10.1038/s41557-022-00925-0	Wang, Yu; Zhang, Xiao; Jiang, Shu-qing	14	7	794	+
199	Colossal and reversible barocaloric effect in liquid-solid-transition materials n-alkanes	Nature Communications	10.1038/s41467-022-28229-4	Lin, Jianchao; Tong, Peng; Zhang, Kai; Tao, Kun; Lu, Wenjian; Wang, Xianlong; Zhang, Xuekai; Song, Wenhai; Sun, Yuping/Sun, Yuping	13	1		
200	Assembly-induced spin transfer and distance-dependent spin coupling in atomically precise AgCu nanoclusters	Nature Communications	10.1038/s41467-022-33651-9	Xia, Nan; Peng, Di; Ji, Shiyu; Zha, Jun; Yan, Nan; Zeng, Zhi; Wu, Zhikun	13	1		
201	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				
202	UV curing polyurethane-acrylate composites as full filling thermal interface materials	New Journal Of Chemistry	10.1039/d2nj00397j	Liu, Cui; Li, Nian; Xi, Min; Zhang, Shudong; Wang, Zhenyang/Che, Yamin; Liu, Cui; Li, Nian; Guo, Wei; Xi, Min; Zhang, Shudong; Wang, Zhenyang	46	17	7979	7986
203	Visual detection of fluoride in water by a dual-emitting, Eu-doped Sc-based metal organic framework	New Journal Of Chemistry	10.1039/d2nj01946a	Zhao, Nanjing/Wang, Junfeng/Zhan, Deyi; Saeed, Abdul; He, Junyong; Xu, Weihong; Liu, Jinhui/Zhan, Deyi; Saeed, Abdul; He, Junyong; Xu,				
204	Far-red-emitting SrGdAlO <sub>4</sub> :Cr <sup>3+</sup> ,Bi <sup>3+</sup> phosphors for plant growth regulation	Optical Materials	10.1016/j.optmat.2022.112904	Zou, Fengxia; Li, Ming; Du, Zengyan; Song, Yi; Li, Liang; Li, Guanghai	133			

205	Effects of the cone angle on the SERS detection sensitivity of tapered fiber probes	Optics Express	10.1364/OE.471597	Qin, Yanyan;Huang, Ruidong;Yao, Bo;Mao, Qinghe/Tang, Haibin	30	21	37507	37518
206	Nonlinear terahertz Kerr effect in quasi-2D MnPS3	Optics Letters	10.1364/OL.457627	Cheng, Long;Sheng, Zhigao/Yan, Jian;Luo, Xuan	47	16	4052	4055
207	Tunneling spectra of superconductor-Kitaev layer-metal junctions	Physica B: Condensed Matter	10.1016/j.physb.2021.413483	Lyu, Jing-Jing;Jia, Shi-Qing;Zou, Liang-Jian	625			
208	Origin and strain tuning of charge density wave in LaTe3	Physica B: Condensed Matter	10.1016/j.physb.2022.413988	Hong, Yuanting;Liang, Xin;Lu, Wenjian	639			
209	Factors affecting the electron-phonon coupling in FeSe under pressure	Physical Chemistry Chemical Physics	10.1039/d1cp02749b	Li, Tingting; Zhang, Xiaoli; Zeng, Zhi	23	44	25107	25113
210	Site and length dependent quantum interference and resonance in the electron transport of armchair carbon nanotube molecular junctions	Physical Chemistry Chemical Physics	10.1039/d1cp05597f	Cao, Ning;Hao, Hua;Zheng, Xiaohong;Zeng, Zhi	24	13	8032	8040
211	The magnetic properties of pressurized CsV3Sb5 calculated by using a hybrid functional	Physical Chemistry Chemical Physics	10.1039/d2cp01763f	Wu, Wenfeng;Wang, Xianlong;Zeng, Zhi	24	30	18179	18184
212	Giant Tunneling Electroresistance Induced by Interfacial Doping in Pt/BaTiO3/Pt Ferroelectric Tunnel	Physical Review Applied	10.1103/PhysRevApplied.17.044001	Xiao, Wei;Hao, Hua;Zheng, Xiaohong;Zeng, Zhi	17	4		
213	Configuration stability and electronic properties of diamane with boron and nitrogen dopants	Physical Review B	10.1103/PhysRevB.105.174106	Niu, Caoping; Zhang, Jie; Zhang, Hanxing; Zhao, Jing; Xia, Wenming; Zeng, Zhi; Wang, Xianlong	105	17		
214	Chemical trends in the high thermoelectric performance of the pyrite-type dichalcogenides ZnS2,	Physical Review B	10.1103/PhysRevB.105.245203	Jia, Tiantian;Zhang, Yongsheng	105	24		
215	Nonequilibrium electron and lattice dynamics of Sb2Te3 under pressure	Physical Review B	10.1103/PhysRevB.105.195109	Zhang, Kai;Yang, Jin;Jiang, Huachao;Zeng, Zhi;Su, Fuhai/Zhang,	105	19		
216	Band crossover and magnetic phase diagram of the high- Tc superconducting compound Ba2CuO4-	Physical Review B	10.1103/PhysRevB.105.184506	Bai, Xiao-Cheng;Quan, Ya-Min;Zou, Liang-Jian	105	18		
217	Evolution of ground state in Cr2Te3 single crystal under applied magnetic field	Physical Review B	10.1103/PhysRevB.106.094407	Jiang, Z.Z.;Liang, X.;Luo, X.;Gao, J.J.;Wang, W.;Wang, T.Y.;Yang, X.C.;Wang, X.L.;Tong, P.;Song, W.H.;Lu, W.J.;Sun, Y.P./Zhang, L.;Sun,	106	9		
218	Electron tunneling spectroscopy of an anisotropic Kitaev quantum spin liquid sandwiched between superconductors	Physical Review Research	10.1103/PhysRevResearch.4.023251	Jia, Shi-Qing;Zou, Liang-Jian;Quan, Ya-Min	4	2		

219	Effect of solution miscibility on the morphology of coaxial electrospun cellulose acetate nanofibers	Polymers	10.3390/polym13244419	Yan, Ke;Mengen, Hu;Zhulin, Huang	13	24	0	
220	Compression rate of dynamic diamond anvil cells from room temperature to 10	Review Of Scientific Instruments	10.1063/5.0091102	Yan, Jinwei;Liu, Xiaodi;Xu, Haian;Gregoryanz, Eugene	93	6		
221	Individual cascade annealing in BCC tungsten: effects of size and spatial distributions of defects	Rsc Advances	10.1039/d2ra04138c	Wei, Liuming;Zhang, Chuanguo;Zheng, Qirong;Zeng, Zhi;Li, Yonggang	12	36	23176	23182
222	Structurally integrated 3D carbon tube grid-based high-performance filter capacitor	Science	10.1126/science.abh4380	Han, Fangming; Qian, Ou; Meng, Guowen; Lin, Dou; Chen, Gan; Zhang, Shiping; Pan, Qijun; Zhang, Xiang; Zhu, Xiaoguang; Wei, Bingqing	377	6609	1004	1007
223	hcp-phased Ni nanoparticles with generic catalytic hydrogenation activities toward different functional	Science China Materials	10.1007/s40843-021-1860-x	Lv, Yang;Gong, Wanbing;Wang, Dongdong;Chen, Chun;Wang, Guozhong;Zhang, Haimin;Zhao, Huijun	65	5	1252	1261
224	Modulated bonding interaction in propanediol electrolytes toward stable aqueous zinc-ion batteries	Science China Materials	10.1007/s40843-021-1841-5	Wei, Tingting;Peng, Yuqi;Mo, Li'e;Chen, Shuanghong;Li, Zhaoqian;Hu, Linhua	65	5	1156	1164
225	Bacterial cellulose-regulated synthesis of metallic Ni catalysts for high-efficiency electrosynthesis of hydrogen	Science China Materials	10.1007/s40843-021-1795-9	Xu, Hui;Jin, Meng;Geng, Jing;Zhang, Shengbo;Zhang, Haimin	65	3	721	731
226	Bacterial cellulose-regulated synthesis of metallic Ni catalysts for high-efficiency electrosynthesis of hydrogen	Science China-Materials	10.1007/s40843-021-1795-9	Xu, Hui; Jin, Meng; Geng, Jing; Zhang, Shengbo; Zhang, Haimin				
227	hcp-phased Ni nanoparticles with generic catalytic hydrogenation activities toward different functional groups	Science China-Materials	10.1007/s40843-021-1860-x	Lv, Yang; Mao, Xin; Gong, Wanbing; Wang, Dongdong; Chen, Chun; Liu, Porun; Lin, Yue; Wang, Guozhong; Zhang, Haimin; Du, Aijun; Zhao, Huijun				
228	Modulated bonding interaction in propanediol electrolytes toward stable aqueous zinc-ion batteries	Science China-Materials	10.1007/s40843-021-1841-5	Wei, Tingting; Peng, Yuqi; Mo, Li'e; Chen, Shuanghong; Ghadari, Rahim; Li, Zhaoqian; Hu, Linhua				
229	Ultra-high anisotropic magneto-mechanical damping in Fe-18at.%Ga single crystals	Scripta Materialia	10.1016/j.scriptamat.2022.114552	Sun, Meng;Li, Lan;Liu, Xueqing;Jiang, Weibin;Lei, Yawei;Gao, Yunxia;Cheng, Zhijun;Wang, Xianping;Wu, Xuebang;Fang, Qianfeng;Liu, Changsong/Liu, Caixing;Sheng, Zhigao	212			

230	Phase engineering of Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> nanosheets for flexible supercapacitors	Scripta Materialia	10.1016/j.scriptamat.2021.114346	Li, Han;Li, Hui;Wu, Ziqiang;Zhu, Lili;Huang, Yanan;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	208			
231	Secondary-field boosted caloric effect associated with first-order phase transition, a quasi-direct measurement	Scripta Materialia	10.1016/j.scriptamat.2022.114836	Tao, Kun;Song, Wenhai;Tong, Peng;Xiong, Tingjiao;Wang, Tianyang;Zhang, Xuekai;Xie, Lulu;Lin, Jianchao;Sun, Yuping/Sun, Yuping	218			
232	Visible light boosting hydrophobic ZnO/(Sr <sub>0.6</sub> Bi <sub>0.305</sub> ) <sub>2</sub> Bi <sub>2</sub> O <sub>7</sub> chemiresistor toward ambient trimethylamine	Sensors And Actuators B: Chemical	10.1016/j.snb.2021.131076	Chang, Junqing;Deng, Zanhong;Li, Meng;Wang, Shimao;Mi, Longqing;Meng, Gang/Sun, Qin;Shen, Chengyin/Kong, Fantai	352			
233	Ratiometric fluorescent sensor for shutter-speedy and ultra-sensitive monitoring of antibiotic utilizing multiple fluorescent devices	Sensors And Actuators B-Chemical	10.1016/j.snb.2022.131819	Lin, Dan; Xu, Shihao; Yang, Liang; Jiang, Changlong/Li, Lingfei; Lin, Dan; Xu, Shihao; Yang, Liang; Jiang, Changlong	363			
234	Effective inspissation of uranium(VI) from radioactive wastewater using flow electrode capacitive deionization	Separation And Purification Technology	10.1016/j.seppur.2021.120172	Zhou, Jian;Zhang, Yingzi;Wang, De;Li, Jiaying/Zhang, Xinyuan;Zhou, Hongjian	283			
235	Effect of impurity phase migration on Al-30wt.%Si solvent refining with Zr additions during directional	Separation And Purification Technology	10.1016/j.seppur.2021.119572	Chen, Chen;Jiang, Xuesong;Song, Wangfeng;Shi, Jian;Ban, Boyuan;Chen, Jian	278			
236	Bacterial cellulose hybrid membrane grafted with high ratio of adipic dihydrazide for highly efficient and selective recovery of gold from e-waste	Separation And Purification Technology	10.1016/j.seppur.2022.121021	Zhang, Yunxia	292			
237	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; Wan, Songming; Chen, Jian				
238	Possibility of Complete Collecting Eutectic Si and Primary Si as Purified Si During Al-Si Solvent Refining with Zr Additions	Silicon	10.1007/s12633-022-01851-z	Chen, Chen; Chen, Jian; Ban, Boyuan				
239	Au Polyhedron Array with Tunable Crystal Facets by PVP-Assisted Thermodynamic Control and Its Sharp Shape As Well As High-Energy Exposed Planes Co-Boosted SERS	Small	10.1002/smll.202105045	Li, Xuejiao; Zhang, Tao; Chen, Zhiming; Yu, Jie; Cao, An; Liu, Dilong; Cai, Weiping; Li, Yue				

240	Colossal 3D Electrical Anisotropy of MoAlB Single Crystal	Small	10.1002/smll.202104460	Huang, Yanan;Si, Jianguo;Lin, Shuai;Lv, Hongyan;Song, Wenhai;Luo, Xuan;Lu, Wenjian;Zhu, Xuebin;Sun, Yuping/Zhang, Ranran;Sun, Yuping	18	5		
241	Au Polyhedron Array with Tunable Crystal Facets by PVP-Assisted Thermodynamic Control and Its Sharp Shape As Well As High-Energy Exposed Planes Co-Boosted SERS	Small	10.1002/smll.202105045	Li, Xuejiao;Zhang, Tao;Chen, Zhiming;Yu, Jie;Cao, An;Liu, Dilong;Cai, Weiping;Li, Yue	18	4		
242	Atom Absorption Energy Directed Symmetry-Breaking Synthesis of Au-Ag Hierarchical Nanostructures and Their Efficient Photothermal	Small	10.1002/smll.202204748	Zeng, Pan; Zhang, Guofeng; Wang, Yifan; Chen, Zhiming; Yu, Jie; Zhang, Tao; Cai, Weiping; Li, Yue	18	46		
243	Magneto-Electrodeposition of 3D Cross-Linked NiCo-LDH for Flexible High-Performance Supercapacitors	Small Methods	10.1002/smt.202101320	Li, Hui;Lin, Shuai;Li, Han;Wu, Ziqiang;Chen, Qian;Zhu, Lili;Li, Changdian;Zhu, Xuebin;Sun, Yuping/Sun, Yuping	6	3		
244	Anchoring CsPbI3 crystalline for stable and efficient perovskite solar cells with perfluorocarbon-assisted shield	Solar Energy	10.1016/j.solener.2021.10.009	Zhang, Liying; Liu, Boyuan; Xu, Xiaoxiao; Xu, Shendong; Du, Du; Zhang, Hui; Guo, Tianle; Zheng, Haiying; Liu, Guozhen; Pan, Xu	228		636	642
245	Multifunctional organic semiconductor for dopant-free perovskite solar cells	Synthetic Metals	10.1016/j.synthmet.2022.117027	Sun, Yuan;Zhao, Chundie;Zhang, Jinxue;Peng, Yaole;Hu, Linhua;Kong, Fantai	285			
246	Constructing hole transporting highway for high-efficiency perovskite solar cells	Synthetic Metals	10.1016/j.synthmet.2022.117174	Peng, Yaole;Kong, Fantai;Chen, Shuanghong;Zhao, Chundie;Zhang, Jinxue;Liu, Wenjun;Hu, Linhua	291			
247	Existence of bipolar resistive switching with self-rectifying behavior in a p-CuCrO2/n-Si heterostructure	Thin Solid Films	10.1016/j.tsf.2022.139542	Cheng, Wangping; Li, Chenhui; Zhou, Chen; He, Yuandi; Wei, Renhuai; Hu, Ling; Song, Wenhai; Zhu, Xuebin; Sun, Yuping/Sun, Yuping	762			
248	Flow-electrode capacitive deionization utilizing three-dimensional foam current collector for real seawater	Water Research	10.1016/j.watres.2022.118642	Zhang, Xinyuan;Zhou, Hongjian;He, Zhen;Zhang, Haimin	220			



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序号	标题	期刊	DOI	作者列表	卷	期	起始页	截至页
1	Plasmonic CuxS Nanocages for Enhanced Solar Photothermal Cell Warming	Acs Applied Bio Materials	10.1021/acsabm.2c00051	Zhang, Jixiang;Zhao, Jun;Liu, Cui;Li, Nian;Zhang, Shudong;Xi, Min	5	4	1658	1669
2	Multifunctional Heterocyclic-Based Spacer Cation for Efficient and Stable 2D/3D Perovskite Solar Cells	Acs Applied Materials & Interfaces	10.1021/acsami.1c23991	Liu, Guozhen; Pan, Xu				
3	Dual Effect of Superhalogen Ionic Liquids Ensures Efficient Carrier Transport for Highly Efficient and Stable Perovskite Solar Cells	Acs Applied Materials & Interfaces	10.1021/acsami.2c04993	Zhang, Hui; Xu, Shendong; Guo, Tianle; Du, Du; Tao, Yuli; Zhang, Liying; Liu, Guozhen; Chen, Xiaojing; Ye, Jiamin	14	25	28826	28833
4	Oxidation-Resistant MXene-Based Melamine Foam with Ultralow-Percolation Thresholds for Electromagnetic-Infrared Compatible Shielding	Acs Applied Materials & Interfaces	10.1021/acsami.2c05544	Xu, Zijie; Ding, Xin; Li, Shikuo; Huang, Fangzhi; Wang, Baojun; Wang, Shipeng; Zhang, Xian; Liu, Fenghua; Zhang, Hui				
5	Oxidation-Resistant MXene-Based Melamine Foam with Ultralow-Percolation Thresholds for Electromagnetic-Infrared Compatible Shielding	Acs Applied Materials & Interfaces	10.1021/acsami.2c05544 40396	Ding, Xin; Zhang, Xian	14	35	40396	40407
6	Type-I Heterostructure Based on WS2/PtS2for High-Performance Photodetectors	Acs Applied Materials And Interfaces	10.1021/acsami.2c08827	Chen, Jiawang;Li, Gang;Li, Liang	14	33	37926	37936
7	Pea-Pod-like Carbon Microspheres Encapsulated by Graphene-like Carbon Nitride for Enhanced Thermal Conductivity in Polyimide Films	Acs Applied Polymer Materials	10.1021/acsapm.2c00929	Liu, Shuaishuai; Wang, Yanyan; Xiao, Chao; Jiang, Miao; Ding, Xin; Zhang, Hui; Zheng, Kang; Chen, Lin; Tian, Xingyou; Zhang, Xian	4	9	6553	6562
8	Investigation of Plasmonic-Enhanced Solar Photothermal Effect of Au NR@PVDF Micro-/Nanofilms	Acs Omega	10.1021/acsomega.2c01146	Ding, Shenyi; Zhang, Jixiang; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang; Xi, Min/Ding, Shenyi; Zhang, Jixiang; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang; Xi, Min	7	24	20750	20760
9	The SWSe-BP vdW Heterostructure as a Promising Photocatalyst for Water Splitting with Power Conversion Efficiency of 19.4%	Acs Omega	10.1021/acsomega.2c01977	Li, Pengfei/Li, Pengfei				

10	Impact of scandium on mechanical properties, corrosion behavior, friction and wear performance, and cytotoxicity of a beta-type Ti-24Nb-38Zr-2Mo alloy for orthopedic applications	Acta Biomaterialia	10.1016/j.actbio.2021.07.061	Tong, Xian; Sun, Quanxiang; Zhang, Dechuang; Wang, Kun; Dai, Yilong; Shi, Zimu; Li, Yuncang; Dargusch, Matthew; Huang, Shengbin; Ma, Jianfeng; Wen, Cuie; Lin, Jixing	134		791	803
11	Single, Self-Born RP-Au-PR Motif Boosts 19-Fold Photoluminescence Quantum Yield of Metal Nanocluster	Acta Chimica Sinica	10.6023/A21110499	Xu, Daolan; Yang, Ying; Fan, Wentao; He, Zongbing; Zou, Jiafeng; Feng, Lei; Li, Man-Bo; Wu, Zhikun	80	1	1	6
12	GeAs <sub>2</sub> Saturable Absorber for Ultrafast and Ultranarrow Photonic Applications	Advanced Functional Materials	10.1002/adfm.202112252	Li, Gang; Li, Liang				
13	Improved Solubility in Metavalently Bonded Solid Leads to Band Alignment, Ultralow Thermal Conductivity, and High Thermoelectric Performance in SnTe	Advanced Functional Materials	10.1002/adfm.202209980	Zhang, Xuemei; Zhang, Yongsheng				
14	Solution-Tube-Based Volume Effect Triboelectric Nanogenerator with Salt and pH Sensitivity	Advanced Functional Materials	10.1002/adfm.202209100	Meng, Guowen/Meng, Guowen				
15	Anisotropic electron and lattice dynamics in excitonic insulator Ta <sub>2</sub> NiSe <sub>5</sub>	Aip Advances	10.1063/5.0086701	Chu, Lingqiao; Zhang, Kai; Yang, Jin; Jiang, Huachao; Su, Fuhai	12	5		
16	Ratiometric fluorescence sensor for sensitive detection of inorganic phosphate in environmental samples	Analytical And Bioanalytical Chemistry	10.1007/s00216-022-03973-0	Zhang, Zhao; Tao, Huihui; Cao, Qiao; Liu, Yingying; Li, Lingfei; Xu, Shihao				
17	Surface engineered bimetallic gold/silver nanoclusters for in situ imaging of mercury ions in living organisms	Analytical And Bioanalytical Chemistry	10.1007/s00216-022-04076-6	Yang, Linlin; Zhao, Jun; Han, Guangmei	414	14	4235	4244
18	Simultaneous extraction and surface enhanced Raman spectroscopy detection for the rapid and reliable identification of nicotine released from snus products	Analytical Methods	10.1039/d1ay01601f	Tian, Yongfeng; Tang, Xianghu; Fu, Yanning; Shang, Shanzhai; Dong, Gaofeng; Li, Tinghua; Huang, Xingjiu; Zhu, Donglai	13	46	5608	5616
19	A plasmonic AgNP decorated heterostructure substrate for synergetic surface-enhanced Raman scattering identification and quantification of pesticide residues in real samples	Analytical Methods	10.1039/d2ay01068b	Li, Xueting; Xu, Chenyue; Yan, Lan; Feng, Yating; Li, Haoyue; Ye, Cheng; Zhang, Maofeng; Jiang, Changlong; Li, Jianhua; Wu, Yucheng	14	34	3250	3259
20	Coordination confinement pyrolysis to Flower-like nanocomposites composed of ultrathin nanosheets with embedded ultrasmall CoP nanoparticles for overall water splitting	Applied Surface Science	10.1016/j.apsusc.2021.151099	Li, Qingqing; Hu, Jinsong; Wang, Xiaoyu; Yang, Sixin; Huang, Xinhua; Cheng, Xiaofei	569			

21	Dispersant-assisted preparation of ultra-fine HfB <sub>2</sub> powder	Applied Surface Science	10.1016/j.apsusc.2022.154995	Wang, Tianxu; Wang, Zhen; Hu, Chenguang; Li, Xinyang; Huang, Zhulin; Hu, Xiaoye; Li, Yue	606			
22	Argon Plasma Treated Phosphatic Clays for Efficient Heavy Metal Pb(II) Immobilization	Bulletin Of Environmental Contamination And Toxicology	10.1007/s00128-021-03400-7	Li, Mingtao; Zhang, Xiang				
23	Argon Plasma Treated Phosphatic Clays for Efficient Heavy Metal Pb(II) Immobilization	Bulletin Of Environmental Contamination And Toxicology	10.1007/s00128-021-03400-7	Li, Mingtao; Zhang, Xiang	108	1	122	128
24	High-performance lead-free cubic GeTe-based thermoelectric alloy	Cell Reports Physical Science	10.1016/j.xcrp.2022.100902	Zhu, Jianbo; Zhang, Yongsheng	3	6		
25	Partial Phosphorization: A Strategy to Improve Some Performance(s) of Thiolated Metal Nanoclusters Without Notable Reduction of Stability	Chemistry - A European Journal	10.1002/chem.202200212	He, Zongbing; Yang, Ying; Zou, Jiafeng; You, Qing; Feng, Lei; Li, Man-Bo; Wu, Zhikun	28	25		
26	Non-Invasive Rapid Detection of Lung Cancer Biomarker Toluene with a Cataluminescence Sensor Based on the Two-Dimensional Nanocomposite Pt/Ti <sub>3</sub> C <sub>2</sub> Tx-CNT	Chemosensors	10.3390/chemosensors10080333	Wang, Hongyan; Shi, Xiaoqi; Liu, Fei; Duan, Tingmei; Sun, Bai	10	8		
27	Novel closed-cycle reaction mode for totally green production of Cu <sub>1.8</sub> Se nanoparticles based on laser-generated Se colloidal solution	Chinese Physics B	10.1088/1674-1056/ac6db2	Gu, Zhangyu; Fan, Yisong; Ye, Yixing; Cai, Yunyu; Liu, Jun; Wu, Shouliang; Li, Pengfei; Hu, Junhua; Liang, Changhao; Ma, Yao	31	7		
28	Terahertz magnetic resonance in MnCr <sub>2</sub> O <sub>4</sub> under high magnetic field	Chinese Physics B	10.1088/1674-1056/ac7f8b	Dai, Jianming; Su, Fuhai; Zhang, Shile	31	10		
29	Coexistence of Quasi-two-dimensional Superconductivity and Tunable Kondo Lattice in a van der Waals Superconductor	Chinese Physics Letters	10.1088/0256-307X/39/7/077401	Gao, Jingjing; Wang, Wei; Luo, Xuan; Lu, Wenjian; Sun, Yuping; Sun, Yuping	39	7		
30	Copper matrix composites reinforced by three-dimensional netlike graphene towards enhanced mechanical property and wear resistance	Composites Communications	10.1016/j.coco.2022.101187	Zhang, Shudong; Li, Nian; Yu, Xinling; Song, Yanping; Han, Shuai; Chen, Liqing; Xi, Min; Wang, Zhenyang; Zhang, Shudong; Li, Nian; Liu, Cui; Yu, Xinling; Song, Yanping; Han, Shuai; Chen, Liqing; Xi, Min; Wang, Zhenyang	32			
31	Raman spectroscopy for food quality assurance and safety monitoring: a review	Current Opinion In Food Science	10.1016/j.cofs.2022.100910	Tang, Haibin; Meng, Guowen; Tang, Haibin; Meng, Guowen	47			
32	Preparation and characterization of a spherical Cu/Mn/Ce ternary nanocomposite oxide with high adsorption efficiency of tetracycline	Desalination And Water Treatment	10.5004/dwt.2022.28566	Sun, Bai; Zhou, Haiyan; Zhang, Jie; Hu, Angang; Mao, Jie; Wang, Yun; Wang, Xiangxiang; Zhu, Shuguang	264		270	279

33	Ruthenium single-atom modulated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene for efficient alkaline electrocatalytic hydrogen production	Ecomat	10.1002/eom2.12274	Yin, Huajie				
34	Laser-assisted high-performance PtRu alloy for pH-universal hydrogen evolution	Energy & Environmental Science	10.1039/d1ee02518j	Pang, Beibei; Liu, Xiaokang; Liu, Tianyang; Chen, Tao; Shen, Xinyi; Zhang, Wei; Wang, Sicong; Liu, Tong; Liu, Dong; Ding, Tao; Liao, Zhaoliang; Li, Yafei; Liang, Changhao; Yao, Tao				
35	Optical conductivity of an electron gas driven by a pulsed terahertz radiation field	European Physical Journal B	10.1140/epjb/s10051-022-00363-4	Yuan, Haifeng; Wen, Hua; Xu, Wen	95	7		
36	Knowledge-based prognostics and health management of a pumping system under the linguistic decision-making context	Expert Systems With Applications	10.1016/j.eswa.2022.118379	Peng, Jiangang; Xia, Guang; Li, Yue; Song, Yiwei; Hao, Ming	209			
37	Arrays of Ag-nanoparticles decorated TiO <sub>2</sub> nanotubes as reusable three-dimensional surface-enhanced Raman scattering substrates for molecule detection	Frontiers In Chemistry	10.3389/fchem.2022.992236	Tang, Haibin	10			
38	Kernel principal component analysis and differential non-linear feature extraction of pesticide residues on fruit surface based on surface-enhanced Raman spectroscopy	Frontiers In Plant Science	10.3389/fpls.2022.956778	Shi, Guolong; Shen, Xinyi; Ren, Huan; Rao, Yuan; Weng, Shizhuang; Tang, Xianghu	13			
39	Strategies for high-performance perovskite solar cells from materials, film engineering to carrier dynamics and photon management	Infomat	10.1002/inf2.12322	Chen, Junwei; Dong, Chao; Wang, Mingtai	4	7		
40	Ambient ammonia production via electrocatalytic nitrate reduction catalyzed by a flower-like CuCo <sub>2</sub> O <sub>4</sub> electrocatalyst	Inorganic Chemistry Frontiers	10.1039/d1qi01656c	Wang, Jinlu; Zhang, Shengbo; Li, Ke; Zha, Yuankang; Liu, Min; Zhang, Haimin; Shi, Tongfei	9	10	2374	2378
41	Absorption-dominated electromagnetic shielding and excellent thermal conduction properties of poly(vinylidene fluoride)/SnBi <sub>5</sub> S <sub>8</sub> /Co-C composites with layered structure	Journal Of Alloys And Compounds	10.1016/j.jallcom.2022.165998	Ding, Xin; Zhang, Xian	921			
42	Physicochemical characterization and flocculation performance evaluation of PAC/PMAPTAC composite flocculant	Journal Of Applied Polymer Science	10.1002/app.51653	Guo, Yiming; Li, Xiaoxiao; Sun, Jun; Liu, Yanyan; Wang, Hua; Ding, Jianjun; Chen, Lin; Tian, Xingyou	139	7		
43	Annealing-temperature-dependent relation between alloying degree, particle size, and fuel cell performance of PtCo catalysts	Journal Of Electroanalytical Chemistry	10.1016/j.jelechem.2022.116728	Liu, Jun	922			

44	Alloying Sb into all inorganic lead-free CsBi3I10 for improving the crystal growth and photovoltaic performance	Journal Of Materials Chemistry A	10.1039/d2ta02245a	Yin, Huajie				
45	Enhanced crystallization in the CsPbBr3 all-inorganic perovskite via an advanced nucleation method	Journal Of Materials Chemistry C	10.1039/d1tc05924f	Li, Zhaoqian	10	9	3429	3434
46	A portable SERS sensing platform for the multiplex identification and quantification of pesticide residues on plant leaves	Journal Of Materials Chemistry C	10.1039/d2tc02926j	Ye, Cheng; He, Meng; Zhu, Zhengdong; Shi, Xiaoyi; Zhang, Maofeng; Bao, Zhiyong; Huang, Youju; Jiang, Changlong; Li, Jianhua; Wu, Yucheng	10	36	12966	12974
47	A thermal and pH stable fluorescent metal-organic framework sensor for high selectively and sensitively sensing nitro aromatic compounds in aqueous media	Journal Of Molecular Structure	10.1016/j.molstruc.2021.131059	Zhang, Jing; Hu, Jinsong; Sun, Chen; Li, Xiaowei	1245			
48	Effects of Nb addition and heat treatment on the microstructure, mechanical property and internal friction behavior of FeCrAlMo cladding alloys	Journal Of Nuclear Materials	10.1016/j.jnucmat.2022.154044	Gao, Y.X.;Sun, M.;Jiang, W.B.;Fang, Q.F.;Wang, X.P.	572			
49	MXene-contact enhanced broadband photodetection in centimeter level GeS films	Journal Of Physics D-Applied Physics	10.1088/1361-6463/ac629e	Li, Liang	55	26		
50	Effective Structure Control of Colloidal Molecules and the Morphology Evolution Mechanism Investigation	Langmuir	10.1021/acs.langmuir.1c02089	Zhang, Wei; Cheng, Hua; Pan, Rui; Gong, Yi; Gan, Zhengya; Hu, Rui; Ding, Jianjun; Zhang, Xian; Tian,	37	42	12429	12437
51	Surface modification of carbon fiber cloth by femtosecond laser direct writing technology	Materials Letters	10.1016/j.matlet.2022.132483	Chen, Jiale;Liu, Zheng;Su, Fuhai;Wu, Shouliang;Liang, Changhao;Liu, Jun	323			
52	Nanocomposite Mo-Ag-N lubricating, wear resistant and hard coatings fabricated by magnetron sputtering	Materials Science And Engineering B-Advanced Functional Solid-State Materials	10.1016/j.mseb.2022.116066	Yang, J. F./Zhang, Q. G.; Zhou, Y.; Zhang, G. J.; Zhang, L. C.; Xie, Z. M.; Zuo, L.; Fang, Q. F.; Yang, J. F.	286			
53	Ferroelectric Control of Magnetic Skyrmions in Two-Dimensional van der Waals Heterostructures	Nano Letters	10.1021/acs.nanolett.2c00564	Shao, Ding-Fu	22	8	3349	3355
54	Laser-ablation assisted strain engineering of gold nanoparticles for selective electrochemical CO2 reduction	Nanoscale	10.1039/d2nr01400a	Liang, Changhao	14	20	7702	7710
55	A tellurium short-wave infrared photodetector with fast response and high specific detectivity	Nanoscale	10.1039/d2nr02822k	Yan, Yafei; Xia, Kai; Gan, Wei; Yang, Kemeng; Li, Gang; Tang, Xi; Li, Liang; Zhang, Changjin; Fei, Guang Tao; Li,	14	36	13187	13191
56	Liquid-metal based flexible a-IZTO ultrathin films for electrical and optical applications	Nanoscale	10.1039/d2nr04535d	Chen, Jiawang; Li, Liang				

57	Type-I PtS <sub>2</sub> /MoS <sub>2</sub> van der Waals heterojunctions with tunable photovoltaic effects and high photosensitivity	Nanoscale	10.1039/d2nr04231b	Chen, Jiawang; Li, Liang	14	43	16130	16138
58	Fracture behaviour of silver nanowire films during shear deformation	Nanotechnology	10.1088/1361-6528/ac7731	Wang, Mengjiao; Ma, Lijun; Shi, Jun; Li, Shuxin; Ji, Shulin/Wang, Mengjiao; Ma, Lijun; Shi, Jun; Li, Shuxin; Ji,	33	37		
59	In-situ abiogenic methane synthesis from diamond and graphite under geologically relevant conditions	Nature Communications	10.1038/s41467-021-26664-3	Pena-Alyarez, Miriam; Brovarone, Alberto Vitale; Donnelly, Mary-Ellen; Wang, Mengnan; Dalladay-Simpson, Philip; Howie, Ross; Gregoryanz,	12	1		
60	Visualizing the evolution from Mott insulator to Anderson insulator in Ti-doped 1T-TaS <sub>2</sub>	Npj Quantum Materials	10.1038/s41535-021-00415-5	Sun, Yuping/Gao, Jingjing; Luo, Xuan; Sun, Yuping	7	1		
61	The high thermal stability induced by a synergistic effect of ZrC nanoparticles and Re solution in W matrix in hot rolled tungsten	Nuclear Engineering And Technology	10.1016/j.net.2022.03.012	Xie, Z. M.	54	8	2801	2808
62	Substitution Site Selection and Thermoelectric Performance-Enhancing Mechanism of Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub> Doped with Pb/Ge/Sn	Physica Status Solidi B-Basic Solid State Physics	10.1002/pssb.202100275	Liu, Mian; Qin, Xiaoying; Liu, Changsong				
63	Carbon phosphide nanoribbons with spatial inversion symmetry: robust generators of pure spin current with a photogalvanic effect	Physical Chemistry Chemical Physics	10.1039/d2cp01451c	Zheng, Xiaohong	24	28	17131	17139
64	Enhanced photoluminescence stability and internal defect evolution of the all-inorganic lead-free CsEuCl <sub>3</sub> perovskite nanocrystals (vol 24, pg 18860, 2022)	Physical Chemistry Chemical Physics	10.1039/d2cp90166h	Yang, Yong	24	36	22331	22331
65	Charge density wave and pressure-dependent superconductivity in the kagome metal CsV <sub>3</sub> Sb <sub>5</sub> : A first-principles study	Physical Review B	10.1103/PhysRevB.105.024517	Sun, Yu-Ping/Lu, Wen-Jian; Sun, Yu-Ping	105	2		
66	Ratiometric fluorescent sensors for nitrite detection in the environment based on carbon dot/Rhodamine B systems	Rsc Advances	10.1039/d2ra00973k	Tao, Huihui; Zhang, Zhao; Cao, Qiao; Liu, Yingying/Li, Lingfei; Xu, Shihao; Jiang, Changlong	12	20	12655	12662
67	Cd <sub>3</sub> (C <sub>3</sub> N <sub>3</sub> S <sub>3</sub> ) <sub>2</sub> Polymer/Sn Schottky Heterojunction for Broadband-Solar Highly Selective Photocatalytic CO <sub>2</sub> Reduction	Solar Rrl	10.1002/solr.202100788	Li, Xudong; Zhang, Jinfeng; Dai, Kai; Fan, Ke; Liang, Changhao	5	12		
68	Magnetization loops and non-scaling behavior of flux pinning force of Fe <sub>1+y</sub> Te <sub>1-x</sub> Sex studied by numerical simulation	Superconductor Science And Technology	10.1088/1361-6668/ac87d9	Pan, Yongqiang	35	10		

69	AAO Template-Assisted Fabrication of Ordered Ag Nanoparticles-Decorated Au Nanotubes Array for Surface-Enhanced Raman	Sustainability	10.3390/su14031305	Sun, Kexi; Tang, Haibin/Deng, Qian	14	3		
70	First-principles study of substitutional solute and carbon interactions in tungsten	Tungsten	10.1007/s42864-022-00145-6	Kong, Xiang-Shan;Xie, Zhuo-Ming;Liu, Chang-Song	4	3	231	238