

## 固体所2020年第一署名单位论文

序号	文章链接	题目	作者	出版刊物全称/ 会议名称	卷(期)	起止 页码
1	<a href="https://doi.org/10.1021/acsami.9b23297">https://doi.org/10.1021/acsami.9b23297</a>	Screening Promising Thermoelectric Materials in Binary Chalcogenides through High-Throughput Computations	Tiantian Jia, Zhenzhen Feng, Shuping Guo, Xuemei Zhang and Yongsheng Zhang*	ACS APPLIED MATERIALS & INTERFACES	12(10)	11852-11864
2	<a href="https://pubs.acs.org/doi/10.1021/acsami.0c13337">https://pubs.acs.org/doi/10.1021/acsami.0c13337</a>	Two-Dimensional Electron Gas at the Spinel/Perovskite Interface: Suppression of Polar Catastrophe by an Ultrathin Layer of Interfacial Defects	Junfeng Ding, Jianli Cheng, Fatih Dogan, Yangyang Li, Weinan Lin, Yingbang Yao, Aurelien Manchon, Kesong Yang*, and Tom Wu*	ACS APPLIED MATERIALS & INTERFACES	12(38)	42982-42991
3	<a href="https://pubs.acs.org/doi/abs/10.1021/acsami.0c13828">https://pubs.acs.org/doi/abs/10.1021/acsami.0c13828</a>	Ag-Nanoparticles@Bacterial Nanocellulose as a 3D Flexible and Robust Surface-Enhanced Raman Scattering Substrate	Dexian Huo, Bin Chen*, Guowen Meng*, Zhulin Huang, Mingtao Li, and Yong Lei*	ACS APPLIED MATERIALS & INTERFACES	12(50)	50713-50720
4	<a href="https://pubs.acs.org/doi/10.1021/acsami.0c12557">https://pubs.acs.org/doi/10.1021/acsami.0c12557</a>	Highly Selective and Sensitive Detection of Hydrogen Sulfide by the Diffraction Peak of Periodic Au Nanoparticle Array with Silver Coating	Xuejiao Li, Tao Zhang, Jie Yu, Changchang Xing, Xinyang Li, Weiping Cai and Yue Li *	ACS APPLIED MATERIALS & INTERFACES	12 (36)	40702-40710
5	<a href="https://pubs.acs.org/doi/pdf/10.1021/acsami.0c03802">https://pubs.acs.org/doi/pdf/10.1021/acsami.0c03802</a>	Ultrathin Hexagonal PbO Nanosheets Induced by Laser Ablation in Water for Chemically Trapping Surface-Enhanced Raman Spectroscopy Chips and Detection of Trace Gaseous H <sub>2</sub> S	Hao Fu, Guangqiang Liu, Haoming Bao, Le Zhou, Hongwen Zhang,* Qian Zhao, Yue Li, and Weiping Cai*	ACS APPLIED MATERIALS & INTERFACES	12(20)	23330-23339
6	<a href="https://pubs.acs.org/doi/10.1021/acsami.0c11233">https://pubs.acs.org/doi/10.1021/acsami.0c11233</a>	Selective Pseudocapacitive Deionization of Calcium Ions in Copper Hexacyanoferrate	Yingsheng Xu, Hongjian Zhou*, Guozhong Wang, Yunxia Zhang, Haimin Zhang*, Huijun Zhao	ACS APPLIED MATERIALS & INTERFACES	12 (37)	41437-41445
7	<a href="https://pubs.acs.org/doi/10.1021/acsami.9b21359">https://pubs.acs.org/doi/10.1021/acsami.9b21359</a>	Thickness-Dependent Beneficial Effect of the ZnO Layer on Tailoring the Li/Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Interface	L.C.Zhang, J.F.Yang*, K. Jing, C.L.Li, Y.X.Gao, X.P.Wang, Q.F.Fang*	ACS APPLIED MATERIALS & INTERFACES	12 (12)	13836-13841
8	<a href="https://pubs.acs.org/doi/10.1021/acsami.0c04298">https://pubs.acs.org/doi/10.1021/acsami.0c04298</a>	Improved Figure of Merit of Cu <sub>2</sub> SnSe <sub>3</sub> via Band Structure Modification and Energy-Dependent Carrier Scattering	Hongwei Ming, Chen Zhu, Xiaoying Qin*, Jian Zhang*, Di Li*, Baoli Zhang, Tao Chen, Jimin Li, Xunuo Lou, and Hongxin Xin	ACS APPLIED MATERIALS & INTERFACES	12(17)	19693-19700
9	<a href="https://doi.org/10.1021/acsami.9b20103">https://doi.org/10.1021/acsami.9b20103</a>	Ultralow Thermal Conductivity and Extraordinary Thermoelectric Performance Realized in Codoped Cu <sub>3</sub> SbSe <sub>4</sub> by Plasma Spark Sintering	Li D.*, Ming H. W., Li J. M., Jabar B., Xu W., Zhang J.*, Qin X. Y.*	ACS APPLIED MATERIALS & INTERFACES	12(3)	3886-3892
10	<a href="https://doi.org/10.1021/acsami.0c00094">https://doi.org/10.1021/acsami.0c00094</a>	Effects of Sb Deviation from Its Stoichiometric Ratio on the Micro- and Electronic Structures and Thermoelectric Properties of Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub>	Lulu Huang, Yuan Kong, Jian Zhang*, Chen Zhu, Jinhua Zhang, Yuanyue Li, Di Li*, Hongxing Xin, Zhaoming Wang, and Xiaoying Qin*	ACS APPLIED MATERIALS & INTERFACES	12(12)	14145-14153
11	<a href="https://dx.doi.org/10.1021/acsami.0c09338">https://dx.doi.org/10.1021/acsami.0c09338</a>	Ultralow Thermal Conductivity and High Thermoelectric Performance of N-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> -Based Composites Incorporated with GaAs Nanoinclusions	Jinhua Zhang, Hongwei Ming, Di Li*, Xiaoying Qin*, Jian Zhang*, Lulu Huang, Chunjun Song, and Ling Wang	ACS APPLIED MATERIALS & INTERFACES	12(33)	37155-37163

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12	<a href="https://dx.doi.org/10.1021/acsami.0c02827">https://dx.doi.org/10.1021/acsami.0c02827</a>	Self-Powered Filterless Narrow-Band p-n Heterojunction Photodetector for Low Background Limited Near-Infrared Image Sensor Application	Li Wang, Zhen Li, Ming Li, Shao Li, Yingchun Lu, Ning Qi, Jian Zhang*, Chao Xie, Chunyan Wu, and Lin-Bao Luo*	ACS APPLIED MATERIALS & INTERFACES	12(19)	21845-21853
13	<a href="https://doi.org/10.1021/acsaami.0c13542">https://doi.org/10.1021/acsaami.0c13542</a>	Achieving High Thermoelectric Performance in p-Type BST/PbSe Nanocomposites through the Scattering Engineering Strategy	Zhongsheng Jiang, Hongwei Ming, Xiaoying Qin*, Dan Feng, Jian Zhang, Chunjun Song, Di Li, Hongxing Xin, Juncai Li, and Jiaqing He	ACS APPLIED MATERIALS & INTERFACES	12 (41)	46181-46189
14	<a href="https://pubs.acs.org/doi/10.1021/acsami.9b20458">https://pubs.acs.org/doi/10.1021/acsami.9b20458</a>	A Portable Smartphone Platform Using a Ratiometric Fluorescent Paper Strip for Visual Quantitative Sensing	Suyun Chu, Haiqian Wang, Xiao Ling, Shaoming Yu, Liang Yang*, and Changlong Jiang*	ACS APPLIED MATERIALS & INTERFACES	12 (11)	12962-12971
15	<a href="https://pubs.acs.org/doi/pdf/10.1021/acsanm.9b02159">https://pubs.acs.org/doi/pdf/10.1021/acsanm.9b02159</a>	Monodispersed Snowman-Like Ag-MoS <sub>2</sub> Janus Nanoparticles as Chemically Self-Propelled Nanomotors	Le Zhou, Hongwen Zhang,* Haoming Bao, Yi Wei, Hao Fu, and Weiping Cai*	ACS APPLIED NANO MATERIALS	3(1)	624-632
16	<a href="https://pubs.acs.org/doi/pdf/10.1021/acsanm.0c01647">https://pubs.acs.org/doi/pdf/10.1021/acsanm.0c01647</a>	Dual-Mode Optical Nanosensor Based on Gold Nanoparticles and Carbon Dots for Visible Detection of As(III) in Water	Jian Li, Liang Yang Yue Ruan, Suyun Chu, Haiqian Wang, Zhi Li, Changlong Jiang, Bianhua Liu,* Linlin Yang,* and Zhongping Zhang	ACS APPLIED NANO MATERIALS	3(8)	8224-8231
17	<a href="https://pubs.acs.org/doi/10.1021/acsnano.9b09963?ref=pdf">https://pubs.acs.org/doi/10.1021/acsnano.9b09963?ref=pdf</a>	Impacts of Oxygen Vacancies on Zinc Ion Intercalation in VO <sub>2</sub>	Zhaoqian Li, Yingke Ren, Lie Mo, Chaofeng Liu, Kevin Hsu, Youcai Ding, Xianxi Zhang, Xiuling Li, Linhua Hu,* Denghui Ji* and Guozhong Cao*	ACS Nano	14(5)	5581-5589
18	<a href="https://pubs.acs.org/doi/10.1021/acssensors.0c00188">https://pubs.acs.org/doi/10.1021/acssensors.0c00188</a>	Conductometric Response-Triggered Surface-Enhanced Raman Spectroscopy for Accurate Gas Recognition and Monitoring Based on Oxide-wrapped Metal Nanoparticles	Haoming Bao, Hongwen Zhang*, Peng Zhang, Hao Fu, Le Zhou, Yue Li, and Weiping Cai*	ACS sensors	5(6)	1641-1649
19	<a href="https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.9b07679">https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.9b07679</a>	MoS <sub>2</sub> Nanodots Anchored on Reduced Graphene Oxide for Efficient N <sub>2</sub> Fixation to NH <sub>3</sub>	Yanyan Liu, Weikang Wang, Shengbo Zhang, Wenyi Li, Guozhong Wang, Yunxia Zhang, Miaomiao Han*, and Haimin Zhang*	ACS Sustainable Chemistry & Engineering	8(5)	2320-2326
20	<a href="https://pubs.acs.org/doi/10.1021/acssuschemeng.0c00690">https://pubs.acs.org/doi/10.1021/acssuschemeng.0c00690</a>	Portable Smartphone Platform Integrated with a Nanoprobe-Based Fluorescent Paper Strip: Visual Monitoring of Glutathione in Human Serum for Health Prognosis	Suyun Chu, Haiqian Wang, Yuanxin Du, Fan Yang, Liang Yang*, and Changlong Jiang*	ACS Sustainable Chemistry & Engineering	8 (22)	8175-8183
21	<a href="http://sioc-journal.cn/Jwk_hxxb/CN/10.6023/A20040134">http://sioc-journal.cn/Jwk_hxxb/CN/10.6023/A20040134</a>	Module Replacement of Gold Nanoparticles by a Pseudo-AGR Process	Renming Jin, Hongwei Dong, Fan Zhao, Sheng Zhuang, Lingwen Liao, Nan Yan, Wanmiao Gu, Jun Zha, Jinyun Yuan, Jin Li, Haiteng Deng, Zibao Gan*, Liang Yang, Zhilun Wu*	Acta Chimica Sinica	78(5)	407-411
22	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1359645420305371">https://www.sciencedirect.com/science/article/abs/pii/S1359645420305371</a>	Superconducting Cu/Nb nanolaminate by coded accumulative roll bonding and its helium damage characteristics.	Rui Gao, Miaomiao Jin*, Fei Han, Baoming Wang, Xianping Wang*, Qianfeng Fang, Yanhao Dong, Cheng Sun, Lin Shao, Mingda Li, Ju Li*	Acta Materialia	197	212-223

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23	<a href="https://doi.org/10.1002/ade.m.201901486">https://doi.org/10.1002/ade.m.201901486</a>	High Performance of Low-Temperature-Cofired Ceramic with Al <sub>2</sub> O <sub>3</sub> -BN Biphasic Ceramics Based on B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -ZnO Glass	Xiangyan Feng, Yuanyuan Lv, Lan Zhang, Jianjun Ding, Jun Sun, Xiaoxiao Li, Lin Chen,* Kang Zheng, Xian Zhang, and Xingyou Tian	Advanced engineering materials	22(5)	1-10
24	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/adfm.202002375">https://onlinelibrary.wiley.com/doi/full/10.1002/adfm.202002375</a>	Solution-Processable Epitaxial Metallic Delafossite Oxide Films	Renhuai Wei, Penglai Gong, Minglin Zhao, Haiyun Tong, Xianwu Tang, Ling Hu, Jie Yang, Wenhai Song, Xuebin Zhu*, Yuping Sun*	Advanced Functional Materials	30 (24)	2002375(1-8)
25	<a href="https://onlinelibrary.wiley.com/doi/10.1002/adfm.201910302">https://onlinelibrary.wiley.com/doi/10.1002/adfm.201910302</a>	2D/2D 1T-MoS <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene Heterostructure with Excellent Supercapacitor Performance	Xin Wang, Han Li, Hui Li, Shuai Lin,* Wei Ding, Xiaoguang Zhu, Zhigao Sheng, Hai Wang, Xuebin Zhu,* and Yuping Sun*	Advanced Functional Materials	30(15)	190302
26	<a href="http://apps.weobkknowledge.com/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;aid=1&amp;SID=5Pn">http://apps.weobkknowledge.com/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;aid=1&amp;SID=5Pn</a>	A Spectroscopic Study of the Insulator-Metal Transition in Liquid Hydrogen and Deuterium	Shuqing Jiang, Nicholas Holtgrewe, Zachary M. Geballe, Sergey S. Lobanov, Mohammad F. Mahmood, R. Stewart McWilliams, and Alexander F. Goncharov*	Advanced Science	7(2)	1901668
27	<a href="https://dx.doi.org/10.1021/acs.analchem.0c00677">https://dx.doi.org/10.1021/acs.analchem.0c00677</a>	Ultra-Sensitive and Selective Detection of Arsenic(III) via Electroanalysis over Cobalt Single-Atom Catalysts	Pei-Hua Li, Meng Yang*, Yi-Xiang Li, Zong-Yin Song, Jin-Huai Liu, Chu-Hong Lin,* Jie Zeng,* Xing-Jiu Huang*	Analytical Chemistry	92(8)	6128-6135
28	<a href="https://dx.doi.org/10.1021/acs.analchem.0c03725">https://dx.doi.org/10.1021/acs.analchem.0c03725</a>	Electrons in Oxygen Vacancies and Oxygen Atoms Activated by Ce <sup>3+</sup> /Ce <sup>4+</sup> Promote High-sensitive Electrochemical Detection of Pb(II) over Ce-doped $\alpha$ -MoO <sub>3</sub> Catalyst	Pei-Hua Li, Zong-Yin Song, Meng Yang,* Shi-Hua Chen, Xiang-Yu Xiao, Wanchun Duan, Li-Na Li,* Xing-Jiu Huang*	Analytical Chemistry	92(24)	16089-16096
29	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/ange.202005930">https://onlinelibrary.wiley.com/doi/full/10.1002/ange.202005930</a>	Electrocatalytically Active Fe-(O-C-2)(4) Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia	Shengli Zhuang, Meng Jin, Congren Shi, Miaomiao Han, Qiao Sun, Yue Lin*, Zhenhua Ding, Li-Rong Zheng, Guozhong Wang, Yunxia Zhang, Haimin Zhang*, Huijun Zhao*	Angewandte Chemie International Edition	59(32)	13423-13429
30	<a href="https://onlinelibrary.wiley.com/doi/10.1002/anie.202009913">https://onlinelibrary.wiley.com/doi/10.1002/anie.202009913</a>	Fe-Co Alloyed Nanoparticles Catalyzing Efficient Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in Water	Yang Lv, Miaomiao Han, Wanbing Gong*, Dongdong Wang, Chun Chen, Guozhong Wang, Haimin Zhang, Huijun Zhao*	Angewandte Chemie International Edition	59 (52)	23521-23526
31	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201912090">https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201912090</a>	An Unprecedented Kernel Growth Mode and the Layer-Number-Odevity-Dependent Properties in Gold Nanoclusters	Lingwen Liao, Chengming Wang, Shengli Zhuang, Nan Yan, Yan Zhao, Ying Yang, Jin Li, Haiteng Deng, Zhikun Wu*	Angewandte Chemie International Edition	59(2)	731-734
32	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201912845">https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201912845</a>	Hard-Sphere Random Close-Packed Au <sub>47</sub> Cd <sub>2</sub> (TBBT) <sub>31</sub> Nanoclusters with a Faradaic Efficiency of Up to 96 % for Electrocatalytic CO <sub>2</sub> Reduction to CO	Shengli Zhuang, Dong Chen, Lingwen Liao, Yan Zhao, Nan Xia, Wenhao Zhang, Chengming Wang, Jun Yang*, Zhikun Wu*	Angewandte Chemie International Edition	59(8)	3073-3077
33	<a href="https://doi.org/10.1007/s00339-020-03803-z">https://doi.org/10.1007/s00339-020-03803-z</a>	Magnetic field induced formation of ferroelectric beta phase of poly (vinylidene fluoride)	Jie Wu, Xiaoyu Sun, Shunjin Zhu, Jin Bai, Xuebin Zhu, Jianming Dai, Lihua Yin*, Wenhai Song*, Yuping Sun	Applied Physics A	126 (8)	624(1-6)

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34	<a href="https://doi.org/10.1063/5.0013039">https://doi.org/10.1063/5.0013039</a>	Enhanced thermoelectric performance of PbTe based materials by Bi doping and introducing MgO nanoparticles	Chen Zhu, Jian Zhang*, Hongwei Ming, Xunuo Lou, Lulu Huang, Tao Chen, Baoli Zhang, Di Li*, Hongxing Xin, and Xiaoying Qin*	Applied Physics Letters	117(4)	042105
35	<a href="https://www.sciencedirect.com/science/article/pii/S016943322030982X">https://www.sciencedirect.com/science/article/pii/S016943322030982X</a>	High-efficiency adsorption of norfloxacin using octahedral UiO-66-NH <sub>2</sub> nanomaterials: Dynamics, thermodynamics, and mechanisms	Xunfang, Shibo Wu*, Yaonuan Wu, Wu Yang, Yulian Li, Junyong He, Peidong Hong, Mingxing Nie, Chao Xie, Zijian Wu, Kaisheng Zhang*, Lingtao Kong*, Jinhuai Liu	Applied Surface Science	518	146226
36	<a href="https://www.sciencedirect.com/science/article/pii/S0169433220313143">https://www.sciencedirect.com/science/article/pii/S0169433220313143</a>	Rapid degradation of aqueous doxycycline by surface CoFe <sub>2</sub> O <sub>4</sub> /H <sub>2</sub> O <sub>2</sub> system: behaviors, mechanisms, pathways and DFT calculation	Peidong Hong, Yulian Li, Junyong He, Abdul Saeed, Kaisheng Zhang, Chengming Wang, Lingtao Kong*, Jinhuai Liu	Applied Surface Science	526	146557
37	<a href="https://www.sciencedirect.com/science/article/pii/S0169433219328119?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0169433219328119?via%3Dihub</a>	First-principles calculations on interface stability and migration of H and He in W-ZrC interfaces	Xu Zhang, Xuebang Wu, Chunju Hou, Xiangyan Li, C.S.Liu	Applied Surface Science	499	143995
38	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0008622320306722?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S0008622320306722?via%3Dihub</a>	Highly concentrated amino-modified biochars using a plasma: Evolution of surface composition and porosity for heavy metal capture	Rui Hu*, Jiang Xiao, Tianhui Wang, Yi Gong, Guangcai Chen, Lin Chen, Xingyou Tian*	Carbon	168	515-527
39	<a href="https://www.sciencedirect.com/science/article/pii/S0008622319309303">https://www.sciencedirect.com/science/article/pii/S0008622319309303</a>	Encapsulation of Co-based nanoparticle in N-doped graphitic carbon for efficient oxygen reduction reaction	Chao Zhang, Jun Liu*, Yixing Ye, Qi Chen, Changhao Liang*	Carbon	156	31-37
40	<a href="https://doi.org/10.1016/j.ceramint.2019.09.201">https://doi.org/10.1016/j.ceramint.2019.09.201</a>	Solution processed W-doped In <sub>2</sub> O <sub>3</sub> thin films with high carrier mobility	Yanqiu Liu, Shunjin Zhu, Renhui Wei*, Ling Hu, Xianwu Tang, Jie Yang, Wenhai Song, Jianming Dai, Xuebin Zhu*, Yuping Sun	Ceramics International	46(2)	2173-2177
41	<a href="https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cctc.201901096">https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cctc.201901096</a>	CoOx@Co Nanoparticle-based Catalyst for Efficient Selective Transfer Hydrogenation of alpha,beta-Unsaturated Aldehydes	Wanbing Gong, Miaomiao Han, Chun Chen, Yue Lin,* Guozhong Wang, Haimin Zhang,* Huijun Zhao*	ChemCatChem	12 (4)	1019-1024
42	<a href="https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/cctc.202001221">https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/cctc.202001221</a>	Rational Design of Cobalt-Platinum Alloy Decorated Cobalt Nanoparticles for One-Pot Synthesis of Imines from Nitroarenes and Aldehydes	Wanbing Gong, Miaomiao Han, Chun Chen, Yue Lin,* Guozhong Wang, Haimin Zhang,* Huijun Zhao*	ChemCatChem	12 (23)	5948-5958
43	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/CC/D0CC02620D#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/CC/D0CC02620D#!divAbstract</a>	Highly dispersed nickel anchored on a N-doped carbon molecular sieve derived from metal-organic frameworks for efficient hydrodeoxygenation in the aqueous phase	Ruoyu Fan, Zhi Hu, Chun Chen, * Xiaoguang Zhu, Haimin Zhang, Yunxia Zhang, Huijun Zhao, Guozhong Wang*	Chemical Communications	56(49)	6696-6699
44	<a href="https://doi.org/10.1039/D0CC06087A">https://doi.org/10.1039/D0CC06087A</a>	Sustainable 2,5-furandicarboxylic synthesis by a direct 5-hydroxymethylfurfural fuel cell based on a bifunctional PtNi <sub>x</sub> catalyst	Jialu Wang, Xian Zhang, * Guozhong Wang, Yunxia Zhang and Haimin Zhang	Chemical Communications	56(88)	13611--13614

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45	<a href="https://www.sciencedirect.com/science/article/pii/S1385894719317917?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S1385894719317917?via%3Dihub</a>	Engineering of phosphate-functionalized biochars with highly developed surface area and porosity for efficient and selective extraction of uranium	Rui Hu*, Jiang Xiao, Tianhui Wang, Guangcai Chen*, Lin Chen, Xingyou Tian	Chemical Engineering Journal	379	122388
46	<a href="https://doi.org/10.1016/j.cej.2020.125972">https://doi.org/10.1016/j.cej.2020.125972</a>	Uniform manganese-loaded titanium dioxide nanotube arrays for accurate detection of trace Cd <sup>2+</sup> in water, soil and tea: Enhanced stability and sensitivity	Min Jiang, Ming-Jun Ma, Chu-Hong Lin, Meng Yang*, Li Fang, Jin-Huai Liu, Nan-Jing Zhao*, Xing-Jiu Huang*	Chemical Engineering Journal	400	125972
47	<a href="https://www.sciencedirect.com/science/article/pii/S1385894720301327?casa_token=IXYs7G3RwscAAAAA:AAr0tYUj-wb5iYAAAAA">https://www.sciencedirect.com/science/article/pii/S1385894720301327?casa_token=IXYs7G3RwscAAAAA:AAr0tYUj-wb5iYAAAAA</a>	Fabrication of hierarchically porous NH <sub>2</sub> -MIL-53/wood-carbon hybrid membrane for highly effective and selective sequestration of Pb <sup>2+</sup>	Yue Gu, Yongchuang Wang, Huaimeng Li, Wenxiu Qin, Haimin Zhang, Guozhong Wang, Yunxia Zhang and Huijun Zhao	Chemical Engineering Journal	387 (1)	124141
48	<a href="https://www.sciencedirect.com/science/article/pii/S1385894719331882?casa_token=IXYs7G3RwscAAAAA:AAr0tYUj-wb5iYAAAAA">https://www.sciencedirect.com/science/article/pii/S1385894719331882?casa_token=IXYs7G3RwscAAAAA:AAr0tYUj-wb5iYAAAAA</a>	Electrodeposition of hierarchically amorphous FeOOH nanosheets on carbonized bamboo as an efficient filter membrane for As(III) removal	Yongchuang Wang, Yue Gu, Huaimeng Li, Mengxiang Ye, Wenxiu Qin, Haimin Zhang, Guozhong Wang, Yunxia Zhang and Huijun Zhao	Chemical Engineering Journal	392 (15)	123773
49	<a href="https://www.sciencedirect.com/science/article/pii/S1385894720323330?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S1385894720323330?via%3Dihub</a>	Ni/carbon aerogels derived from water induced self-assembly of Ni-MOF for adsorption and catalytic conversion of oily wastewater	Yanping Su, Zeyang Li, Hongjian Zhou, Shenghong Kang, Yunxia Zhang, Chengzhong Yu., Guozhong Wang	Chemical Engineering Journal	402	126205
50	<a href="https://www.sciencedirect.com/science/article/pii/S1385894720301005">https://www.sciencedirect.com/science/article/pii/S1385894720301005</a>	NiCo <sub>2</sub> S <sub>4</sub> quantum dots with high redox reactivity for hybrid supercapacitors	Wenyong Chen, Xuemei Zhang, Li-E Mo, Yongsheng Zhang,* Shuanghong Chen,* Xianxi Zhang, Linhua Hu*	Chemical Engineering Journal	388	124109
51	<a href="https://www.sciencedirect.com/science/article/pii/S1385894720319847">https://www.sciencedirect.com/science/article/pii/S1385894720319847</a>	CoS <sub>2</sub> nanosheets on carbon cloth for flexible all-solid-state supercapacitors	Wenyong Chen, Tingting Wei, Li-E Mo, Shougang Wu, Zhaoqian Li, Shuanghong Chen, Xianxi Zhang, Linhua Hu*	Chemical Engineering Journal	400	125856
52	<a href="https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/slct.202001200">https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/slct.202001200</a>	Ag-Nanoparticles-Decorated Ge-Nanowhisker Grafted on Carbon Fiber Cloth as Flexible and Effective SERS Substrates	Jing Liu, Chuhong Zhu, Qijun Pan, Guowen Meng,* and Yong Lei.	CHEMISTRYSELECT	5(27)	8338-8343
53	<a href="http://cpl.iphy.ac.cn/10.1088/0256-307X/37/1/017101">http://cpl.iphy.ac.cn/10.1088/0256-307X/37/1/017101</a>	Ferromagnetism in Layered Metallic Fe <sub>1/4</sub> TaS <sub>2</sub> in the Presence of Conventional	Jin-Hua Wang, Ya-Min Quan, Da-Yong Liu, Liang-Jian Zou*	Chinese Physical letters	37(1)	017101
54	<a href="http://cpb.iphy.ac.cn/EN/10.1088/1674-1056/ab961b">http://cpb.iphy.ac.cn/EN/10.1088/1674-1056/ab961b</a>	Picosecond terahertz pump-probe realized from Chinese terahertz free-electron laser	Chao Wang, Wen Xu*, HongYing Mei, Hua Qin, XinNian Zhao, Hua Wen, Chao Zhang, Lan Ding, Yong Xu, Peng Li, Dai Wu, and Ming Li	Chinese Physics B	29(8)	084101
55	<a href="https://doi.org/10.1007/s00396-020-04617-4">https://doi.org/10.1007/s00396-020-04617-4</a>	Synergetic enhancement of thermal conductivity in the silica-coated boron nitride (SiO <sub>2</sub> @BN)/polymethyl methacrylate (PMMA) composites	Yunlu Tang & Chao Xiao & Jiwan Ding & Kun Hu & Kang Zheng* & Xingyou Tian	Colloid and Polymer Science	298	385-393

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56	<a href="https://www.sciencedirect.com/science/article/pii/S1359836820333175?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S1359836820333175?via%3Dihub</a>	Imidization-induced carbon nitride nanosheets orientation towards highly thermally conductive polyimide film with superior flexibility and electrical insulation	Yanyan Wang, Xian Zhang*, Xin Ding, Ping Zhang, Mengting Shu, Qian Zhang, Yi Gong, Kang Zheng, Xingyou Tian*	Composite Part B: Engineering	199	108267
57	<a href="https://doi.org/10.1016/j.compositesb.2020.107855">https://doi.org/10.1016/j.compositesb.2020.107855</a>	Epoxy composite with significantly improved thermal conductivity by constructing a vertically aligned three-dimensional network of silicon carbide nanowires/ boron nitride nanosheets	Chao Xiao, Yujie Guo, Yunlu Tang, Jiwan Ding, Xian Zhang, Kang Zheng*, Xingyou Tian	Composite Part B: Engineering	187	107855
58	<a href="https://doi.org/10.1088/1741-4326/aa80a8">https://doi.org/10.1088/1741-4326/aa80a8</a>	Exchange coupling and improved properties of the multilayer CoFe <sub>2</sub> O <sub>4</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films	Xianwu Tang, Shunjin Zhu, Renhuai Wei, Ling Hu, Jie Yang, Wenhi Song, Jianming Dai, Xuebin Zhu,* and Yuping Sun*	Composite Part B: Engineering	186	107801 (1-7)
59	<a href="https://www.sciencedirect.com/science/article/pii/S1359836820321909?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S1359836820321909?via%3Dihub</a>	Enhanced thermoelectric performance of n-type Sn <sub>x</sub> Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> based composites embedded with in-situ formed SnBi and Te nanoinclusions	Busra Jabar, Xiaoying Qin*, Adnan Mansoor, Hongwei Ming, LuLu Huang, Jian Zhang*, Mazhar Hussain Danish, Di Li*, Chen Zhu, Jinhua Zhang, Hongxing Yin, Chunjun Song	Composite Part B: Engineering	197	108151
60	<a href="https://doi.org/10.1016/j.commatsci.2020.109708">https://doi.org/10.1016/j.commatsci.2020.109708</a>	Ab initio thermodynamics studies on the phase stability of PtO <sub>2</sub> under ambient and high-pressure conditions	Quan Chen, Yong Yang*	Computational Materials Science	180	109708
61	<a href="https://pubs-rsc-org-443.webvpn.las.ac.cn/en/content/articlelanding/2020/CE/DOCE00157K#!divAbstract">https://pubs-rsc-org-443.webvpn.las.ac.cn/en/content/articlelanding/2020/CE/DOCE00157K#!divAbstract</a>	A new Fourier transformation method for SAXS of polymer lamellar crystals	Xiangyang Li*, Jianjun Ding, Pujing Chen, Kang Zheng, Lin Chen and Xingyou Tian	CrystEngComm	22 (17)	3042-3058
62	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/ce/d0ce01030h#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/ce/d0ce01030h#!divAbstract</a>	MOF-derived PdNiCo alloys encapsulated in nitrogen-doped graphene for robust hydrogen evolution reactions	Shihao Xu; Fan Yang; Shuai Han; Shudong Zhang; Qiang Wang; Changlong Jiang	CrystEngComm	36 (22)	6063-6070
63	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/EW/C9EW00472F#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/EW/C9EW00472F#!divAbstract</a>	Porous carbon nanosheets functionalized with Fe <sub>3</sub> O <sub>4</sub> nanoparticles for capacitive removal of heavy metal ions from water	Cuijiao Zhao, Xinlei Wang, Shengbo Zhang, Na Sun, Hongjian Zhou*, Guozhong Wang, Yunxia Zhang, Haimin Zhang*, Huijun Zhao	Environmental Science Water Research & Technology	6(2)	331-340
64	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/EN/C9EN01265F#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/EN/C9EN01265F#!divAbstract</a>	A Direct Z-Scheme ZnS/Co <sub>9</sub> S <sub>8</sub> Heterojunction-Based Photoelectrochemical Sensor for the Highly Sensitive and Selective Detection of Chlorpyrifos	Shi-Hua Chen, Xiang-Yu Xiao, Pei-Hua Li, Yi-Xiang Li, Meng Yang*, Zheng Guo*, and Xing-Jiu Huang*	Environmental Science-Nano	7	753-763
65	<a href="https://doi.org/10.1039/D0EN00686F">https://doi.org/10.1039/D0EN00686F</a>	Improving the utilization rate of foliar nitrogen fertilizers by surface roughness engineering of silica spheres	Wenchao Li, Ruoyu Fan, Hongjian Zhou, * Yinfeng Zhu, Xu Zheng, Mengyu Tang, Xiaosi Wu, Chengzhong Yu and Guozhong Wang *	Environmental Science-Nano	7 (11)	3526-3535
66	<a href="https://ieeexplore.ieee.org/document/9003199">https://ieeexplore.ieee.org/document/9003199</a>	Backward Diode Rectifying Behavior in AgCrO <sub>2</sub> /In <sub>2</sub> O <sub>3</sub>	Chenhui Li, Bingbing Yang, Renhuai Wei*, Ling Hu, Xianwu Tang, Jie Yang, Xuebin Zhu*, Yuping Sun	IEEE Electron Device Letters	41(4)	541-544

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67	<a href="https://pubs.acs.org/doi/10.1021/acs.iecr.0c03175">https://pubs.acs.org/doi/10.1021/acs.iecr.0c03175</a>	Janus-Type Hybrid Metamaterial with Reversible Solar-Generated Heat Storage and Release for High-Efficiency Solar Desalination of Seawater	Ruijun Zhang, Cui Liu, Nian Li, Liqing Chen, Tingting Xu, Yi Qin, Shudong Zhang*, and Zhenyang Wang*	Industrial & Engineering Chemistry Research	59 (41)	18520-18528
68	<a href="https://pubs.acs.org/doi/10.1021/acs.inorgchem.9b03625">https://pubs.acs.org/doi/10.1021/acs.inorgchem.9b03625</a>	Achieving Macroscopic V <sub>4</sub> C <sub>3</sub> T <sub>x</sub> MXene by Selectively Etching Al from V <sub>4</sub> AIC <sub>3</sub> Single Crystals	Dong Wang, Jianguo Si, Shuai Lin*, Ranran Zhang, Yanan Huang, Jie Yang, Wenjian Lu*, Xuebin Zhu, and Yuping Sun	Inorganic Chemistry	59 (5)	3239-3248
69	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/qi/d0qi00717j">https://pubs.rsc.org/en/content/articlelanding/2020/qi/d0qi00717j</a>	Copper nanocrystals anchored on an O-rich carbonized corn gel for nitrogen electroreduction to ammonia	Chang Li, Shengbo Zhang, Zhenhua Ding, Hongjian Zhou, Guozhong Wang, Haimin Zhang	Inorganic Chemistry Frontiers	7(19)	3555-3560
70	<a href="https://www.worldscientific.com/doi/abs/10.1142/S0129183120501430">https://www.worldscientific.com/doi/abs/10.1142/S0129183120501430</a>	Spin polarization in monolayer MoS <sub>2</sub> in the presence of proximity-induced interactions	Xin Nin Zhao, Wen Xu*, Yin Ming Xiao, and Ben Van Duppen	International Journal of Modern Physics C	31 (10)	2050143
71	<a href="https://doi.org/10.1007/s11581-020-03609-2">https://doi.org/10.1007/s11581-020-03609-2</a>	Porous flower-like ZnCo <sub>2</sub> O <sub>4</sub> and ZnCo <sub>2</sub> O <sub>4</sub> @C composite: a facile controllable synthesis and enhanced electrochemical performance	Ling Wang*, Di Li, Jian Zhang, Chunjun Song, Hongxing Xin, Xiaoying Qin*	Ionics	26(9)	4479-4487
72	<a href="https://www.sciencedirect.com/science/article/pii/S0925838819337338?via%3Diuh">https://www.sciencedirect.com/science/article/pii/S0925838819337338?via%3Diuh</a>	Growth and optoelectronic properties of Cu <sub>3</sub> NPdx thin films by solution deposition	Haiyun Tong, Hanlu Zhang, Zhenzhen Hui, Xianwu Tang, Renhuai Wei, Wenhai Song*, Ling Hu, Chuanbing Cai, Xuebin Zhu*, Yuping Sun	Journal of Alloys and Compounds	815	152487
73	<a href="https://www.sciencedirect.com/science/article/pii/S0925838820305946">https://www.sciencedirect.com/science/article/pii/S0925838820305946</a>	Epitaxial superconducting delta-MoN and delta-NbN thin films by a chemical solution deposition	Haiyun Tong, Hanlu Zhang, Zhenzhen Hui, Xianwu Tang, Renhuai Wei, Wenhai Song*, Ling Hu, Chuanbing Cai, Xuebin Zhu*, Yuping Sun	Journal of Alloys and Compounds	826	154231
74	<a href="https://doi.org/10.1016/j.jallcom.2019.153151">https://doi.org/10.1016/j.jallcom.2019.153151</a>	Large and antiferromagnetic negative thermal expansion over a wide temperature zone in MnNiGe <sub>1-x</sub> Pbx (0.04 ≤ x ≤ 0.2) alloys	Feng Zhu, Changjian Ji, Jianchao Lin*, Peng Tong, Cheng Yang, Longfu Li, Xuekai Zhang, Ying Wu, Wenhai Song, Xuebin Zhu, and Yuping Sun	Journal of Alloys and Compounds	820	153151
75	<a href="https://doi.org/10.1016/j.jallcom.2019.152655">https://doi.org/10.1016/j.jallcom.2019.152655</a>	VO <sub>2</sub> (M) nanoparticles with controllable phase transition and high nanothermochromic performance	Kaibin Li, Ming Li*, Chang Xu, Yuanyuan Luo, Guanghai Li*	Journal of Alloys and Compounds	816	152655
76	<a href="https://www.sciencedirect.com/science/article/pii/S0925838820308203">https://www.sciencedirect.com/science/article/pii/S0925838820308203</a>	Tailoring microstructures and tensile properties of a precipitation-strengthened (FeCoNi) <sub>94</sub> Ti-6 medium-entropy alloy	Y.Chen, H.W. Deng, Z.M. Xie*, M.M.Wang, J.F. Yang, T. Zhang*, Y. Xiong, R. Liu, X.P. Wang, Q.F. Fang, C.S. Liu	Journal of Alloys and Compounds	828	154457
77	<a href="https://doi.org/10.1016/j.jallcom.2020.154312">https://doi.org/10.1016/j.jallcom.2020.154312</a>	Effects of annealing temperature and layer thickness on hardening behavior in cross accumulative roll bonded Cu/Fe nanolamellar composite	L.F. Zhang, R. Gao*, B.L. Zhao, M. Sun, K. Jing, X.P. Wang*, T. Hao, Z.M. Xie, R. Liu, Q.F. Fang, C.S. Liu	Journal of Alloys and Compounds	827	154312

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78	<a href="https://doi.org/10.1016/j.jallcom.2020.158178">https://doi.org/10.1016/j.jallcom.2020.158178</a>	Behavior and mechanism of internal friction peak in quenched Fe-18 at.% Ga alloy	Meng Sun, Wenjie Huang, Lan Li, Weibin Jiang, Rui Gao, Wen Wen, Ting Hao, Xianping Wang*, Qianfeng Fang*	Journal of Alloys and Compounds	856	158178
79	<a href="https://aip.scitation.org/doi/10.1063/5.0023656">https://aip.scitation.org/doi/10.1063/5.0023656</a>	Design strategy for p-type transparent conducting oxides	Ling Hu, Renhuai Wei, Xianwu Tang, Wenjian Lu, Xuebin Zhu*, and Yuping Sun*	Journal of Applied Physics	128 (14)	140902(1-11)
80	<a href="https://aip.scitation.org/doi/10.1063/1.5131055">https://aip.scitation.org/doi/10.1063/1.5131055</a>	Enhanced multiferroicity in Mn- and Cu-modified 0.7BiFeO <sub>3</sub> -0.3(Ba <sub>0.85</sub> Ca <sub>0.15</sub> )TiO <sub>3</sub> ceramics	MingFang Shu, Dong Wang, Sumei Li, Lihua Yin, Caixia Wang, Wenhai Song, Jie Yang*, Xuebin Zhu, and Yuping Sun	Journal of Applied Physics	127(6)	64102
81	<a href="https://aip.scitation.org/doi/10.1063/5.0026210">https://aip.scitation.org/doi/10.1063/5.0026210</a>	Improved ferroelectric, piezoelectric, and magnetic properties in BiFeO <sub>3</sub> -(Ba <sub>0.85</sub> Ca <sub>0.15</sub> )TiO <sub>3</sub> ceramics through Mn addition	MingFang Shu, Dong Wang, Sumei Li, Bingbing Yang, Lihua Yin, Wenhai Song, Jie Yang*, Xuebin Zhu, and Yuping Sun	Journal of Applied Physics	128(16)	164101
82	<a href="https://aip.scitation.org/doi/full/10.1063/5.0005334">https://aip.scitation.org/doi/full/10.1063/5.0005334</a>	Plasmonic hot electrons for sensing, photodetection, and solar energy applications: A perspective	Haibin Tang, Chih-Jung Chen, Zhulin Huang, Joseph Bright, Guowen Meng, Ru-Shi Liu*, Nianqiang Wu,*	Journal of Chemical Physics	152(22)	220901
83	<a href="https://www.sciencedirect.com/science/article/pii/S0021979720301120">https://www.sciencedirect.com/science/article/pii/S0021979720301120</a>	Laser ablation in liquids for the assembly of Se@Au chain-oligomers with long-term stability for photothermal inhibition of tumor cells	Yunyu Cai*, Yajun Zhang, Sihan Ji, Yixing Ye, Shouliang Wu, Jun Liu, Shaopeng Chen*, Changhao Liang*	Journal of Colloid and Interface Science	566	284-295
84	<a href="https://www.sciencedirect.com/science/article/pii/S0021979719314419">https://www.sciencedirect.com/science/article/pii/S0021979719314419</a>	Laser-synthesized graphite carbon encased gold nanoparticles with specific reaction channels for efficient oxygen reduction	Chao Zhang, Pengfei Li, Xinlei Wang, Jun Liu*, Yixing Ye, Qi Chen, Dongshi Zhang, Changhao Liang*	Journal of Colloid and Interface Science	563	74-80
85	<a href="https://www.sciencedirect.com/science/article/pii/S0021979720301090">https://www.sciencedirect.com/science/article/pii/S0021979720301090</a>	Ultrafine copper nanoparticles anchored on reduced graphene oxide present excellent catalytic performance toward 4-nitrophenol reduction	Xingyu Kang, Dayong Teng, Shouliang Wu*, Zhenfei Tian, Jun Liu, Pengfei Li, Yao Ma, Changhao Liang*	Journal of Colloid and Interface Science	566	265-270
86	<a href="https://www.sciencedirect.com/science/article/pii/S157266572030117X">https://www.sciencedirect.com/science/article/pii/S157266572030117X</a>	Analyzing the anodic stripping square wave voltammetry of heavy metal ions via machine learning: Information beyond a single voltammetric peak	Jia-Jia Ye, Chu-Hong Lin*, Xing-Jiu Huang*	Journal of Electroanalytical Chemistry	872	113934
87	<a href="https://doi.org/10.1007/s10832-020-00217-4">https://doi.org/10.1007/s10832-020-00217-4</a>	Structural, piezoelectric, multiferroic and magnetoelectric properties of (1-x)BiFeO <sub>3</sub> -xBa(1-y)Sr(y)TiO <sub>3</sub> solid solutions	Jie Wu, Gaochao Zhao, Zhongzhu Jiang, Dong Wang, Jie Yang, Peng Tong, Xuebin Zhu, Lihua Yin*, Wenhai Song*, Yuping Sun	Journal of Electroceramics	44 (3)	256-264
88	<a href="https://www.sciencedirect.com/science/article/abs/pii/S2213343720308654">https://www.sciencedirect.com/science/article/abs/pii/S2213343720308654</a>	Review of fluoride removal from water environment by adsorption	Junyong He, Ya Yang, Zijian Wu, Chao Xie, Kaisheng Zhang, Lingtao Kong*, Jinhui Liu	Journal of Environmental Chemical Engineering	8	104516



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89	<a href="https://www.sciencedirect.com/science/article/pii/S0304389420308797">https://www.sciencedirect.com/science/article/pii/S0304389420308797</a>	Raman reporter-assisted Au nanorod arrays SERS nanoprobe for ultrasensitive detection of mercuric ion (Hg <sup>2+</sup> ) with superior anti-interference performances	Qian Zhao, Hongwen Zhang,* Fu hao, Wei Yi, and Weiping Cai*	Journal of Hazardous Materials	398 (5)	122890
90	<a href="https://www.sciencedirect.com/science/article/pii/S0304389420305148">https://www.sciencedirect.com/science/article/pii/S0304389420305148</a>	Ethanol introduced synthesis of ultrastable 1T-MoS <sub>2</sub> for removal of Cr(VI)	Zeyang Li, Ruoyu Fan, Zhi Hu, Wenchao Li, Hongjian Zhoua*, Shenghong Kang, Yunxia Zhanga, Haimin Zhang, GuozhongWang*	Journal of Hazardous Materials	394	122525
91	<a href="https://www.sciencedirect.com/science/article/pii/S0304389420308839">https://www.sciencedirect.com/science/article/pii/S0304389420308839</a>	A dual-response ratiometric fluorescent sensor by europium-doped CdTe quantum dots for visual and colorimetric detection of tetracycline	Shuai Han, Liang Yang*, Zhigang Wen, Suyun Chu, Mei Wang, Zhenyang Wang*, and Changlong Jiang*	Journal of Hazardous Materials	398	122894
92	<a href="https://onlinelibrary.wiley.com/doi/epdf/10.1002/anie.202005959">https://onlinelibrary.wiley.com/doi/epdf/10.1002/anie.202005959</a>	Colorimetric fluorescent paper strip with smartphone platform for quantitative detection of cadmium ions in real samples	HaiqianWang, Jiangguo Da, LiangYang, SuyunChu, FanYang, ShaomingYu*, Changlong Jiang*	Journal of Hazardous Materials	392	122506
93	<a href="https://doi.org/10.1039/D0TA08364J">https://doi.org/10.1039/D0TA08364J</a>	Prediction of improved thermoelectric performance by ordering in double half-Heusler materials	Shuping Guo, Yongsheng Zhang*	Journal of Materials Chemistry A	8(44)	23590–23598
94	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/ta/c9ta13135c#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/ta/c9ta13135c#!divAbstract</a>	Efficient electrochemical N <sub>2</sub> fixation by doped-oxygen-induced phosphorus vacancy defects on copper phosphide nanosheets	Meng Jin, Xian Zhang* , Miaomiao Han, Haojie Wang, Guozhong Wang and Haimin Zhang*	Journal of Materials Chemistry A	8(12)	5936-5942
95	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/TA/D0TA00382D#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/TA/D0TA00382D#!divAbstract</a>	Lignosulfonate functionalized g-C <sub>3</sub> N <sub>4</sub> /carbonized wood sponge for highly efficient heavy metal ion scavenging	Yue Gu, Mengxiang Ye, Yongchuang Wang, Huaimeng Li, Haimin Zhang, Guozhong Wang, Yunxia Zhang* and Huijun Zhao	Journal of Materials Chemistry A	8 (25)	12687-12698
96	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/ta/c9ta14139a#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/ta/c9ta14139a#!divAbstract</a>	Passivation effect of halogenated benzylammonium as a second spacer cation for improved photovoltaic performance of quasi-2D perovskite solar cells	Guozhen Liu, Xiao-Xiao Xu, Shendong Xu, Liying Zhang, Huifen Xu, Liangzheng Zhu, Xianxi Zhang, Haiying Zheng* and Xu Pan*	Journal of Materials Chemistry A	8 (12)	5900-5906
97	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/TC/C9TC06577F#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/TC/C9TC06577F#!divAbstract</a>	Two-dimensional flower-shaped Au@Ag nanoparticle arrays as effective SERS substrates with high sensitivity and reproducibility for detection of thiram	Changchang Xing, Shichuan Zhong, Jie Yu, Xuejiao Li, An Cao, Dandan Men*, Bo Wu, Weiping Cai and Yue Li*	Journal of Materials Chemistry C	8(11)	3838-3845
98	<a href="https://doi.org/10.1039/d0tc00795a">https://doi.org/10.1039/d0tc00795a</a>	Synergistically optimized electrical and thermal properties by introducing electron localization and phonon scattering centers in CuGaTe <sub>2</sub> with enhanced mechanical properties	Lulu Huang, Jian Zhang*, Chen Zhu, Zhenhua Ge, Yuanyue Li, Di Li*, and Xiaoying Qin*	Journal of Materials Chemistry C	8(22)	7534-7542
99	<a href="https://doi.org/10.1557/jmr.2019.414">https://doi.org/10.1557/jmr.2019.414</a>	Hot deformation behavior of a new tailored cobalt-based superalloy for turbine discs	Xiaokang Zhong, Fusheng Han*	Journal of Materials Research	35(6)	633-643

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100	<a href="https://link.springer.com/article/10.1007/s10853-020-05000-y">https://link.springer.com/article/10.1007/s10853-020-05000-y</a>	Oxidative degradation of sulfamethoxazole antibiotic catalyzed by porous magnetic manganese ferrite nanoparticles: mechanism and by-products identification	Yulian Li, Junyong He, Kaisheng Zhang, Peidong Hong, Chengming Wang, Lingtao Kong*, and Jinhui Liu	Journal of Materials science	55(28)	13767-13784
101	<a href="https://doi.org/10.1016/j.jmst.2020.07.043">https://doi.org/10.1016/j.jmst.2020.07.043</a>	High damping in Fe-Ga-La alloys: Phenomenological model for magneto-mechanical hysteresis damping and experiment	Meng Sun, Anatoly Balagurov, Ivan Bobrikov, Xianping Wang*, Wen Wen, Igor S. Golovin, Qianfeng Fang*	Journal of Materials Science & Technology	72	69-80
102	<a href="https://www.sciencedirect.com/science/article/pii/S2352847820300368?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S2352847820300368?via%3Dihub</a>	Design of flexible inorganic BiFe <sub>0.93</sub> Mn <sub>0.07</sub> O <sub>3</sub> ferroelectric thin films for nonvolatile memory	Bingbing Yang, Chenhui Li, Miao Liu, Renhui Wei, Xianwu Tang, Ling Hu, Wenhai Song, Xuebin Zhu*, Yuping Sun*	Journal of Materiomics	6(3)	600-606
103	<a href="https://doi.org/10.1016/j.jmst.2020.08.001">https://doi.org/10.1016/j.jmst.2020.08.001</a>	Synergistic optimization of electrical and thermal transport in n-type Bi-doped PbTe by introducing coherent nanophase Cu <sub>1.75</sub> Te	Chen Zhu, Jian Zhang*, Hongwei Ming, Lulu Huang, Yuanyue Li, Tao Chen, Di Li*, Baoli Zhang, Jingtiao Xu, Xiaoying Qin*	Journal of Materiomics	7(1)	146-155
104	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0167732219362269">https://www.sciencedirect.com/science/article/abs/pii/S0167732219362269</a>	Engineered phosphorous-functionalized biochar with enhanced porosity using phytic acid-assisted ball milling for efficient and selective uptake of uranium	Yuanbiao Zhou, Jiang Xiao, Rui Hu*, Tianhui Wang, Xuelian Shao, Guangcai Chen, Lin Chen, Xingyou Tian*	Journal of Molecular Liquids	303	112659
105	<a href="https://www.sciencedirect.com/science/article/pii/S0022311520302798?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0022311520302798?via%3Dihub</a>	Thermal shock fatigue behaviors of various W-0.5 wt%ZrC materials under repetitive transient heat loads	Wang Mingming, Xie Zhuoming*, Deng Haowei, Liu Rui, Yang Junfeng, Zhang Tao*, Wang Xianping, Fang Qianfeng, Liu Changsong, Liu Xiang, Xiong Ying	Journal of Nuclear Materials	534	152152
106	<a href="https://linkinghub.elsevier.com/retrieve/pii/S0022311519312668">https://linkinghub.elsevier.com/retrieve/pii/S0022311519312668</a>	Insight into interface cohesion and impurity-induced embrittlement in carbide dispersion strengthened tungsten from first principles	Xuebang Wu, Xu Zhang, Z.M.Xie, Xiangyan Li, C.R.Mirand, C.S.Liu	Journal of Nuclear Materials	538	152223
107	<a href="https://doi.org/10.1016/j.jnucmat.2020.152548">https://doi.org/10.1016/j.jnucmat.2020.152548</a>	Study on thermal stability and irradiation response of copper-iron nano-multilayer composite fabricated by cross accumulative roll bonding	Hao, Z.M. Xie, R. Liu, X.P. Wang*, Q.F. Fang, C.S. Liu	Journal of Nuclear Materials	543	152548
108	<a href="https://pubs.acs.org/doi/abs/10.1021/acs.jpcc.0c00527">https://pubs.acs.org/doi/abs/10.1021/acs.jpcc.0c00527</a>	Superconducting and Topological Properties in Centrosymmetric PbTaS <sub>2</sub> Single Crystals	Jingjing Gao, Jianguo Si, Xuan Luo*, Jian Yan, Zhongzhu Jiang, Wei Wang, Chunqiang Xu, Xiaofeng Xu, Peng Tong, Wenhai Song, Xuebin Zhu, Wenjian Jian Yan, Xuan Luo*, Jingjing Gao, Hongyan Lv, Chuanying Xi, Yan Sun, Wenjian Lu, Peng Tong, Zhigao Sheng, Xuebin Zhu, Wenhai Song, Yuping Sun*	Journal of Physical Chemistry C	124(11)	6349-6355
109	<a href="https://iopscience.iop.org/article/10.1088/1361-648X/ab851f/pdf">https://iopscience.iop.org/article/10.1088/1361-648X/ab851f/pdf</a>	The giant planar Hall effect and anisotropic magnetoresistance in Dirac node arcs semimetal PtSn <sub>4</sub>	Jian Yan, Xuan Luo*, Jingjing Gao, Hongyan Lv, Chuanying Xi, Yan Sun, Wenjian Lu, Peng Tong, Zhigao Sheng, Xuebin Zhu, Wenhai Song, Yuping Sun*	Journal of Physics-Condensed Matter	32(31)	315702(1-8)
110	<a href="https://doi.org/10.1088/1361-648X/ab851f/pdf">https://doi.org/10.1088/1361-648X/ab851f/pdf</a>	Boron-dopant enhanced stability of diamane with tunable band gap	Caoping Niu, Ya Cheng, Kaishuai Yang, Jie Zhang, Hanxing Zhang, Zhi Zeng and Xianlong Wang*	Journal of Physics-Condensed Matter	32(13)	135503, 1-8

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111	<a href="https://www.sciencedirect.com/science/article/pii/S0378775320305851?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0378775320305851?via%3Dihub</a>	Yarn ball-like MoS <sub>2</sub> nanospheres coated by nitrogen-doped carbon for enhanced lithium and sodium storage performance	Jin Bai, Bangchuan Zhao, * Xin Wang, Hongyang Ma, Kunzhen Li, Zhitang Fang, Han Li, Jianming Dai, Xuebin Zhu and Yuping Sun	Journal of Power Sources	465	228282
112	<a href="https://www.sciencedirect.com/science/article/pii/S0378775319316039">https://www.sciencedirect.com/science/article/pii/S0378775319316039</a>	Intragranular growth and evenly distribution mechanism of Li metal in Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> electrolyte	L.C.Zhang, J.F.Yang*, C.L.Li, Y.X.Gao, X.P.Wang, Q.F.Fang*	Journal of Power Sources	449	227610
113	<a href="https://doi.org/10.1016/j.jpowsour.2020.229075">https://doi.org/10.1016/j.jpowsour.2020.229075</a>	Ultra-thick 3D graphene frameworks with hierarchical pores for high-performance flexible micro-supercapacitors	Xinling Yu, Nian Li, Shudong Zhang, Cui Liu, Liqing Chen, Shuai Han, Yanping Song, Mingyong Han, Zhenyang Wang,	Journal of Power Sources	478	229075
114	<a href="https://pubs.acs.org/doi/10.1021/jacs.0c02117">https://pubs.acs.org/doi/10.1021/jacs.0c02117</a>	Structural Oscillation Revealed in Gold Nanoparticles	Nan Xia, Jinyun Yuan, Lingwen Liao, Wenhao Zhang, Jin Li, Haiteng Deng, Jinlong Yang*, Zhikun Wu*.	Journal of the American Chemical Society	142(28)	12140-12145
115	<a href="https://pubs.acs.org/doi/10.1021/jacs.9b11017">https://pubs.acs.org/doi/10.1021/jacs.9b11017</a>	A Dual Purpose Strategy to Endow Gold Nanoclusters with Both Catalysis Activity and Water Solubility	Yan Zhao, Shengli Zhuang, Lingwen Liao, Chengming Wang, Nan Xia, Zibao Gan, Wanniao Gu, Jin Li, Haiteng Deng, Zhikun Wu*	Journal of the American Chemical Society	142(2)	973-977
116	<a href="https://iopscience.iop.org/article/10.1149/1945-7111/ab812b">https://iopscience.iop.org/article/10.1149/1945-7111/ab812b</a>	Improved electrochemical performance of Na <sub>3</sub> V <sub>2-x</sub> Zr <sub>x</sub> (PO <sub>4</sub> ) <sub>3</sub> /C through electronic and ionic conductivities regulation	Hongyang Ma, Bangchuan Zhao*, Jin Bai, Kunzhen Li, Zhitang Fang, Peiyao Wang, Wanyun Li, Xuebin Zhu, and Yuping Sun	Journal of The Electrochemical Society	167 (7)	70548
117	<a href="https://www.sciencedirect.com/science/article/pii/S0955221919308076">https://www.sciencedirect.com/science/article/pii/S0955221919308076</a>	Investigation of Ti <sub>3</sub> AlC <sub>2</sub> formation mechanism through diffusional reaction between carbon and Mo-modified Ti <sub>6</sub> Al <sub>4</sub> V	Zhiyuan Xiao*, Sheng Ouyang, Xiaoguang Zhu, Wei Xu, Zhaoming Wang, Cheng Shao	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY	40 (4)	1125-1131
118	<a href="https://www.sciencedirect.com/science/article/pii/S2589152920300545?via%3Dihub#fig0005">https://www.sciencedirect.com/science/article/pii/S2589152920300545?via%3Dihub#fig0005</a>	Near-zero thermal expansion and high thermal conductivity from ambient to cryogenic temperatures in Hf <sub>0.87</sub> Ta <sub>0.13</sub> Fe <sub>2</sub> Cu <sub>x</sub>	Longfu Li, Peng Tong*, Weibin Jiang, JianChao Lin, Feng Zhu, MingFang Shu, ZhiTang Fang, GaoChao Zhao, ZhongZhu Jiang, Wei Wang, ChengBing Pan, YueBin Zhu, WenHei Song, YuDing Sun*	Materialia	9	100637
119	<a href="https://www.mdpi.com/1996-1944/13/1/179">https://www.mdpi.com/1996-1944/13/1/179</a>	Application of Machine Learning to Predict Grain Boundary Embrittlement in Metals by Combining Bonding-Breaking and Atomic Size Effects	Xuebang Wu, Yu-xuan Wang, Kan-ni He, Xiangyan Li, Wei Liu, Yange Zhang , Yichun Xu, C.S. Liu	Materials	13(1)	179
120	<a href="https://www.mdpi.com/1996-1944/13/4/996">https://www.mdpi.com/1996-1944/13/4/996</a>	Separation and Recovery of Refined Si from Al-Si Melt by Modified Czochralski Method	Jingwei Li, Juncheng Li, Yinhe Lin*, Jian Shi, Boyuan Ban, Guicheng Liu, Wochul Yang, Jian Chen*	Materials	13(4)	996
121	<a href="https://doi.org/10.1016/j.matdes.2019.108396">https://doi.org/10.1016/j.matdes.2019.108396</a>	Optical switching and nanothermochromic studies of VO <sub>2</sub> (M) nanoparticles prepared by mild thermolysis method	Chang Xu, Guowei Liu, Ming Li*, Kaibin Li , Yuanyuan Luo, Yi Long*, Guanghai Li*	Materials & Design	187	108396

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122	<a href="https://doi.org/10.1039/C9QM00487D">https://doi.org/10.1039/C9QM00487D</a>	High thermoelectric performance for an Ag <sub>2</sub> Se-based material prepared by a wet chemical method	D. Li*, J. H. Zhang, J. M. Li, J. Zhang* and X. Y. Qin *	Materials Chemistry Frontiers	4 (3)	875-880
123	<a href="https://pubs.rsc.org/en/content/articlehtml/2020/mh/c9mh01976f">https://pubs.rsc.org/en/content/articlehtml/2020/mh/c9mh01976f</a>	Giant room-temperature barocaloric effect at the electronic phase transition in Ni <sub>1-x</sub> Fe <sub>x</sub> S	Jianchao Lin, Peng Tong*, Xuekai Zhang, Zichen Wang, Zhao Zhang, Bing Li*, Guohua Zhong*, Jie Chen, Yaoda Wu, Huaile Lu, Lunhua He, Bo Bai, Longchao Ling, Wenkei Song, Zhidong Zhang, and	Materials Horizons	7(10)	2690-2695
124	<a href="https://www.sciencedirect.com/science/article/pii/S0167577X20309733">https://www.sciencedirect.com/science/article/pii/S0167577X20309733</a>	Amorphous V <sub>2</sub> O <sub>5</sub> as high performance cathode for aqueous zinc ion battery	Shougang Wu, Youcai Ding, Linhua Hu, Xianxi Zhang, Yang Huang*, and Shuanghong Chen*	Materials Letters	277	128268
125	<a href="https://www.nature.com/articles/s41598-020-74016-7">https://www.nature.com/articles/s41598-020-74016-7</a>	Double-layer anti-reflection coating of SiO <sub>2</sub> -TiO <sub>2</sub> /SiO <sub>2</sub> -TiO <sub>2</sub> -PEG300 with high transmittance and super-hydrophilicity	Yong Shuai Wei, Shao Hui Xu*, Li Gang Yuan*, Biao Wang, Shu Li Liu and Guang Tao Fei	Materials Research Express	7(9)	96402
126	<a href="https://www.mdpi.com/2075-4701/10/2/234">https://www.mdpi.com/2075-4701/10/2/234</a>	Prediction and Analysis of Tensile Properties of Austenitic Stainless Steel Using Artificial Neural Network	Yu-xuan Wang, Xuebang Wu, Xiangyan Li, Z.M. Xie, R. Liu, Wei Liu, Yange Zhang, Yichun Xu, C.S. Liu	Metals	10(2)	234
127	<a href="https://doi.org/10.1016/j.nanoen.2020.105323">https://doi.org/10.1016/j.nanoen.2020.105323</a>	Alternately stacked thin film electrodes for high-performance compact energy storage	Dou Lin, Ou Qian, Dexian Huo, Qijun Pan, Shiping Zhang, Zhaoming Wang, Fangming Han*, Bingqing Wei*	Nano energy	78	105323
128	<a href="https://www.sciencedirect.com/science/article/abs/pii/S2211285520303104">https://www.sciencedirect.com/science/article/abs/pii/S2211285520303104</a>	Interface passivation treatment by halogenated low-dimensional perovskites for high-performance and stable perovskite photovoltaics	Guozhen Liu, Haiying Zheng*, Huifen Xu, Liying Zhang, Xiaoxiao Xu, Shendong Xu, and Xu Pan*	Nano Energy	73	104753
129	<a href="https://www.sciencedirect.com/science/article/pii/S2211285520310867">https://www.sciencedirect.com/science/article/pii/S2211285520310867</a>	Enhanced power factor and thermoelectric performance for n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> based composites incorporated with 3D topological insulator nanoinclusions	Busra Jabbar, Xiaoying Qin*, Amir Mansoor, Hongwei Ming, LuLu Huang, Mazhar Hussain Danish, Jian Zhang*, Di Li*, Chen Zhu, Hongxing Xin, Chun jun Song	Nano Energy	80	105512
130	<a href="https://iopscience.iop.org/article/10.1088/2399-1984/ab92f5">https://iopscience.iop.org/article/10.1088/2399-1984/ab92f5</a>	2D foaming of ultrathin MXene sheets with highly conductive silver nanowires for wearable electromagnetic interference shielding applications owing to multiple reflections within created	Hongyu Yin, Lili Bi, Zhen Wu, Guixin Wang, Mian Li, Xiaobing Zhou, Shulin Ji, Wang Zhang, Yongwu Peng, Jun Pan, Cui Ye, Qing Huang	Nano Futures	4(3)	35002
131	<a href="https://doi.org/10.1007/s12274-020-3083-3">https://doi.org/10.1007/s12274-020-3083-3</a>	Robust enhanced hydrogen production at acidic conditions over molybdenum oxides-stabilized ultrafine palladium electrocatalysts.	Ji Sun, Xian Zhang, Meng Jin, Qizhong Xiong, Guozhong Wang, Haimin Zhang* and Huijun Zhao*	Nano Research	14(1)	268-274
132	<a href="https://www.mdpi.com/2079-4991/10/4/762">https://www.mdpi.com/2079-4991/10/4/762</a>	Optoelectronic Properties of Monolayer Hexagonal Boron Nitride on Different Substrates Measured by Terahertz Time-Domain Spectroscopy	Muhammad Bilal, Wen Xu*, Chao Wang, Hua Wen, XinNian Zhao, Dan Song, and Lan Ding	Nanomaterials	10(4)	762-11

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133	<a href="https://pubs.rsc.org/ko/content/articlehtml/2020/nr/c9nr07646h">https://pubs.rsc.org/ko/content/articlehtml/2020/nr/c9nr07646h</a>	Construction of hierarchical V4C3-MXene/MoS2/C nanohybrids for high rate lithium-ion batteries	Jin Bai , Bangchuan Zhao*, Shuai Lin*, Kunzhen Li, Jiafeng Zhou, Jianming Dai, Xuebin Zhu and Yuping Sun	Nanoscale	12(2)	1144-1154
134	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/NR/C9NR09238B#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/NR/C9NR09238B#!divAbstract</a>	A split-type structure of Ag nanoparticles and Al2O3@Ag@Si nanocone arrays: an ingenious strategy for SERS-based detection	Zhen Wang, Chunxue Zheng, Peng Zhang, Zhulin Huang, Chuhong Zhu, Xiujuan Wang, Xiaoye Hu * and Jian Yan*	Nanoscale	12 (7)	4359-4365
135	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/NR/C9NR09238B#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/NR/C9NR09238B#!divAbstract</a>	Mars-van-Krevelen mechanism-based blackening of nano-sized white semiconducting oxides for synergetic solar photo-thermocatalytic degradation of dye pollutants	Haoming Bao, Shuyi Zhu, Le Zhou, Hao Fu, Hongwen Zhang* and Weiping Cai*	Nanoscale	12(6)	4030-4039
136	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/NH/D0NH00394H#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/NH/D0NH00394H#!divAbstract</a>	Ultra-fast synthesis of water soluble MoO3-x quantum dots with controlled oxygen vacancies and their near infrared fluorescence sensing to detect H2O2	Shichuan Zhong, Changchang Xing, An Cao, Tao Zhang, Xuejiao Li, Jie Yu, Weiping Cai, Yue Li*	Nanoscale Horizons	5 (11)	1538-1543
137	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/NH/C9NH00799G#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/NH/C9NH00799G#!divAbstract</a>	Ultrathin layer solid transformation-enabled-surface enhanced Raman spectroscopy for trace harmful small gaseous molecule detection	Haoming Bao, Hongwen Zhang,* Hao Fu, Le Zhou, Peng Zhang, Yue Li and Weiping Cai*	Nanoscale Horizons	5(4)	739-746
138	<a href="https://iopscience.iop.org/article/10.1088/1361-6528/abaf82">https://iopscience.iop.org/article/10.1088/1361-6528/abaf82</a>	Construction of low melting point alloy/graphene three-dimensional continuous thermal conductive pathway for improving in-plane and through-plane thermal conductivity of	Ping Zhang, Xian Zhang*, Xin Ding, Yanyan Wang, Mengting Shu, Xiaoliang Zeng*, Yi Gong, Kang Zheng and Xingyou Tian*	Nanotechnology	31 (47)	475709
139	<a href="https://iopscience.iop.org/article/10.1088/1361-6528/ab646a">https://iopscience.iop.org/article/10.1088/1361-6528/ab646a</a>	Plasmonic Ordered Pore Arrays Ag Film Coated Glass: Transparent and Solar Heat Reflective Material	Xu Dong Gao, Shu Li Liu, Guang Tao Fei,* Li De Zhang,* Dan Dan Men, Zhang Yao, Shao Hui Xu and Xin Hua Li	Nanotechnology	31(14)	145203
140	<a href="https://iopscience.iop.org/article/10.1088/1361-6528/ab6630">https://iopscience.iop.org/article/10.1088/1361-6528/ab6630</a>	Rapid and ultrasensitive surface-enhanced Raman spectroscopy detection of mercury ions with gold film supported organometallic nanobelts	Haoming Bao*, Hao Fu, Le Zhou, Weiping Cai and Hongwen Zhang*	Nanotechnology	31 (15)	155501
141	<a href="https://iopscience.iop.org/article/10.1088/1361-6528/ab9eda/pdf">https://iopscience.iop.org/article/10.1088/1361-6528/ab9eda/pdf</a>	Ordered gold-coated glass nano-sting array with large density tips as highly SERS-active chips for detection of trace organophosphorous toxicant	Qian Zhao, Guangqiang Liu, Hongwen Zhang and Weiping Cai*	Nanotechnology	31 (41)	415301
142	<a href="https://iopscience.iop.org/article/10.1088/1361-6528/ab477c">https://iopscience.iop.org/article/10.1088/1361-6528/ab477c</a>	Engineering of flexible granular Au nanocap ordered array and its surface enhanced Raman spectroscopy effect	Peng Zhang, Guangqiang Liu*, Sujuan Feng*, Xia Zhou, Wangsheng Xu and Weiping Cai	Nanotechnology	31(3)	35303
143	<a href="https://iopscience.iop.org/article/10.1088/1361-6528/ab7100">https://iopscience.iop.org/article/10.1088/1361-6528/ab7100</a>	Silver nanoparticle-assembled micro-bowl arrays for sensitive SERS detection of pesticide residue	Chuhong Zhu, Qiangsheng Zhao, Guowen Meng,* Xiujuan Wang, Xiaoye Hu, Fangming Han, Yong Lei*	Nanotechnology	31(20)	205303

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145	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/NJ/D0NJ00125B">https://pubs.rsc.org/en/content/articlelanding/2020/NJ/D0NJ00125B</a>	Degradation of tetracycline in water using Fe3O4 nanospheres as Fenton-like catalysts: kinetics, mechanisms and pathways	Mingxing Nie, Yulian Li, Junyong He, Chao Xie, Zijian Wu, Bai Sun, Kaisheng Zhang*, Lingtao Kong* and Jinhui Liu	New Journal of Chemistry	44(7)	2847-2857
146	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/NJ/D0NJ02830D#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/NJ/D0NJ02830D#!divAbstract</a>	A 3D porous carbon foam loaded with Fe3O4/graphene oxide for highly effective As(III) removal	Xiao Ge, Donghua Xie and Yunxia Zhang*	New Journal of Chemistry	44 (30)	12926-12931
147	<a href="https://pubs-rsc-org-s--bjmu.naihes.cn/en/journals/journalissues/nj">https://pubs-rsc-org-s--bjmu.naihes.cn/en/journals/journalissues/nj</a>	Increasing Heat Transfer Performance of Thermoplastic Polyurethane by Constructing Thermal Conduction Channels of Ultra-thin Boron Nitride Nanosheets and Carbon Nanotubes	Yue Ruan, Nian Li, Cui Liu, Liqing Chen, Shudong Zhang*, Zhenyang Wang*	New Journal of Chemistry	44 (43)	18823-18830
148	<a href="https://doi.org/10.1039/D0CP00067A">https://doi.org/10.1039/D0CP00067A</a>	Effects of local geometry distortion at the Al/Al2Cu interfaces on solute segregation	Xuemei Zhang, Yongsheng Zhang*	Physical Chemistry Chemical Physics	22(7)	4106-4114
149	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.235405">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.235405</a>	Origin of the multiple charge density wave order in 1T-VSe2	JianGuo Si, WenJian Lu*, HuiYan Wu, HongYan Lv, Xin Liang, QuanJun Li, and YuPing Sun*	Physical Review B	101(23)	235405(1-6)
150	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.075138">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.075138</a>	Origin of the large magnetoresistance in the candidate chiral superconductor 4H(b)-TaS2	Jingjing Gao, Jianguo Si, Xuan Luo*, Jian Yan, Zhongzhu Jiang, Wei Wang, Yuyan Han, Peng Tong, Wenhai Song, Xuebin Zhu, Quanjun Li, Wenjian Lu*, Yuning Sun*	Physical Review B	102(7)	075138(1-6)
151	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.144433">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.144433</a>	Magnetic anisotropy and anomalous Hall effect in monoclinic single crystal Cr5Te8	Zhongzhu Jiang, Xuan Luo*, Jian Yan, Jingjing Gao, Wei Wang, Gaocao Zhao, Yan Sun, Jianguo Si, Wenjian Lu, Peng Tong, Xuebin Zhu, Wenhai Song, and Yuning Sun*	Physical Review B	102(14)	144433(1-9)
152	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.195408">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.195408</a>	Computational prediction of a two-dimensional semiconductor SnO2 with negative Poisson's ratio and tunable magnetism by doping	Peng Jiang, Lili Kang, Xiaohong Zheng*, Zhi Zeng, and Stefano Sanvito*	Physical Review B	102(19)	195408
153	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.245417">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.245417</a>	Ferroelectric control of electron half-metallicity in A-type antiferromagnets and its application to nonvolatile memory devices	Peng Jiang, Lili Kang, Hua Hao, Xiaohong Zheng*, Zhi Zeng, and Stefano Sanvito*	Physical Review B	102(24)	245417
154	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.081402">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.102.081402</a>	Pure spin current generation via photogalvanic effect with spatial inversion symmetry	Xixi Tao, Peng Jiang, Hua Hao, Xiaohong Zheng*, Lei Zhang*, and Zhi Zeng	Physical Review B	102(8)	081402

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155	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.014105">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.014105</a>	Giant tunneling electroresistance in two-dimensional ferroelectric tunnel junctions with out-of-plane ferroelectric polarization	Lili Kang, Peng Jiang, Hua Hao, Yanhong Zhou, Xiaohong Zheng, Lei Zhang, and Zhi Zeng	Physical Review B	101 (1)	014105 (7)
156	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.99.155203">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.99.155203</a>	Thermoelectric optimization of AgBiSe <sub>2</sub> by defect engineering for room-temperature applications	Zhenzhen Feng, Yuhao Fu, Aditya Putatunda, Yongsheng Zhang* and David J. Singh*	Physical Review B	101(6)	064301 (8)
157	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.205128">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.205128</a>	Higgs mode and stability of xy-orbital ordering in Ca <sub>2</sub> RuO <sub>4</sub>	Guoren Zhang and Eva Pavarini	Physical Review B	101(20)	(205128-1)- (205128-9)
158	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.245412">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.245412</a>	Terahertz optical Hall effect in monolayer MoS <sub>2</sub> in the presence of proximity-induced interactions	XinNian Zhao, Wen Xu*, YiMing Xiao, Jian Liu, B. Van Duppen, and Francois m. Peeters	Physical Review B	101(24)	245412-12
159	<a href="https://journals.aps.org/prl/pdf/10.1103/PhysRevLett.124.236601">https://journals.aps.org/prl/pdf/10.1103/PhysRevLett.124.236601</a>	Temperature-Induced Lifshitz Transition and Possible Excitonic Instability in ZrSiSe	Fangcun Chen, Ying Pei, Shujing Li, Qiang Wang, Xuan Luo*, Jian Yan, Wenjian Lu, Peng Tong, Wenhai Song, Xuebin Zhu, Lei Zhang, Haibiao Zhou, Fenwei Zhang, Bing Zhang, A. I. Liechtenstein, M. J.	Physical Review Letters	124(23)	236601(1-6)
160	<a href="https://doi.org/10.1016/j.polymer.2020.122169">https://doi.org/10.1016/j.polymer.2020.122169</a>	Rapid phase transition of polybutene-1 from form II to form I induced by pressure	Xiangyang Li*, Pujing Chen, Jianjun Ding, Kang Zheng, Lin Chen, XingyouTian*	Polymer	189	122169
161	<a href="https://doi.org/10.1002/pcr2.10098">https://doi.org/10.1002/pcr2.10098</a>	In situ POM and FTIR investigation on quiescent phase transition of polybutene-1 from form II to form I	Xiangyang Li*, Jianjun Ding, Kang Zheng, Lin Chen, Xingyou Tian*	Polymer Crystallization	3(1)	e10098
162	<a href="https://doi.org/10.1016/j.powtec.2020.07.107">https://doi.org/10.1016/j.powtec.2020.07.107</a>	Effect of impurity content difference between quartz particles on flotation behavior and its mechanism	Xuesong Jiang, Jian Chen*, Mengnan Wei, Feifei Li, Boyuan Ban, Jingwei Li	Powder Technology	375	504-512
163	<a href="https://www.pnas.org/content/117/16/8736">https://www.pnas.org/content/117/16/8736</a>	Pressure-induced amorphization and existence of molecular and polymeric amorphous forms in dense SO <sub>2</sub>	Huichao Zhang, Ondrej Tom, Xiao-Di Liu, Roberto Bini, Eugene Gregoryanz, Philip Dalladay-Simpson, Simone De Panfilis, Mario Santoro, Federico Aiace Cerulli, and Roman Mertačák	Proceedings of the National Academy of Sciences of the United States of America	117 (16)	8736-8742
164	<a href="https://www.sciencedirect.com/science/article/pii/S1359646220302888">https://www.sciencedirect.com/science/article/pii/S1359646220302888</a>	Rationally designed three-dimensional porous NiCo <sub>2</sub> N@C reticular structure for high-performance Li-ion batteries	Peiyao Wang, Bangchuan Zhao*, Jin Bai, Kunzhen Li, Hongyang Ma, Wanyun Li, Xuebin Zhu, Yuping Sun	Scripta Materialia	186	104-108
165	<a href="https://www.sciencedirect.com/science/article/pii/S1359646219306244?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S1359646219306244?via%3Dihub</a>	Tunable thermal expansion in zinc-bonded composites: Zn/Si/Zn <sub>0.75</sub> Sn <sub>0.2</sub> Mn <sub>0.05</sub> NMn <sub>3</sub>	Zichen. Wang, Jianchao Lin*, Peng Tong*, Mingguang Kong, Xuekai Zhang, Cheng Yang, Wenhai Song and Yuping Sun	Scripta Materialia	177	166-171

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166	<a href="https://doi.org/10.1016/j.snb.2019.127486">https://doi.org/10.1016/j.snb.2019.127486</a>	Highly sensitive and stable analysis of trace arsenic(III) and mercury(II) in water by Low-pulse-energy (15 mJ) laser-induced breakdown spectroscopy assisted by active controllable spark	Min Jiang, Ming-Jun Ma, Meng Yang*, Li Fang, Yi-Xiang Li, Nan-Jing Zhao*, Xing-Jiu Huang*	Sensors and Actuators B- Chemical	305	127486
167	<a href="https://www.sciencedirect.com/science/article/pii/S1383586620320554">https://www.sciencedirect.com/science/article/pii/S1383586620320554</a>	Progress in recovery and recycling of kerf loss silicon waste in photovoltaic industry	Jingwei Li, Yinhe Lin*, Fanmao Wang, Jian Shi, Jifei Sun, Boyuan Ban, Guicheng Liu*, Jian Chen*	Separation and purification technology	254	117581
168	<a href="https://link.springer.com/article/10.1007/s12633-020-00457-7">https://link.springer.com/article/10.1007/s12633-020-00457-7</a>	Purification Mechanism of Quartz Sand by Combination of Microwave Heating and Ultrasound Assisted Acid Leaching Treatment	Feifei Li, Xuesong Jiang, Qiuxia Zuo, Jingwei Li, Boyuan Ban, Jian Chen*	Silicon	在线发表	在线发表
169	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/sml.202001974">https://onlinelibrary.wiley.com/doi/full/10.1002/sml.202001974</a>	A High - Energy - Density Hybrid Supercapacitor with P - Ni(OH)2@Co(OH)2 Core-Shell Heterostructure and Fe2O3 Nanoneedle Arrays as Advanced Integrated Electrodes	Kunzhen Li, Bangchuan Zhao*, Jin Bai Hongyang Ma Zhitang Fang Xuebin Zhu*, Yuping Sun	Small	16 (32)	2001974(1-9)
170	<a href="https://doi.org/10.1002/sml.202001035">https://doi.org/10.1002/sml.202001035</a>	NanoMetal Oxides with Special Surface Physicochemical Properties to Promote Electrochemical Detection of Heavy Metal Ions	Meng Yang, Pei-Hua Li, Shi-Hua Chen, Xiang-Yu Xiao, Chu-Hong Lin,* Xing-Jiu Huang,* and Wen-Qing Liu*	Small	16(25)	2001035
171	<a href="https://doi.org/10.1002/sml.201906830">https://doi.org/10.1002/sml.201906830</a>	Identifying Phase-Dependent Electrochemical Stripping Performance of FeOOH Nanorod: Evidence from Kinetic Simulation and Analyte-Material Interactions	Meng Yang, Yi-Xiang Li, Min Jiang, Pei-Hua Li, Shi-Hua Chen, Jin-Huai Liu, Chu-Hong Lin,* Xing-Jiu Huang,* and Wen-Qing Liu*	Small	16(7)	1906830
172	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/sml.201906880">https://onlinelibrary.wiley.com/doi/full/10.1002/sml.201906880</a>	Formation of B-N-C Coordination to Stabilize the Exposed Active Nitrogen Atoms in g-C3N4 for Dramatically Enhanced Photocatalytic Ammonia Synthesis Performance	Weikang Wang, Hongjian Zhou, Yanyan Liu, Shengbo Zhang, Yunxia Zhang, Guozhong Wang, Haimin Zhang,* and Huijun Zhao*	Small	16 (13)	1906880
173	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/smt.201900709">https://onlinelibrary.wiley.com/doi/abs/10.1002/smt.201900709</a>	PtPdAg Hollow Nanodendrites: Template-Free Synthesis and High Electrocatalytic Activity for Methanol Oxidation Reaction	Tao Zhang, Yiqiang Sun, Xuejiao Li, Xinyang Li, Dilong Liu, Guangqiang Liu, Cuncheng Li, Hong Jin Fan,* and Yue Li*	SMALL METHODS	4(1)	1900709
174	<a href="https://linkinghub.elsevier.com/retrieve/pii/S1386142519311734">https://linkinghub.elsevier.com/retrieve/pii/S1386142519311734</a>	Silver-nanoparticles/graphene hybrids for effective enrichment and sensitive SERS detection of polycyclic aromatic hydrocarbons	X. J. Wang, X. Y. Hu, F. M. Han, C. H. Zhu*	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	228	117783-117787
175	<a href="https://www.sciencedirect.com/science/article/pii/S0039914020302320?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0039914020302320?via%3Dihub</a>	An azacyclo-localizing fluorescent probe for the specific labeling of lysosome and autolysosome	LinlinYang, JunZhao, Jianping, Wang, Guanmei Han, Bianhua Liu, Wei Zhang, Yao, Fu, Ming-Yong Han, ZhenyangWang, Zhongping Zhang*	Talanta	216 (15)	120941
176	<a href="https://www.sciencedirect.com/science/article/pii/S0040609020303941">https://www.sciencedirect.com/science/article/pii/S0040609020303941</a>	The effect of Y2O3 addition on He desorption behavior and He bubble evolution in He-charged W-Y2O3 film	Le Wang, Ting Hao*, Bang-Lei Zhao, Rui Liu, Qian-Feng Fang, Chang-Song Liu, Xian-PingWang, Lei Cao,Jun-Ling Chen	Thin Solid Films	709	138184



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177	<a href="https://doi.org/10.1007/s42864-020-00039-5">https://doi.org/10.1007/s42864-020-00039-5</a>	Interaction of radiation-induced defects with tungsten grain boundaries at across scales: a short review	Xiang Yan Li, Yan-Ge Zhang, Yi-Chun Xu, Xue-Bang Wu*, Xiang-Shan Kong, Xian-Ping Wang, Qian-Feng Fang, Chang-Song Liu*	Tungsten	2	15-33
178	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0956053X20303895">https://www.sciencedirect.com/science/article/abs/pii/S0956053X20303895</a>	Recovery of high purity Si from kerf-loss Si slurry waste by flotation method using PEA collector	Jingwei Li*, Yinhe Lin*, Jian Shi, Boyuan Ban, Jifei Sun, Yong Ma, Fanmao Wang, Wei Lv, Jian Chen*	Waste Management	115	1-7
179	<a href="https://kns.cnki.net/kcms/detail/detail.aspx?dbcode=CJFD&amp;dbname=CJFDLAST2020&amp;filename=HJ202001020&amp;fileseq=1117202001020">https://kns.cnki.net/kcms/detail/detail.aspx?dbcode=CJFD&amp;dbname=CJFDLAST2020&amp;filename=HJ202001020&amp;fileseq=1117202001020</a>	溢油清除水面机器人在海洋石油污染处理中的应用	张凯, 李梁, 余道洋, 戚功美, 李民强, 刘锦淮	环境工程学报	14(1)	270-277
180	<a href="http://www.cjee.ac.cn/article/doi/10.12030/j.cjee.201906048">http://www.cjee.ac.cn/article/doi/10.12030/j.cjee.201906048</a>	一步法低温合成二维CN <sub>x</sub> 纳米材料及其对水中重金属离子的吸附性能	张开胜, 蔡兴国, 孔令涛, 刘锦淮	环境工程学报	14(4)	884-895
181	<a href="https://nxgp.cnki.net/kcms/detail?v=3uoqIhG8C46NmWw7YpEsKMypI3qVj28LGAQeMzBYR0Cz7E0z4nsAeLj">https://nxgp.cnki.net/kcms/detail?v=3uoqIhG8C46NmWw7YpEsKMypI3qVj28LGAQeMzBYR0Cz7E0z4nsAeLj</a>	基于改进Q学习算法的无人水面艇动态环境路径规划	王猛, 李民强, 余道洋	仪表技术	4	17-20

## 固体所2020年合作论文

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1	<a href="https://pubs.acs.org/doi/10.1021/acsami.0c00525">https://pubs.acs.org/doi/10.1021/acsami.0c00525</a>	Au-Decorated ZnFe <sub>2</sub> O <sub>4</sub> Yolk-Shell Spheres for Trace Sensing of Chlorobenzene	Ke Li, Yuanyuan Luo, Lei Gao, Tie Li, and Guotao Duan*	ACS APPLIED MATERIALS & INTERFACES	12 (14)	16792-16804
2	<a href="https://pubs.acs.org/doi/10.1021/acsami.9b21927">https://pubs.acs.org/doi/10.1021/acsami.9b21927</a>	Hollow FeP/Fe <sub>3</sub> O <sub>4</sub> Hybrid Nanoparticles on Carbon Nanotubes as Efficient Electrocatalysts for the Oxygen Evolution Reaction	Jie Yu, Tao Zhang, Yiqiang Sun, Xuejiao Li, Xinyang Li, Bo Wu, Dandan Men*, and Yue Li*	ACS APPLIED MATERIALS & INTERFACES	12 (11)	12783-12792
3	<a href="https://pubs.acs.org/doi/10.1021/acsami.9b21074">https://pubs.acs.org/doi/10.1021/acsami.9b21074</a>	Boosting Photovoltaic Performance and Stability of Super-Halogen-Substituted Perovskite Solar Cells by Simultaneous Methylammonium Immobilization and Vacancy Compensation	Shendong Xu, Guozhen Liu, Haiying Zheng, Xiaoxiao Xu, Liying Zhang, Huifen Xu, Liangzheng Zhu, Fantai Kong, Yongtao Li, and Xu Pan	ACS APPLIED MATERIALS & INTERFACES	12 (7)	8249-8259
4	<a href="https://pubs.acs.org/doi/pdf/10.1021/acsomega.0c01183">https://pubs.acs.org/doi/pdf/10.1021/acsomega.0c01183</a>	Fast Thermal Response of Shape-Stabilized Thermal Storage Materials: The Case of Interconnected Netlike Graphene/Hexadecane/HDPE Composites	Li Xu, Jixiang Zhang, Cui Liu, Nian Li, Liqing Chen, Shudong Zhang, and Zhenyang Wang	ACS OMEGA	5 (21)	12415-12420
5	<a href="https://doi.org/10.1016/j.actbio.2019.11.031">https://doi.org/10.1016/j.actbio.2019.11.031</a>	Degradation behavior, cytotoxicity, hemolysis, and antibacterial properties of electro-deposited Zn-Cu metal foams as potential biodegradable bone implants	Xian tong; Zimu Shi*; Linchao Xu; Jixing Lin*; Dechuang Zhang; Kun Wang; Yuncang Li; Cuie Wen*;	Acta biomaterials	102	481-492
6	<a href="https://doi.org/10.1016/j.actbio.2020.02.017">https://doi.org/10.1016/j.actbio.2020.02.017</a>	A biodegradable Zn-1Cu-0.1Ti alloy with antibacterial properties for orthopedic applications	Jixing Lina, Xian Tong, Zimu Shi, Dechuang Zhang, Lishu Zhang, Kun Wang, Aiping Wei, Lufan Jin, Jianguo Lin, Yuncang Li, Cuie Wen,*	Acta biomaterials	106	410-427
7	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/adfm.202000034">https://onlinelibrary.wiley.com/doi/abs/10.1002/adfm.202000034</a>	Self-Additive Low Dimensional Ruddlesden-Popper Perovskite by the Incorporation of Glycine Hydrochloride for High-Performance and Stable Solar Cells	Haiying Zheng*, Weiwei Wu, Huifen Xu, Fangcai Zheng, Guozhen Liu, Xu Pan*, and Qianwang Chen	Advanced Functional Materials	30 (15)	2000034
8	<a href="https://pubs.acs.org/doi/pdf/10.1021/acsomega.0c01183">https://pubs.acs.org/doi/pdf/10.1021/acsomega.0c01183</a>	A Multi-responsive Fluorescent Probe Reveals Mitochondrial Nucleoprotein Dynamics with Reactive Oxygen Species Regulation through Super-resolution Imaging	Guanqing Yang, Zhengjie Liu, Kunong Zhang, Xiaohe Tian, Juan Chen, Guangmei Han, Bianhua Liu, Xinya Han, Yao Fu, Zhangjun Hu, Zhongping Zhang*	Angewandte Chemie International Edition	59 (37)	16154-16160
9	<a href="https://aip.scitation.org/doi/10.1063/5.0006617">https://aip.scitation.org/doi/10.1063/5.0006617</a>	Substrate dependent terahertz response of monolayer WS <sub>2</sub>	Hai Ming Dong, Ze Hua Tao, Long Long Li*, Fangwei Huang, Wen Xu*, and Francois M. Peeters	Applied Physics Letters	116 (20)	203108
10	<a href="https://doi.org/10.1002/celec.202000246">https://doi.org/10.1002/celec.202000246</a>	Dense Reduced Graphene Oxide Films Obtained by Pressing Create Stable and Compact Capacitive Energy Storage	Dou Lin, Zihui Tang, Qijun Pan, Shiping Zhang, Dexian Huo, Sisi Yan, Fangming Han*	ChemElectroChem	7(9)	1987-1991
11	<a href="https://www.sciencedirect.com/science/article/pii/S0013468620313840?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0013468620313840?via%3Dihub</a>	Engineering multi-shell Mn-Co oxide for ultrasensitive electroanalysis of Pb(II) in mining subsidence area water with promotion of adsorption and electron mediation: Behaviors and mechanisms of Mn(II)/Mn(III) and Co(II)/Co(III) cycles	Shan-Shan Li, Xing-Liang Cheng, Qian-Qian Xu, Wen-Yi Zhou*, Yongxing Zhang*, Meng Yang*	Electrochimica Acta	360	136991
12	<a href="https://www.sciencedirect.com/science/article/pii/S0013468620319988?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0013468620319988?via%3Dihub</a>	Ultrahigh sensitivity electroanalysis of trace As(III) in water and human serum via gold nanoparticles uniformly anchored to Co <sub>3</sub> O <sub>4</sub> porous microsheets	Chun-Yang Li, Yuan-Yuan Wei, Wei Shen, Xuan Dong, Meng Yang*, Juan Wei*	Electrochimica Acta	368	137605

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13	<a href="https://doi.org/10.1016/j.electacta.2020.135828">https://doi.org/10.1016/j.electacta.2020.135828</a>	Ni-Co coordination hollow spheres for high performance flexible all-solid-state supercapacitor.	Chen,Lingxue1;Ou,Dawei;Zhang, Guochi;Yan, Jian*;Liu, Jiaqin;Wang, Zhaoming;Wang, Yan;Cui, Jiewu;Zhang, Qi;Zhang, Yong;Hu, Xiaoye*;Wu, Yucheng.	Electrochimica Acta	337	135828
14	<a href="https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejic.202000122">https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejic.202000122</a>	Effect of Mie Scattering on Thermo-chromic Performance of Branched VO <sub>2</sub> Prepared by One-Step Hydrothermal Method	Xi Wang, Ming Li*, Qingsheng Wang, Jikui Zhang, Jiaming Shi, Yuan Lu*, and Guanghai Li*	European Journal of Inorganic Chemistry	2020	1783-1789
15	<a href="https://aip.scitation.org/doi/10.1063/5.0022669">https://aip.scitation.org/doi/10.1063/5.0022669</a>	Optical absorption window in Na <sub>3</sub> Bi based three-dimensional Dirac electronic system	QiNan Li, Wen Xu*, YiMing Xiao, Lan Ding, B. Van Duppen, and Francois m. Peeters	Journal of Applied Physics	128(15)	155707
16	<a href="https://www.sciencedirect.com/science/article/pii/S0021979719314523">https://www.sciencedirect.com/science/article/pii/S0021979719314523</a>	Nano-hybrids of needle-like MnO <sub>2</sub> on graphene oxide coupled with peroxy monosulfate for enhanced degradation of norfloxacin: A comparative study and probable degradation pathway	Yaonua Wu, Yunan Li, Junyong He, Xun Fang, Peidong Hong, Mingxing Nie, Wu Yang, Chao Xie, Zijian Wu, Kaisheng Zhang*, Lingtao Kong*, Jiahua Li*	Journal of Colloid and Interface Science	562	1-11
17	<a href="https://www.sciencedirect.com/science/article/pii/S0021979720307335">https://www.sciencedirect.com/science/article/pii/S0021979720307335</a>	Bio-inspired porous helical carbon fibers with ultrahigh specific surface area for super-efficient removal of sulfamethoxazole from water	Wei Wang, Abdul Saeed, Junyong He, Zhijun Wang, Deyi Zhan, Zixuan Li, Chengming Wang, Yufeng Sun, Feng Tao*, and Weihong Xu*	Journal of Colloid and Interface Science	578	304-314
18	<a href="https://linkinghub.elsevier.com/retrieve/pii/S030438941931934X">https://linkinghub.elsevier.com/retrieve/pii/S030438941931934X</a>	Micro-nano-engineered nitrogenous bone biochar developed with a ballmilling technique for high-efficiency removal of aquatic Cd(II), Cu(II) and Pb(II)	Jiang Xiao, Rui Hu*, Guangcai Chen*	Journal of Hazardous Materials	387	121980
19	<a href="https://www.sciencedirect.com/science/article/pii/S0304389420310566">https://www.sciencedirect.com/science/article/pii/S0304389420310566</a>	Facile synthesis of multifunctional bone biochar composites decorated with Fe/Mn oxide micro-nanoparticles: Physicochemical properties, heavy metals sorption behavior and mechanism	Xiao Jiang, Hu Rui, Guangcai Chen*, Baoshan Xing (第一、二作者姓和名写反了, 已向杂志社申请更正)	Journal of Hazardous Materials	399	123067
20	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/TC/D0TC03683H#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/TC/D0TC03683H#!divAbstract</a>	Layer-dependent SERS enhancement of TiS <sub>2</sub> prepared by simple electrochemical intercalation	Chaocang Weng, Yuanyuan Luo*, Bingfang Wang, Jianping Shi*, Lei Gao, Zhenyu Cao and Guotao Duan*	Journal of Materials Chemistry C	8 (40)	14138-14145
21	<a href="https://www.sciencedirect.com/science/article/pii/S100503022030298X">https://www.sciencedirect.com/science/article/pii/S100503022030298X</a>	Recent progresses on designing and manufacturing of bulk refractory alloys with high performances based on controlling interfaces	T. Zhang*, H.W. Deng, Z.M. Xie*, R. Liu, J.F. Yang, C.S. Liu, X.P. Wang, Q.F. Fang, Y. Xiong	Journal of Materials Science & Technology	52	29-62
22	<a href="https://doi.org/10.1016/j.jnucmat.2020.152461">https://doi.org/10.1016/j.jnucmat.2020.152461</a>	Strengthening mechanism of Nb addition in Fe-13Cr-4.5Al-2Mo alloys assessed by internal friction measurement	H. Wang, Y.X. Gao*, M. Sun, H.Y. Yang, G. Li, K. He, X.P. Wang, W.B. Jiang*, Q.F. Fang	Journal of Nuclear Materials	542	152461
23	<a href="https://www.sciencedirect.com/443.webvpn.las.ac.cn/science/article/pii/S02787752202002020">https://www.sciencedirect.com/443.webvpn.las.ac.cn/science/article/pii/S02787752202002020</a>	Polymer-induced lattice expansion leads to all-inorganic CsPbBr <sub>3</sub> perovskite solar cells with reduced trap density	Ren Yingke, Zhang Ning, Arain Zulqarnain, Mateen Muhammad, Chen Jing*, Sun Yingjie*, Li Zhaoqian*	Journal of Power Sources	475	228676
24	<a href="https://www.sciencedirect.com/science/article/pii/S0167577X20303736">https://www.sciencedirect.com/science/article/pii/S0167577X20303736</a>	Internal friction study on precipitation/dissolution of Mn-Ni-Si phase in aged RPV model steel	Yinxing Wu, Ting Hao*, Meng Sun, Weibin Jiang, Xianping Wang, Qianfeng Fang, Xiangbing Liu, Yuanfei Li, Fei Xue	Materials Letters	269	127668
25	<a href="https://pubs.rsc.org/en/content/articlehtml/2020/nj/d0nj0477d">https://pubs.rsc.org/en/content/articlehtml/2020/nj/d0nj0477d</a>	Design of a high performance electrode composed of porous nickel-cobalt layered double hydroxide nanosheets supported on vertical graphene fibers for flexible supercapacitors	Yanping Song, Jixiang Zhang*, Nian Li*, Shuai Han, Shihao Xu, Jun Yin, WanLi Qu, Cui Liu, Shudong Zhang and Zhenyang Wang*	New Journal of Chemistry	44(16)	6623-6634

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30	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/CP/C9CP05930J">https://pubs.rsc.org/en/content/articlelanding/2020/CP/C9CP05930J</a>	Improved SERS activity of non-stoichiometric copper sulfide nanostructures related to charge-transfer resonance†	Menglei Chen, Ke Li, Yuanyuan Luo*, Jianping Shi*, Chaocang Weng, Lei Gao and Guotao Duan*	Physical Chemistry Chemical Physics	22 (9)	5145-5153
31	<a href="https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.174511">https://journals.aps.org/prb/abstract/10.1103/PhysRevB.101.174511</a>	Properties and phase diagram of (H2S)2H2	Edward J. Pace, Xiao-Di Liu, Philip Dalladay-Simpson, Jack Binns, Miriam Peña-Alvarez, J. Paul Attfield, Ross T. Howie, and Eugene Gregoryanz	Physical Review B	101(17)	174511
32	<a href="https://www.sciencedirect.com/science/article/pii/S0079642519301021?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0079642519301021?via%3Dihub</a>	Nanoporous TiO2 spheres with tailored textural properties: Controllable synthesis, formation mechanism, and photochemical applications	Yong Ding, I, In Seok Yangb, Zhaoqian Li, Xin Xia, Wan In Lee*, Songyuan Dai, Detlef W. Bahnemann, Jia Hong Pan*	Progress in Materials Science	109	100620
33	<a href="https://emmesites.library.mcgill.ca/connect/content/asp/sam/2020/00000012/00000007/00000004">https://emmesites.library.mcgill.ca/connect/content/asp/sam/2020/00000012/00000007/00000004</a>	Synthesis of Fluorescent Carbon Quantum Dots from Tobacco Wastewater for the Detection of Ferric(III) Ions	Ju Tang, Jin Zhang*, Peiguang Shi, Yiming Xiao, Yanli Shi, Lan Ding, and Wen Xu*	Science of Advanced Materials	12 (7)	966-972
34	<a href="https://doi.org/10.1016/j.snb.2020.128355">https://doi.org/10.1016/j.snb.2020.128355</a>	Ruthenium-loaded cerium dioxide nanocomposites with rich oxygen vacancies promoted the highly sensitive electrochemical detection of Hg(II)	Yu-Feng Sun, Jing-Jing Li, Feng Xie, Yan Wei, Meng Yang*	Sensors and Actuators B- Chemical	320	128355
35	<a href="https://doi.org/10.1016/j.snb.2020.129008">https://doi.org/10.1016/j.snb.2020.129008</a>	Reliable electroanalysis of Hg(II) in water via flower-like porous MnCo2O4:Excellent multilayer adsorption and (Mn, Co)(II)/(Mn, Co)(III) cycles	Juan Xia, Qi Wang, Meng Yang*, Hai Wu*	Sensors and Actuators B- Chemical	326	129008
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37	<a href="https://doi.org/10.1002/solr.202000647">https://doi.org/10.1002/solr.202000647</a>	Hydrophobic 2D perovskite modified layer with polyfunctional groups for enhanced performance and highly moisture stability of perovskite solar cells	Huifen Xu, Guozhen Liu Xiaoxiao Xu, Shendong Xu, Liying Zhang, Xiaojing Chen, Haiying Zheng*, Xu Pan	Solar RRL	4 (12)	2000647