

固体所2024年第一署名单位论文

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1	Low Thermal Conductivity Induced Thermoelectric Improvement in Pristine SnTe via High-Pressure Engineering	Acs Applied Energy Materials	10.1021/acsaem.4c00249	Chen, Tao; Zhang, Jian; Qin, Xiaoying	7	10	4376	4384
2	Optimizing Ionomer Coverage in Solid Carbon-Supported Catalyst toward High Performance for Proton Exchange Membrane Fuel Cells	Acs Applied Energy Materials	10.1021/acsaem.4c00463	Sun, Dianding; Jin, Meng; Liu, Jiafang; Zhang, Shengbo; Zhang, Haimin	7	9	4132	4140
3	Low Thermal Conductivity and High Thermoelectric Performance of Nb-Doped Quarternary Mixed Crystal Nb _{0.05} W _{0.95-x} Mo _x (Se _{1-x} S _x) ₂	Acs Applied Materials & Interfaces	10.1021/acsemi.3c17511	Danish, Mazhar Hussain; Chen, Tao; Li, Shujin; Li, Di; Xin, Hongxing; Zhang, Jian; Qin, Xiaoying	16	4	4836	4846
4	Enhancing Thermoelectric Performance of n-Type Bi ₂ Te _{2.7} Se _{0.3} through Incorporation of Amorphous Si ₃ N ₄ Nanoparticles	Acs Applied Materials & Interfaces	10.1021/acsemi.4c02652	Chen, Tao; Li, Shujin; Chen, Ke; Danish, Mazhar Hussain; Li, Di; Xin, Hongxing; Zhang, Jian; Qin, Xiaoying	16	17	22016	22024
5	High Thermoelectric Performance of n-type BiTeSe-Based Composites Incorporated with Both Inorganic and Organic Nano-inclusions	Acs Applied Materials & Interfaces	10.1021/acsemi.4c02032	Yang, Shuhuan; Ming, Hongwei; Zhu, Chen; Xin, Hongxing; Li, Di; Zhang, Jian; Qin, Xiaoying	16	13	16732	16743
6	High-Performance Visible to Mid-Infrared Photodetectors Based on HgTe Colloidal Quantum Dots under Room Temperature	Acs Applied Materials & Interfaces	10.1021/acsemi.4c00641	Xia, Kai; Gao, Xu Dong; Fei, Guang Tao; Xu, Shao Hui; Liang, Yi Fei; Qu, Xiao Xuan/Xia, Kai; Gao, Xu Dong; Fei, Guang Tao; Xu, Shao Hui; Liang, Yi Fei; Qu, Xiao Xuan	16	18	23717	23723
7	Double-Sided Bonding Process Enables X-ray Flat Panel Detectors	Acs Applied Materials & Interfaces	10.1021/acsemi.4c06863	Zhang, Hui; Ye, Jiajiu; Wang, Zihan; Wan, Changmao; Xu, Shendong; Tao, Yuli; Liang, Zheng; Xu, Huifen; Pan, Xu	16	29	38252	38259
8	Rapid Self-Disinfection Nanofiber Film Based on AgPd Hollow Nanospheres	Acs Applied Nano Materials	10.1021/acsanm.4c00112	Pi, Shuai; Zhan, Minghui; Liu, Bianhua; Liu, Cui; Guo, Wei; Zhang, Shudong; Wang, Zhenyang; Zhao, Jun/Pi, Shuai; Zhan, Minghui; Liu, Bianhua; Liu, Cui; Guo, Wei; Zhang, Shudong; Wang, Zhenyang; Zhao, Jun				
9	Laser Irradiation in Liquid-Generated PtNiRu@C Nanoparticles for Water Hydrolysis	Acs Applied Nano Materials	10.1021/acsanm.3c05607	Hu, Taiping; Li, Pengfei; Ye, Yixing; Liu, Jun; Cai, Yunyu; Liang, Changhao/Hu, Taiping; Li, Pengfei; Ye, Yixing; Liu, Jun; Cai, Yunyu; Liang, Changhao	7	5	4865	4873
10	Hierarchical NiFeP Nanoflowers on the MXene Film as a Self-Standing Bifunctional Electrode toward Superior Overall Water Electrolysis	Acs Applied Nano Materials	10.1021/acsanm.4c00379	Zhang, Xiang; Lin, Dou; Wan, Rui; Wang, Yuguang; Pan, Qijun; Han, Fangming; Chen, Bin/Zhang, Xiang; Lin, Dou; Wan, Rui; Wang, Yuguang; Pan, Qijun; Han, Fangming; Chen, Bin	7	7	7684	7693
11	Fully Integrated Multiplexed Wristwatch for Real-Time Monitoring of Electrolyte Ions in Sweat	Acs Nano	10.1021/acsnano.3c13035	Cai, Xin; Xia, Rui-Ze; Liu, Zi-Hao; Dai, Hai-Hua; Zhao, Yong-Huan; Chen, Shi-Hua; Yang, Meng; Li, Pei-Hua; Huang, Xing-Jiu	18	20	12808	12819

12	Ion-Electron Transduction Layer of the SnS ₂ -MoS ₂ Heterojunction to Elevate Superior Interface Stability for All-Solid Sodium-Ion Selective Electrode	Acs Sensors	10.1021/acssensors.3c02185	Dai, Hai-Hua;Cai, Xin;Liu, Zi-Hao;Xia, Rui-Ze;Zhao, Yong-Huan;Liu, Yang-Zhi;Yang, Meng;Li, Pei-Hua;Huang, Xing-Jiu	9	1	415	423
13	Ultrahigh strength, thermal stability and high thermal conductivity in hierarchical nanostructured Cu-W alloy	Acta Materialia	10.1016/j.actamat.2023.119547	Ke, J.G.;Liu, R.;Xie, Z.M.;Zhang, L.C.;Wang, X.P.;Fang, Q.F.;Liu, C.S.;Wu, X.B.	264			
14	Ultrabroad distribution of multiple anelasticities in O-doped refractory multiprincipal element alloys	Acta Materialia	10.1016/j.actamat.2024.119911	Wang, X. G.; Sun, M.; Liu, X. Q.; Liu, J. X.; Jiang, W. B.; Wang, X. P.; Fang, Q. F.	271			
15	Constructing LiCl-Rich Solid Electrolyte Interphase by High Amine-Containing 1,2,4,5-Benzenetetramine Tetrahydrochloride Additive	Advanced Electronic Materials	10.1002/aelm.202300772	Lin, Zhihua;Bettels, Frederik;Li, Taoran;Satheesh, Sreeja K;Ding, Fei;Zhang, Lin	10	4		
16	Regulating Water Activity for All-Climate Aqueous Zinc-Ion Batteries	Advanced Energy Materials	10.1002/aenm.202402041	Wang, Yifan; Mo, Li'e; Wei, Tingting; Huang, Yang; Li, Zhaoqian; Hu, Linhua				
17	Thermal Sintering Matchability between Low-Temperature Cofired Ceramic Substrate and Silver Pastes and the Effect of CuO on Silver Diffusion Inhibition	Advanced Engineering Materials	10.1002/adem.202301901	Xiao, Meihui; Zhang, Lan; Li, Jiali; Chen, Lin; Sun, Jun; Hu, Kun; Gong, Yi; Ding, Jianjun; Lin, Yongxing; Li, Xiangyang; Liu, Gang; Zhang, Xian; Tian, Xingvou				
18	Vortex Engineering on Oxide Bowl-Coated Oxide/Gold Dual-Layer Array for Dual Electrical/Spectroscopic Monitoring of Volatile Organic Compounds	Advanced Functional Materials	10.1002/adfm.202402173	Lu, Yanyan; Yang, Xiaowei; Bao, Haoming; Lei, Biao; Chen, Kang; Wei, Yi; Zhao, Qian; Zhang, Hongwen; Cai, Weiping				
19	Out-Of-Phase Articulation Strategy of CsPbBr ₃ /CsPb ₂ Br ₅ Perovskite for High Sensitivity X-Ray Detection	Advanced Functional Materials	10.1002/adfm.202401220	Wan, Changmao; Wang, Zihan; Zhang, Hui; Liang, Zheng; Xu, Huifen; Ma, Yuanbo; Wang, Zhengyu; Pan, Xu; Ye, Jiajiu				
20	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	34	4		
21	Design of High-Entropy Relaxor Ferroelectrics for Comprehensive Energy Storage Enhancement	Advanced Functional Materials	10.1002/adfm.202409344	Yang, Bingbing; Gong, Chengzhan; Zhu, Xuebin				
22	A Cascade Jet Plasma Oxidation—electroreduction System Using Pd-Ni Dual-Site Catalyst for Sustainable Ammonia Production from Air	Advanced Functional Materials	10.1002/adfm.202410768	Ding, Jun; Li, Wenyi; Zhang, Heng; Tang, Shu; Mao, Zhixian; Zhang, Shengbo; Jin, Meng; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin				
23	Building Near-Unity Stacked (002) Texture for High-Stable Zinc Anode	Advanced Functional Materials	10.1002/adfm.202312506	Wei, Tingting;Mo, Li'e;Huang, Yang;Li, Zhaoqian;Hu, Linhua	34	14		
24	Concurrently Selective Electrosynthesis of Ammonia and Glycolic Acid Over Cathodic Single-Atom Cobalt and Anodic PdNi Alloying Catalysts	Advanced Functional Materials	10.1002/adfm.202415046	Zhang, Shengbo; Zhang, Xinyuan; Ye, Yixing; Shi, Tongfei; Zhang, Haimin				
25	Donor-Acceptor Type Solvatochromic Flavonoid Materials Fluorophores for Polarity Sensing and Real-Time Temperature Monitoring	Advanced Functional Materials	10.1002/adfm.202415250	Liu, Anqi; Zhang, Qipeng; Pan, Lei; Yang, Fan; Lin, Dan; Jiang, Changlong				
26	Balancing Polarization and Breakdown for High Capacitive Energy Storage by Microstructure Design	Advanced Materials	10.1002/adma.202403400	Yang, Bingbing; Zhu, Xuebin				

27	Hybrid Surface Modification and Bulk Doping Enable Spent LiCoO ₂ Cathodes for High-Voltage Operation	Advanced Materials	10.1002/adma.202404188	Liu, Zhenzhen; Zhang, Shengbo; Li, Huaimeng; Wu, Xi; Fu, Zhen; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia				
28	Joule-Heated Interfacial Catalysis for Advanced Electrified Esterification with High Conversion and Energy Efficiency	Advanced Materials	10.1002/adma.202413949	Zhang, Jifang; Zhang, Xinyuan; Shen, Yue; Wu, Yijin; Kang, Jian; Wang, Guozhong; Zhang, Haimin; Yin, Huajie				
29	Precise Patterning of Flexible Transparent and Conductive Films without Chemical Etchings and Applications in Capacitive Proximity Sensors	Advanced Materials Technologies	10.1002/admt.202400476	Guo, Peiyi; Ma, Lijun; Ge, Qianru; Shi, Jun; Li, Shuxin; Ji, Shulin/Guo, Peiyi; Ma, Lijun; Ge, Qianru; Shi, Jun; Li, Shuxin; Ji, Shulin				
30	Self-Confined Dewetting Mechanism in Wafer-Scale Patterning of Gold Nanoparticle Arrays with Strong Surface Lattice Resonance for Plasmonic Sensing	Advanced Science	10.1002/advs.202306239	Chen, Zhiming; Cao, An; Liu, Dilong; Zhu, Zhaoting; Yang, Fan; Liu, Rui; Huang, Zhulin; Li, Yue				
31	Multimitting Ultralong Phosphorescent Carbonized Polymer Dots via Synergistic Enhancement Structure Design	Advanced Science	10.1002/advs.202400781	Zhang, Qipeng; Xu, Shihao; Zhang, Lanpeng; Yang, Liang; Jiang, Changlong/Zhang, Qipeng; Xu, Shihao; Zhang, Lanpeng; Yang, Liang; Jiang, Changlong	11	18		
32	Hydrophobic Microenvironment Modulation of Ru Nanoparticles in Metal-Organic Frameworks for Enhanced Electrocatalytic N ₂ Reduction	Advanced Science	10.1002/advs.202405210	Wen, Lulu; Li, Xinyang; Zhang, Hanlin; Zhong, Shichuan; Zeng, Pan; Hu, Xiaoye; Cai, Weiping; Li, Yue				
33	Transforming crystal structures of cobalt molybdate to generate electron-rich sites for electrochemical detection of Pb(II)	Analytica Chimica Acta	10.1016/j.aca.2024.342801	Liu, Yang-Zhi; Huang, Cong-Cong; Liu, Zi-Hao; Li, Yong-Yu; Yang, Meng; Chen, Shi-Hua; Huang, Xing-Jiu	1314			
34	Multi-dimensional signals coupling of simultaneous acquisition stripping current with laser-induced breakdown spectroscopy for accurate analysis of Cd(II) in coexisting Cu(II)	Analytica Chimica Acta	10.1016/j.aca.2024.343121	Yang, Yuan-Fan; Song, Zong-Yin; Liu, Zi-Hao; Gao, Zhi-Wei; Cai, Xin; Huang, Cong-Cong; Yang, Meng; Li, Pei-Hua; Chen, Shi-Hua; Huang, Xing-Jiu	1325			
35	In Situ Laser-Induced Breakdown Spectroscopy for Chromium Speciation Analysis Based on the Interactions of Oxygen-Containing Groups with Functionalized Co ₃ O ₄ -rGO: Evidence from Advanced Optical Techniques and Density Functional Theoretical Calculations under Electric Field	Analytical Chemistry	10.1021/acs.analchem.3c03536	Huang, Cong-Cong; Song, Zong-Yin; Xiao, Xiang-Yu; Cai, Xin; Yang, Yuan-Fan; Chen, Shi-Hua; Li, Pei-Hua; Yang, Meng; Huang, Xing-Jiu	96	1	179	187
36	Ultrasensitive Fluorescent Microsensors Based on Aptamers Modified with SYBR Green I for Visual Quantitative Detection of Organophosphate Pesticides	Analytical Chemistry	10.1021/acs.analchem.4c01307	Zhang, Qianru; Liu, Anqi; Xu, Shihao; Lin, Dan; Jiang, Changlong	96	23	9636	9642
37	Ag Nanoparticles@Au Nanograting Array as a 3D Flexible and Effective Surface-Enhanced Raman Scattering Substrate	Analytical Chemistry	10.1021/acs.analchem.3c02710	Zhang, Xiang; Meng, Guowen; Huang, Zhulin; Zhu, Shuyi; Chen, Bin	96	16	6112	6121
38	Highly Stable Solid Contact Calcium Ion-Selective Electrodes: Rapid Ion-Electron Transduction Triggered by Lipophilic Anions Participating in Redox Reactions of CunS Nanoflowers	Analytical Chemistry	10.1021/acs.analchem.4c00590	Liu, Zi-Hao; Cai, Xin; Dai, Hai-Hua; Zhao, Yong-Huan; Gao, Zhi-Wei; Yang, Yuan-Fan; Liu, Yang-Zhi; Yang, Meng; Li, Min-Qiang; Li, Pei-Hua; Huang, Xing-Jiu	96	22	9069	9077

39	Atomically Precise Nanometer-Sized Pt Catalysts with an Additional Photothermy Functionality	Angewandte Chemie-International Edition	10.1002/anie.202402565	Wang, Runguo; Fang, Liang; Fan, Wentao; You, Qing; Bian, Guoqing; Zhou, Yue; Gu, Wanmiao; Liao, Lingwen; Wu, Zhikun	63	25		
40	Concomitant Near-Infrared Photothermy and Photoluminescence of Rod-Shaped Au ₅₂ (PET) ₃₂ and Au ₆₆ (PET) ₃₈ Synthesized Concurrently	Angewandte Chemie-International Edition	10.1002/anie.202407518	Gu, Wanmiao; Zhou, Yue; Wang, Wenyong; You, Qing; Fan, Wentao; Zhao, Yan; Bian, Guoqing; Wang, Runguo; Fang, Liang; Yan, Nan; Xia, Nan; Liao, Lingwen; Wu, Zhikun	63	32		
41	Gapped and Rotated Grain Boundary Revealed in Ultra-Small Au Nanoparticles for Enhancing Electrochemical CO ₂ Reduction	Angewandte Chemie-International Edition	10.1002/anie.202410109	Wang, Wenyong; Zhuang, Shengli; Zhou, Yue; Bian, Guoqing; Zhao, Yan; Xia, Nan; Liao, Lingwen; Wu, Zhikun				
42	Ultraviolet laser-driven ultra-high transverse voltage in Bi-2201 thin films	Applied Physics Letters	10.1063/5.0187603	Cheng, W. P.; He, Y. D.; Wei, R. H.; Hu, L.; Song, W. H.; Zhu, X. B.; Sun, Y. P.	124	7		
43	Strain regulated giant negative thermal expansion in hexagonal sulfides (Ni _{1-x} Fe _x) _{1-δ} S	Applied Physics Letters	10.1063/5.0209228	Lin, Jianchao; Tong, Peng; Zhang, Xuekai; Zhu, Xiaoguang; Shi, Tongfei; Lu, Wenjian; Song, Wenhai; Sun, Yuping	124	22		
44	Mn doping as a simple strategy for improving energy storage in BaBi ₄ Ti ₄ O ₁₅ thin films	Applied Physics Letters	10.1063/5.0217696	Gong, C. Z.; Yang, B. B.; Wei, R. H.; Liu, M.; Tong, H. Y.; Hu, L.; Zhu, X. B.; Sun, Y. P.; Zhang, R. R.;	125	2		
45	Colossal barocaloric effect of phase-change fatty acids	Applied Physics Letters	10.1063/5.0217663	Xiong, Tingjiao; Lin, Jianchao; Ye, Tingting; Pan, Xiaomei; Liu, Keke; Jiang, Runjian; Song, Wenhai; Tong, Peng/Zhang, Ranran/Sun, Yuping	125	6		
46	Large electrocaloric effect by disorder regulated structure in BaTiO ₃ -based system	Applied Physics Letters	10.1063/5.0227301	Xie, Lei; Dou, Jinqun; Yue, Ruidong; Tong, Peng; Yang, Jie; Song, Wenhai; Yin, Li-Hua; Sun, Yuping	125	19		
47	Evaluation of chemical mechanical polishing characteristics using mixed abrasive slurry: A study on polishing behavior and material removal mechanism	Applied Surface Science	10.1016/j.apsusc.2024.161157	Zhu, Xiaoxiao; Ding, Juxuan; Mo, Zhangchao; Fu, Hao; Gui, Yuziyu; Ban, Boyuan; Wang, Ling; Chen, Jian	679			
48	Spatially confined growth of VO ₂ (M) nanoparticles with improved thermochromic property	Ceramics International	10.1016/j.ceramint.2024.01054	Wu, Liangfei; Li, Ming; Li, Liang; Xu, Sichao; Zou, Fengxia; Li, Guanghai	50	7	11539	11547
49	Controllable hydrothermal synthesis of hollow ZnS nanospheres: Morphological evolution mechanism and photocatalytic performance	Ceramics International	10.1016/j.ceramint.2023.10247	Xu, Shao Hui; Fei, Guang Tao; Huang, Jian Yong; Xia, Kai; Wang, Biao	50	1	1556	1563
50	Textured piezoelectric ceramic CaBi ₂ Nb ₂ O ₉ obtained by a conventional solid-state reaction	Ceramics International	10.1016/j.ceramint.2024.02326	Zhao, Gaochao; Pan, Chengbing; Yin, Lihua; Song, Wenhai; Zhu, Xuebin; Yang, Jie; Sun, Yuping	50	11	18426	18434
51	Effect of quenching-free method on the microstructure and properties of low-temperature sintered glass-ceramic composites	Ceramics International	10.1016/j.ceramint.2024.04378	Chen, Lin; Sun, Jun; Ding, Jianjun; Li, Xiaoxiao; Gong, Yi; Zheng, Kang; Zhang, Xian; Tian, Xingyou; Zhang, Lan; Xiao, Meihui; Li, Jiali	50	15	26493	26502
52	Enhanced red emission of MgAl ₂ O ₄ :Cr ³⁺ /Mn ⁴⁺ -phosphor co-doped with alkali metal ions	Ceramics International	10.1016/j.ceramint.2024.07111	Zou, Fengxia; Li, Ming; Ma, Xiaofei; Li, Guanghai	50	19	37201	37207
53	Design of ZnS nanospheres antireflective structure for mid and far infrared applications	Ceramics International	10.1016/j.ceramint.2024.07104	Xu, Shao Hui; Hu, Xu Ran; Fei, Guang Tao; Huang, Jian Yong; Xia, Kai; Wang, Biao/Xu, Shao Hui; Hu, Xu Ran; Fei, Guang Tao; Huang, Jian Yong; Xia, Kai; Wang, Biao	50	19	37136	37146

54	Solution-processed wide band gap transparent conducting Sr 0.94 La 0.06 SnO3 films	Ceramics International	10.1016/j.ceramint.2024.08341	He, Y. D.; Wei, R. H.; Gong, C. Z.; Shao, C.; Hu, L.; Song, W. H.; Zhu, X. B.; Sun, Y. P.	50	22	46130	46135
55	Recent Progress in Atomically Dispersed Non-noble Metal Catalysts for Electrochemical Two-electron Oxygen Reduction Reaction	Chemelectrochem	10.1002/celec.202300630	Xu, Hui; Zhang, Shengbo; Zhang, Haimin				
56	Ambient electrosynthesis of urea with nitrate and carbon dioxide over a CuRu alloy catalyst	Chemical Communications	10.1039/d4cc04024d	Liu, Jiafang; Zhang, Shengbo; Li, Wenyi; Jin, Meng; Ding, Jun; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin	60	81	11592	11595
57	High selectivity electrocatalytic reductive amination of α -keto acids to alanine over cuprous oxide nanowires	Chemical Communications	10.1039/d4cc05399k	Xu, Min; Zhang, Shengbo; Liu, Jiafang; Xin, Yaqian; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin				
58	Combined Fe and Sr refining of Al-Si melt strategy for fabrication of hierarchical structure Si anodes	Chemical Engineering Journal	10.1016/j.cej.2024.151488	Ding, Juxuan; Sun, Jifei; Ban, Boyuan; Zhu, Xiaoxiao; Mo, Zhangchao; Chen, Jian	489			
59	Constructing of superhydrophobic and intact crystal terminal: Interface sealing strategy for stable perovskite solar cells with efficiency over 23% (vol 453, 139808, 2023)	Chemical Engineering Journal	10.1016/j.cej.2024.149941	Xu, Shendong; Zhang, Liying; Liu, Boyuan; Liang, Zheng; Xu, Huifen; Zhang, Hui; Ye, Jiajiu; Ma, Haibin; Liu, Guozhen; Pan, Xu	485			
60	Nanoconfinement regulation of La-Mg LDH/Ti3C2TX (T = O, OH) for effective removal of fluoride: Membrane fabrication and mechanism revelation	Chemical Engineering Journal	10.1016/j.cej.2024.152779	Wei, Jian; Wang, Wenlong; Ge, Liang; Lu, Jiandong; Hong, Peidong; Li, Yulian; Li, Yahui; Xie, Chao; Wu, Zijian; He, Junyong; Kong, Lingtao	493			
61	Design of microfluidic fluorescent sensor arrays for real-time and synchronously visualized detection of multi-component heavy metal ions	Chemical Engineering Journal	10.1016/j.cej.2024.152636	Li, Lingfei; Xu, Shihao; Li, Xingzhen; Gao, Hongcheng; Yang, Liang; Jiang, Changlong	493			
62	Heterostructure-anchored 3D CNT-bridged graphene architecture via layer-by-layer structural engineering for thick electrodes of supercapacitors	Chemical Engineering Journal	10.1016/j.cej.2024.154557	Song, Yanping; Li, Nian; Kang, Jun; Li, Zhao; Hong, Na; Chen, Liqing; Zhang, Shudong; Liu, Cui; Wang, Zhenyang	497			
63	Polystyrene shell-based "coconut-like" and "pomegranate-like" microencapsulated phase change materials: Formation mechanism, thermal conductivity/stability enhancement and their application in thermal management	Chemical Engineering Journal	10.1016/j.cej.2024.155758	Zhang, Wei; Pan, Rui; Yang, Jihua; Liu, Mengru; Yao, Yunle; Gong, Yi; Gan, Zhengya; Hu, Rui; Ding, Jianjun; Chen, Lin; Zhang, Xian; Tian, Xingyou	498			
64	Ca/Li Synergetic-Doped Na0.67Ni0.33Mn0.67O2 to Realize P2-O2 Phase Transition Suppression for High-Performance Sodium-Ion Batteries	Chemistry-A European Journal	10.1002/chem.202402313	Xiao, Ke; Zhao, Bangchuan; Bai, Jin; Mao, Yunjie; Wang, Peiyao; Wang, Siya; Zhu, Xuebin; Sun, Yuping	30	69		
65	Surface Modification Driven Initial Coulombic Efficiency and Rate Performance Enhancement of Li1.2Mn0.54Ni0.13Co0.13O2 Cathode	Chemsuschem	10.1002/cssc.202301281	Li, Wanyun; Zhao, Bangchuan; Bai, Jin; Wang, Peiyao; Mao, Yunjie; Xiao, Ke; Zhu, Xuebin; Sun, Yuping	17	2		
66	Spin fluctuations and orbital-selective superconductivity in Ba2CuO4-y: A FLEX study	Chinese Physics B	10.1088/1674-1056/ad8cbe	Zheng, Pei-Jun; Quan, Ya-Min; Zou, Liang-Jian	33	12		
67	Fabrication of superhydrophobic nonwoven fabric membrane by using a single-step facile strategy for enhanced oil-water separation	Colloids And Surfaces A: Physicochemical And Engineering Aspects	10.1016/j.colsurfa.2024.134242	Saeed, Abdul; Zhan, Deyi; Hu, Qi; Liu, Jinhuai	695			
68	Facile purification of glass fiber powder by sedimentation for enhanced epoxy resin composites	Colloids And Surfaces A- Physicochemical And Engineering Aspects	10.1016/j.colsurfa.2024.134259	Mo, Zhangchao; Zhu, Xiaoxiao; Ding, Juxuan; Ban, Boyuan; Sun, Jifei; Chen, Jian	695			

69	Release of ions enhanced the antibacterial performance of laser-generated, uncoated Ag nanoparticles	Colloids And Surfaces B-Biointerfaces	10.1016/j.colsurfb.2024.114131	Wu, Lingli; Wei, Shuxian; Cheng, Xiaohu; He, Ningning; Kang, Xingyu; Zhou, Hongyu; Cai, Yunyu; Ye, Yixin; Li, Pengfei; Liang, Changhao	243			
70	Self-deposited passivation for decreasing scalable processing loss of perovskite solar cells	Communications Materials	10.1038/s43246-024-00585-2	Tao, Yuli;Liang, Zheng;Ye, Jiajiu;Xu, Shendong;Zhang, Hui;Xu, Huifen;Yang, Quan;Pan, Xu	5	1		
71	R-Phase Transformation Evolution in NiTi SMA Wires Studied via the Internal Friction Technique	Crystals	10.3390/cryst14050476	Xu, Yuhao; Chen, Junlan; Wang, Xinggang; Sun, Meng; Wang, Xianping; Jiang, Weibin	14	5		
72	An oxygen-coordinated cobalt single-atom electrocatalyst boosting urea and urea peroxide production	Energy & Environmental Science	10.1039/d3ee03399f	Zhang, Shengbo; Jin, Meng; Xu, Hui; Zhang, Xinyuan; Shi, Tongfei; Ye, Yixing; Wang, Guozhong; Zhang, Yunxia; Yin, Huajie; Zhang, Haimin	17	5	1950	1960
73	Non-sacrificial anionic surfactant with high HOMO energy level as a general descriptor for zinc anode	Energy Storage Materials	10.1016/j.ensm.2024.103525	Wei, Tingting; Mo, Li'e; Li, Zhaoqian; Hu, Linhua	70			
74	How Does Temperature Affect the Charge Transfer Process in Flow Electrode Capacitive Deionization?	Environmental Science & Technology	10.1021/acs.est.4c01085	Zhang, Xinyuan; Zhou, Hongjian; Zhang, Haimin	58	33	14886	14894
75	Selenium absorption, translocation and biotransformation in pak choi (<i>Brassica chinensis</i> L.) after foliar application of selenium nanoparticles	Food Chemistry	10.1016/j.foodchem.2024.141439	Li, Wenchao; Ye, Yixing; Tang, Qi; Shen, Yue; Zou, Zidan; Zhou, Hongjian; Liang, Changhao; Wang, Guozhong	463			
76	Key electronic parameters of 2H-stacking bilayer MoS ₂ on sapphire substrate determined by terahertz magneto-optical measurement in Faraday geometry	Frontiers of Physics	10.1007/s11467-024-1425-4	Cheng, Xingjia; Xu, Wen; Wen, Hua; Zhang, Jing; Zhang, Heng	19	6		
77	Machine learning - assisted prediction of yield strength in irradiated type 316 stainless steels	Fusion Engineering And Design	10.1016/j.fusengdes.2024.114691	Wang, Ziqiang; Wu, Xuebang	208			
78	Solution-Processed CuSCN Films with Low Toxic and Environmentally Friendly Solvent for Efficient All-Inorganic CuInS ₂ Solar Cells	Ieee Electron Device Letters	10.1109/LED.2024.3477430	Kuang, Jiajin;Liu, Rong;Cao, Wenbo;Wang, Yang;Chen, Chong;Wang, Mingtai	45	12	2307	2310
79	Computing imaging in shortwave infrared bands enabled by MoTe ₂ /Si 2D-3D heterojunction-based photodiode	Infomat	10.1002/inf2.12618	Chen, Jiawang; Li, Ming; Li, Liang;Shi, Dongfeng; Guo, Zijun; He, Zixin; Wang, Yingjian				
80	Yolk-shell type carbon-silica nanoarchitecture with dispersed and stabilized Ru nanoparticles for enhanced hydrogenation of aromatic compounds	Inorganic Chemistry Frontiers	10.1039/d4qi00553h	Yan, Lu; Shen, Yue; Zou, Zidan; Zhang, Xiao; Wang, Guozhong; Chen, Chun	11	11	3285	3295
81	Cobalt and lithium recovery from spent LiCoO ₂ using a free-standing potassium zinc hexacyanoferrate/carbon cloth composite electrode	Inorganic Chemistry Frontiers	10.1039/d4qi01752h	Ye, Mengxiang; Li, Huaimeng; Wu, Xi; Zhang, Guofeng; Zhang, Yunxia				
82	High-performance electrocatalytic nitrate reduction into ammonia using a chitosan regulated Co nanocatalyst	Inorganic Chemistry Frontiers	10.1039/d4qi02058h	Xin, Yaqian; Zhang, Shengbo; Liu, Jiafang; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin	11	23	8371	8376
83	Efficient electrosynthesis of alanine from α -keto acids over a self-supported electrocatalyst with superior activity	Inorganic Chemistry Frontiers	10.1039/d4qi02520b	Xu, Min; Zhang, Shengbo; Liu, Jiafang; Xu, Hui; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin				
84	Design of high-entropy antiperovskite metal nitrides as highly efficient electrocatalysts for oxygen evolution reaction	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2023.07.011	Zhu, Lili;Li, Changdian;Zheng, Ruobing;Cheng, Wangping;He, Yuandi;Gong, Chengzhuang;Liu, Miao;Huang, Yanan;Zhu, Xuebin;Sun, Yuping	51		638	647

85	Synthesis of MS2 (M = Mo, W) thin films by chemical solution deposition	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2024.07.113	Huan, Jie; Zhu, Lili; Li, Changdian; Chen, Qian; Zheng, Ruobing; He, Yuandi; Gong, Chengzhan; Wei, Renhuai; Zhu, Xuebin; Sun, Yuping	79		1037	1043
86	A machine learning methodology for investigating the liquid-liquid transition of hydrogen under high-pressure	International Journal of Modern Physics C	10.1142/S0129183124501523	Li, Shao; Zhang, Chuanguo; Wang, Xianlong; Zeng, Zhi				
87	Temperature effects on annealing crucial deep-level defects in neutron-irradiated silicon: Multiscale modeling	International Journal of Modern Physics C	10.1142/S0129183124501857	Liu, Jun; Li, Yonggang; Gao, Yang; Zhang, Chuanguo; Zeng, Zhi				
88	Ultrafine-grained surface layer of tungsten via a simple two-step microstructure modulation	International Journal of Refractory Metals And Hard Materials	10.1016/j.ijrmhm.2024.106675	Wang, H.; Xie, Z. M.; Yu, M. L.; Liu, R.; Fang, Q. F.; Wang, X. P.; Liu, C. S.; Wu, Xuebang	121			
89	Temperature dependence of the friction and wear behavior of pure tungsten	International Journal of Refractory Metals And Hard Materials	10.1016/j.ijrmhm.2024.106787	Ding, C.S.;Xie, X.F.;Xie, Z.M.;Liu, R.;Wu, X.B.;Fang, Q.F.;Liu, C.S.;Wang, X.P.	123			
90	Three-dimensional multi-layer carbon tube electrodes for AC line-filtering capacitors	Joule	10.1016/j.joule.2024.01.026	Chen, Gan; Han, Fangming; Lin, Dou; Zhang, Shiping; Pan, Qijun; Shao, Cheng; Wang, Zhaoming; Zhu, Xiaoguang; Meng, Guowen	8	4		
91	A zero-thermal-expansion composite with enhanced thermal and electrical conductivities resulting from 3D interpenetrating copper network	Journal of Alloys And Compounds	10.1016/j.jallcom.2024.173504	Sun, Yuping/Dong, Buke; Tong, Peng; Xie, Lulu; Liu, Keke; Xiong, Tingjiao; Zhu, Xiaoguang; Lin, Jianchao; Song, Wenhai; Sun, Yuping	978			
92	Effects of vanadium content on the microstructure and tensile properties of NbTiVxZr high-entropy alloys	Journal of Alloys And Compounds	10.1016/j.jallcom.2024.174227	Wang, X.G.;Sun, M.;Liu, J.X.;Liu, X.Q.;Jiang, W.B.;Fang, Q.F.;Wang, X.P.	987			
93	Extremely low loss and high electrical resistivity in CaBi2Nb2O9 high-temperature piezoelectric ceramic by adding WO3	Journal of Alloys And Compounds	10.1016/j.jallcom.2024.175544	Pan, Chengbing; Zhao, Gaochao; Yin, Lihua; Song, Wenhai; Zhu, Xuebin; Yang, Jie; Sun, Yuping	1003			
94	Continuous strain-mediated perpendicular magnetic anisotropy in epitaxial (111) CoFe2O4 thin films grown on LiTaO3 substrates	Journal of Applied Physics	10.1063/5.0185399	Wang, S.; Hu, L.; Zhang, G. D.; Wei, R. H.; Song, W. H.; Zhu, X. B.; Sun, Y. P.	135	12		
95	Machine Learning Model for the Prediction of Hubbard U Parameters and Its Application to Fe-O Systems	Journal of Chemical Theory And Computation	10.1021/acs.jctc.4c01004	Xia, Wenming; Chen, Guo; Zhu, Yuanqin; Wang, Xianlong				
96	Manganese doping strategy for enhanced capacitive deionization performance of MoS2	Journal of Environmental Chemical Engineering	10.1016/j.jece.2024.113277	Li, Zeyang;Zhou, Hongjian;Wang, Guozhong	12	4		
97	Vacancy-strengthened Cu/Co composite oxides for efficient removal of methylene blue via peroxymonosulfate activation: Synergism of multiple Lewis acid sites	Journal of Environmental Chemical Engineering	10.1016/j.jece.2024.113889	Zhang, Wanqi; Zhu, Runchen; Pan, Fakang; Xie, Chao; He, Junyong; Wu, Zijian; Li, Yulian; Li, Yahui; Lu, Jiandong; Hong, Peidong; Kong, Lingtao	12	5		
98	Synergistic activation of P and orbital coupling effect for ultra-sensitive and selective electrochemical detection of Cd(II) over Fe-doped CoP	Journal of Hazardous Materials	10.1016/j.jhazmat.2023.132842	Gao, Zhi-Wei;Li, Yong-Yu;Li, Pei-Hua;Yang, Yuan-Fan;Zhao, Yong-Huan;Yang, Meng;Chen, Shi-Hua;Song, Zong-Yin;Huang, Xing-Jiu	463			
99	Multi-deformable interpenetrating network thermosensitive hydrogel fluorescent device for real-time and visual detection of nitrite	Journal of Hazardous Materials	10.1016/j.jhazmat.2024.135471	Li, Lingfei; Lin, Dan; Xu, Shihao; Yang, Liang; Jiang, Changlong	478			

100	PdFe alloy nanoparticles supported on nitrogen-doped carbon nanotubes for electrocatalytic upcycling of poly(ethylene terephthalate) plastics into formate coupled with hydrogen evolution	Journal of Materials Chemistry A	10.1039/d3ta07827b	Zhang, Heng; Liu, Zhenzhen; Li, Huaimeng; Fu, Zhen; Zhang, Guofeng; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia				
101	Carbon quantum dots-embedded reduced graphene oxide compact films for highly pressure-tolerant electrodes	Journal of Materials Chemistry A	10.1039/d4ta03719g	Lin, Dou; Zhou, Ziyang; Chen, Bin; Huang, Zhulin; Tang, Haibin; Zhu, Xiaoguang; Shao, Cheng; Han, Fangming	12	31	19885	19890
102	3D graphene decorated with nickel nanoparticles: in situ synthesis, enhanced dispersibility, and absorption-dominated electromagnetic interference shielding	Journal of Materials Chemistry C	10.1039/d3tc04134d	Chen, Liqing; Li, Nian; Liu, Cui; Song, Yanping; Li, Zhao; Kang, Jun; Wang, Wenbo; Hong, Na; Ge, Hu; Yang, Pengzhan; Zhang, Shudong; Wang, Zhenyang/Chen, Liqing; Li, Nian; Yu, Xinling; Liu, Cui; Song, Yanping; Li, Zhao; Kang, Jun; Wang, Wenbo; Hong, Na; Ge, Hu; Yang, Pengzhan; Zhang, Shudong; Wang, Zhenyang	12	10	3579	3588
103	Tungsten-doped barium stannate as a transparent conducting film	Journal of Materials Chemistry C	10.1039/d3tc04314b	He, Yuandi; Wei, Renhuai; Hu, Ling; Song, Wenhui; Zhu, Xuebin; Sun, Yuping	12	7	2639	2645
104	Valence state regulation of iron oxide composited with graphene towards negative electrodes in asymmetric supercapacitors	Journal of Materials Chemistry C	10.1039/d4tc00802b	Song, Zhihao; Li, Nian; Kang, Jun; Chen, Liqing; Song, Yanping; Li, Zhao; Hong, Na; Zhang, Shudong; Wang, Zhenyang	12	20	7325	7337
105	A biomimetic aluminum composite exhibiting gradient-distributed thermal expansion, high thermal conductivity, and highly directional toughness	Journal of Materials Science And Technology	10.1016/j.jmst.2024.06.025	Dong, B. Ke; Lin, J. Chao; Xie, L. Lu; Liu, K. Ke; Xiong, T. Jiao; Song, W. Hai; Tong, Peng; Sun, Y. Ping/Sun, Y. Ping	213		90	97
106	Significantly improved interfacial properties of silicon dioxide nanowire functionalized poly(p-phenylene-2,6-benzobisoxazole) (PBO) fibers/polytetrafluoroethylene (PTFE) wave-transparent laminated composites	Journal of Materials Science And Technology	10.1016/j.jmst.2023.09.052	He, Xusheng;Xiao, Chao;Wang, Yanyan;Ding, Xin;Zheng, Kang;Tian, Xingyou;Zhang, Xian	183		232	240
107	The formation mechanism of twin type shear bands in β -HfMX: molecular rotation and translation	Journal of Molecular Modeling	10.1007/s00894-023-05825-9	Li, Jiahui; Zhang, Chuanguo; Wang, Yu; Zeng, Zhi	30	2		
108	Effect of hydrogen–helium interaction on their segregation and desorption at the W/HfC interfaces by first-principles calculations	Journal of Nuclear Materials	10.1016/j.jnucmat.2024.154974	Zhang, Yuxiang;Zhang, Yange;Li, Xiangyan;Xu, Yichun;Xie, Z.M.;Liu, R.;Liu, C.S.;Wu, Xuebang	592			
109	H dissolution and desorption near He-V complexes in W surfaces with different orientations	Journal of Nuclear Materials	10.1016/j.jnucmat.2023.154804	Wei, Liuming;Li, Jingwen;Li, Yonggang;Zheng, Qirong;Cheng, Fan;Zhang, Chuanguo;Li, Jingyu;Zeng, Zhi	588			
110	Prediction of the energetics of stable self-interstitial atoms at tungsten grain boundaries via machine learning	Journal of Nuclear Materials	10.1016/j.jnucmat.2024.154992	Li, Xiaolin;Hu, Yi;Li, Xiangyan;Zhang, Yange;Xu, Yichun;Wu, Xuebang;Liu, C.S.	593			
111	Surface blistering and D desorption in high-energy-rate forging W, W-Y2O3, W-TiC exposed to deuterium plasma	Journal of Nuclear Materials	10.1016/j.jnucmat.2024.155079	Xie, X. F.; Xie, Z. M.; Wang, H.; Liu, R.; Fang, Q. F.; Liu, C. S.; Wu, X. B.	596			
112	Absorption bias: A descriptor for radiation tolerance of polycrystalline BCC metals	Journal of Nuclear Materials	10.1016/j.jnucmat.2024.155295	Wei, Liuming; Zhao, Zhe; Li, Yonggang; Zheng, Qirong; Zhang, Chuanguo; Li, Jingyu; Zeng, Zhi	600			
113	Thermal shock resistance of nanocrystalline and ultrafine-grained W-Y2O3-Ti alloys	Journal of Nuclear Materials	10.1016/j.jnucmat.2024.155384	Xie, Z. M.; Wang, H.; Liu, R.; Wang, X. P.; Fang, Q. F.; Liu, C. S.; Wu, X. B.	603			

114	Group III (In/Ga)-V (P/As)-VI (S/Se) Monolayers: A New Class of Auxetic Semiconductors with Highly Anisotropic Electronic/Optical/Mechanical/Thermal Properties	Journal of Physical Chemistry Letters	10.1021/acs.jpcelett.4c00156	Li, Pengfei;Liang, Changhao	15	11	3043	3054
115	Extraordinary Polarization and Thickness Dependences of Photocarrier Dynamics in PdSe ₂ Ribbons	Journal of Physical Chemistry Letters	10.1021/acs.jpcelett.4c00765	Yang, Jin; Wang, Yunfeng; Su, Fuhai	15	16	4276	4285
116	Chirality-selective topological magnon phase transition induced by interplay of anisotropic exchange interactions in honeycomb ferromagnet	Journal of Physics Condensed Matter	10.1088/1361-648X/ad31c1	Ni, Jin-Yu;Zheng, Xia-Ming;Wei, Peng-Tao;Liu, Da-Yong;Zou, Liang-Jian	36	25		
117	Chiral charge density wave induced by mirror symmetry breaking in kagome metal	Journal of Physics Condensed Matter	10.1088/1361-648X/ad0cae	Liu, Jing; Wu, Wen-Feng; Bai, Xiao-Cheng; Zeng, Zhi; Zou, Liang-Jian	36	9		
118	High-temperature magnetically topological candidate material Mn ₃ Bi ₂ Te ₆	Journal of Physics Condensed Matter	10.1088/1361-648X/ad136d	Wu, Wen-Feng; Huang, Xiao-Teng; Wang, Han-Yu; Zeng, Zhi; Zou, Liang-Jian	36	12		
119	Electronic instability in pressured black phosphorus under strong magnetic field	Journal of Physics Condensed Matter	10.1088/1361-648X/ad5ad4	Wang, Zhong-Yi; Zou, Liang-Jian	36	39		
120	Preparation and performance of long-life PEO-based solid-state batteries based on the complexation of 15 Crown ether 5 with lithium salt	Journal of Power Sources	10.1016/j.jpowsour.2024.235376	Li, Shi Jia; Fei, Guang Tao; Xu, Shao Hui; Chen, Wen Chao; Xu, Hai Yan; Qu, Xiao Xuan	623			
121	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	107	4	2348	2359
122	Microstructure evolution of zirconium boride whiskers prepared by electrospinning and their toughening effect	Journal of The American Ceramic Society	10.1111/jace.20057	Yang, Chengwan; Li, Xinyang; Yu, Jie; Yuan, Jieyan; Li, Ming; Hu, Xiaoye; Huang, Zhulin; Li, Yue/Yang, Chengwan; Li, Xinyang; Yu, Jie; Yuan, Jieyan; Li, Ming; Hu, Xiaoye; Huang, Zhulin; Li, Yue				
123	Bottom-Up Construction of Metal-Organic Framework Loricæ on Metal Nanoclusters with Consecutive Single Nonmetal Atom Tuning for Tailored Catalysis	Journal of The American Chemical Society	10.1021/jacs.3c13635	You, Qing; Zhao, Yan; Fan, Wentao; Gu, Wanmiao; Wu, Zhikun				
124	Effective electro-removal of glyphosate and glufosinate from aqueous solutions via capacitive deionization	Journal of Water Process Engineering	10.1016/j.jwpe.2024.105500	Mao, Hengjian; Zhou, Hongjian	63			
125	Construction of the Au Nanoparticle/Graphene Oxide/Au Nanotube (AuNP/GO/AuNT) Sandwich Membrane for Surface-Enhanced Raman Scattering Sensing	Langmuir	10.1021/acs.langmuir.3c03670	Zhang, Haibao; Lin, Yongxing; Wang, Liang; Cai, Cheng; He, Hui; Tian, Xingyou/Zhang, Haibao; Lin, Yongxing; Wang, Liang; Cai, Cheng; He, Hui; Tian, Xingyou	40	13	6806	6815
126	Synthesis and growth mechanism of highly crystalized multi-branched HfB ₂ microrods with self-toughening effect	Materials & Design	10.1016/j.matdes.2024.113196	Li, Kewei; Huang, Zhulin; Li, Xinyang; Wang, Zhen; Hu, Menggen; Wang, Tianxu; Hu, Xiaoye; Li, Yue; Zhang, Xinghong/Li, Kewei; Huang, Zhulin; Li, Xinyang; Wang, Zhen; Hu, Menggen; Wang, Tianxu; Hu, Xiaoye; Li, Yue; Zhang, Xinghong	244			
127	Re-dissolution of precipitates in reactor pressure vessel steels evaluated by internal friction technique	Materials Letters	10.1016/j.matlet.2024.135916	Liu, Xueqing; Sun, Meng; Wang, Xinggang; Liu, Jiaxin; Fang, Qianfeng	359			

128	Improved thermoelectric performance of n-type BiTeSe based composites incorporated with PEDOT: PSS polymer nanoinclusions	Materials Today Chemistry	10.1016/j.mtchem.2024.102008	Li, Shujin;Chen, Tao;Danish, Mazhar Hussain;Yao, Gang;Chen, Ke;Li, Di;Xin, Hongxing;Zhang, Jian;Qin, Xiaoying	37			
129	The evidences for the existence of evanescent wave-induced scattering in the transmission SAXS of high-density polyethylene	Materials Today Communications	10.1016/j.mtcomm.2023.107751	Li, Xiangyang;Lin, Yongxing;Tian, Xingyou	38			
130	Vertically aligned Pt/MXene/carbon nanotubes aerogels for superior hydrogen evolution reaction	Materials Today Energy	10.1016/j.mtener.2024.101600	Zhang, Xiang; Wan, Rui; Wang, Yuguang; Wu, Xiaoxiao; Chen, Han; Pan, Qijun; Chen, Bin	43			
131	Enhanced performance of perovskite solar cells with multifunctional organic interface conditioner	Materials Today Energy	10.1016/j.mtener.2024.101726	Bao, Mengyuan; Kong, Fantai; Liu, Wenjun; Gao, Bin	46			
132	An Extended-Isomap for high-dimensional data accuracy and efficiency: a comprehensive survey	Multimedia Tools And Applications	10.1007/s11042-024-19917-y	Yousaf, Mahwish; Shakoor Khan, Muhammad Saadat	83	38	85523	85574
133	A nanomaterial-regulated oxidation of hole transporting layer for highly stable and efficient perovskite solar cells	Nano Energy	10.1016/j.nanoen.2024.109438	Jin, Mengqi;Chen, Chong;Dong, Chao;Wang, Mingtai	123			
134	Antielectric Potential Synthesis of Plasmonic Au-Ag Multidimensional Dimers Array for High-Resolution Encrypted Information	Nano Letters	10.1021/acs.nanolett.4c00444	Zeng, Pan; Chen, Zhiming; Cao, An; Wen, Lulu; Zhong, Shichuan; Wang, Yifan; Li, Yue				
135	Controlled Sequential Doping of Metal Nanocluster	Nano Letters	10.1021/acs.nanolett.3c04395	Zhou, Yue; Gu, Wanmiao; Wang, Runguo; Hu, Zhiyuan; Xia, Nan; Wu, Zhikun	24	7	2226	2233
136	An Ultra-broadband Metallic Plasmonic Antenna for Ultrasensitive Molecular Fingerprint Identification	Nano Letters	10.1021/acs.nanolett.4c01562	Zhong, Shichuan; Liu, Dilong; Cai, Weiping; Li, Yue	24	22	6805	6812
137	Heterostructure Cu3P-Ni2P/CP catalyst assembled membrane electrode for high-efficiency electrocatalytic nitrate to ammonia	Nano Research	10.1007/s12274-024-6474-z	Jin, Meng; Liu, Jiafang; Zhang, Shengbo; Li, Wenyi; Sun, Dianding; Zhang, Yunxia; Wang, Guozhong; Zhang, Haimin				
138	Functional Nanomaterials for Sensing and Detection	Nanomaterials	10.3390/nano14010128	Cai, Weiping	14	1		
139	Oxygen-Coordinated Single Mn Sites for Efficient Electrocatalytic Nitrate Reduction to Ammonia	Nano-Micro Letters	10.1007/s40820-023-01217-z	Zhang, Shengbo; Zha, Yuankang; Ye, Yixing; Wang, Guozhong; Zhang, Yunxia; Yin, Huajie; Shi, Tongfei; Zhang, Haimin	16	1		
140	High Density 3D Carbon Tube Nanoarray Electrode Boosting the Capacitance of Filter Capacitor	Nano-Micro Letters	10.1007/s40820-024-01458-6	Chen, Gan; Han, Fangming; Li, Pei; Zhou, Ziyan; Wang, Pengxiang; Meng, Guowen	16	1		
141	Biomass-derived lightweight SiC aerogels for superior thermal insulation	Nanoscale	10.1039/d3nr06076d	Zheng, Chunxue; Li, Xinyang; Yu, Jie; Huang, Zhulin; Li, Ming; Hu, Xiaoye; Li, Yue				
142	Recent progress in critical electrode and electrolyte materials for flexible zinc-ion batteries	Nanoscale	10.1039/d3nr06207d	Mao, Yunjie; Zhao, Bangchuan; Bai, Jin; Wang, Peiyao; Zhu, Xuebin; Sun, Yuping	16	10	5042	5059
143	Origin of the near-room temperature resistance transition in lutetium with H2/N2 gas mixture under high pressure	National Science Review	10.1093/nsr/nwad337	Peng, Di	11	7		
144	Rapid fabrication of gold microsphere arrays with stable deep-pressing anisotropic conductivity for advanced packaging	Nature Communications	10.1038/s41467-024-53407-x	Cao, An; Gong, Yi; Liu, Dilong; Tian, Xingyou; Li, Yue	15	1		
145	Dual endogenous stimulus-responsive Fe3O4@enzymes@ZIF-8 nanocomposites promote enzymatic circulation chemotherapy	New Journal of Chemistry	10.1039/d4nj00660g	Zhou, Xuezhi; Wu, Zhaoguo; Wang, Jin; Zhao, Aiwu	48	25	11476	11486

146	Central role of d-band energy level in Cu-based intermetallic alloys	Npj Computational Materials	10.1038/s41524-024-01257-y	Zhao, Jing; Xia, Wenming; Zeng, Zhi; Wang, Xianlong	10	1		
147	Microstructural evolution and hardening of W-ZrC, W-1Re-ZrC and W-3Re-ZrC alloys induced by He ions irradiation	Nuclear Materials And Energy	10.1016/j.nme.2024.101729	Fu, Y. J.; Wang, H.; Xie, Z. M.; Liu, R.; Wang, X. P.; Fang, Q. F.; Liu, C. S.; Wu, X. B.	40			
148	Formation mechanism of recrystallisation internal friction peak and its application to determine the recrystallisation temperature of deformed pure Cu	Philosophical Magazine Letters	10.1080/09500839.2024.2302628	Chen, Tianlu; Sun, Meng; Yang, Run; Liu, Rui; Jiang, Weibin; Wu, Xuebang; Wang, Xianping; Liu, Changsong; Fang, Qianfeng	104	1		
149	Dipole-multipole plasmonic coupling between gold nanorods and titanium nitride nanoparticles for enhanced photothermal conversion	Physical Chemistry Chemical Physics	10.1039/d3cp05933b	Xi, Min; Liu, Cui; Li, Nian; Zhang, Shudong; Wang, Zhenyang	26	7	6196	6207
150	The effect of interface polarity on the basal dislocations at the GaN/AlN interface	Physical Chemistry Chemical Physics	10.1039/d4cp03069a	Yang, Yuming; Qin, Mi; Liu, Jun; Zhang, Chuanguo; Li, Yonggang; Zeng, Zhi				
151	Electronic band structure of high-symmetry homobilayers of transition metal dichalcogenides	Physical Review B	10.1103/PhysRevB.110.115410	Zhang, Heng; Xu, Wen	110	11		
152	Nonequilibrium dynamics of charge and lattice in pressurized SnSe	Physical Review B	10.1103/PhysRevB.110.195204	Wang, Xinyao; Xu, Shujuan; Su, Fuhai	110	19		
153	Ultrahigh hydrogen diffusivities in Al ₂ O ₃ under high pressure	Physical Review B	10.1103/PhysRevB.110.144310	Zhu, Yuanqin; Zeng, Zhi; Wang, Xianlong	110	14		
154	Tunable metal-insulator transition in strained V ₂ O ₃ thin films epitaxially grown on SiC substrates	Physical Review Materials	10.1103/PhysRevMaterials.8.035001	Zhang, G.D.;Hu, L.;Wang, S.;Wei, R.H.;Song, W.H.;Zhu, X.B.;Sun, Y.P.	8	3		
155	Penetration of arbitrary double potential barriers with probability unity: Implications for testing the existence of a minimum length	Physical Review Research	10.1103/PhysRevResearch.6.013087	Yang, Yong	6	1		
156	High-temperature relaxation promoting form II-to-form I phase transition of Polybutene-1	Polymer	10.1016/j.polymer.2024.126893	Han, Yu;Li, Xiangyang;Liu, Tangguo;Ding, Jianjun;Lin, Yongxing;Chen, Lin;Tian, Xingyou	297			
157	The comparison of polymerization activity of typical cationic quaternary ammonium salt monomers	Polymers For Advanced Technologies	10.1002/pat.6277	Ming, Anqi; Li, Xiaoxiao; Sun, Jun; Liu, Yanyan; Tian, Xingyou; Wang, Hua; Chen, Lin	35	1		
158	Mechanical Properties and Thermal Stability of W-ZrC/HfC-Re Alloys Fabricated by Spark Plasma Sintering	Rare Metal Materials And Engineering	10.12442/j.issn.1002-185X.20230729	Wang Hui; Ding Chenshi; Xie Zhuoming; Liu Rui; Fang Qianfeng; Wang Xianping; Liu Changsong; Wu Xuebang	53	5	1321	1331
159	Improved performance by plasmon resonance in GaAs solar cells: a numerical expectation	Rare Metals	10.1007/s12598-024-02856-w	Wang, Yang; Wan, Zhi-Yang; Kuang, Jia-Jin; Wang, Ming-Tai				
160	Free-standing cubic gauche nitrogen stable at 760 K under ambient pressure	Science Advances	10.1126/sciadv.adq5299	Xu, Yuxuan; Chen, Guo; Du, Fei; Li, Ming; Wu, Liangfei; Yao, Deyuan; Ding, Junfeng; Zeng, Zhi; Wang, Xianlong	10	39		
161	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	67	2	523	528
162	Remarkable stability of γ -N ₂ and its prevalence in the nitrogen phase diagram	Scientific Reports	10.1038/s41598-024-66493-0	Yan, Jinwei; Liu, Xiao-Di; Gregoryanz, Eugene	14	1		

163	Micro-heater embedded Ni-SnO ₂ ordered nanoporous films: On-chip fabrication for fast, sensitive, and selective gas sensing towards multiple VOCs for air quality monitoring	Sensors And Actuators B: Chemical	10.1016/j.snb.2023.134907	Lei, Biao;Zhang, Hongwen;Zhao, Qian;Wei, Yi;Lu, Yanyan;Yang, Xiaowei;Zhang, Wenquan;Xiao, Tingting;Cai, Weiping	401			
164	Green recycling of spent LiCoO ₂ cathodes using a water-based deep eutectic solvent	Separation And Purification Technology	10.1016/j.seppur.2024.128808	Wu, Xi; Liu, Zhenzhen; Li, Huaimeng; Fu, Zhen; Zhang, Guofeng; Zhang, Haimin; Wang, Guozhong; Zhang, Yunxia	354			
165	Multidimensional Silicon Anodes via Sn Modified Al-Si Dealloying for high Performance lithium-ion Batteries	Silicon	10.1007/s12633-024-03015-7	Ding, Juxuan; Ban, Boyuan; Zhu, Xiaoxiao; Mo, Zhangchao; Wang, Ling; Chen, Jian				
166	Study on the Flotation Behavior and Mechanism of Glass Fiber Powder	Silicon	10.1007/s12633-024-02984-z	Mo, Zhangchao; Zhu, Xiaoxiao; Ding, Juxuan; Wang, Ling; Ban, Boyuan; Sun, Jifei; Chen, Jian				
167	Phase-Tunable Molybdenum Boride Ceramics as an Emerging Sensitive and Reliable SERS Platform in Harsh Environments	Small	10.1002/sml.202308690	Cao, Liang; Hu, Megen; Dang, Xian; Yang, Chengwan; Li, Xinyang; Wang, Zhen; Li, Kewei; Hu, Xiaoye; Li, Yue; Huang, Zhulin; Meng, Guowen				
168	Pt Single-Atoms on Structurally-Integrated 3D N-Doped Carbon Tubes Grid for Ampere-Level Current Density Hydrogen Evolution	Small	10.1002/sml.202309067	Pan, Qijun; Wang, Yuguang; Chen, Bin; Zhang, Xiang; Lin, Dou; Yan, Sisi; Han, Fangming; Meng, Guowen				
169	Oxygen Vacancies on NH ₄ V ₄ O ₁₀ Accelerate Ion and Charge Transfer in Aqueous Zinc-Ion Batteries	Small	10.1002/sml.202306972	Peng, Yuqi;Mo, Li'e;Wei, Tingting;Wang, Yifan;Li, Zhaoqian;Huang, Yang;Hu, Linhua	20	11		
170	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	20	21		
171	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	20	11		
172	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;Sun, Jifei	20	21		
173	Tailoring the d-Band Center of WS ₂ by Metal and Nonmetal Dual-Doping for Enhanced Electrocatalytic Nitrogen Reduction	Small	10.1002/sml.202407594	Wen, Lulu; Li, Xinyang; Zhong, Shichuan; Zeng, Pan; Hu, Xiaoye; Cai, Weiping; Li, Yue	20	50		
174	Compact Carbon-Based Ultra-High-Power Electrodes: A Sodium Alginate-Induced Self-Shrinkage and Densification Approach	Small	10.1002/sml.202407475	Lin, Dou; Li, Pei; Zhou, Ziyang; Jiang, Suxia; Fan, Yonghui; Zhang, Guofeng; Meng, Guowen; Han, Fangming				
175	Background-Free Imaging of Food Freshness Using Curcumin-Functionalized Upconversion Reversible Hydrogel Patch	Small	10.1002/sml.202405812	Jiang, Ruoxuan; Yang, Fan; Kang, Xiaohui; Li, Xingzhen; Jia, Wei; Pan, Lei; Yang, Liang				
176	Development of tough and stiff elastomers by leveraging hydrophilic-hydrophobic supramolecular segment interaction	Soft Matter	10.1039/d4sm01182a	Yang, Jihua; Zhang, Wei; Pan, Rui; Zhuo, Yizhi; Liu, Mengru; Gong, Yi; Hu, Rui; Ding, Jianjun; Chen, Lin; Zhang, Xian; Tian, Xingyou				

177	Effect of sodium content on electrochemical performance of Prussian Blue analogues electrode materials for sodium ion batteries	Solid State Ionics	10.1016/j.ssi.2024.116462	Chen, Wen Chao; Xu, Shao Hui; Fei, Guang Tao; Li, Shi Jia; Xu, Hai Yan/Chen, Wen Chao; Xu, Shao Hui; Fei, Guang Tao; Li, Shi Jia; Xu, Hai Yan	406			
178	Preparation and Capacitive Properties of Laser-assisted Ordered Porous Tantalum Foils	Surface Technology	10.16490/j.cnki.issn.1001-3660.2024.20.018	Wang, Wenbo;Kang, Jun;Li, Nian;Pu, Jingwen;Kong, Mingguang;Wang, Zhenyang	53	20	198	207
179	Photocatalytic assisted chemical mechanical polishing for silicon carbide using developed ceria coated diamond core-shell abrasives	Tribology International	10.1016/j.triboint.2024.109827	Zhu, Xiaoxiao; Gui, Yuziyu; Fu, Hao; Ding, Juxuan; Mo, Zhangchao; Ban, Boyuan; Wang, Ling; Chen, Jian	197			
180	Mechanical property and thermal shock behavior of tungsten-ytria-stabilized zirconia cermet fabricated by spark plasma sintering	Tungsten	10.1007/s42864-023-00219-z	Zhang, Lin-Chao;Jing, Ke;Liu, Rui;Xie, Zhuo-Ming;Yang, Jun-Feng;Wang, Xian-Ping;Wu, Xue-Bang;Fang, Qian-Feng;Liu, Chang-Song	6	1	134	140
181	A deep learning interatomic potential suitable for simulating radiation damage in bulk tungsten	Tungsten	10.1007/s42864-023-00230-4	Ding, Chang-Jie;Lei, Ya-Wei;Li, Xiao-Lin;Li, Xiang-Yan;Zhang, Yan-Ge;Xu, Yi-Chun;Liu, Chang-Song;Wu, Xue-Bang	6	2	304	322
182	Achieving a remarkable low-temperature tensile ductility in a high-strength tungsten alloy	Tungsten	10.1007/s42864-023-00218-0	Cheng, Xiang;Xie, Zhuo-Ming;Xie, Xue-Feng;Liu, Rui;Yang, Jun-Feng;Wu, Xue-Bang;Wang, Xian-Ping;Liu, Chang-Song;Fang, Qiang-Feng	6	1	150	161
183	Three-dimensional titanium mesh-based flow electrode capacitive deionization for salt separation and enrichment in high salinity water	Water Research	10.1016/j.watres.2024.121147	Zhang, Xinyuan; Wei, Yanan; Liu, Fei; Zhang, Haimin; Zhou, Hongjian	251			

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2	One Stone, Three Birds: Multifunctional SnSO Oxidant for Efficient Perovskite Solar Cells	Acs Applied Energy Materials	10.1021/acsaem.4c02137	Jin, Mengqi; Wang, Mingtai; Chen, Chong	7	21	10044	10051
3	Interpenetrated Multinetwork Hybrid Aerogels by Layered Montmorillonite and One-Dimensional Hydroxyapatite Fibers for Heat and Fire Insulation	Acs Applied Materials & Interfaces	10.1021/acsami.4c08796	Guo, Wei; Zhang, Shudong; Zhang, Jixiang; Xu, Huan; Li, Nian; Meng, Xiaolin; Xi, Min; Liu, Cui; Wang, Zhenyang	16	30	39886	39895
4	High-Performance Gate-Voltage-Tunable Photodiodes Based on Nb ₂ Pd ₃ Se ₈ /WSe ₂ Mixed-Dimensional Heterojunctions	Acs Applied Materials & Interfaces	10.1021/acsami.4c09682	Chen, Wei; Chen, Jiawang; Li, Liang	16	46	63713	63722
5	Regulating the Conductive Network of Graphene/Ni Composite Films toward Tunable Electromagnetic Shielding Efficiency	Acs Applied Materials & Interfaces	10.1021/acsami.4c13043	Zhang, Shudong; Liu, Cui; Chen, Liqing; Song, Yanping; Li, Zhao; Hong, Na; Kang, Jun; Song, Zhihao; Wang, Zhenyang; Li, Nian	16	49	68144	68156
6	Innovative Substrate-Free ACEL Devices Using Silver Nanowires: Addressing Environmental Impact, Enhancing Longevity, and Improving Mechanical Flexibility	Acs Applied Nano Materials	10.1021/acsanm.4c05355	Li, Shuxin; Ji, Shulin	7	22	26052	26063
7	Multifunctional Heterostructure Composite for Electromagnetic Interference Shielding with Excellent Absorption Characteristics	Acs Applied Polymer Materials	10.1021/acsapm.4c01862	Tian, Xingyou; Zhang, Xian	6	17	10758	10767
8	Electrochemically Induced Phase Transformation in Vanadium Oxide Boosts Zn-Ion Intercalation	Acs Nano	10.1021/acsnano.3c11217	Mo, Li'e; Huang, Yang; Wang, Yifan; Wei, Tingting; Li, Zhaoqian; Hu, Linhua	18	1	1172	1180
9	High-order cavity coupled plasmon polaritons in resonant cavity-monolayer MoS ₂ system	Acta Physica Sinica	10.7498/aps.73.20241106	Xu, Wen	73	22		
10	Vibration Damping and Noise Reduction of a New Non-Newtonian Fluid Damper in a Washing Machine	Actuators	10.3390/act13010009	Song, Yuanjin; Zhuang, Zhong; Wang, Xianping; Fang, Qianfeng; Cheng, Zhijun	13	1		
11	Directional Management Self-Additive Spacer Cations for Stable 2D Ruddlesden-Popper Perovskite Solar Cells with Efficiency over 21%	Advanced Functional Materials	10.1002/adfm.202401546	Pan, Xu				
12	High-Efficiency Electrochemical Desalination: The Role of a Rigid Pseudocapacitive Polymer Electrode with Diverse Active Sites	Advanced Functional Materials	10.1002/adfm.202414805	Zhou, Hongjian/Zhou, Hongjian				
13	Wearable Multifunctional Bilayer Nanofiber Films for Human Motion Energy Harvesting and Photothermal Therapy	Advanced Functional Materials	10.1002/adfm.202419645	Chen, Chong				

14	Lock FA/MA Cations by Constructing Multiple Hydrogen Bonds for Efficient and Stable 2D/3D Perovskite Solar Cells	Advanced Functional Materials	10.1002/adfm.202416330	Pan, Xu				
15	Multifunctional Laser-Induced Graphene-Based Microfluidic Chip for High-Performance Oocyte Cryopreservation with Low Concentration of Cryoprotectants	Advanced Healthcare Materials	10.1002/adhm.202400981	Li, Yifang; Zhang, Jixiang; Han, Wei; Liu, Bianhua; Zhai, Mengjie; Li, Nian; Wang, Zhenyang; Zhao, Jun				
16	Self-Powered Broadband UV-NIR Photodetectors Based on InSe/PtS ₂ Van der Waals Heterostructure	Advanced Optical Materials	10.1002/adom.202401379	Ma, Xiaofei; Chen, Jiawang; Chen, Wei; Wu, Lin; Li, Liang				
17	Chemical Vapor Deposited Thin Palladium Sulfide Crystals for Highly Photoresponsive Photodetector	Advanced Optical Materials	10.1002/adom.202401624	Su, Fuhai	12	33		
18	Highly Accurate Determination of the Total Amount of Pb ²⁺ and Pb(OH) ⁺ in a Natural Water Environment Revealed by Dynamic Simulation and DFT Calculation: Benefit from the Electron Inverse Effect of Pt Nanoclusters over Defective g-C ₃ N ₄	Analytical Chemistry	10.1021/acs.analchem.3c05707	Zhao, Yong-Huan; Xia, Rui-Ze; Liang, Bo; Gao, Zhi-Wei; Song, Zong-Yin; Yang, Meng; Chen, Shi-Hua; Li, Pei-Hua; Huang, Xing-Jiu				
19	Background-Free and Reversible Upconversion Hydrogel Sensing Platform for Visual Monitoring of Sulfite	Analytical Chemistry	10.1021/acs.analchem.3c05711	Jiang, Changlong	96	6	2711	2718
20	Highly selective detection of 2,4-dinitrophenol by fluorescent NH ₂ -MIL-125(Ti) via dual-parameter sensing technology	Analytical Methods	10.1039/d3ay02059b	Hu, Qi; Zhan, Deyi; Saeed, Abdul; Xu, Weihong; Kong, Lingtao	16	8	1206	1214
21	Strain-modulated Ru-O Covalency in Ru-Sn Oxide Enabling Efficient and Stable Water Oxidation in Acidic Solution	Angewandte Chemie-International Edition	10.1002/anie.202316029	Xu, Yiming; Mao, Zhixian; Zhang, Jifang; Ji, Jiapeng; Yin, Huajie				
22	Se-Elemental Concentration Gradient Regulation for Efficient Sb ₂ (S,Se) ₃ Solar Cells With High Open-Circuit Voltages	Angewandte Chemie-International Edition	10.1002/anie.202409609	Chen, Chong; Wang, Mingtai				
23	Bidentate Coordination Structure Facilitates High-Voltage and High-Utilization Aqueous Zn-I ₂ Batteries	Angewandte Chemie-International Edition	10.1002/anie.202404784	Li, Xiangyang				
24	W Single-Atoms Anchored on Rutile TiO ₂ for Direct Methane Photocatalytic Conversion under Mild Conditions	Applied Catalysis A-General	10.1016/j.apcata.2024.119908	Chen, Bin	684			
25	Hollow Co ₉ S ₈ -carbon fiber hierarchical heterojunction with Schottky contacts for tunable microwave absorption	Applied Surface Science	10.1016/j.apsusc.2024.160708	Guo, Yiming; Li, Xiaoxiao; Lin, Yongxing; Li, Xiangyang; Liu, Gang; Gong, Yi; Zhang, Xian; Tian, Xingyou; Sun, Jun; Chen, Lin	671			
26	Amino modulation on the surface of graphitic carbon nitride for enhanced photocatalytic hydrogen production	Carbon	10.1016/j.carbon.2024.118841	Ding, Jianjun; Hu, Rui; Gong, Yi; Li, Xiangyang; Chen, Lin; Tian, Xingyou	219			
27	A selectivity switch for CO ₂ electroreduction by continuously tuned semi-coherent interface	Chem	10.1016/j.chempr.2024.04.009	Li, Yue	10	9		

28	Ultrafine Ru Nanoparticles Supported on Mesoporous Silica for Hydrogen Production via Decomposition of Ammonia	Chemcatchem	10.1002/cctc.202400241	Tang, Shu; Ding, Jun; Li, Wenyi; Zhang, Shengbo; Zhang, Haimin				
29	Building (001) oriented FAPbI ₃ films for high-performing perovskite solar cells	Chemical Communications	10.1039/d4cc00212a	Li, Zhaoqian				
30	Interfacial engineering eliminates energy loss at perovskite/HTL junction	Chemical Communications	10.1039/d3cc05572h	Li, Zhaoqian	60	21	2938	2941
31	Passivating perovskite surface defects via bidentate chelation for high-performing solar cells	Chemical Engineering Journal	10.1016/j.ccej.2024.155672	Han, Mengting; Mo, Li'e; Yang, Zhiqian; Sun, Aiqing; Zhang, Hong; Li, Zhaoqian; Huang, Yang; Hu, Linhua; Li, Bolin; Huang, Yang	497			
32	The n- π^* electronic transition induced by nitrogen vacancies enhances photocatalytic hydrogen production in carbon nitride	Chemical Engineering Journal	10.1016/j.ccej.2024.157670	Xu, Zhili; Zhan, Deyi; Xu, Weihong/Wang, Junfeng; Yu, Zhiwu	501			
33	Effect of particle dispersion on electrochemical performance of Prussian blue analogues electrode materials for sodium ion batteries	Chemphyschem	10.1002/cphc.202300960	Chen, Wen Chao; Li, Shi Jia; Xu, Hai Yan; Xu, Shao Hui; Fei, Guang Tao				
34	Fabrication and excellent properties of polyvinylidene fluoride/graphene composite films as thermal interface materials	Chinese Journal Of Chemical Physics	10.1063/1674-0068/cjcp2312136	Zhou, Yu; Zuo, Li; Rahman, Azizur; Zhang, Linchao; Yang, Junfeng	37	5	671	678
35	Quantum Tunneling Enhanced Hydrogen Desorption from Graphene Surface: Atomic versus Molecular Mechanism	Chinese Physics Letters	10.1088/0256-307X/41/8/086801	Tong, Yangwu; Yang, Yong	41	8		
36	Sustainable photodegradation of tetracycline by surface-functionalized carbon nitride: Mechanism insight and toxicity assessment	Colloids And Surfaces A-Physicochemical And Engineering Aspects	10.1016/j.colsurfa.2024.135612	Hong, Peidong	705			
37	Multiple synthesis routes for atomically precise noble metal nanoclusters	Crystengcomm	10.1039/d4ce00488d	He, Lizhong	26	30	3998	4016
38	Synthesis and characterization of polymetallic Fe-Co-Ni-S nanocomposite displaying high adsorption capacity for Rhodamine B dye	Desalination And Water Treatment	10.5004/dwt.2023.29758	Sun, Bai	303		200	211
39	Effect of high-temperature annealing on terahertz optoelectronic properties of nitrogen-doped polycrystalline diamond	Diamond And Related Materials	10.1016/j.diamond.2024.111543	Xu, Wen; Cheng, Xingjia; Zhang, Jing	149			
40	Mechanical behavior of twinning-induced plasticity (TWIP) steel fibre reinforced cementitious composite under impact loading	Engineering Fracture Mechanics	10.1016/j.engfracmech.2024.110266	Wang, Xingfu	306			
41	Polycrystalline MgAl ₂ O ₄ spinel for infrared and terahertz region windows	European Physical Journal B	10.1140/epjb/s10051-023-00637-5	Wen, Hua; Xu, Wen	97	1		
42	Nano-sized high-entropy oxide dispersoids for achieving high strength and thermal stability in tungsten alloys	Fusion Engineering And Design	10.1016/j.fusengdes.2024.114712	Yu, M. L.; Xie, Z. M.; Xie, X. F.; Jiang, W. B.; Dang, X.; Huang, Z. L.; Zhang, Y. G.; R., Liu; Wu, X. B.; Liu, C. S.; Fang, Q. F.	209			

43	Giant Tunneling Electroresistance in 2-DIn-Plane Ferroelectric Tunnel Junctions Based on a α -In ₂ Se ₃ /Cd ₃ C ₂ Heterostructure	Ieee Transactions On Electron Devices	10.1109/TED.2024.3462378	Zeng, Zhi/Han, Ziqi	71	11	7169	7176
44	Observation of temperature induced phase transitions in TiO superconducting thin film via infrared measurement	Infrared Physics And Technology	10.1016/j.infrared.2024.105160	Xu, Wen; Wen, Hua; Cheng, Xingjia	137			
45	Terahertz magneto-optical properties of Nitrogen-doped diamond	Infrared Physics And Technology	10.1016/j.infrared.2024.105237	Wen, Hua;Xu, Wen;Zhang, Jing;Cheng, Xingjia	138			
46	Photothermal Synergistic Catalysis over Defective Zn ₃ In ₂ S ₆ for CO ₂ Fixation	Inorganic Chemistry	10.1021/acs.inorgchem.3c03520	Zhang, Kaisheng	63	6	2954	2966
47	Diffuse Ferroelectric Phase Transition-Dependent Photovoltaic Effect in BiFeO ₃ -BaTiO ₃ -Based Solid Solutions	Inorganic Chemistry	10.1021/acs.inorgchem.4c03473	Dou, Jin-Quan; Zhao, Gao-Chao; Xie, Lei; Tong, Peng; Yang, Jie; Song, Wen-Hai; Yin, Li-Hua; Sun, Yu-Ping	63	49	23141	23149
48	Visualizing the fluorescence of AgPt NCs by an asymmetrical pseudo-ligand exchange method	Inorganic Chemistry Frontiers	10.1039/d4qi01275e	He, Lizhong	11	18	5979	5986
49	Chemical coupling engineered exceptional overall water splitting of autogenic NiS/FeS/NiFeOOH heterostructure	International Journal Of Hydrogen Energy	10.1016/j.ijhydene.2024.10.013	Huang, Zhulin; Chen, Bin	90		931	940
50	Giant reversible barocaloric effects with high thermal cycle stability in epoxybonded (MnCoGe) _{0.96} (CuCoSn) _{0.04} composite	International Journal Of Minerals Metallurgy And Materials	10.1007/s12613-024-2952-2	Tao, Kun; Tong, Peng				
51	High thermally conductive polyimide film designed with heterostructural Cring-C ₃ N ₄ filler and multilayer strategy	Journal Of Alloys And Compounds	10.1016/j.jallcom.2024.173907	Chen, Xi;Wang, Yanyan;Zheng, Kang;Xiao, Chao;Chen, Lin;Gong, Yi;Tian, Xingyou;Zhang, Xian	983			
52	Biomimetic (Co, Ni, W) _x Ny/WO ₃ x N y /WO ₃ photoelectrocatalyst for robust seawater oxidation	Journal Of Alloys And Compounds	10.1016/j.jallcom.2024.176490	Chen, Bin/Chen, Bin	1007			
53	Magneto-mechanical hysteresis damping mechanism in dual-phase iron-based alloy with zero magnetostriction	Journal Of Alloys And Compounds	10.1016/j.jallcom.2024.176120	Sun, Meng; Jiang, Weibin; Wang, Xianping; Fang, Qianfeng	1005			
54	Research progress of transition metal carbide-based composites for microwave absorption	Journal Of Alloys And Compounds	10.1016/j.jallcom.2024.175381	Zhang, Xiao	1002			
55	MOF-derived carbon nanotube bridged Co/MoC@NC composites for enhanced electromagnetic wave absorption	Journal Of Alloys And Compounds	10.1016/j.jallcom.2024.177346	Guo, Yiming; Sun, Jun; Lin, Yongxing; Li, Xiangyang; Liu, Gang; Gong, Yi; Zhang, Xian; Tian, Xingyou; Li, Xiaoxiao; Chen, Lin	1010			
56	The characteristics and flocculation performance of hydrophobic association poly-(3-methacryloylamido propyl trimethyl ammonium chloride)	Journal Of Applied Polymer Science	10.1002/app.55124	Guo, Yiming; Li, Xiaoxiao; Ming, Anqi; Sun, Jun; Wang, Hua; Chen, Lin; Tian, Xingyou	141	12		
57	Na ₂ MnSiO ₄ /C as hybrid capacitive deionization electrode material to enhance desalination performance	Journal Of Colloid And Interface Science	10.1016/j.jcis.2024.02.061	Chen, Zhouyi;Zhang, Xiao;Geng, Wusong;Gong, Chengyun;Li, Zeyang;Chen, Chun;Zhang, Yunxia;Wang, Guozhong	662		627	636
58	Amorphous FeNi alloy nanoparticles encapsulated in N doped carbon shell induced by laser irradiation with enhanced electrocatalytic activity for water oxidation	Journal Of Electroanalytical Chemistry	10.1016/j.jelechem.2024.118182	Su, Zhengquan;Zhang, Chao;Liu, Jun;Liang, Changhao	960			

59	A 2.3 V quasi-solid-state flexible supercapacitor of AC PVA-Na ₂ SO ₄ // PVA-KOH Zn@CFP with high specific energy	Journal Of Energy Storage	10.1016/j.est.2024.110601	Hu, Xiaoye	82			
60	Efficient remediation of heavy metal-contaminated water using a magnetically collectible nanoscale Cu/Fe/rGO primary battery	Journal Of Environmental Chemical Engineering	10.1016/j.jece.2023.111574	Wei, Jian; Ge, Liang; Wang, Wenlong; Hong, Peidong; Li, Yulian; Li, Yahui; Xie, Chao; Wu, Zijian; He, Junyong; Kong, Lingtao	12	2		
61	Three-dimensional porous Ti supported Ni/Sb Co-doped SnO ₂ anode for electrocatalytic production of ozone	Journal Of Environmental Chemical Engineering	10.1016/j.jece.2024.114915	Yin, Huajie	12	6		
62	Photochemical fluorination of graphitic carbon nitride quantum dots: Fluorescent properties, and their mechanisms	Journal Of Luminescence	10.1016/j.jlumin.2024.120491	Yang, Yong; Li, Wei	269			
63	Superhydrophobic and mechanical properties enhanced the electrospinning film with a multiscale micro-nano structure for high-efficiency radiation cooling	Journal Of Materials Chemistry A	10.1039/d3ta07191j	Kong, Lijing; Sun, Puqing; Liu, Jincheng; Lin, Yongxing; Xiao, Chao; Bao, Chao; Zheng, Kang; Zhang, Xian; Liu, Xianglan; Tian, Xingyou				
64	Suppression of ion migration in lead-free zero-dimensional perovskite FA ₃ BiBr ₆ single crystals for X-ray detection	Journal Of Materials Chemistry C	10.1039/d4tc00375f	Wang, Wenjun; Ma, Yuanbo; Wang, Zihan; Pan, Xu	12	15	5461	5468
65	Effect of different titanium addition methods on the properties of diamond/ Cu composites	Journal Of Materials Research And Technology-Jmr&T	10.1016/j.jmrt.2024.06.214	Wei, Chenlong; Tong, Peng	31		2014	2022
66	Microstructures and mechanical properties of additively manufactured Fe-21Mn-0.6C TWIP steel using laser powder bed fusion	Journal Of Materials Research And Technology-Jmr&T	10.1016/j.jmrt.2024.06.192	Chen, Youyun; Liang, Juhua; Zhao, Modi; Han, Fusheng	31		2226	2235
67	Enhanced piezoelectricity and transmittance of (1-x)K _{0.5} Na _{0.5} NbO _{3-x} (Ca _{0.5} Sr _{0.5})(Zn _{1/3} Nb _{2/3})O ₃ ceramics	Journal Of Materials Science-Materials In Electronics	10.1007/s10854-024-12126-1	Dong, Funing; Xie, Lei; Yin, Lihua; Song, Wenhai; Zhu, Xuebin; Yang, Jie; Sun, Yuping	35	5		
68	Synthesis and performance of TiN film electrode for supercapacitor by a facile chemical solution deposition method	Journal Of Materials Science-Materials In Electronics	10.1007/s10854-024-11939-4	Tong, Haiyun; Zhu, Xuebin	35	2		
69	Hydrogen Diffusion on Graphene Surface: The Effects of Neighboring Adsorbate and Quantum Tunneling	Journal Of Physical Chemistry C	10.1021/acs.jpcc.3c05315	Tong, Yangwu; Yang, Yong	128	2	840	849
70	Construction of ultrastable and high-rate performance zinc anode with three-dimensional porous structure and Schottky contact	Journal Of Power Sources	10.1016/j.jpowsour.2023.233887	Tong, Wenbin; Chen, Yili; Gong, Shijie; Zhu, Shaokun; Chen, Shuanghong	591			
71	Improved spectral emissivity and mechanical properties of high-entropy (Ti _{0.2} Zr _{0.2} Nb _{0.2} Mo _{0.2} Hf _{0.2})B ₂ derived from boro/carbothermal reduction	Journal Of The European Ceramic Society	10.1016/j.jeurceramsoc.2024.01.091	Dang, Xian; Huang, Zhulin; Yuan, Jieyan; Hu, Menggen; Xie, Zhuoming; Song, Haoran; Li, Xinyang; Li, Ming; Hu, Xiaoye; Li, Yue	44	7	4410	4424
72	Hybrid capacitive deionization from a nickel hexacyanoferrate/biomass derived porous carbon toward enhanced sodium adsorption for water desalination	Journal Of Water Process Engineering	10.1016/j.jwpe.2024.106508	Zhou, Hongjian	68			

73	Hydrolyzed Hydrated Titanium Oxide on Laser-Induced Graphene as CDI Electrodes for U(VI) Adsorption	Langmuir	10.1021/acs.langmuir.3c02927	Sun, Fuwei;Wang, De;Hu, Qinyan;Jiao, Ranran;Zhang, Jianfeng;Li, Jiaying; Li, Nian	40	1	704	713
74	Molecular Structures of Poly(methyl methacrylate) at Different Buried Interfaces Revealed by Sum Frequency Generation Vibrational Spectroscopy	Langmuir	10.1021/acs.langmuir.4c03038	Hu, Linhua/Hu, Xintong; Li, Bolin; Wang, Ningfang; Xu, Jinsheng; Sheng, Zhigao	40	40	21291	21300
75	Pressure-induced phase transition from monomers to dimers in liquid crystals	Liquid Crystals	10.1080/02678292.2024.2436409	Zhang, Xin; Yao, Deyuan; Pan, Xiaomei; Xue, Erqiao; Ye, Tingting; Ding, Junfeng				
76	Estimations of the Thicknesses of Smectic Layer and Rigid Amorphous Layer in Mesomorphic Isotactic Polypropylene with Synchrotron Small-Angle and Wide-Angle X-Ray Scattering	Macromolecular Chemistry And Physics	10.1002/macp.202400328	Li, Xiangyang; Liu, Tangguo; Lin, Yongxing; Chen, Lin; Tian, Xingyou				
77	Study of the Durability of Membrane Electrode Assemblies in Various Accelerated Stress Tests for Proton-Exchange Membrane Water Electrolysis	Materials	10.3390/ma17061331	Su, Zhengquan;Liu, Jun;Li, Pengfei;Liang, Changhao	17	6		
78	Laser irradiation-induced two-photon photolysis of sulfates for photoluminescent sulfur quantum dots	Materials Chemistry Frontiers	10.1039/d4qm00733f	Wei, Shuxian; He, Ningning; Hu, Taiping; Cai, Yunyu; Ye, Yixing; Li, Pengfei; Liang, Changhao				
79	Microstructures and mechanical properties of additively manufactured Fe-30Mn-3Al-3Si TWIP steel using laser powder bed fusion	Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing	10.1016/j.msea.2024.147087	Chen, Youyun; Liang, Juhua; Zhao, Modi; Han, Fusheng	913			
80	Synergistic resonant molecular passivator of various defects for high-performance perovskite solar cells	Materials Today Energy	10.1016/j.mtener.2024.101511	Liu, Wenjun;Kong, Fantai;Chen, Chong;Pan, Xu;Zhao, Chundie;Zhang, Jinxue;Bao, Mengyuan;Zhu, Changkuan;Wu, Chenglong	40			
81	Microstructure Evolution and Tensile Properties of Medium Manganese Steel Heat Treated by Two-Step Annealing	Metals	10.3390/met14091008	Liang, Juhua	14	9		
82	Synthesis of Pd-Doped SnO ₂ and Flower-like Hierarchical Structures for Efficient and Rapid Detection of Ethanolamine	Molecules	10.3390/molecules29153650	Bi, Wenjie	29	15		
83	Multi-shelled hollow porous carbon nanospheres-based evaporator for highly efficient solar-driven desalination	Nano Energy	10.1016/j.nanoen.2024.110054	Zhang, Xinyuan; Zhang, Zhen; Zhang, Jifang; Kang, Jian; Yin, Huajie	129			
84	A Route to Two-Dimensional Room-Temperature Organometallic Multiferroics: The Marriage of d-p Spin Coupling and Structural Inversion Symmetry Breaking	Nano Letters	10.1021/acs.nanolett.4c00210	Li, Xiangyang				
85	Surface-enhanced Raman scattering nanotag of tunable ZIF-8 shell-encapsulated magnetic core-plasmonic satellites for disentangling chemical enhancement from electromagnetic enhancement	Nanotechnology	10.1088/1361-6528/ad6163	Chen, Hao; Wu, Zhaoguo; Zhao, Aiwu; Wang, Jin	35	42		
86	Nearly perfect spin polarization of noncollinear antiferromagnets	Nature Communications	10.1038/s41467-024-54526-1	Luo, Qing-Qing; Shao, Ding-Fu	15	1		

87	Imaging magnetic transition of magnetite to megabar pressures using quantum sensors in diamond anvil cell	Nature Communications	10.1038/s41467-024-52272-y	Wang, Yu	15	1		
88	Carbon-based metal-free nanomaterials for the electrosynthesis of small-molecule chemicals: A review	New Carbon Materials	10.1016/S1872-5805(24)60836-X	Shi, Le; Yin, Hua-jie	39	1		
89	Construction of morphology-controllable NiS/Ni ₃ S ₄ hybrid nanosheets for all-solid-state asymmetric supercapacitors	New Journal Of Chemistry	10.1039/d4nj04045g	He, Lizhong	48	47	20071	20084
90	Multiple magnetic orders discovered in the superconducting state of EuFe ₂ (As _{1-x} P _x) ₂	New Journal Of Physics	10.1088/1367-2630/ad7494	Zhou, Nan; Pan, Y. Q.; Cheng, M.; Sun, Yuping; Luo, Xuan	26	9		
91	Comprehensive investigation of quantum oscillations in semimetal using an ac composite magnetoelectric technique with ultrahigh sensitivity	Npj Quantum Materials	10.1038/s41535-024-00622-w	Sun, Yuping/Wang, Tianyang; Sun, Yuping; Luo, Xuan	9	1		
92	Cluster dynamics modeling of hydrogen retention and desorption in tungsten with saturation and multi-trapping effect of sinks	Nuclear Fusion	10.1088/1741-4326/ad6913	Chen, Xiaoru; Zhang, Yuanyuan; Wei, Liuming; Zheng, Qirong; Zhang, Chuanguo; Li, Yonggang	64	9		
93	Magnetic structure and colossal dielectric properties in Ga ³⁺ substituted Zn ₂ Y hexaferrites by chemical coprecipitation method	Physica B-Condensed Matter	10.1016/j.physb.2024.416635	Yin, Lihua	696			
94	Enhancing the Performance and Stability of FAPbI ₃ Perovskite X-ray Detectors via Bi-Doping	Physica Status Solidi-Rapid Research Letters	10.1002/pssr.202400342	Wang, Zhenyu; Zhang, Hui; Wang, Zihan; Wan, Changmao; Ma, Yuanbo; Liu, Yupeng; Cao, Chentai; Ye, Jiajiu; Pan, Xu				
95	Skin Effect of Nonlinear Optical Responses in Antiferromagnets	Physical Review Letters	10.1103/PhysRevLett.133.236903	Zhou, Hang; Lu, Wenjian; Sun, Yuping; Shao, Ding-Fu/Zhang, Changjin; Sun, Yuping	133	23		
96	A performance and eco-friendly bio-inspired waterborne anti-corrosion composite coating by low-defect PDA@g-C ₃ N ₄ nanosheets	Progress In Organic Coatings	10.1016/j.porgcoat.2023.108049	Liu, Qiang;Li, Hao;Du, Yiming;Da, Yunsheng;Sun, Zhouping;Dong, Yong;Liu, Yanyan;Wang, Hua; Kong, Ling	187			
97	Decoupling thermoelectric parameters by the energy-dependent carrier and phonon scattering based on the nano-structuring interface design	Scripta Materialia	10.1016/j.scriptamat.2023.115933	Zhu, Chen;Ming, Hongwei;Chen, Tao;Yang, Shuhuan;Qin, Xiaoying;Zhang, Jian	242			
98	Double barocaloric effects in ferroelastic Pb ₃ V ₂ O ₈	Scripta Materialia	10.1016/j.scriptamat.2024.116385	Xiong, Tingjiao; Zhu, Jiang; Wei, Chenlong; Liu, Keke; Tong, Peng	255			
99	Selective mono/divalent ion separation in bifunctional ionomeric capacitive deionization incorporated with counter-charge ionomer layer	Separation And Purification Technology	10.1016/j.seppur.2024.128902	Jiang, Tao; Wei, Yanan; Zhou, Hongjian	354			
100	High-capacity and high-stability capacitive desalination with dual redox-active MnCo ₂ S ₄ /g-C ₃ N ₄ heterojunction electrode	Separation And Purification Technology	10.1016/j.seppur.2024.129761	Zhou, Jianguo; Mao, Hengjian; Zhou, Hongjian	355			
101	Boosting Thermoelectric Performance of PbBi ₂ Te ₄ via Reduced Carrier Scattering and Intensified Phonon Scattering	Small	10.1002/sml.202400449	Yao, Gang; Chen, Yong; Wang, Sicheng; Chen, Tao; Li, Shujin; Song, Chunjun; Li, Di; Zhang, Jian; Qin, Xiaoying; Xin, Hongxing				

102	Amino Group-Aided Efficient Regeneration Targeting Structural Defects and Inactive FePO ₄ Phase for Degraded LiFePO ₄ Cathodes	Small	10.1002/sml.202405362	Liu, Yuanyuan; Tu, Wenqian; Bai, Jin; Wang, Peiyao; Mao, Yunjie; Xiao, Ke; Wang, Siya; Qiu, Shiyu; Zhu, Xuebin; Lu, Wenjian; Zhao, Bangchuan; Sun, Yuping				
103	Ultrathin Porous Carbon Nitride Anchored with Pt Nanoclusters for Synergistic Enhancement of Hydrogen Production in Alkaline Photocatalytic Polyester Reforming	Small	10.1002/sml.202403573	Hu, Jingmiao; Kang, Jian; Yin, Huajie				
104	Ag nanopines over Al nanoneedle arrays enable high SERS sensitivity and reproducibility for molecular sensing	Surfaces And Interfaces	10.1016/j.surfin.2024.104457	Zheng, Huihui; Liu, Rui; Tang, Haibin; Huang, Zhulin/Zheng, Huihui; Hu, Menggen; Liu, Rui; Tang, Haibin; Huang, Zhulin	49			
105	Ion coordination and chelation in Eu-MOFs matrices: Ultrafast fluorescence visual quantification monitoring of antibiotic residues	Talanta	10.1016/j.talanta.2024.126549	Li, Lingfei; Xu, Shihao; Jiang, Changlong/Li, Lingfei; Xu, Shihao; Jiang, Changlong	278			
106	Interface improvement of diamond/copper composites through a low-temperature high-efficiency coating method	Thin Solid Films	10.1016/j.tsf.2024.140486	Wei, Chenlong	804			
107	Hydrothermal synthesis and crystal structure of catena-poly[(1,10-phenanthroline-κ ² N,N')-bis(μ ² -nitroisophthalato-κ ³ O,O':O)nickel(II)], C ₂₀ H ₁₃ N ₃ O ₇	Zeitschrift Fur Kristallographie-New Crystal Structures	10.1515/ncrs-2024-0286	Bi, Wen-Jie				