

## Publications of BSRF in 2019

No.	Title	Journal, Year, Volume, Pages	Authors
1	A Series of MAX Phases with MA-Triangular-Prism Bilayers and Elastic Properties	Angewandte Chemie International Edition. 2019, 131, 4624-4628	Hongxiang Chen, Xiaolong Chen
2	High - Pressure Band - Gap Engineering and Metallization in the Perovskite Derivative Cs <sub>3</sub> Sb <sub>2</sub> I <sub>9</sub>	ChemSusChem. 2019, 12, 3971-3976	Lianwei Wu, Kai Wang, Bo Zou
3	Negative area compressibility of a hydrogenbonded two-dimensional material	Chemical Science. 2019, 10, 1309	Guoqiang Feng, Wei Li, Weizhao Cai, Peixiang Lu
4	Pressure-Driven Reversible Switching between n- and p-Type Conduction in Chalcopyrite CuFeS <sub>2</sub>	Journal of the American Chemical Society. 2019, 141, 505-510	Ting Wen, Wenge Yang, Yusheng Zhao
5	Pressure - Induced Broadband Emission of 2D Organic - Inorganic Hybrid Perovskite (C <sub>6</sub> H <sub>5</sub> C <sub>2</sub> H <sub>4</sub> NH <sub>3</sub> ) <sub>2</sub> PbBr <sub>4</sub>	Advanced Science. 2019, 6, 1801628	Long Zhang, Kai Wang, Bo Zou
6	Pressure-Induced Emission (PIE) of One-Dimensional Organic Tin Bromide Perovskites	Journal of the American Chemical Society. 2019, 141, 6504-6508	Yue Shi, Guanjun Xiao, Bo Zou
7	Structural stability and optical properties of two-dimensional perovskite-like CsPb <sub>2</sub> Br <sub>5</sub> microplates in response to pressure	Nanoscale. 2019, 11, 820	Zhiwei Ma, Guanjun Xiao
8	Tuning Optical and Electronic Properties in Low-Toxicity Organic - Inorganic Hybrid (CH <sub>3</sub> NH <sub>3</sub> ) <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> under High Pressure	Journal of Physical Chemistry Letters. 2019, 10, 8, 1676-1683	Long Zhang, Kai Wang, Wendy L. Mao, Bo Zou
9	Electronic structures and elastic properties of a family of metal-free perovskites	Materials Chemistry Frontiers. 2019, 3, 1678-1685	Kai Li, Wei Li, Xian-He Bu
10	Complete ligand reinforcing the structure of cubic-CrN	Journal of Alloys and Compounds. 2019, 783, 232-236	Xiaokang Feng, Kuo Bao, Tian Cui
11	Compression Behavior of Copper Hydroxyfluoride CuOHF as a Case Study of the High-Pressure Responses of the Hydrogen-Bonded Two-Dimensional Layered Materials	Journal of Physical Chemistry C. 2019, 123, 25492-25500	Hui Tian, Jian Zhang, Yanmei Ma

12	Disorder - order structural transition of single crystal hydrogen chloride under high pressure - temperature	Physical Chemistry Chemical Physics. 2019, 21, 17655-17661	Mengya Lu, Xiaoli Huang, Tian Cui
13	Formation, reverse transformation, and properties of $\epsilon$ -martensite phase in the CoCrFeMnNi high-entropy alloy under high-pressure	Journal of Alloys and Compounds. 2019, 779, 1-6	Pengfei Yu, Gong Li, Riping Liu
14	High - pressure Raman spectroscopy of CeOCl: Observation	J raman spectroscopy. 2019, 36, 046103	Leilei Zhang, Li Lei
15	High - pressure - induced phase transition in 1,3 - diphenylurea: The approaching of N - H ... O hydrogen - bonded chains	J raman spectroscopy. 2019, 50, 1744 - 1752.	Yuxiang Dai , Yang Qi
16	In-Situ Observation of the Formation of Fibrous Sulfur under High Pressure	Journal of Physical Chemistry C. 2019, 123, 14696-14700	Kaiyuan Shi, Lei Su, Guoqiang Yang, Zhisheng Zhao
17	Observation of superconductivity in the pressurized Weyl-semimetal candidate TaIrTe <sub>4</sub>	Physical Review B. 2019, 99, 020503	Shu Cai, Liling Sun
18	Polyhydride CeH <sub>9</sub> with an atomic-like hydrogen clathrate structure	Nature Communications. 2019, 10, 3461	Xin Li, Xiaoli Huang, Tian Cui
19	Pressure induced transformation and subsequent amorphization of monoclinic Nb <sub>2</sub> O <sub>5</sub> and its effect on optical properties	Journal of Physics: Condensed Matter. 2019, 31, 105401	Zhou Guan, Quanjun Li, Bingbing Liu
20	Pressure tuning of octahedral tilt in the ordered double perovskite Pb <sub>2</sub> CoTeO <sub>6</sub>	Journal of Alloys and Compounds. 2019, 801, 310-317	LeiLiu, Peter Lazor
21	Pressure-Induced Emission Enhancement and Piezochromism of Triphenylethylene	Journal of Physical Chemistry C. 2019, 123, 6763-6767	Nan Li, Lina Jiang, XiaoKai Wang
22	Pressure-Induced Emission Enhancements and Ripening of Zinc Blende Cadmium Selenide Nanocrystals	Journal of Physical Chemistry C. 2019, 123, 15339-15344	Pengfei Lv, Guanjun Xiao
23	Pressure-Induced Phase Transition and Band Gap Engineering in Propylammonium Lead Bromide Perovskite	Journal of Physical Chemistry C. 2019, 123, 15204-15208	Xiangting Ren, Xiaozhi Yan, Lin Wang, Shanmin Wang
24	Pressure-induced phase transitions and structural evolution across the insulator - metal transition in bulk and nanoscale BiFeO <sub>3</sub>	Journal of Physics: Condensed Matter. 2019, 31, 265404	Zhiying Guo, Dongliang Chen

25	Pressure-induced polymorphism and piezochromism in $Mn_2FeSbO_6$	Applied Physics Letters. 2019, 114, 162903	Lei Liu, Peter Lazor
26	Pressure-Induced Reversible Phase Transitions in a New Metastable Phase of Vanadium Dioxide	Journal of Physical Chemistry C. 2019, 123, 955-962	Huafang Zhang, Quanjun Li, Bingbing Liu
27	Pressure-Induced Structural Phase Transformation and Yield Strength of AlN	Journal of Physical Chemistry C. 2019, 123, 46, 28437-28442	Hong Yu, Fang Peng
28	Pressure-induced structural phase transition and vacancy filling in titanium monoxide TiO up to 50 Gpa	Applied Physics Letters. 2019, 115, 101902	Junfeng Ding, Junfeng Ding, Chuanguo Zhang
29	Quantitative phase analysis on Cs- and Rb-doped FAPbI <sub>3</sub> and corresponding solar cell efficiency simulations	Solar Energy. 2019, 188, 224-229	Lili Zhang, Xiaodong Li, Guogang Qin
30	Revealing the Unusual Rigid Boron Chain Substructure in Hard and Superconductive Tantalum Monoboride	Chemistry-A European Journal. 2019, 25, 5051-5057	Shuailing Ma, Kuo Bao, Tian Cui
31	Structural and Physical Properties of ZrSi <sub>2</sub> under High Pressure: Experimental Study and First-Principles Calculations	Inorganic Chemistry. 2019, 58, 405-410	Haihua Chen, Fang Peng, Liping Wang
32	Structural changes in hexagonal WO <sub>3</sub> under high pressure	Journal of Alloys and Compounds. 2019, 797, 1013-1017	Yu Gong
33	Study of the compression behavior and elastic properties of HfB <sub>2</sub> ceramics using experimental method and first-principles calculations ceramics using experimental method and first-principles calculations	Journal of Alloys and Compounds. 2019, 808, 151764	Hao Liang, Haihua Chen, Fang Peng
34	Tuning Pressure-Induced Phase Transitions, Amorphization, and Excitonic Emissions of 2D Hybrid Perovskites via Varying Organic Amine Cations	Journal of Physical Chemistry C. 2019, 123, 22491-22498	Yan Qin, Wei Li, Xiang Wu, Lei Ye, Neng Li
35	Effect of high pressure on the typical 2D hydrogen-bonded crystal azodicarbonamide	Journal of Physics and Chemistry of Solids. 2019, 135, 109096	Shourui Li, Qiming Wang
36	Elastic and hydrostatic behaviour of a zinc dietary supplement, zinc glycinate hydrate	RSC Advance. 2019, 9, 13153	Muhammad Azeem, Wei Li

37	Equation of state of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ at high pressure	Solid State Communications. 2019, 299, 113656	Lun Xiong
38	High pressure X-ray nano-tomography and fractal microstructures in the Ce $\gamma$ - $\alpha$ transition	Journal of Applied Physics. 2019, 125, 135902	Qiyue Hou, Kai Zhang
39	Phase transitions and chemical reactions of octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine under high pressure and high temperature	RSC Advance. 2019, 9, 5825-5833	Dexiang Gao, Yajie Wang, Haiyan Zheng
40	Pressure-induced phase transition of $\text{La}_2\text{Zr}_2\text{O}_7$ and $\text{La}_{0.5}\text{Gd}_{1.5}\text{Zr}_2\text{O}_7$ pyrochlore	RSC Advance. 2019, 9, 18954	Jingjing Niu
41	The Dolomite-Fe Interaction at High Pressure and High Temperature: Implications for Carbonate Subduction in the Transition Zone	ACTA GEOLOGICA SINICA English Edition. 2019, 93, 232 - 233	ZHAI Tianlei, QIN Shan
42	The effect of high pressure on the structure and stability of sodium formate Probed by in situ synchrotron X-ray diffraction technique	Solid State Communications. 2019, 289, 67-70	Lei Kang, Shourui Li, Bo Wang
43	Equation of state of $\text{LiCoO}_2$ under 30 GPa pressure	Chinese Physics B. 2019, 28(1), 016402	Yong-Qing Hu, Lun Xiong
44	High-Pressure Behavior of Nano-Pt in Hydrogen Environment	Chinese Physics Letters. 2019, 36(10), 106101	Can Tian, Xiaoli Huang
45	High-Pressure Phase Transitions of Cubic $\text{Y}_{22}\text{O}_{33}$ under High Pressures by In-situ Synchrotron X-Ray Diffraction	Chinese Physics Letters. 2019, 36(4), 046103	Sheng Jiang
46	High-pressure-induced phase transition in cinchomeric acid polycrystalline form-I	Chinese Physics B. 2019, 28(1), 016104	Ting-Ting Yan
47	Isostructural phase transition-induced bulk modulus multiplication in dopant-stabilized $\text{ZrO}_2$ solid solution	Chinese Physics B. 2019, 28(7), 076109	Min Wang, Yong-Hao Han
48	Lattice distortion-induced sluggish phase transition in $\text{CoCrFeNi}_x\text{Al}_{1-x}$ ( $x = 0.5, 0.75$ ) high-entropy alloys at high pressures	High Pressure Research. 2019, 39,533-546	Lei Liu, Lei Liu
49	Phase transition and thermoelastic behavior of barite-group minerals at high-pressure and high-temperature conditions	Physics and Chemistry of Minerals. 2019, 46, 607-621	Zhilin Ye, Wenge Zhou, Maining Ma
50	Phase transitions in bismuth under rapid compression	Chinese Physics B. 2019, 28(3), 036201	Dong-Liang Yang, Jing Liu

51	Pressure-induced isostructural phase transition in $\alpha$ -Ni(OH) <sub>2</sub> nanowires	Chinese Physics B. 2019, 28(6), 066402	Xin Ma, Quan-Jun Li, Zhen Yao
52	Pressure-induced order - disorder transition in Gd <sub>1.5</sub> Ce <sub>0.5</sub> Ti <sub>2</sub> O <sub>7</sub> pyrochlore	Royal Society Open Science. 2019, 6, 190842	Jingjing Niu,
53	Reexploration of Structural Changes in Element Bromine through Pressure-Induced Decomposition of Solid HBr	Chinese Physics Letters. 2019, 36(8), 086401	Ming-Kun Liu, Xiao-Li Huang, Tian Cui
54	Semiconductor-metal transition in GaAs nanowires under high pressure	Chinese Physics B. 2019, 28(7), 076401	Yi-Lan Liang, Zhen Yao, Peng Wang, Dong Pan
55	葡萄石的热膨胀性与压缩性及其地质意义	岩石学报 (ACTA PETROLOGICA SINICA). 2019, 35, 146-152	秦善
56	Pressure-temperature phase diagram and thermoelastic behavior of manganese fluoride up to 13.1 GPa and 700 K	Materials Research Express. 2019, 6, 116115	Zhilin Ye, Dawei Fan
57	LiFePO <sub>4</sub> 的高压结构研究	四川文理学院学报. 2019, 29(2), 36-41	熊伦
58	Abnormal physical behaviors of hafnium diboride under high pressure	Applied Physics Letters. 2019, 115, 231903	Hao Liang, Fang Peng, Cheng Lu
59	The Interface and Mechanical Properties of a CVD Single Crystal Diamond Produced by Multilayered Nitrogen Doping Epitaxial Growth	Materials. 12, 2492	Yun Zhao, Chengming Li
60	Effect of disordered structure and crystal defects on heat transfer behavior in Er:Yb: YCa <sub>4</sub> O(BO <sub>3</sub> ) <sub>3</sub> crystal	Journal of Physics and Chemistry of Solids . 124, 121	Degao Zhong, Bing Teng
61	Revealing the Early Forming Behaviors of a Carbon-Fiber-Reinforced Aluminum Foam through Synchrotron X-ray	Metals. 9(1), 18	Xi Sun, Guoyin Zu
62	The speciation and distribution characteristics of Cu in Phragmites australis (Cav.) Trin ex. Steudel	Plant Biology. 21, 873	J.Wu, F.Ma
63	Nuclear magnetic resonance simulations of nano-scale cores and microscopic mechanisms of oil shale	Fuel. 256, 115843	Tan Maojin, Tan Maojin
64	A promising CoFeNi <sub>2</sub> V <sub>0.5</sub> Mo <sub>0.2</sub> high entropy alloy with exceptional ductility	Scripta Materialia. 165, 128	L.Liang, Chenyang Lu
65	In-situ observations of dendritic fragmentation during directional solidification of Sn-10wt.% Bi alloy	China Foundry. 2019, 4, 16, 262	Ji-Hui Luo

66	In situ depth-resolved synchrotron radiation X-ray spectroscopy study of radiation-induced Au deposition	J. Synchrotron Rad.. 16, 1940	G. Chen, Jing Zhang
67	Earliest use of birch bark tar in Northwest China: evidence from organic residues in prehistoric pottery at the Changning site	Vegetation History and Archaeobotany. 28,199	Huiyun Rao, Yimin Yang
68	3D Residual Strain in DKDP Crystals by Neutron Diffraction	Cryst. Res. Technol. . 54,1900022	Fafu Liu, Xun Sun
69	Preparation of double-emulsion-templated microspheres with controllable porous structures by premix membrane emulsification	Particuology. 2019, 44,22	Xiangming Na, Guanghui Ma
70	田螺山遗址灵芝遗存的三维重构及鉴定	文物保护和考古科学. 31,46	訾威
71	X 射线分层析成像技术及在航空航天领域的应用	航空制造技术, 14. 62(14),49	傅健
72	Translocation, biotransformation-related degradation, and toxicity assessment of polyvinylpyrrolidone-modified 2H-phase nano-MoS <sub>2</sub>	Nanoscale. 11, 4767	Linqiang Mei, Wenyan Yin
73	Review on failure behaviors of fusion welded high-strength Al alloys due to fine equiaxed zone	Engineering Fracture Mechanics. 208,45	Y.N. Hu, S.C.Wu
74	High-Voltage Charging-Induced Strain, Heterogeneity, and Micro-Cracks in Secondary Particles of a Nickel-Rich Layered Cathode Material	Adv. Funct. Mater. 2019,1900247	Yuwei Mao, Yijin Liu
75	Quantification of Heterogeneous Degradation in Li-Ion Batteries	Adv. Energy Mater.. 2019,1900674	Yang Yang, Rong Xu, Kai Zhang, Yijin Liu
76	Conceptual Design of TXM Beamline at High Energy Photon Source	AIP Conf. Proc.. 2054,050002	Qingxi Yuan,
77	同步辐射纳米成像技术的发展与应用	物理. 48(4),205	袁清习, 袁清习
78	基于同步辐射装置定量表征的煤孔隙结构非均质性和各向异性	石油勘探与开发. 46(6), 1	孙英峰, 赵毅鑫
79	Electroless nickel plating and spontaneous infiltration behavior of woven carbon fibers	Materials & Design. 2019 , 108301	Junjia Zhang,
80	Bi-Based Z-Scheme Nanomaterials for the Photocatalytic Degradation of Organic Dyes	ACS Appl. Nano Mater. 2,6418	Yan Cheng, Yaling Wang
81	同步辐射技术应用于小鼠肾脏的成像与病理对照	中国医学计算机成像杂志. 25, 156	刘安娜, 彭屹锋

82	A Ferrite Synaptic Transistor with Topotactic Transformation	Adv. Mater. . 2019, 31, 1900379	Chen Ge, Kui-juan Jin
83	Densely Populated Isolated Single Co N Site for Efficient Oxygen Electrocatalysis	Adv. Energy Mater. . 2019, 9, 1900149	Jiabin Wu, Liang Huang
84	Enhanced stretchable graphene-based triboelectric nanogenerator via control of surface nanostructure	Nano Energy. 2019, 58, 304	Huamin Chen, Yun Xu
85	Superficial Hydroxyl and Amino Groups Synergistically Active Polymeric Carbon Nitride for CO <sub>2</sub> Electroreduction	ACS Catalysis. 2019, 9, 10983–10989	Nannan Meng, Bin Zhang
86	Electrolyte - Gated Synaptic Transistor with Oxygen Ions	Advanced Functional Materials. 2019, 29, 1902702	He - Yi Huang , Kui - Juan Jin
87	Boosting the Electrical Double - Layer Capacitance of Graphene by Self - Doped Defects through Ball - Milling	Adv. Funct. Mater. . 2019, 29, 1901127	Yue Dong, Huaihe Song
88	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications	Adv. Funct. Mater. . 2019, 29, 1901236	Bin Quan, Guangbin Ji
89	One-pot synthesis of porous 1T-phase MoS <sub>2</sub> integrated with single-atom Cu doping for enhancing electrocatalytic hydrogen evolution reaction	Applied Catalysis B: Environmental. 2019, 251, 87	Liang Ji, Qun Xu
90	Overcoming synthetic metastabilities and revealing metal-to-insulator transition & thermistor bifunctionalities for d-band correlation perovskite nickelates	Mater. Horiz.. 2019, 6, 788	Jikun Chen
91	Electric Field - Controlled Multistep Proton Evolution in HxSrCoO <sub>2.5</sub> with Formation of H - H Dimer	Adv. Sci.. 2019, 6, 1901432	Hao-Bo Li, Pu Yu
92	Evidence of Topological Edge States in Buckled Antimonene Monolayers	Nano Lett.. 2019, 19(9), 6323	Shi-Yu Zhu, Ye-Liang Wang
93	Construction of a sp <sup>3</sup> /sp <sup>2</sup> Carbon Interface in 3D N - Doped Nanocarbons for the Oxygen Reduction Reaction	Angew. Chem. . 2019, 131, 15233	Jian Gao, Ding Ma
94	Voltage-Controlled Oxygen Non-Stoichiometry in SrCoO <sub>3-δ</sub> Thin Films	Chem. Mater. . 2019, 31(16), 6117	Songbai Hu, Songbai Hu
95	A d-Band Electron Correlated Thermoelectric Thermistor Established in Metastable Perovskite Family of Rare-Earth Nickelates	ACS Appl. Mater. Interfaces . 2019, 11(37), 34128	Jikun Chen
96	Pseudocapacitive Na <sup>+</sup> Insertion in Ti - O - C Channels of TiO <sub>2</sub> - C Nanofibers with High Rate and Ultrastable Performance	ACS Appl. Mater. Interfaces . 2019, 11(19), 17416	Wei Song, Hanqing Zhao

97	Polyethylene waste carbons with a mesoporous network towards highly efficient supercapacitors	Chemical Engineering Journal. 2019, 366, 313	Yimeng Lian, Wen Yang
98	Realization of Strained Stanene by Interface Engineering	J. Phys. Chem. Lett.. 2019, 10(7), 1558	Yani Liu, Yi Du
99	Enhanced electronic conductivity and sodium-ion adsorption in N/S co-doped ordered mesoporous carbon for high-performance sodium-ion battery anode	Journal of Power Sources. 2019, 412, 606	Jianqi Ye, Hanqing Zhao
100	Delta-temperatural electronic transportation achieved in metastable perovskite rare-earth nickelate thin films	J. Mater. Chem. C. 2019, 7, 8101	Jikun Chen,
101	Amorphous MoO <sub>3-x</sub> nanosheets prepared by the reduction of crystalline MoO <sub>3</sub> by Mo metal for LSPR and photothermal conversion	Chem. Commun.. 2019, 55, 12527	Cang Guo, Qun Xu
102	SnO <sub>2</sub> /Mg combination electron selective transport layer for Si heterojunction solar cells	Solar Energy Materials and Solar Cells. 2019, 200, 109996	Ming Liu, Yurong Zhou
103	Revealing the role of lattice distortions in the hydrogen-induced metal-insulator transition of SmNiO <sub>3</sub>	Nature Communications . 2019, 10, 694	Jikun Chen, Jikun Chen
104	Unconventional CN vacancies suppress iron-leaching in Prussian blue analogue pre-catalyst for boosted oxygen evolution catalysis	Nature Communications . 2019, 10, 2799	Zi-You Yu, Shu-Hong Yu
105	Spin - lattice correlation in Eu <sup>3+</sup> doped antiferromagnet TmFeO <sub>3</sub>	Phys. Chem. Chem. Phys.. 2019, 21, 19181	Poorva Sharma , Shixun Cao
106	Proposal for a photoelectron spectroscopy and microscopy beamline (0.5 - 11 keV) at the High Energy Photon Source	J. Synchrotron Rad. . 2019, 26, 559	K. Tang, Y. D. Zhao
107	Research on the defect types transformation induced by growth temperature of vertical graphene nanosheets	Journal of Alloys and Compounds. 2019, 781, 1048	Sixu Zhu, Dongyun Wan
108	Electronic structure evolutions driven by oxygen vacancy in SrCoO <sub>3-x</sub> films	Science China Materials. 2019, 62(8), 1162	Jiali Zhao, Kurash Ibrahim
109	The cation effect on adsorption of surfactant in the froth flotation of low-grade diasporic bauxite	Minerals Engineering. 2019, 144, 106051	Chaojun Fang, Jun Wang
110	Low-Temperature Benzene Abatement over Active Manganese Oxides with Abundant Catalytic Sites	Ind. Eng. Chem. Res.. 2019, 58(37), 17601	Ke Xie, Yaxin Chen
111	Resistance Switching Behavior in Rectangle-Nano-Pattern SrTiO <sub>3</sub> Induced by Simple Annealing	Materials . 2019, 12(22), 3698	Xiaxia Liao , Huiqiong Wang
112	Synthesis of NiO Nanotubes via a Dynamic Thermal Oxidation Process	Materials . 2019, 12(5), 805	Wenfeng Xiang, Haizhong Guo

113	The photoemission study of InSb/HfO <sub>2</sub> stacks upon N <sub>2</sub> rapid thermal annealing	Vacuum. 2019, 168, 108815	Yong Sun, Hong Dong
114	Analyze chemisorbed organic/metal interface by combining the two sub-interfaces model and the integer charge transfer model	AIP Advances . 2019, 9, 045122	Ying-Ying Du, Hong-Nian Li
115	Oxygen vacancy induced electronic structure variation in the La <sub>0.2</sub> Sr <sub>0.8</sub> MnO <sub>3</sub> thin film	AIP Advances . 2019, 9, 055208	Jiali Zhao, Kurash Ibrahim
116	A Soft X-ray Fluorescence Absorption Spectrometer	Acta Photonica Sinica. 2019, 48(6), 0604001	LI Shun, QIAN Hai-jie
117	Interaction between the Non-Fullerene Acceptor ITIC and Potassium	ACS Omega . 2019, 4(5), 8087	Guang-Hua Chen, Hong-Nian Li
118	Magnetoresistance in Metallic Ferroelectrics	ACS Appl. Electron. Mater.. 2019, 1(7), 1225	Jiesu Wang, Kuijuan Jin
119	Interfacial Effect Enhanced Electric Field Control of the Magnetism in Pt/Fe/PMN-PT Heterostructures	ACS Appl. Electron. Mater. . 2019, 1(6), 1012	Xin Pang, Haili Bai
120	Variation of a major facilitator superfamily gene contributes to differential cadmium accumulation between rice subspecies	Nature Communications. (2019) 10:2562	Huili Yan, Zhenyan He
121	Influence of Surface Charge on the Phytotoxicity, Transformation, and Translocation of CeO <sub>2</sub> Nanoparticles in Cucumber Plants	ACS Applied Materials & Interfaces. 11, 16905–16913	Mengyao Liu, Zhiyong Zhang
122	Potential use of the <i>Pteris vittata</i> arsenic hyperaccumulation-regulation network for phytoremediation	Journal of Hazardous Materials . 368 (2019) 386 – 396	Huili Yan, Zhenyan He
123	Accumulation and spatial distribution of copper and nutrients in willow as affected by soil flooding: A synchrotron-based X-ray fluorescence study	Environmental Pollution. 246 (2019) 980e989	Yini Cao , Chuanxin Ma
124	Assessment of heavy metals pollution of soybean grains in North Anhui of China	Science of the Total Environment . 646 (2019) 914 – 922	Tian Zhang , Zhenyan He
125	Nanoelemental selenium alleviated the mercury load and promoted the formation of high-molecular-weight mercury- and selenium-containing proteins in serum samples from methylmercury-poisoned rats	Ecotoxicology and Environmental Safety. 169 (2019) 128 – 133	Yunyun Li, Yu-Feng Li
126	Selenium decreases methylmercury and increases nutritional elements in rice growing in mercury-contaminated farmland	Ecotoxicology and Environmental Safety. 182 (2019) 109447	Yunyun Li, Yu-Feng Li
127	Sorption of lead in soil amended with coconut fiber biochar: Geochemical and spectroscopic investigations	Geoderma . 350 (2019) 52 – 60	Jianhong Li, Hailong Wang

128	Critical concentration of available soil phosphorus for grain yield and zinc nutrition of winter wheat in a zinc-deficient calcareous soil	Plant And Soil. pp 1 - 16	Xiaoli Hui,
129	Elemental analysis and imaging of sunscreen fingermarks by X-ray fluorescence	Analytical and Bioanalytical Chemistry. 411:4151 - 4157	Ling-Na Zheng, Yu-Liang Zhao
130	New insights into analytical science in China	Analytical and Bioanalytical Chemistry. 411:3991 - 3992	Hua Cui,
131	Botanic Metallomics of Mercury and Selenium: Current Understanding of Mercury-Selenium Antagonism in Plant with the Traditional and Advanced Technology	Bulletin of Environmental Contamination and Toxicology . (2019) 102:628 - 634	Xu Bai, Jiating Zhao
132	枫香幼苗对铅胁迫的生理生化响应与元素分布	林业科学研究. 32 期:4 页:88-95	施翔, 孙海菁
133	Analysis of nickel distribution by synchrotron radiation X-ray fluorescence in nickel-induced early- and late-phase allergic contact dermatitis in Hartley guinea pigs	Chinese Medical Journal. 132(16)	Shan-Qun Jiang, Jin-Lyu Sun
134	An All-Inorganic Colloidal Nanocrystal Flexible Polarizer	Angewandte Chemie International Edition. 58,8730-8735	张思敏, 王训
135	Highly flexible and stretchable nanowire superlattice fibers achieved by spring-like structure of sub-1 nm nanowires	Advanced Functional Materials. 291903477	张思敏, 王训
136	Superficial-layer-enhanced raman scattering (SLERS) for depth detection of noncontact molecules	Advanced Materials. 31, 1804275	Xuezhi Qiao, 王铁
137	Unraveling the Self-Assembly of Heterocluster Janus Dumbbells into Hybrid Cubosomes with Internal Double-Diamond Structure	Journal of the American Chemistry Society. 2019, 141, 831-839	Hong-Kai Liu , 王维
138	Aging of low-temperature derived highly flexible nanostructured TiO <sub>2</sub> /P <sub>3</sub> HT hybrid films during bending	Journal of Materials Chemistry A. 7, 10805-10814	Weijia Wang, Peter Müller-Buschbaum
139	Can the Morphology of Biconcave Metal Sulfide Nanoplatelets be Preserved during Cation Exchange?	Chemistry of materials. 31:5706	Yang Liu, Yang Liu
140	Symmetry-guided, divergent assembly of regioisomeric molecular Janus particles	Chemical Communications. 55(45): 6425-6428	Di Han, 张文彬
141	Effect of amyloglucosidase hydrolysis on the multi-scales supra molecular structure of cornstarch	Carbohydrate Polymers. 212, pp.40-50	Zhi Yang, Zhi Yang
142	Supramolecular structure of high hydrostatic pressure treated quinoa and maize starches	Food Hydrocolloids. 92, pp.276-284	Guantian Li, Fan Zhu

143	A Supramolecular Strategy toward an Efficient and Selective Capture of Platinum(II) Complexes	J. Am. Chem. Soc. 141: 11204	Chen Zhen, Wing-Wah Yam
144	Temperature-controlled formation of inverse mesophases assembled from a rod - coil block copolymer	Polymer Chemistry. 10, 6031-6036	范星河
145	Hierarchical nanostructures of a liquid crystalline block copolymer with a hydrogen-bonded calamitic mesogen	Polymer. 182:121835	Hongbing Pan,, 范星河
146	Hierarchically ordered nanostructures of a supramolecular rod-coil block copolymer with a hydrogen-bonded discotic mesogen	Polymer Chemistry. 10(8) : 991-999	Hongbing Pan, 范星河
147	Janus particles with tunable shapes prepared by asymmetric bottlebrush block copolymers	Polymer Chemistry. 10(3): 372-378	Qian Wang , 范星河
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