北京同步辐射装置 2019 年度用户科技论文汇总目录

序号	文章题目	期刊，年份，卷（期），页码	作者
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 $Cs_3Sb_2I_9$	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 $CuFeS_2$	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 $(C_6H_5C_2H_4NH_3)_2PbBr_4$	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 $CsPb_2Br_5$ 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 $(CH_3NH_3)_3Bi_2I_9$ 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 ε -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 $TaIrTe_4$	Physical Review B. 2019, 99, 020503	Shu Cai, Liling Sun
18	Polyhydride CeH_9 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_2O_5 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_2CoTeO_6	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 $BiFeO_3$	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 $FAPbI_3$ 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 $ZrSi_2$ 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_3 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_2 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 $LiNi_{0.8}Co_{0.1}Mn_{0.1}O_2$ at high pressure	Solid State Communications. 2019, 299, 113656	Lun Xiong
38	High pressure X-ray nano-tomography and fractal microstructures in the Ce γ - α 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 $La_2Zr_2O_7$ and $La_{0.5}Gd_{1.5}Zr_2O_7$ 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 $LiCoO_2$ 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, Xiao-li Huang
45	High-Pressure Phase Transitions of Cubic $Y_{22}O_{33}$ 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 cinchomeronic 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 ZrO_2 solid solution	Chinese Physics B. 2019, 28(7), 076109	Min Wang, Yong-Hao Han
48	Lattice distortion-induced sluggish phase transition in $CoCrFeNi_xAl_{1-x}$ (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 α -$Ni(OH)_2$ nanowires	Chinese Physics B. 2019, 28(6), 066402	Xin Ma, Quan-Jun Li, Zhen Yao
52	Pressure-induced order – disorder transition in $Gd_{1.5}Ce_{0.5}Ti_2O_7$ 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	$LiFePO_4$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: $YCa_4O(BO_3)_3$ 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 $CoFeNi_2V_{0.5}Mo_{0.2}$ 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_2	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_2 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_2 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 bi-functionalities for d-band correlation perovskite nickelates	Mater. Horiz.. 2019, 6, 788	Jikun Chen
91	Electric Field‐Controlled Multistep Proton Evolution in $HxSrCoO_{2.5}$ 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 sp3/sp2 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 $SrCoO3-\delta$ 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+ Insertion in Ti‐O‐C Channels of TiO_2‐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_3-x nanosheets prepared by the reduction of crystalline MoO3 by Mo metal for LSPR and photothermal conversion	Chem. Commun.. 2019, 55, 12527	Cang Guo, Qun Xu
102	SnO_2/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 $SmNiO_3$	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 Eu3+ doped antiferromagnet $TmFeO_3$	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 $SrCoO_{3-x}$ 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 $SrTiO_3$ 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_2 stacks upon N2 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 $La_{0.2}Sr_{0.8}MnO_3$ 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_2 Nanoparticles in Cucumber Plants	ACS Applied Materials & Interfaces. 11, 16905−16913	Mengyao Liu, Zhiyong Zhang
122	Potential use of the Pteris vittata 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_2/P_3HT hybrid films during bending	Journal of Materials Chemistry A. 7, 10805-10814	Weijia Wang, Peter M ü ller-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 regio-isomeric molecular Janus particles	Chemical Communications. 55(45)：6425-6428	Di Han, 张文彬
141	Effect of amyloglucosidase hydrolysison the multi-scales upra 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
148	Thermal annealing induced formation of polymeric nanopillars of asymmetric bottlebrush block copolymers	Polymer. 121983	王倩, 范星河
149	5nm Ordered Structures Self-Assembled by C 2 – Symmetric Hybrids with Polyhedral Oligomeric Silsesquioxane and Hexa-peri-Hexabenzocoronene	ChemPhysChem. 20：1759–1764	Wei Zhang, 范星河
150	Nanometer-scale phase separation in $Al_{60}Ge_{30}Mn_{10}$ amorphous alloy	Journal of Alloys and Compounds. 802:166-172	Y. Tang, J.Z. Jiang
151	The structure transformation of pre‐oriented polylactic acid film during uniaxial stretching at room temperature	Polymer Crystallization. 2(3):e10072	Ruijie Xu
152	Microstructure evolution of in-situ nanoparticles and its comprehensive effect on high strength steel	Journal of Materials Science & Technology. 35(9):1940-1950	Rongjian Shi, Xiaolu Pan
153	Self-Assembled Micelles Based on OSA-Modified Starches for Enhancing Solubility of β‐Carotene: Effect of Starch Macromolecular Architecture	Journal of Agricultural and Food Chemistry. 67(23): pp. 6614-6624	Quanquan Lin , Rong Liang
154	Pore structure characterization of shales using synchrotron SAXS and NMR cryoporometry	Marine and Petroleum Geology. 102: 116-125	Yixin Zhao
155	Effect of Imidazolium-Based Ionic Liquids on the Structure and Phase Behavior ofPalmitoyl-oleoyl-phosphatidylethanolamine	The journal of physical chemistry. B. 123, 26:5474-5482	Hao-Yue Guo, Zhi-Wu Yu
156	Microstructure evolution effect on high-temperature thermal conductivity of LDPE/BNNS investigated by in-situ SAXS	Materials Letters. 234, pp.74-78	Jialong Li , Jinghua Yin, Xiaoxu Liu
157	Role of interface between BNNS and LDPE in excellent electrical, thermal and mechanical properties of LDPE/BNNS composites	Journal of Materials Science: Materials in Electronics. 30(2), pp.1531-1540	Jialong Li , Jinghua Yin, Xiaoxu Liu

158	Selenium-doped hierarchically porous carbon nanosheets as an efficient metal-free electrocatalyst for CO_2 reduction	Advanced Functional Material. 29, 1906194	张丙兴，张建玲
159	Interplay between Stereocomplexation and Microphase Separation in PS-b-PLLA-b-PDLA Triblock Copolymers	Macromolecules. 52(3)：1004-1012	戈欢，黄海瑛
160	Poly(arylene piperidine)s with phosphoric acid doping as high temperature polymer electrolyte membrane for durable, high-performance fuel cells	Journal of Power Sources. 443:227229	白慧娟, Shanfu Lu, Lin Zhuang
161	High temperature polymer electrolyte membrane achieved by grafting poly (1-vinylimidazole) on polysulfone for fuel cells application	Journal of Membrane Science. 592:117395	白慧娟，相艳
162	A new high temperature polymer electrolyte membrane based on trifunctional group grafted polysulfone for fuel cell application	Journal of Membrane Science. 572:496	zhang jujia，相艳
163	Supramolecular nanostructures constructed by rod–coil molecular isomers: effect of rod sequences on molecular assembly	Soft Matter. 15: 6718--6724	杨云天，金龙一
164	Photo-controlled reversible assemblies from rod-coil molecules with azobenzene group	Dyes and Pigments. 171: 107694	于胜胜，金龙一
165	Benzothiadiazole-based bolaamphiphiles: synthesis, self-assembly and white-light emissive properties	J. Mater. Chem. C. 7, 1237-1245.	Xiao Yulong, 程晓红
166	Bolapolyphiles via Click Reaction: Effect of Flexible Polyaromatic Backbone Involving Polar Hydrogen Bonding Units on Their Self-assembly	Chemistry. Select. 4,10674-10680	Kong Tongtong, 程晓红
167	Azobenzene-based asymmetric bolaamphiphiles: formation of LC phases with honeycomb structures and gels with helical structures	J. Mol. Liq.. 293,111417.	Zhao Kai, 程晓红
168	Bisthiophene/triazole based 4,6-diamino-1,3,5-triazine triblock polyphiles: Synthesis, self-assembly and metal binding properties	J. Mol. Struc.. 1193, 294-302	Liu Chao, 程晓红
169	Effect of the linkages on the self-assembly and photophysical properties of 4,7-diphenyl-2,1,3-benzothiadiazole-based luminescent polycatenars	J. Mol. Liq.. 286, 110844.	Hu Jinliang, 程晓红
170	Broadband and strong electromagnetic wave absorption of epoxy composites filled with ultralow content of non-covalently modified reduced graphene oxides	Carbon . 154 (2019) 115–124	Xu Zhang, 王小群
171	In situfabrication of multifunctional gold-amino acid superstructures based on self-assembly.	Chemical Communications. 55, 3967-3970	Yang Xuejiao, Wang Yuefei, Qi Wei

172	Construction of Supramolecular Nanostructures with High Catalytic Activity by Photoinduced Hierarchical Co-Assembly	Chemistry - A European Journal. 25, 7896-7902	Yang Xuejiao, Wang Yuefei, Qi Wei
173	Disulfide crosslinking and helical coiling of peptide micelles facilitate the formation of a printable hydrogel	Journal of Materials Chemistry B. 7, 2981-2988.	Yang Xin, Wang Yuefei, Qi Wei
174	Polyamine-induced, chiral expression from liquid crystalline peptide nanofilaments to long-range ordered nanohelices	Soft matter. 15, 4818-4826	Wang Yuefei, Qi Wei
175	Protamine‐induced condensation of peptide nanofilaments into twisted bundles with controlled helical geometry	Journal of Peptide Science. 25: e3176	Wang Jiahui, Wang Yuefei; Qi Wei
176	High performance polyimide-based composites filled with 2D aluminum oxide coated reduced graphene oxide nanosheets	SURFACE & COATINGS TECHNOLOGY. 364(25):7-15	Jialong Li, Jinghua Yin
177	Enhanced dielectric performance and energy storage of PVDF‐HFP‐based composites induced by surface charged Al_2O_3	JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS. 57(10):574-583	Jialong Li, Jinghua Yin
178	Locally connected nano-micro two-dimensional fillers in nanocomposites for advanced thermal management	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING. 128:105660	Jialong Li, Jinghua Yin
179	Effect of $BaTiO_3$ nanowire distribution on the dielectric and energy storage performance of double-layer PVDF-based composites	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING. 125:105524	Yu Feng & Jialong Li, Weili Li
180	Microstructure and electrical properties of polyimide-based composites reinforced by high-aspect-ratio titanium oxide nanowires	SURFACE & COATINGS TECHNOLOGY. 361:425-431	Yanpeng Li, Jinghua Yin
181	The effects of MCNTs on electro-spinning carbonization microstructure of polyimide composite film and resistive switching behavior	Surface & Coatings Technology. 359:438-444	Yuanyuan Liu, Jinghua Yin, Xiaoxu Liu
182	Electrical and mechanical properties of polyimide composite films reinforced by ultralong titanate nanotubes	SURFACE & COATINGS TECHNOLOGY. 360:13-19	He Zhao, Jinghua Yin
183	Stretch-induced stable-metastable crystal transformation of PVDF/graphene composites	Polymer Crystallization. 2（4）:10079	郭慧龙，蒋世春
184	Conformational Energy Settled Crystallization Behaviors of Poly(L-lactic acid)	ACS appl. Polym. Mat. 9: 2552-2560	Hu C.，蒋世春
185	Role of conformation in crystal formation and transition of polybutene-1	CrystEngCom,. 21, 4243-4249	Qiu X.，蒋世春

186	Ultrafast Form II to I transition of isotactic polybutene-1	Chinese Journal of Polymer Science. 37(7): 633-636	Qiu X., 蒋世春
187	Crystal structure and unique lamellar thickening for poly(L-lactide) induced by high pressure	Polymer. 175, 81-86	Huang S., 蒋世春
188	Memory Effects on Crystallization Behaviours of Poly(L-lactic acid) Revisited	CrystEngCom. 21: 2660-2669	Hu C., 蒋世春
189	Stereocomplex Affected Crystallization Behaviours of PDLA in PDLA/PLDLA blends	CrystEngCom. 21:329-338	Cheng L., 蒋世春
190	Pendent affected crystallization behaviors of cyclic poly (ε -caprolactone)	Cryst. Growth Des. 19: 49-54	Zhang H., 蒋世春
191	Preparation of polyimide composites reinforced with oxygen doped boron nitride nano-sheet as multifunctional materials	Materials and Design. 180 ： 107963	刘晓旭
192	Fluorinated carbon nanofiber/polyimide composites: Electrical, mechanical,and hydrophobic properties	Surface & Coatings Technology. 361： 206－211	刘晓旭
193	Small angle X-ray scattering study on the fractal structure of solid products of bituminous coal at different carbonization temperatures	Philosophical Magazine Letters. 99,3: 95－101.	谢飞，李志宏
194	A simple vacuum sample chamber for small angle X-ray scattering at Beijing Synchrotron Radiation Facility	Radiation Detection Technology and Methods. 2019, 3:37.	李振中，李志宏
195	A small sample stretcher for in-situ small angle X-ray scattering measurement	Journal of Instrumentation. JINST 14 T05002	李振中，李志宏
196	Small-angle X-ray scattering study on the orientation of suspended sodium titanate nanofiber induced by applied electric field	Radiation Detection Technology and Methods . 3(3), pp.1-7	Jiayi Wang ，吴忠华
197	Linear viscoelasticity of poly(acrylic acid) complexed with ferric ion	Rheologica Acta. 2019, 01143-1	Yingchun Han, Quan Chen
198	Destruction and Reorganization of Physically Cross-Linked Network of Thermoplastic Polyurethane Depending on Its Glass Transition Temperature	ACS Appl. Polym. Mater. 1, 11, 3074-3083	李许可，李许可
199	Modulation of thermodynamic and kinetic inverted phase behavior of block copolymers by inorganic polyoxometalates	Soft Matter. 15：6988-6993	Junyan Tan, 李宝会
200	Insights into the Self-Assembly of a Heterocluster Janus Molecule into Colloidal Onions	Langmuir. 35（20） 6727-6734	Wang Hongyu, 王维

201	Lead-free thermochromic perovskites with tunable transition temperatures for smart window applications	Science China Chemistry. 62:1257	Li Jingwen , Chuan Zhang
202	高庙子钠基膨润土纳米孔隙结构的同步辐射小角散射	硅酸盐学报. 47（10）：1458	彭磊，侯东伟
203	$Li_4SrCa(SiO_4)_2:Eu^{2+}$: A Potential Temperature Sensor with Unique Optical Thermometric Properties	ACS Appl. Mater. Interfaces. 2019, 11, 9691−9695	Rui Shi, Hongbin Liang
204	Multi-site occupancies of Eu^{2+} in $Ca_6BaP_4O_{17}$ and their potential optical thermometric applications	Chemical Engineering Journal. 369 (2019) 376–385	Rongfu Zhou, Hongbin Liang
205	Impacts of 5d electron binding energy and electron–phonon coupling on luminescence of Ce^{3+} in $Li_6Y(BO_3)_3$	RSC Adv. 2019, 9, 7908–7915	Yiyi Ou, Hongbin Liang
206	High-Sensitivity and Wide-Linear-Range Thermoluminescence Dosimeter LiMgPO4:Tm,Tb,B for Detecting High-Dose Radiation	Inorg. Chem. 2019, 58, 9698−9705	Huaming Tang, Litian Lin
207	Green persistent luminescence and the electronic structure of β-Sialon:Eu^{2+}	Journal of Materials Chemistry C. 2019,7, 12544-12551	Shuxin Wang, Quanlin Liu
208	Enhanced Yellow Persistent Luminescence in $Sr_3SiO_5:Eu^{2+}$ through Ge Incorporation	Inorg. Chem. 2019, 58, 8694−8701	Zhizhen Wang, Quanlin Liu
209	Luminescent thermal stability and electronic structure of narrowband green-emitting Sr-Sialon:Eu2þ phosphors for LED/LCD backlights	Journal of Alloys and Compounds. 805 (2019) 1246-1253	Weitao Ji, Quanlin Liu
210	Structure and luminescence properties of multicolor phosphors with excellent thermal stability based on a new phosphate $Ba_3In_4(PO_4)_6$	Journal of Alloys and Compounds. 797 (2019) 775-785	G.X. Zhang, G.M. Cai
211	Red-green-blue-tunable emission from Eu3+ and Tb3+ codoped pyrophosphate phosphors	Journal of Luminescence . 215 (2019) 116732	J. Zhang, G.M. Cai
212	Structure, tunable luminescence and energy transfer in Tb^{3+} and Eu^{3+} codoped $Ba_3InB_9O_{18}$ phosphors	RSC Adv. 2019, 9, 1029–1035	Siyuan Song, G.M. Cai
213	VUV spectroscopic properties and 4f n-15d level positions of trivalent lanthanide ions doped into $Na_3Y(BO_3)_2$	Journal of Luminescence. 213 (2019) 489–493	Qiufeng Shi, Fangtian You
214	Site occupancy and luminescence of Ce^{3+} ions in whitlockite-related strontium lutetium phosphate	Materials Research Bulletin. 116 (2019) 106–110	Yongqiang Geng, Qiufeng Shi
215	Photoluminescence and thermal stability of Tb^{3+}-doped $K_4SrSi_3O_9$ phosphor with electron transition mechanisms	Materials Research Bulletin . 118 (2019) 110523	Xiaoxuan Guo, Jin He

216	Energy conversion in $LiSrPO_4$ doped with Pr^{3+} ions	Radiation Measurements. 123 (2019) 39 – 43	Vladimir A. Pustovarov,
217	Luminescence Spectroscopy and Decay Kinetics of Pr^{3+} Ions in $K_3LuSi_2O_7:Pr^{3+}$	Physics of the Solid State. 2019, Vol. 61, No. 5, pp. 752 – 757	V. A. Pustovarov,
218	Luminescence of Pr^{3+} Impurity Centers and Defects in $Sr_9Sc(PO_4)_7:Pr^{3+}$	Physics of the Solid State. 2019, Vol. 61, No. 5, pp. 758 – 762	V. A. Pustovarov,
219	Zero - Thermal Quenching of Mn^{2+} Red Luminescence via Efficient Energy Transfer from Eu^{2+} in $BaMgP_2O_7$	Advanced Optical Materials. 2019, 7,1901187	Rui Shi, Hongbin Liang
220	Preparation of CdS nanorods on silicon nanopillars surface by hydrothermal method	Materials Research Bulletin. 120:110591	刘静, 伊福廷
221	Fabrication and properties of ZnO nanorods on silicon nanopillar	Journal of Materials Science: Materials in Electronics. 30:11404 – 11411	刘静, 伊福廷
222	Fabrication and properties of micro-nano structure based heterojunction solar cell and photoresistor	Materials Research Express. 6:075024	刘静, 伊福廷
223	The property research of the transmission sinusoidal grating with fabrication of LIGA process	Optoelectronics Letters. 15(5)0335-0338	王雨婷，伊福廷
224	An A - D - A′ - D - A Conjugated Molecule Entailing Diazapentalene Unit for an n - Type Organic Semiconductor	Chemistry An Asian Journal. 2019, 14, 1712=1716	林高波，张德清
225	All polymer photodetectors with photomultiplication	Journal of Materials Chemistry C. 7(31),9633-9640	Kaixuan Yang, Fujun Zhang
226	Analysis of growth rate and crystal quality of AlN epilayers by flow-modulated metal organic chemical vapor deposition	Superlattices and Microstructures. 137(),106336	李方政，汪连山
227	Benefits of the Hydrophobic Surface for $CH_3NH_3PbI_3$ Crystalline Growth towards Highly Efficient Inverted Perovskite Solar Cells	Molecules. 2019, 24(10), 2027	Yang Li, Juan Meng
228	Conjugated Semiconducting Polymer with Thymine Groups in the Side Chains: Charge Mobility Enhancement and Application for Selective Field-Effect Transistor Sensors toward CO and H_2S	Chemistry of Materials. 2019, 31, 1800-1807	杨一洲，刘子桐，张德清
229	Crystallization Kinetics of Poly(ethylene oxide) under Confinement in Nanoporous Alumina Studied by in Situ X-ray Scattering and Simulation	Langmuir . 2019, 35 (36), 11799-11808	苏萃, 刘国明
230	Direct Imaging Revealing Halved Ferromagnetism in Tensile-Strained $LaCoO_3$ Thin Films	Phys. Rev. Mater.. 3, 074406 (2019).	Qiyuan Feng, Haibiao Zhou

231	Disorder in $M_{n+1}AXn$ phases at the atomic scale	Nature Communications. 10, Article number: 622 (2019)	Chenxu Wang, Yuguang Wang
232	Effect of C-doped GaN film thickness on the structural and electrical properties of AlGaN/GaN-based high electron mobility transistors	Semiconductor Science and Technology. 34(12),125006	姚威振，汪连山
233	Effect of Surface Fe-Sn Intermetallics on Oxide Films Formation of Stainless Steel in High Temperature Water	High Temperature Materials and Processes. 37(4):20160187	赵艳，管建军
234	Electric field modulated metastable state magnetization in $(Fe/Pt)_4$/PMN-PT multilayers	Journal of Alloys and Compounds. Volume 785, 15 May 2019, Pages 214-219	Wang Zeyang, Bai H. L.
235	Electric field-tailored giant transformation of magnetic anisotropy and interfacial spin coupling in epitaxial γ'-$Fe_4N/Pb(Mg_{1/3}Nb_{2/3})_{0.7}Ti_{0.3}O_3(011)$ multiferroic heterostructures	J. Mater. Chem. C. 2019, 7, 8537-8545	Zhengxun Lai, Ming Liu
236	Electrochemical prepared phosphorene as a cathode for supercapacitors	Journal of Alloys and Compounds. Volume 770, 5 January 2019, Pages 26-34	Zu Lei, Lian Huiqin
237	Emerging ferromagnetic phase in selfassembled mixed valence manganite nanowires	Appl. Phys. Lett.. 115, 162405 (2019)	Iftikhar Ahmed Malik, Jinxing Zhang
238	Fabrication of Patterned Organic Semiconductor Thin Films by the Synergy of Marangoni and Coffee-Ring Effects	Acta Phys. -Chim. Sin.. 2019, 35(11): 1259-1266	Ziang Wang, Guifang Dong
239	Ferroelectric phase transition induced relaxation of electroresistance in $La_{0.67}Sr_{0.33}MnO_3/BaTiO_3$ heterostructures	J. Appl. Phys. 125, 164102 (2019)	Wang Yuchen,
240	First-principles study of CN point defects on sidewall surface of [0 0 0 1]-oriented GaN nanowires	Applied Surface Science. Volumes 467–468, 15 February 2019, Pages 293-297	Liao Hui, Hu Xiaodong
241	Flexible $Fe_3O_4/BiFeO_3$ multiferroic heterostructures with uniaxial strain control of exchange bias	Journal of Magnetism and Magnetic Materials. Volume 481, 1 July 2019, Pages 227-233	Zheng W. C., Bai H. L.
242	Formation of Fe-Sn intermetallic layer and its effect on the corrosion of 304 stainless steel in high temperature water	International Journal of Electrochemical Science. 14（4）：3217-3228	管建军，赵艳
243	Growth and characterization of amber light-emitting diodes with dual-wavelength InGaN/GaN multiple-quantum-well structures	Materials Research Express. 6(8),0850c8	孟钰淋，汪连山
244	Highly Anisotropic P_3HT Film Fabricated via Epitaxy on an Oriented Polyethylene Film and Solvent Vapor Treatment	Langmuir. 2019, 35, 24, 7841-7847	Jiali Li, Xiaoli Sun

245	High-Performance Ambipolar Polymers Based on Electron-Withdrawing Group Substituted Bay-Annulated Indigo	Adv. Funct. Mater.. 291804839	Jie Yang, Yunqi Liu
246	Impact of Cone-Shape-Patterned Sapphire Substrate and Temperature on the Epitaxial Growth of p-GaN via MOCVD	Physica Status Solidi (a). 216(14),1900026	姚威振，汪连山
247	Implication of side-chain fluorination on electronic properties, ordering structures, and photovoltaic performance in asymmetric-indenothiophene-based semiconducting polymers.	Organic Electronics. 70（2019）122-130	Chenglin Jiang, Haiqiao Wang
248	Improving device performance of n-type organic field-effect transistors via doping with a p-type organic semiconductor	J. Mater. Chem. C. 2019, 7, 4543-4550	Shuqiong Lan, Huipeng Chen
249	Improvement of Device Performance of Organic Photovoltaics via Laser Irradiation	J. Phys. Chem. C . 2019, 123, 36, 22058-22065	Shuqiong Lan, Huipeng Chen
250	In situ Characterization of Phase Transition of Amorphous Poly(9,9-di-n-octyl-2,7-fluorene) Thin Film During Thermal Annealing	Chemical Research in Chinese Universities. February 2019, Volume 35, Issue 1, pp 157－16	Meng Shengfei, Zhang Jidong
251	In SR-GIXRD Study of Oxide Film Evaluation on AISI 304 Stainless Steel in High Temperature Water	Metals and Materials International. 25(5):1202-1208	赵艳
252	Ionic selective contact controls the charge accumulation for efficient and intrinsic stable planar homo-junction perovskite solar cells	Nano Energy. 66, 104098	夏建兴，贾春阳
253	Magnetic Properties and Charge Ordering in Polycrystalline $La_{1-x}Ca_xMnO_3$ (x = 0.2, 0.5) Manganite	Journal of superconductivity and novel magnetism. 32, pages3887－3891(2019)	王海欧，王海欧
254	Magnetoelectric coupling in γ'-Fe_4N/$Pb(Mg_{1/3}Nb_{2/3})_{0.7}Ti_{0.3}O_3$ multiferroic heterostructures	J. Appl. Phys.. 126, 113901 (2019)	Lai Z. X., Liu M.
255	Marangoni Effect-Controlled Growth of Oriented Film for High Performance C8-BTBT Transistors	ADVANCED MATERIALS INTERFACES. 6(8),1801736	王子昂，董桂芳
256	Microfluidic shear - induced conformational transition and crystallization of P_3HT in toluene	Polymer Crystallization.. 2019;e10093.	Ying Liu, Hong Huo
257	One-dimensional parallax-free position-sensitive detector for diffraction measurements based on a home-made thin THGEM	J. Synchrotron Rad. . 2019. 26, 83-88	Shi Chen, Qian Liu
258	Optically Tunable Field Effect Transistors with Conjugated Polymer Entailing Azobenzene Groups in the Side Chains	Advanced Functional Materials. 2019, 29, 1807176	田健吾，刘子桐，张德清
259	Optimizing nanoscale morphology and improving carrier transport of PCDTBT-PCBM bulk heterojunction by cyclic carboxylate nucleating agents	Organic Electronics. 2019, 65, 222-231	Liu Ying, Huo Hong

260	Orientation Regulation of Tin-Based Reduced-Dimensional Perovskites for Highly Efficient and Stable Photovoltaics	Adv. Funct. Mater. 29, 1807696	Hongyu Xu, Saisai Li
261	Photoluminescence and optical temperature sensing in Sm^{3+}-doped $Ba_{0.85}Ca_{0.15}Ti_{0.90}Zr_{0.10}O_3$ lead-free ceramics	Ceramics International. 45(1), 588-594	马春林，谭伟石，周卫平
262	Preparation and Characterization of Ultrathin Wsi Films for Superconducting Nanowire Single-Photon Detectors	IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. VOL. 29, NO. 5, 1100604	Jin Jin, Xiaoqing Jia
263	Quaternary polymer solar cells with over 13% efficiency enabled by improving film-morphologies via binary mixed fullerene additive	Mater. Chem. Front.. 2019, 3 (2), 301-307	Fugang Shen, Chuanlang Zhan
264	Raman investigation on the surface carrier concentration of single GaN microrod grown by MOCVD	Applied Surface Science. Volume 489, 30 September 2019, Pages 346-350	Hui Liao, Xiaodong Hu
265	Small-molecule semiconductors containing dithienylacrylonitrile for high-performance organic field-effect transistors	J. Mater. Chem. C. 2019, 7, 11457-11464	Dizao Li, Gui Yu
266	Semitransparent ternary nonfullerene polymer solar cells exhibiting 9.40% efficiency and 24.6% average visible transmittance	Nano Energy. 55，424-432	胡拯豪，张福俊
267	Structure and magnetic properties of epitaxial Pt/LaMnO3 bilayer	Materials Letters. 236,152－154	王海欧，王海欧
268	Synergistic Effect of Hydrogen Bonds and Diffusion on the β -Crystallization of Poly(vinylidene fluoride) On Poly(methyl methacrylate) Interface	Ind. Eng. Chem. Res. 7389-7396	孙晓丽
269	Ternary polymer solar cells with alloyed donor achieving 14.13% efficiency and 78.4% fill factor	Nano Energy. 60, 768-774	Qiaoshi An, Fujun Zhang
270	Ternary polymer solar cells with alloyed non-fullerene acceptor exhibiting 12.99% efficiency and 76.03% fill factor	Nano Energy. Volume 59, May 2019, Pages 58-65	Miao Zhang, Fujun Zhang
271	Transparent and ferroelectric poly (vinylidene fluoride) film achieved by simple ultrasonic spray coating method	Materials Letters. Volume 247, 15 July 2019, Pages 71-74	Susu Wang, Yongri Liang
272	Upconversion photoluminescence modulation by electric field poling in Er^{3+} doped $(Ba_{0.85}Ca_{0.15})(Zr_{0.1}Ti_{0.9})O_3$ piezoelectric ceramics	Journal of Alloys and Compounds. 794, 325-332	马春林，周卫平，谭伟石
273	纳米压印调控 PCL-b-PLLA 受限结晶取向行为的研究	高分子学报. 50, 1, 82-90	戈欢，何天白，黄海瑛
274	有机半导体图案化成膜中的马兰戈尼与咖啡环效应协同作用	物理化学学报．35(11),1259-1266	王子昂，董桂芳

275	Applications of Field-Reversal and Angle-Dependent XMCD Techniques to Mn-Based Diluted Magnetic Materials	MATERIALS SCIENCE. Vol. 25, No. 2. 2019	Zhiying GUO
276	Genomes of skipper butterflies reveal extensive convergence of wing patterns	PNAS. 2019 116 (13) 6232-6237	Wenlin Li, Nick V. Grishin
277	Revealing the atomistic origin of the disorder-enhanced Na-storage performance in $NaFePO_4$ battery cathode	Nano Energy. Volume 57, March 2019, Pages 608-615	Fangyu Xiong, HaizhengTao
278	Polyanion-Modified Li-Rich Manganese-Based Layered Materials	Springer. pp 35-54	Biao Li, Dingguo Xia
279	Swallow - Nest - Inspired Strategy towards Ultralight Functional Multiwall - Carbon - Nanotube - Based Aerogels for Supercapacitors	ChemElectroChem. Volume6, Issue6 pages 1661-1667	Shuai Jiang, Chunhui Tan
280	Mitigating Voltage Decay of Li-Rich Layered Oxide by Incorporation of 5d Metal Rhenium	Journal of Physical Chemistry C. 2019, 123, 31, 18870-18876	zhen yu, Wangsheng Chu
281	Synergistic Electrocatalytic Nitrogen Reduction Enabled by Confinement of Nanosized Au Particles onto a Two-Dimensional Ti_3C_2 Substrate	ACS Applied Materials & Interfaces. 2019, 11, 29, 25758-25765	Dan Liu, Youyu Zhang
282	Adsorption characteristics of copper ion on nanoporous silica	Acta Geochimica. August 2019, Volume 38, Issue 4, pp 517 – 529	Yanhui Niu, Quan Wan
283	Extraction of Al and Ce from coal fly ash by biogenic Fe^{3+} and H_2SO_4	Chemical Engineering Journal. Volume 370, 15 August 2019, Pages 1407-1424	Xiao-lu Fan, Jin-lan Xia
284	Triggering surface oxygen vacancies on atomic layered molybdenum dioxide for a low energy consumption path toward nitrogen fixation	Nano Energy. Volume 59, May 2019, Pages 10-16	Gong Zhang, Qinghua Ji
285	Incorporation of CeF_3 on single-atom dispersed Fe/N/C with oxophilic interface as highly durable electrocatalyst for proton exchange membrane fuel cell	Journal of Catalysis. Volume 374, June 2019, Pages 43-50	Xue Yin, Wen Yang
286	Ferrocene as a Novel Additive to Enhance the Lithium-Ion Storage Capability of SnO_2/Graphene Composite	ACS Applied Materials & Interfaces. 2019, 11, 35, 31943-31953	Siyu Zhang, Xianqing Liang
287	Edge-Contact Geometry and Anion-Deficit Construction for Activating Ultrathin MoS_2 on $W_{17}O_{47}$ in the Hydrogen Evolution Reaction	Inorganic Chemistry. 2019, 58, 16, 11241-11247	Rui Jiang, Jun Luo
288	Bottom-up growth of homogeneous Moir é superlattices in bismuth oxychloride spiral nanosheets	Nature Communications. 10, Article number: 4472 (2019)	Lulu Liu, Xiaoqiang Cui
289	Co- doped carbon layer to lower the onset potential of he matite for solar water oxidation	Applied Catalysis B-Environmental. Volume 258, 5 December 2019, 117962	Lan, Huiwen, Zhenhui Kang

290	Cr/C Reflective Multilayer for Wavelength of 44.8 Å	Journal of Nanoscience and Nanotechnology,. Volume 19, Number 1	Zhu, Jingtao,
291	The influence of no-till coupled with straw return on soil phosphorus speciation in a two-year rice-fallow practice	Soil and Tillage Research. Volume 195, December 2019, 104389	FaYong Li, 梁新强
292	Tracking Internal Electron Shuttle Using X-ray Spectroscopies in La/ Zr Hydroxide for Reconciliation of Charge-Transfer Interaction and Coordination toward Phosphate	ACSApplied matertials&interfaces. 2019，11，24699-24706	Chao Xiang, Hongjie Wang，Gong Zhang
293	Elemental sulfur amendment enhance methylmercury accumulation in rice (Oryza sativa L.) grown in Hg mining polluted soil	Journal of Hazardous Materials. Volume 379, 5 November 2019, 120701	Yunyun Li, Y. Chen, Y. Gao
294	Phosphorus complexation of sewage sludge during thermal hydrolysis with different reaction temperature and reaction time by P K-edge XANES and 31P NMR	Science of the Total Environment. 688 (2019) 1–9	Xiaomin Han, Fei Wang
295	Surface Sorption Site and Complexation Structure of Ca^{2+} at the Goethite – Water Interface: A Molecular Dynamics Simulation and Quantitative XANES Analysis	Bulletin of Environmental Contamination and Toxicology. (2019) 103:64–68	贾永峰，Shaofeng Wang
296	Molecular understanding of dissolved black carbon sorption in soil-water environment	Water research. Volume 154, 1 May 2019, Pages 210-216	Lei Luo
297	DL-cysteine and L-cystine formation and their enhancement effects during sulfur autotrophic denitrification	Science of the Total Environment. 695 (2019) 133823	Wen Hao, liangpeng.
298	Triggering of Low-Valence Molybdenum in Multiphasic MoS_2 for Effective Reactive Oxygen Species Output in Catalytic Fenton-like Reactions	ACSApplied matertials&interfaces. 2019, 11, 26781−26788	Yu Chen, Jiuhui Qu
299	Visible-Light-Induced Nanoparticle Assembly for Effective Hydrogen Photogeneration	ACS Sustainable Chemistry&Engineering. . 2019, 7, 7286−7293	Yang Wang, Xu-Bing Li, Li-Zhu Wu
300	Understanding Enhanced Microbial MeHg Production in MiningContaminated Paddy Soils under Sulfate Amendment: Changes in Hg Mobility or Microbial Methylators?	Environ. Sci. Technol.. 2019, 53, 1844−1852	Yunyun Li, zhonghuan, Y. X. Gao
301	Activation of Lattice Oxygen in LaFe (Oxy)hydroxides for Efficient Phosphorus Removal	Environmental Science &Technology. 2019, 53, 9073−9080	Jie Yu, Qinghua Jiand Jiuhui Qu
302	Bioleaching of chalcopyrite with different crystal phases by Acidianus manzaensis	Transactions of Nonferrous Metals Society of China. Volume 29, Issue 3, March 2019, Pages 617-624	Zhen-yuan Nie, Hong-chang LIU, Jin-lan XIA,

303	Dynamic influence of S fertilizer on Cu bioavailability in rice (Oryza sativa L.) rhizosphere soil during the whole life cycle of rice plants	Journal of Soils and Sediments. January 2019, Volume 19, Issue 1, pp 198–210	lijuan Sun, Xiaofeng Yuan ,Jiyan Shi
304	Enhancement mechanism of sulfur dopants on the catalytic activity of N and P co-doped threedimensional hierarchically porous carbon as a metal-free oxygen reduction electrocatalyst†	Catalysis Science & Technology. 2019, 9, 5906	Yongxi Zan, Feng Wang
305	Lead was mobilized in acid silty clay loam paddy soil with potassium dihydrogen phosphate (KDP) amendment	Environmental Pollution. 255 (2019) 113179	Qiao Xu, Shi Jiyan
306	Size-Dependent Bacterial Toxicity of Hematite Particles	Environmental Science&Technology. 2019, 53, 8147−8156	Chenchen Qu, Wenli Chen, Qiyun Huang
307	Spectroscopic studies on U(VI) incorporation into CaCO3: Effects of aging time and U(VI) concentration	Chemosphere. Volume 220, April 2019, Pages 1100-1107	Zhiwei Niu, Xiaoyan Wei, Shirong Qiang, Qiaohui FAN
308	Mechanism by which ferric iron promotes the bioleaching of arsenopyrite by the moderate thermophile Sulfobacillus thermosulfidooxidans	Process Biochemistry. Volume 81, June 2019, Pages 11-21	Duo-RuiZhang, 夏金兰
309	Adsorption and transformation of thioarsenite at hematite/water interface under anaerobic condition in the presence of sulfide	Chemosphere. Volume 222, May 2019, Pages 422-430	Ying Wang, Shaofeng Wang, Yongfeng Jia
310	Amorphous calcium phosphate in the pupal cuticle of Bactrocera dorsalis Hendel (Diptera: Tephritidae): A new discovery for reconsidering the mineralization of the insect cuticle	Journal of Insect Physiology. Volume 119, November–December 2019, 103964	Jingjing Rong, Dawei Huang
311	Occurrence and Origin of H2S from Volcanic Reservoirs in Niudong Area of the Santanghu Basin, NW China	Geofluids. Volume 2019, Article ID 1279658, 10 pages	Xiangxian Ma, Guodong Zheng
312	In-situ XAFS and SERS study of self-healing of passive film on Ti in Hank's physiological solution	Applied Surface Science. Volume 496, 1 December 2019, 143657	LuWang, Lu Wang, Hongying Yu
313	A novel method for preparing an As(V) solution for scorodite synthesis from an arsenic sulphide residue in a Pb refinery	Hydrometallurgy. Volume 183, January 2019, Pages 1-8	Xu Ma, Shaofeng Wang
314	Pseudo-equilibrium equation of calcium phosphate precipitation from aqueous solution†	Phys. Chem. Chem. Phys.. 2019, 21, 22057	Hong-Xing Fan, Tianlan Zhang
315	Ex vivo detection of calcium phosphate and calcium carbonate in rat blood serum	Journal of Structural Biology. Volume 205, Issue 1, 1 January 2019, Pages 41-47	Bao-Di Gou, Yang Liu, Tianlan Zhang

316	Long-term stability of the Fe(III) – As(V) coprecipitates: Effects of neutralization mode and the addition of Fe(II) on arsenic retention	Chemosphere. Volume 237, December 2019, 124503	DanniZhang, Yongfeng Jia
317	Quantitative analysis of local fine structure on diffusion of point defects in passive film on Ti	Electrochimica Acta. Volume 314, 10 August 2019, Pages 161-172	Lu Wang, Lu Wang,, Hongying Yu, Dongbai Sun
318	Enhanced CO_2 electroreduction performance over Cl-modified metal catalysts†	Journal of Materials Chemistry A. 2019, 7, 12420-12425	Huai Qin Fu, Li Rong Zheng, Peng Fei Liu, Huijun Zhao, Hua Gui Yang
319	Nanoparticle Assembled Mesoporous MoO_2 MicrorodsDerived from Metal Organic Framework and Wrapped with Graphene as the Sulfur Host for Long-Life Lithium – SulfurBatteries	Advanced materials interfaces. 2019, 6, 1801636	Rameez Razaq, Zhaoliang Zhang
320	Strategic differences in phosphorus stabilization by alum and dolomite amendments in calcareous and red soils	Environmental Science and Pollution Research. February 2019, Volume 26, Issue 5, pp 4842 – 4854	Bingqian Fan, Qing Chen
321	Biochar amendment to further reduce methylmercury accumulation in rice grown in selenium-amended paddy soil	Journal of Hazardous Materials. Volume 365, 5 March 2019, Pages 590-596	YongjieWang, Xiangmin Zheng, Huan Zhong
322	Synthesis of PdSx-Mediated Polydymite Heteronanorods and Their Long-Range Activation for Enhanced Water Electroreduction	AAAS Research，the journal of CAST. Volume 2019, Article ID 8078549, 11 pages	Qiang Gao, Min-Rui Gao, Shu-Hong Yu
323	Natural Nanofibrous Cellulose-Derived Solid Acid Catalysts	AAAS Research，the journal of CAST. Volume 2019, Article ID 6262719, 11 pages	Zhen-Yu Wu, Hai-Wei Liang and Shu-Hong Yu
324	Micropore-confined amorphous SnO_2 subnanoclusters as robust anode materials for Na-ion capacitors†	J. Mater. Chem. A. 2019, 7,21711	Jin Niu, Zhengping Zhang, Xia Lu, Feng Wang
325	General Method for Synthesis Transition - Metal Phosphide/Nitrogen and Phosphide Doped Carbon Materials with Yolk - Shell Structure for Oxygen Reduction Reaction	ChemCatChem . 2019, 11, 1722 – 1731	Yue Yu, Xia Zuo
326	Uptake Kinetics of Methylmercury in a Freshwater Alga Exposed to Methylmercury Complexes with Environmentally Relevant Thiols	Environmental Science &Technology. 2019,53,13757-13766	Aleksandra Skrobonja, Erik Bjo¨rn

327	A Sulfur K-Edge XANES and Raman Study on the Effect of Chloride Ion on Bacterial and Chemical Leaching of Chalcopyrite at 25 ° C	Mining, Metallurgy & Exploration. April 2019, Volume 36, Issue 2, pp 343–352	Xiyu Gao, Miao Chen
328	α -$Ni(OH)_2$ Originated from Electro-Oxidation of NiSe2 Supported by Carbon Nanoarray on Carbon Cloth for Efficient Water Oxidation	Small. 151902222	Wang Ling, Xue, Junmin, Du Yonghua
329	The role of cupric ions in the oxidative dissolution process of marmatite:A dependence on Cu^{2+} concentration	Science of the Total Environment. 卷：675, 页码：213-223	Meng Xiaoyu , Zhao, Hongbo
330	Manganese-vacancy complexes induced room temperature ferromagnetism in Mn/Mg co-doped In_2O_3 diluted magnetic semiconductors	Superlattices and Microstructures. 卷：132 页：106174-106181	Xiaocan Liu, Yukai An
331	Activation and Enhancement of Room-Temperature Ferromagnetic Exchange in (Cu,N)-codoped In2O3 Dilute Magnetic Nanowires	The Journal of Physical Chemistry C. 卷: 123 期: 29 页: 18079-18086	Liu xiaocan, An Yukai
332	Self-standing hollow porous AuPt nanospheres and their enhanced electrocatalytic performance	Journal of Colloid and Interface Science. 卷：554 页：396-403	Wang Haifei, Lin Guanhua, Peng Zhengchun
333	Catalytic mechanism of silver in the oxidative dissolution process of chalcopyrite: Experiment and DFT calculation	Hydrometallurgy. 卷：187, 页码：18-29	Zhao Hongbo , Ou Pengfei
334	Dilatancy signatures of amorphous plasticity probed by X-ray synchrotron radiation	INTERMETALLICS. 卷: 107 页: 34-38	Sun Xing, Jiang M. Q.
335	Direct synthesis of layered double hydroxides monolayer nanosheets for co-assembly of nanobrick wall hybrid film with excellent corrosion resistance	Applied Surface Science. 卷：493 页：239-249	Liu Ang, Tian Huiwen, Li WeiHua
336	Synthesis and formation mechanism of self-assembled 3D flower-like Bi/gamma-Fe_2O_3 compositeparticles	CRYSTENGCOMM. 卷：21 期: 17 页: 2799-2808	Liu Yunpeng, Wu Zhonghua
337	Interactions between marmatite and bornite during th e oxidative dissolution process in abiotic and biotic s ystems	RSC ADVANCES. 卷：9 期: 46 页: 26609-26618	Zhang Yanjun, Zhao Hongbo
338	Strengthening of the Fe-Ni Invar Alloy Through Chromium	Materials. 卷：12 期：8 1297	Sui Qingshuang, Sun Zhonghua. Peng Huifen
339	Phase transition of docosane in nanopores	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 卷：135 期: 5 页: 2869-2877	Wang Dongqing, Lan XiaoZheng

340	Fabrication of ordered mesoporous carbons with tunable pore architecture by the cosolvent	JOURNAL OF POROUS MATERIALS. 卷: 26 期: 4 页: 1131-1135	Li Peng,
341	Facile synthesis of mesoporous carbons with tailored porosity by a fast polymerization	JOURNAL OF POROUS MATERIALS. 卷: 26 期: 2 页: 561-565	Yang Huidi, Li Peng
342	Identification of single-atom active sites in carbon-based cobalt catalysts during electrocatalytic hydrogen evolution	Nature Catalysis. volume 2, pages134–141 (2019)	Linlin Cao, 姚涛 & 韦世强
343	Engineering the electronic structure of single atom Ru sites via compressive strain boosts acidic water oxidation electrocatalysis	Nature Catalysis. volume 2, pages304–313 (2019)	Yancai Yao, Wei-Xue Li & 吴宇恩
344	Solid-Diffusion Synthesis of Single-Atom Catalysts Directly from Bulk Metal for Efficient CO_2 Reduction	Joule. Volume 3, Issue 2, 20 February 2019, Pages 584-594	Changming Zhao, Yafei Li & 吴宇恩 等
345	Fe–N–C electrocatalyst with dense active sites and efficient mass transport for high-performance proton exchange membrane fuel cells	Nature Catalysis. volume 2, pages259–268 (2019)	万鑫，水江澜 & 徐鸣
346	Switching Co/N/C Catalysts for Heterogeneous Catalysis and Electrocatalysis by Controllable Pyrolysis of Cobalt Porphyrin	iScience. Volume 15, 31 May 2019, Pages 282-290	吴振禹，梁海伟
347	Ultrathin Nanosheet of Graphdiyne-Supported Palladium Atom Catalyst for Efficient Hydrogen Production	iScience. Volume 11, 25 January 2019, Pages 31-41	Huidi Yu, Yurui Xue & 李玉良
348	Single-atom catalyst boosts electrochemical conversion reactions in batteries	Energy Storage Materials. Volume 18, March 2019, Pages 246-252	Jian Wang, Yuegang Zhang
349	Coordination-Engineered Cu – Nx Single-Site Catalyst for Enhancing Oxygen Reduction Reaction	ACS Appl. Energy Mater.. 2019, 2, 9, 6497-6504	Danhao Wang, 姚涛
350	Sub-2 nm Ir Nanoclusters Immobilized on Mesoporous Nitrogen-Doped Carbons as Efficient Catalysts for Selective Hydrogenation	ACS Appl. Nano Mater.. 2019, 2, 10, 6546-6553	陈林维，梁海伟
351	Single-atom nickel confined nanotube superstructure as support for catalytic wet air oxidation of acetic acid	Communications Chemistry. volume 2, Article number: 135 (2019)	Chengyu Jin, Huangzhao Wei & Chenglin Sun
352	Atomically dispersed platinum supported on curved carbon supports for efficient electrocatalytic hydrogen evolution	Nature Energy. volume 4, pages512–518 (2019)	Daobin Liu, 江俊 & 宋礼
353	Lattice-strained metal–organic-framework arrays for bifunctional oxygen electrocatalysis	Nature Energy. volume 4, pages115–122 (2019)	程位任，赵旭，刘庆华

354	Atomically dispersed iron hydroxide anchored on Pt for preferential oxidation of CO in H_2	Nature. volume 565, pages631–635 (2019)	曹丽娜，刘炜等，韦世强 & 路军岭 & 杨金龙
355	Single atom electrocatalysts supported on graphene or graphene-like carbons	Chem. Soc. Rev.. 2019, 48 , 5207--5241	Huilong Fei, 段镶锋
356	Highly stable single Pt atomic sites anchored on aniline-stacked graphene for hydrogen evolution reaction	Energy Environ. Sci.. 2019, 12, 1000-1007	Shenghua Ye, Meng Gu & Jianhong Liu & Xueliang Sun
357	Intramolecular electronic coupling in porous iron cobalt (oxy)phosphide nanoboxes enhances the electrocatalytic activity for oxygen evolution	Energy Environ. Sci.. 2019, 12, 3348-3355	张华斌，楼熊文
358	Trifunctional Self‐Supporting Cobalt‐Embedded Carbon Nanotube Films for ORR, OER, and HER Triggered by Solid Diffusion from Bulk Metal	Adv.Mater.. 2019, 31, 1808043	Zhengkun Yang, 吴宇恩
359	Ultrathin Cobalt Oxide Layers as Electrocatalysts for High‐Performance Flexible Zn–Air Batteries	Adv.Mater.. 2019, 31, 1807468	Tianpei Zhou, Hong Jiang & 吴长征
360	Nitrogen‐Doped Carbon Nanotube Confined Co–Nx Sites for Selective Hydrogenation of Biomass‐Derived Compounds	Adv.Mater.. 2019, 31, 1808341	Wanbing Gong, Haimin Zhang & Huijun Zhao
361	Liberating N-CNTs Confined Highly Dispersed Co-Nx Sites for Selective Hydrogenation of Quinolines	Adv.Mater.. 2019, 1906051	Wanbing Gong, Haimin Zhang & Huijun Zhao &林岳
362	Ambient Synthesis of Single‐Atom Catalysts from Bulk Metal via Trapping of Atoms by Surface Dangling Bonds	Adv.Mater.. 2019, 31, 1904496	Yunteng Qu, 吴宇恩
363	A Simple Synthetic Strategy toward Defect‐Rich Porous Monolayer NiFe‐Layered Double Hydroxide Nanosheets for Efficient Electrocatalytic Water Oxidation	Adv. Energy Mater.. 2019, 9, 1900881	Xin Zhang, 张铁锐
364	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation	Adv. Energy Mater.. 2019, 9, 1803768	Zongkui Kou, Zongkui Kou & Anthony K. Cheetham & John Wang
365	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor	Adv. Energy Mater.. 2019, 9, 1901213	Yan Lin, Jun Zhang & Yuan Pan & 陈晨
366	Manganese Oxide Modified Nickel Catalysts for Photothermal CO Hydrogenation to Light Olefins	Adv. Energy Mater.. 2019, 1902860	Yuanshen Wang, 张铁锐

367	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO_2	Nature Chemistry. volume 11, pages222–228 (2019)	Jiqing Jiao, 肖海，陈晨
368	High-Concentration Single Atomic Pt Sites on Hollow CuSx for Selective O_2 Reduction to H_2O_2 in Acid Solution	Chem. Volume 5, Issue 8, 8 August 2019, Pages 2099-2110	Rongan Shen, Qing Peng & Zhongbin Zhuang & 李亚栋
369	Activating Layered Double Hydroxide with Multivacancies by Memory Effect for Energy-Efficient Hydrogen Production at Neutral pH	ACS Energy Lett.. 2019, 4, 6, 1412-1418	Zijian Yuan, Zhao Cai
370	Iridium-Triggered Phase Transition of MoS_2 Nanosheets Boosts Overall Water Splitting in Alkaline Media	ACS Energy Lett.. 2019, 4, 1, 368-374	Shuting Wei, Weitao Zheng
371	Stimulated Electrocatalytic Hydrogen Evolution Activity of MOF‐Derived MoS_2 Basal Domains via Charge Injection through Surface Functionalization and Heteroatom Doping	Adv.Sci.. 2019, 1900140	Gamze Yilmaz, Ghim Wei Ho
372	Atomic Insights for Optimum and Excess Doping in Photocatalysis: A Case Study of Few‐Layer Cu‐$ZnIn_2S_4$	Adv. Funct. Mater.. 2019, 29, 1807013	Pengfei Wang, 展思辉
373	Unraveling the Formation of Amorphous MoS_2 Nanograins during the Electrochemical Delithiation Process	Adv. Funct. Mater.. 2019, 29, 1904843	Zhiqiang Zhu, Jun Chen & 杜永华 & Xiaodong Chen
374	Strengthening reactive metal-support interaction to stabilize high-density Pt single atoms on electron-deficient g-C_3N_4 for boosting photocatalytic H2 production	Nano Energy. Volume 56, February 2019, Pages 127-137	Peng Zhou, Shaojun Guo
375	Photothermal hydrocarbon synthesis using alumina-supported cobalt metal nanoparticle catalysts derived from layered-double-hydroxide nanosheets	Nano Energy. Volume 60, June 2019, Pages 467-475	Zhenhua Li, 张铁锐
376	Well-defined gradient Fe/Zn bimetal organic framework cylinders derived highly efficient iron- and nitrogen- codoped hierarchically porous carbon electrocatalysts towards oxygen reduction	Nano Energy. Volume 57, March 2019, Pages 108-117	Zhiyuan Guo, 窦美玲 & 王峰
377	Controllable tuning of Fe-N nanosheets by Co substitution for enhanced oxygen evolution reaction	Nano Energy. Volume 57, March 2019, Pages 644-652	Li An, Pinxian Xi & Shouheng Sun
378	Single Fe atoms anchored by short-range ordered nanographene boost oxygen reduction reaction in acidic media	Nano Energy. Volume 66, December 2019, 104164	Shaoqing Chen, Hsing-Lin Wang

379	Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution	Nano Energy. Volume 60, June 2019, Pages 661-666	Daojin Zhou, Yun Kuang & Xiaoming Sun & Bin Liu
380	Valence Engineering via Selective Atomic Substitution on Tetrahedral Sites in Spinel Oxide for Highly Enhanced Oxygen Evolution Catalysis	J. Am. Chem. Soc.. 2019, 141, 20, 8136-8145	Yan Liu, Xin Luo & Limin Zhou & Haitao Huang
381	MXene (Ti_3C_2) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO_2	J. Am. Chem. Soc.. 2019, 141, 9, 4086-4093	Di Zhao, Chen Chen
382	Surface Plasmon Enabling Nitrogen Fixation in Pure Water through a Dissociative Mechanism under Mild Conditions	J. Am. Chem. Soc.. 2019, 141, 19, 7807-7814	Canyu Hu, 龙冉 & 熊宇杰
383	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal	J. Am. Chem. Soc.. 2019, 141, 11, 4505-4509	Yunteng Qu, Xuezhi Duan & 吴宇恩
384	Highly Efficient and Selective Generation of Ammonia and Hydrogen on a Graphdiyne-Based Catalyst	J. Am. Chem. Soc.. 2019, 141, 27, 10677-10683	Lan Hui, Yurui Xue & Yuliang Li
385	Scalable Production of Efficient Single-Atom Copper Decorated Carbon Membranes for CO_2 Electroreduction to Methanol	J. Am. Chem. Soc.. 2019, 141, 32, 12717-12723	Hengpan Yang, Chuanxin He
386	Reconstructing bimetallic carbide Mo6Ni6C for carbon interconnected MoNi alloys to boost oxygen evolution electrocatalysis	Mater. Horiz.. 2019, 6, 115-121	Meng Yang Zu , 杨化桂
387	Low-temperature hydrogenation of dimethyl oxalate to ethylene glycol via ternary synergistic catalysis of Cu and acid−base sites	Applied Catalysis B: Environmental. Volume 248, 5 July 2019, Pages 394-404	Guoqing Cui, Junhua Zhu & 卫敏
388	Regulating the coordination environment of Co single atoms for achieving efficient electrocatalytic activity in CO_2 reduction	Applied Catalysis B: Environmental. Volume 240, January 2019, Pages 234-240	Zhigang Geng, 姚涛 & 林岳
389	Tuning interaction between cobalt catalysts and nitrogen dopants in carbon nanospheres to promote Fischer-Tropsch synthesis	Applied Catalysis B: Environmental. Volume 248, 5 July 2019, Pages 73-83	Qingpeng Cheng, 李新刚
390	Synergistic Cu@CoOx core-cage structure on carbon layers as highly active and durable electrocatalysts for methanol oxidation	Applied Catalysis B: Environmental. Volume 244, 5 May 2019, Pages 795-801	Yue Sun, 钟俊
391	Insights into the role of active site density in the fuel cell performance of Co-N-C catalysts	Applied Catalysis B: Environmental. Volume 256, 5 November 2019, 117849	Linyun Chen, 水江澜
392	Construction of multi-dimensional core/shell Ni/NiCoP nano-heterojunction for efficient electrocatalytic water splitting	Applied Catalysis B: Environmental. Volume 259, 15 December 2019, 118039	Yan Lin, Yuan Pan

393	Heterogeneous molecular rhenium catalyst for CO_2 photoreduction with high activity and tailored selectivity in an aqueous solution	Applied Catalysis B: Environmental. Volume 259, 15 December 2019, 118113	Shengbo Zhang, Xiao Liu
394	Metal Organic Framework-Templated Synthesis of Bimetallic Selenides with Rich Phase Boundaries for Sodium-Ion Storage and Oxygen Evolution Reaction	ACS Nano. 2019, 13, 5, 5635-5645	Guozhao Fang, Jiang Zhou, Yongpeng Lei, Shuquan Liang
395	In Situ Charge Exfoliated Soluble Covalent Organic Framework Directly Used for Zn – Air Flow Battery	ACS Nano. 2019, 13, 1, 878-884	Peng Peng, Zhonghua Xiang
396	Substrate Metabolism-Driven Assembly of High-Quality CdSxSe1 – x Quantum Dots in Escherichia coli: Molecular Mechanisms and Bioimaging Application	ACS Nano. 2019, 13, 5, 5841-5851	Li-Jiao Tian, Wen-Wei Li & Jie-Jie Chen
397	Engineering the In-Plane Structure of Metallic Phase Molybdenum Disulfide via Co and O Dopants toward Efficient Alkaline Hydrogen Evolution	ACS Nano. 2019, 13, 10, 11733-11740	Dengfeng Cao, Daobin Liu & 宋礼
398	Hybrid Organic – Inorganic Gel Electrocatalyst for Stable Acidic Water Oxidation	ACS Nano. 2019, 13, 12, 14368-14376	Zhiwei Fang, Guihua Yu
399	A pyrolysis-free path toward superiorly catalytic nitrogen-coordinated single atom	Science Advances. 02 Aug 2019: Vol. 5, no. 8, eaaw2322	Peng Peng, Zhonghua Xiang
400	A sulfur-tethering synthesis strategy toward high-loading atomically dispersed noble metal catalysts	Science Advances. Vol. 5, no. 10, eaax6322	王磊，储胜启 & 林岳 & 梁海伟
401	Self-supported hydrogenolysis ofaromatic ethers toarenes	Science Advances. 2019; 5 : eaax6839	Qinglei Meng, Qinglei Meng & 韩布兴
402	Single-atom nanozymes	Science Advances. Vol. 5, no. 5, eaav5490	Liang Huang, Shaojun Dong
403	Isolated Square Planar Copper in Boron Imidazolate Nanocages for Photocatalytic Reduction of CO_2 to CO	Angew. Chem. Int. Ed.. 2019, 58, 11752 – 11756	haixia Zhang, Tianhua Zhou
404	Highly selective photoreduction of CO_2 with suppressing H2 evolution over monolayer layered double hydroxide under irradiation above 600 nm	Angew. Chem. Int. Ed.. 2019,58,11860 – 11867	Ling Tan, 宋宇飞
405	Activating Inert, Nonprecious Perovskites with Iridium Dopants for Efficient Oxygen Evolution Reaction under Acidic Conditions	Angew. Chem. Int. Ed.. 2019, 58, 7631 – 7635	Xiao Liang, Xiaoxin Zou

406	Engineering atomic interface by single Pt atoms for enhanced photocatalytic hydrogen production	Angew. Chem. Int. Ed.. 2019, 58, 2 – 9	Yuanjun Chen, 雷永鹏 & 王定胜 & 李亚栋
407	Two-Dimensional ConjugatedAromaticNetworksas High-Site-Density and Single-Atom Electrocatalysts for the OxygenReductionReaction	Angew. Chem. Int. Ed.. 2019, 58, 14724 – 14730	Shaoxuan Yang, Zhengping Zhang & Liming Dai & Feng Wang
408	ALattice-Oxygen-Involved ReactionPathwayto BoostUreaOxidation	Angew. Chem. Int. Ed.. 2019,58,16820 – 16825	Longsheng Zhang, Huisheng Peng
409	Synergistically Interactive Pyridinic - N – MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution	Angew. Chem. Int. Ed.. 2019,131,2 – 11	Di Zhao, Chen Chen
410	Identification of catalytic sites for oxygen reduction in metal/nitrogen - doped carbons with encapsulated metal nanoparticles	Angew. Chem. Int. Ed.. 2019, 58, 2 – 9	陈明曦，梁海伟
411	Reordering d Orbital Energies of Single - Site Catalysts for CO_2 Electroreduction	Angew. Chem. Int. Ed.. 2019, 58, 12711 – 12716	Jianyu Han, 唐志勇
412	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient Z - Scheme Photocatalyst	Angew. Chem. Int. Ed.. 2019, 58, 11329 – 11334	Pengfei Wang, Sihui Zhan
413	A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation	Angew. Chem. Int. Ed.. 2019, 58, 18388 – 18393	Huang Zhou, 吴宇恩
414	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis	Angew. Chem. Int. Ed.. 2019, 58, 736 – 740	Daojin Zhou, Yun Kuang & Xiaoming Sun & Bin Liu
415	Aqueous CO_2 Reduction with High Efficiency Using α - $Co(OH)_2$ - Supported Atomic Ir Electrocatalysts	Angew. Chem. Int. Ed.. 2019,58,4669 – 4673	Xiaofu Sun, 韩布兴
416	A Control over Hydrogenation Selectivity of Furfural via Tuning Exposed Facet of Ni Catalysts	ACS Catal.. 2019, 9, 5, 4226-4235	Xiaoyu Meng, 张欣 & 卫敏
417	Au $\delta-$ – Ov – Ti^{3+} Interfacial Site: Catalytic Active Center toward Low-Temperature Water Gas Shift Reaction	ACS Catal.. 2019, 9, 4, 2707-2717	Ning Liu, 郑黎荣 & 卫敏

418	Highly Dispersed and Crystalline Ta_2O_5 Anchored Pt Electrocatalyst with Improved Activity and Durability Toward Oxygen Reduction: Promotion by Atomic-Scale Pt－Ta_2O_5 Interactions	ACS Catal.. 2019, 9, 4, 3278-3288	Wenbin Gao, 窦美玲 & 王峰
419	Controllable in Situ Surface Restructuring of Cu Catalysts and Remarkable Enhancement of Their Catalytic Activity	ACS Catal.. 2019, 9, 3, 2213-2221	Xiaohui He, Haichao Liu
420	Identifying Oxygen Activation/Oxidation Sites for Efficient Soot Combustion over Silver Catalysts Interacted with Nanoflower-Like Hydrotalcite-Derived CoAlO Metal Oxides	ACS Catal.. 2019, 9, 9, 8772-8784	Wei Ren, 李新刚
421	Rational Design of Fe－N/C Hybrid for Enhanced Nitrogen Reduction Electrocatalysis under Ambient Conditions in Aqueous Solution	ACS Catal.. 2019, 9, 1, 336-344	Ying Wang, Xiaoqiang Cui & 郑伟涛
422	Atomic Ru Immobilized on Porous h-BN through Simple Vacuum Filtration for Highly Active and Selective CO_2 Methanation	ACS Catal.. 2019, 9, 11, 10077-10086	Mengmeng Fan, Pulickel M. Ajayan
423	Beating the exclusion rule against the coexistence of robust luminescence and ferromagnetism in chalcogenide monolayers	Nature Communications. volume 10, Article number: 1584 (2019)	Hengli Duan, 闫文盛 & 孙治湖 & 韦世强
424	Direct conversion of CO and H_2O into liquid fuels under mild conditions	Nature Communications. volume 10, Article number: 1389 (2019)	Yao Xu, Zhen Yin & Yong Cao & 马丁
425	Coordination mode engineering in stacked-nanosheet metal－organic frameworks to enhance catalytic reactivity and structural robustness	Nature Communications. volume 10, Article number: 2779 (2019)	Chuanhui Huang, Zhenyu Lin & 王铁
426	Single atom tungsten doped ultrathin α-$Ni(OH)_2$ for enhanced electrocatalytic water oxidation	Nature Communications. volume 10, Article number: 2149 (2019)	Junqing Yan, Youyong Li & Shengzhong Liu & Tianyi Ma
427	Selective electroreduction of carbon dioxide to methanol on copper selenide nanocatalysts	Nature Communications. volume 10, Article number: 677 (2019)	Dexin Yang, Qinggong Zhu & 韩布兴
428	Over 56.55% Faradaic efficiency of ambient ammonia synthesis enabled by positively shifting the reaction potential	Nature Communications. 10, Article number: 341 (2019)	Mengfan Wang, Tao Qian & Chenglin Yan
429	Boosting oxygen evolution of single-atomic ruthenium through electronic coupling with cobalt-iron layered double hydroxides	Nature Communications. volume 10, Article number: 1711 (2019)	Pengsong Li, Zhenxing Feng & 刘文 & 孙晓明

430	Visible-light-switched electron transfer over single porphyrin-metal atom center for highly selective electroreduction of carbon dioxide	Nature Communications. 10, Article number: 3844 (2019)	Deren Yang, Xun Wang
431	Manganese acting as a high-performance heterogeneous electrocatalyst in carbon dioxide reduction	Nature Communications. 10, Article number: 2980 (2019)	Bingxing Zhang, 张建玲
432	A universal ligand mediated method for large scale synthesis of transition metal single atom catalysts	Nature Communications. 10, Article number: 4585 (2019)	Hongzhou Yang, Lin Gu & 张铁锐
433	Regulating the coordination structure of single-atom Fe-NxCy catalytic sites for benzene oxidation	Nature Communications. 10, Article number: 4290 (2019)	Yuan Pan, Chenguang Liu & Chen Chen
434	A versatile route to fabricate single atom catalysts with high chemoselectivity and regioselectivity in hydrogenation	Nature Communications. 10, Article number: 3663 (2019)	Xiaohui He, 马丁 & Binghui Ge & Hongbing Ji
435	Proton mediated spin state transition of cobalt heme analogs	Nature Communications. 10, Article number: 2303 (2019)	Jianping Zhao, Jianfeng Li
436	Reversing the charge transfer between platinum and sulfur-doped carbon support for electrocatalytic hydrogen evolution	Nature Communications. 10, Article number: 4977 (2019)	严强强，吴小军 & 梁海伟
437	Single-atom cobalt array bound to distorted 1T MoS_2 with ensemble effect for hydrogen evolution catalysis	Nature Communications. 10, Article number: 5231 (2019)	Kun Qi, Xiaoqiang Cui & Shaojun Guo & 郑伟涛
438	Platinum‐copper single atom alloy catalysts with high performance towards glycerol hydrogenolysis	Nature Communications. 10, Article number: 5812 (2019)	Xi Zhang, Xin Zhang & 郑黎荣 & Song Hong & 卫敏
439	Ultrastable Au nanoparticles on titania through an encapsulation strategy under oxidative atmosphere	Nature Communications. 10, Article number: 5790 (2019)	Shaofeng Liu, Junhu Wang
440	Vapour-phase-transport rearrangement technique for the synthesis of new zeolites	Nature Communications. 10, Article number: 5129 (2019)	Valeryia Kasneryk, Zhenlin Luo & Maksym Opanasenko
441	Designing Highly Efficient and Long‐Term Durable Electrocatalyst for Oxygen Evolution by Coupling B and P into Amorphous Porous NiFe‐Based Material	Small. 2019, 1901020	Fei Hu, Xiaojun Wu & 熊宇杰 & Zhenmeng Peng

442	Silk-Derived 2D Porous Carbon Nanosheets with Atomically-Dispersed Fe-Nx-C Sites for Highly Efficient Oxygen Reaction Catalysts	Small. 2019, 15, 1804966	Chunya Wang, Yingying Zhang
443	Amorphous Ruthenium - Sulfide with Isolated Catalytic Sites for Pt - Like Electrocatalytic Hydrogen Production Over Whole pH Range	Small. 2019, 15, 1904043	Pengsong Li, Haohong Duan & Yun Kuang & Xiaoming Su
444	A copper single-atom catalyst towards efficient and durable oxygen reduction for fuel cells	J. Mater. Chem. A. 2019, 7, 16690-16695	Liting Cui, Haining Wang & Shanfu Lu & Yan Xiang
445	Tuning the activity of N-doped carbon for CO_2 reduction via in situ encapsulation of nickel nanoparticles into nano-hybrid carbon substrates	J. Mater. Chem. A. 2019, 7, 6894-6900	Cheng-Zong Yuan, Hong-Bao Li & An-Wu Xu
446	A highly efficient alkaline HER Co – Mo bimetallic carbide catalyst with an optimized Mo d-orbital electronic state	J. Mater. Chem. A. 2019, 7, 12434-12439	Gejun Liu, 张波 & 彭慧胜
447	The 3d – 5d orbital repulsion of transition metals in oxyhydroxide catalysts facilitates water oxidation	J. Mater. Chem. A. 2019, 7, 14455-14461	Lie Wang, Youyong Li & 张波 & 彭慧胜
448	Framework Cu-doped boron nitride nanobelts with enhanced internal electric field for effective Fenton-like removal of organic pollutants	J. Mater. Chem. A. 2019, 7, 6946-6956	Lingfei Li, Lili Zhang
449	Single-atom catalysts templated by metal – organic frameworks for electrochemical nitrogen reduction	J. Mater. Chem. A. 2019, 7, 26371-26377	Rui Zhang, 江海龙
450	Accelerated proton transmission in metal – organic frameworks for the efficient reduction of CO_2 in aqueous solutions	J. Mater. Chem. A. 2019, 7, 23055-23063	Fangxin Mao, 杨化桂
451	Significantly improved Li-ion diffusion kinetics and reversibility of Li_2O in a MoO_2 anode: the effects of oxygen vacancy-induced local charge distribution and metal catalysis on lithium storage	J. Mater. Chem. A. 2019, 7, 17570-17580	Tao Meng, 曹敏花
452	Large Negative Thermal Expansion Induced by Synergistic Effects of Ferroelectrostriction and Spin Crossover in $PbTiO_3$ –Based Perovskites	Chemistry of Materials . 2019, 31, 4, 1296-1303	Zhao Pan, Jun Chen
453	F – -Induced Tunable Perovskite Structure and Impressive Spin Polarization in $SrCoO_3$	Chem. Mater.. 2019, 31, 22, 9453-9461	Zezhi Chen, Ranran Peng & 陆亚林
454	CuxNiy alloy nanoparticles embedded in a nitrogen – carbon network for efficient conversion of carbon dioxide	Chem. Sci.. 2019, 10, 4491-4496	Dongxing Tan, 张建玲

455	Single Ru atoms with precise coordination on a monolayer layered double hydroxide for efficient electrooxidation catalysis	Chem. Sci.. 2019, 10, 378-384	Zelin Wang, Yufei Zhao & 宋宇飞
456	Achieving efficient and robust catalytic reforming on dual-sites of Cu species	Chem. Sci.. 2019, 10, 2578-2584	马奎，Jinlong Gong & 李新刚
457	Support morphology-dependent alloying behaviour and interfacial effects of bimetallic Ni – Cu/CeO_2 catalysts	Chem. Sci.. 2019, 10, 3556-3566	Yanan Liu, Junting Feng & James A. Anderson
458	Hierarchically porous carbons as supports for fuel cell electrocatalysts with atomically dispersed Fe – Nx moieties	Chem. Sci.. 2019, 10, 8236-8240	童磊，Xinliang Feng & 梁海伟
459	Enhanced CO_2 electroreduction via interaction of dangling S bonds and Co sites in cobalt phthalocyanine/$ZnIn_2S_4$ hybrids	Chem. Sci.. 2019, 10, 1659-1663	Chunjun Chen, 韩布兴
460	Atomically dispersed Ni as the active site towards selective hydrogenation of nitroarene	Green Chem.. 2019, 21, 704-711	Fan Yang, 李永锋 等
461	Selective hydrogenation of furfural on intermetallic compounds with outstanding catalytic performance	Green Chem.. 2019, 21, 5352-5362	Yusen Yang, 张欣 & 卫敏
462	Boosting the activity of catalytic oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran over nitrogen-doped manganese oxide catalysts	Green Chem.. 2019, 21, 4313-4318	Qingping Ke, Peixin Cui & Ping Cui
463	Highly active zigzag-like Pt-Zn alloy nanowires with high-index facets for alcohol electrooxidation	Nano Research. May 2019, Volume 12, Issue 5, pp 1173 – 1179	Yanchao Xu, Xiaoqiang Cui & 郑伟涛
464	Nitrogen-carbon layer coated nickel nanoparticles for efficient electrocatalytic reduction of carbon dioxide	Nano Research. May 2019, Volume 12, Issue 5, pp 1167 – 1172	Dongxing Tan, Zhixun Luo & 张建玲
465	Illumining phase transformation dynamics of vanadium oxide cathode by multimodal techniques under operando conditions	Nano Research. April 2019, Volume 12, Issue 4, pp 905 – 910	Guobin Zhang, Yunlong Zhao & 麦立强
466	Nitrogen-Doped Carbon Cages EncapsulatingCuZn Alloy for Enhanced CO_2 Reduction	ACS Appl. Mater. Interfaces. 2019, 11, 28, 25100-25107	Xiaosong Hu, Qingxin Guan & Wei Li
467	Reconstructing the Surface Structure of Li-Rich Cathodes for High-Energy Lithium-Ion Batteries	ACS Appl. Mater. Interfaces. 2019, 11, 22, 19950-19958	Jianming Fan, Liping Li
468	Insight into the Superior Electrocatalytic Performance of a Ternary Nickel Iron Poly-Phosphide Nanosheet Array: An X-ray Absorption Study	ACS Appl. Mater. Interfaces. 2019, 11, 15, 14059-14065	Xiaodeng Wang, Shijian Chen & Jinhua Li

469	A Novel Graphdiyne-Based Catalyst for Effective Hydrogenation Reaction	ACS Appl. Mater. Interfaces. 2019, 11 (3), pp 2563－2570	Han Shen, 李永军 & Zhiqiang Shi
470	A “MOF-Protective-Pyrolysis” Strategy for the Preparation of Fe－N－C Catalysts and the Role of Fe, N, and C in the Oxygen Reduction Reaction in Acidic Medium	ACS Appl. Mater. Interfaces. 2019, 11, 39, 35755-35763	Yinling Wang, Maoguo Li
471	Subnano Amorphous Fe-Based Clusters with High Mass Activity for Efficient Electrocatalytic Oxygen Reduction Reaction	ACS Appl. Mater. Interfaces. 2019, 11, 44, 41432-41439	Lingyun Liu, 刘庆华
472	Sorption of Eu(III) on MXene-derived titanate structures: The effect of nano-confined space	Chemical Engineering Journal. Volume 370, 15 August 2019, Pages 1200-1209	张鹏, 石伟群
473	Enhanced adsorption removal of arsenic from mining wastewater using birnessite under electrochemical redox reactions	Chemical Engineering Journal. Volume 375, 1 November 2019, 122051	Lihu Liu, 邱国红
474	Visible‐Light‐Driven Photocatalytic Z‐Scheme Overall Water Splitting in La5Ti2AgS5O7‐based Powder‐Suspension System	ChemSusChem. 2019, 12, 1906－1910	Zhimin Song, Song Sun & Kazunari Domen
475	2D Hybrid of Ni‐LDH Chips on Carbon Nanosheets as Cathode of Zinc－Air Battery for Electrocatalytic Conversion of O_2 into H_2O_2	ChemSusChem. 2019, 12, 1－9	Junheng Huang, 韦世强 & Zhenhai Wen & Jinghong Li
476	Rational Localization of Metal Nanoparticles in Yolk－Shell MOFs for Enhancing Catalytic Performance in Selective Hydrogenation of Cinnamaldehyde	ChemSusChem. 2019,12,1－8	Awu Zhou, Jian-Rong Li
477	Boosting Alkaline Hydrogen Evolution Electrocatalysis over Metallic Nickel Sites through Synergistic Coupling with Vanadium Sesquioxide	ChemSusChem. 2019, 12, 5063－5069	Xin Yu Zhang, PengFei Liu & 杨化桂
478	Metal and acid sites instantaneously prepared over Ni/SAPO-11 bifunctional catalyst	Journal of Catalysis. Volume 374, June 2019, Pages 208-216	Yuchao Lyu, Xinmei Liu
479	Cobalt nanoparticles confined in carbon matrix for probing the size dependence in Fischer-Tropsch synthesis	Journal of Catalysis. Volume 369, January 2019, Pages 143-156	Qun-Xing Luo, Zhong-Wen Liu
480	Nickel catalyst with atomically-thin meshed cobalt coating for improved durability in dry reforming of methane	Journal of Catalysis. Volume 373, May 2019, Pages 351-360	曹坤, 陈蓉 & 单斌
481	A silica-confined strategy for completely atomic level Fe(II)-N-C catalysts with a non-planar structure toward oxygen reduction reaction	Journal of Catalysis. Volume 370, February 2019, Pages 21-29	Min Liu, 刘景军 & 王峰

482	Metal-organic framework encapsulated single-atom Pt catalysts for efficient photocatalytic hydrogen evolution	Journal of Catalysis. Volume 375, July 2019, Pages 351-360	Jian Li, Xi Wang & Chongli Zhong
483	Enhanced Cr(VI) immobilization on goethite derived from an extremely acidic environment	Environ. Sci.: Nano. 2019, 6, 2185-2194	Xiaobing Wang, Lizhi Zhang
484	Molecular-scale structures of uranyl surface complexes on hematite facets	Environ. Sci.: Nano. 2019, 6, 892-903	Xiaopeng Huang, Lan Ling & Lizhi Zhang
485	Insights into the facet-dependent adsorption of phenylarsonic acid on hematite nanocrystals	Environ. Sci.: Nano. 2019, 6, 3280-3291	Shiyu Cao, Falong Jia & Lizhi Zhang
486	The fate of rhenium in polyaminocarboxy solution: Hourglass crystal and its speciation study	Journal of Hazardous Materials. Volume 375, 5 August 2019, Pages 78-85	Zhihai Fu, Chuanqin Xia
487	The long-term stability of FeIII-AsV coprecipitates at pH 4 and 7: Mechanisms controlling the arsenic behavior	Journal of Hazardous Materials. Volume 374, 15 July 2019, Pages 276-286	Danni Zhang, 王少峰 & 贾永峰
488	Study on the effects of oxygen-containing functional groups on Hg0 adsorption in simulated flue gas by XAFS and XPS analysis	Journal of Hazardous Materials. Volume 376, 15 August 2019, Pages 21-28	Jinjing Luo
489	Improved removal capacity of magnetite for Cr(VI) by electrochemical reduction	Journal of Hazardous Materials. Volume 374, 15 July 2019, Pages 26-34	Xiong Yang, 邱国红
490	Promotion of hydrogen peroxide production on graphene-supported atomically dispersed platinum: Effects of size on oxygen reduction reaction pathway	Journal of Power Sources. Volume 435, 30 September 2019, 226771	Xiaozhe Song, Hui Wang & Zhaoyong Bian
491	Stable single-atom platinum catalyst trapped in carbon onion graphitic shells for improved chemoselective hydrogenation of nitroarenes	Carbon. Volume 143, March 2019, Pages 378-384	Xiaoli Yan, Fengwei Zhang & JunjieGuo
492	First-row transition metals and nitrogen co-doped carbon nanotubes: The exact origin of the enhanced activity for oxygen reduction reaction	Carbon. Volume 143, March 2019, Pages 859-868	Tuanfeng Li, 刘景军 & 王峰
493	Highly active metallic nickel sites confined in N-doped carbon nanotubes toward significantly enhanced activity of CO_2 electroreduction	Carbon. Volume 150, September 2019, Pages 52-59	Wanzhen Zheng, Feng He
494	General Water-Induced Self-Exfoliation Strategy for the Ultrafast and Large-Scale Synthesis of Metal Hydroxide Nanosheets	J. Phys. Chem. Lett.. 2019, 10, 21, 6695-6700	Rui Gao, 刘向峰
495	Monoatomic Platinum-Anchored Metallic MoS_2: Correlation between Surface Dopant and Hydrogen Evolution	J. Phys. Chem. Lett.. 2019, 10, 20, 6081-6087	Chuanqiang Wu, 陈双明 & 宋礼

496	Effective Removal of Anionic Re(VII) by Surface-Modified Ti_2CTx MXene Nanocomposites: Implications for Tc(VII) Sequestration	Environ. Sci. Technol.. 2019, 53, 7, 3739-3747	Lin Wang, 石伟群
497	Tuning Pb(II) Adsorption from Aqueous Solutions on Ultrathin Iron Oxychloride (FeOCl) Nanosheets	Environ. Sci. Technol.. 2019, 53, 4, 2075-2085	Jinming Luo, Meng Sun & Menachem Elimelech
498	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis	Environ. Sci. Technol.. 2019, 53, 19, 11391-11400	Yu Yin, Shaobin Wang & Hongqi Sun
499	Efficient Photocatalytic Reduction of Aqueous Perrhenate and Pertechnetate	Environ. Sci. Technol.. 2019, 53, 18, 10917-10925	Hao Deng, 石伟群
500	Solar Irradiation Induced Transformation of Ferrihydrite in the Presence of Aqueous Fe^{2+}	Environ. Sci. Technol.. 2019, 53, 15, 8854-8861	Zhipeng Shu, 邱国红
501	Local Chemistry Engineering in Doped Photonic Glass for Optical Pulse Generation	Adv. Optical Mater.. 2019, 7, 1801413	Jiejie Chen, Shifeng Zhou & Haohai Yu
502	Interfacial N – Cu – S coordination mode of CuSCN/C3N4 with enhanced electrocatalytic activity for hydrogen evolution	Nanoscale. 2019, 11, 12938-12945	Ziming Zhao, Jiantai Ma
503	Interface-Engineering-Induced Electric Field Effect and Atomic Disorder in Cobalt Selenide for High-Rate and Large-Capacity Lithium Storage	ACS Sustainable Chem. Eng.. 2019, 7, 5, 4657-4665	Tao Meng, 曹敏花
504	$[MW_{12}O_{44}]$ clusters: unprecedented central heteroatoms atomically dispersed in the eight coordination state bridging the 1[thin space (1/6-em)]:[thin space (1/6-em)]12 polyoxometalate family of Keggin and Silverton	Nanoscale. 2019, 11, 22270-22276	Yongdong Chen, 张江威 & Gao Li
505	Fe – N – C Single-Atom Nanozymes for the Intracellular Hydrogen Peroxide Detection	Anal. Chem.. 2019, 91, 18, 11994-11999	Lei Jiao, Chengzhou Zhu
506	2D MOF induced accessible and exclusive Co single sites for an efficient O-silylation of alcohols with silanes	Chem. Commun.. 2019, 55, 6563-6566	Xin Wang, 吴宇恩 & 李亚栋
507	Unraveling the enzyme-like activity of heterogeneous single atom catalyst	Chem. Commun.. 2019, 55, 2285-2288	Chao Zhao, 吴宇恩
508	A pyrolysis – phosphorization approach to fabricate carbon nanotubes with embedded CoP nanoparticles for ambient electrosynthesis of ammonia	Chem. Commun.. 2019, 55, 12376-12379	Shengbo Zhang, Tongfei Shi & Haimin Zhang

509	A metal-catalyzed thermal polymerization strategy toward atomically dispersed catalysts	Chem. Commun.. 2019, 55, 11579-11582	陈林维，梁海伟
510	Carbon nanotube-encapsulated cobalt for oxygen reduction: Integration of space confinement and N-doping	Chem. Commun.. 2019, 55, 14801-14804	Qichen Wang, 雷永鹏
511	Bismuth oxyiodide microflower-derived catalysts for efficient CO_2 electroreduction in a wide negative potential region	Chem. Commun.. 2019, 55, 12392-12395	Peng Fei Liu, 杨化桂
512	Poly-phenylenediamine-derived atomically dispersed Ni sites for the electroreduction of CO_2 to CO	Inorg. Chem. Front.. 2019,6, 1729-1734	Yonglong Zheng, Yan Gao, 唐志勇
513	Improved NO－CO reactivity of highly dispersed Pt particles on CeO_2 nanorod catalysts prepared by atomic layer deposition	Catal. Sci. Technol.. 2019, 9, 2664-2672	Quan Hu, 曹坤 & 单斌
514	Enhancing electrostatic interactions to activate polar molecules: ammonia borane methanolysis on a $Cu/Co(OH)_2$ nanohybrid	Catal. Sci. Technol.. 2019, 9, 2828-2835	Qian-Qian Chen, Yong Chen
515	Powerful CO_2 electroreduction performance with N－carbon doped with single Ni atoms	Catal. Sci. Technol.. 2019, 9, 3669-3674	Cheng-Zong Yuan, 徐安武
516	Activity enhancement of Pt/MnOx catalyst by novel β-MnO_2 for low-temperature CO oxidation: study of the CO－O_2 competitive adsorption and active oxygen species	Catal. Sci. Technol.. 2019, 9, 347-354	Ningqiang Zhang, Hong He
517	Lead binding to wild metal-resistant bacteria analyzed by ITC and XAFS spectroscopy	Environmental Pollution. Volume 250, July 2019, Pages 118-126	Hansong Chen, 方临川
518	Cd^{2+} adsorption performance of tunnel-structured manganese oxides driven by electrochemically controlled redox	Environmental Pollution. Volume 244, January 2019, Pages 783-791	Lihu Liu, 邱国红
519	Adsorption of Eu(III) and Th(IV) on three-dimensional graphene-based macrostructure studied by spectroscopic investigation	Environmental Pollution. Volume 248, May 2019, Pages 82-89	Zhi-Wei Huang, 石伟群
520	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation	Science of The Total Environment. Volume 672, 1 July 2019, Pages 572-582	Jianhong Li, Weidong Wu & HailongWang
521	The use of calcium carbonate-enriched clay minerals and diammonium phosphate as novel immobilization agents for mercury remediation: Spectral investigations and field applications	Science of The Total Environment. Volume 646, 1 January 2019, Pages 1615-1623	Jianxu Wang, 冯新斌
522	Spectral insight into thiosulfate-induced mercury speciation transformation in a historically polluted soil	Science of The Total Environment. Volume 657, 20 March 2019, Pages 938-944	Ting Liu, Jianxu Wang & 冯新斌

523	Formation of Zn-Al layered double hydroxides (LDH) during the interaction of ZnO nanoparticles (NPs) with γ-Al_2O_3	Science of The Total Environment. Volume 650, Part 2, 10 February 2019, Pages 1980-1987	Biao Wan, 冯雄汉
524	Cold pressing-built microreactors to thermally manipulate microstructure of MXene film as an anode for high-performance lithium-ion batteries	Electrochimica Acta. Volume 305, 10 May 2019, Pages 11-23	Yu Cui, Jinwen Qin & 曹敏花
525	Fe-doped Co_3O_4@C nanoparticles derived from layered double hydroxide used as efficient electrocatalyst for oxygen evolution reaction	Journal of Energy Chemistry. Volume 32, May 2019, Pages 63-70	Caiyun He, 孔祥贵 & 雷晓东
526	Ice/Salt‐Assisted Synthesis of Ultrathin Two‐Dimensional Micro/Mesoporous Iron and Nitrogen Co‐Doped Carbon as an Efficient Electrocatalyst for Oxygen Reduction	Chem. Eur. J.. 2019, 25, 5768‐5776	Hanyu Li, 窦美玲 & 王峰
527	A Facile Way to Construct Effective Cu‐Nx Active sites for Oxygen Reduction Reaction	Chem. Eur. J.. 2019, 25, 1‐11	Jianping He,
528	Devisable POM/Ni Foam Composite: Precisely Control Synthesis toward Enhanced Hydrogen Evolution Reaction at High pH	Chem. Eur. J.. 2019,25,1‐8	Xueying Jia, 宋宇飞
529	New insights into the chemical forms of extremely high methylmercury in songbird feathers from a contaminated site	Chemosphere. Volume 225, June 2019, Pages 803-809	Zhidong Xu, Guangle Qiu
530	Fractions and colloidal distribution of arsenic associated with iron oxide minerals in lead-zinc mine-contaminated soils: Comparison of tailings and smelter pollution	Chemosphere. Volume 227, July 2019, Pages 614-623	Jie Ma, 雷梅
531	Efficient synthesis of the Cu-SAPO-44 zeolite with excellent activity for selective catalytic reduction of NOx by NH_3	Catalysis Today. Volume 332, 15 July 2019, Pages 35-41	Ying Xin, 张昭良
532	A noble-metal-free SCR-LNT coupled catalytic system used for high-concentration NOx reduction under lean-burn condition	Catalysis Today. Volume 327, 1 May 2019, Pages 347-356	Rui You, 李新刚
533	The promotional role of Nd on Mn/TiO_2 catalyst for the low-temperature NH3-SCR of Nox	Catalysis Today. Volume 332, 15 July 2019, Pages 49-58	Jun Huang, Licheng Liu
534	High Pt utilization efficiency of electrocatalysts for oxygen reduction reaction in alkaline media	Catalysis Today. Volume 332, 15 July 2019, Pages 101-108	Ningqiang Zhang, Hong He & Jinsheng Zhao
535	Enhancing the Catalytic Activity of Co_3O_4 Nanosheets for Li-O_2 Batteries by the Incoporation of Oxygen Vacancy with Hydrazine Hydrate Reduction	Inorg. Chem.. 2019, 58, 8, 4989-4996	Rui Gao, Limei Sun & Xiangfeng Liu

536	Arousing the Reactive Fe Sites in Pyrite (FeS_2) via Integration of Electronic Structure Reconfiguration and in Situ Electrochemical Topotactic Transformation for Highly Efficient Oxygen Evolution Reaction	Inorg. Chem.. 2019, 58, 11, 7615-7627	Zhi Tan, 曹敏花
537	Constructing Conductive Bridge Arrays between Ti3C2Tx MXene Nanosheets for High-Performance Lithium-Ion Batteries and Highly Efficient Hydrogen Evolution	Inorg. Chem.. 2019, 58, 24, 16524-16536	Xin Wang, Jinwen Qin & 曹敏花
538	Encapsulating Carbon‐Coated MoS_2 Nanosheets within a Nitrogen‐Doped Graphene Network for High‐Performance Potassium‐Ion Storage	Adv. Mater. Interfaces. 2019, 1901066	Jingyuan Zhang, 陶石 & 储旺盛
539	Mononuclear iron-dependent electrocatalytic activity of metal-nitrogen-carbon catalysts for efficient oxygen reduction reaction	Applied Catalysis A: General. Volume 583, 5 August 2019, 117120	Min Liu, 刘景军 & 王峰
540	XAFS Studies of Fe–SiO_2 Fischer‐Tropsch Catalyst During Activation in CO, H_2, and Synthesis Gas	ChemCatChem. 2019, 11, 2206‐2216	Qiang Chang, 张成华
541	Precise Control of the Oriented Layered Double Hydroxide Nanosheets Growth on Graphene Oxides Leading to Efficient Catalysts for Cascade Reactions	ChemCatChem. 2019, 11, 1‐1	Wei Zhang, Haralampos N. Miras & 宋宇飞
542	Metal Ionic Liquids Produce Metal‐Dispersed Carbon‐Nitrogen Networks for Efficient CO_2 Electroreduction	ChemCatChem. 2019,11, 3166‐317	Xiuyan Cheng, 张建玲
543	Electronic Metal‐Support Interactions between Pt Nanoparticles and $Co(OH)_2$ Flakes for CO Oxidation	J. Phys. Chem. C. 2019, 123, 17, 10907-10916	Xueyang Song, 孙智慧
544	Unraveling the Low-Temperature Redox Behavior of Ultrathin Ceria Nanosheets with Exposed {110} Facets by in Situ XAFS/DRIFTS Utilizing CO as Molecule Probe	J. Phys. Chem. C. 2019, 123, 1, 322-333	张龙, 张静
545	Selective Selenium-Substituted Metallic $MoTe_2$ toward Ternary Atomic Layers with Tunable Semiconducting Character	J. Phys. Chem. C. 2019, 123, 40, 24927-24933	Zia ur Rehman, 吴小军 & Zhe Sun & 宋礼
546	Coordination Geometry Engineering in Doped Disordered Matrix for Tunable Optical Response	J. Phys. Chem. C. 2019, 123, 48, 29343-29352	Liting Lin, Shifeng Zhou
547	Influence of heavy metal sorption pathway on the structure of biogenic birnessite: Insight from the band structure and photostability	Geochimica et Cosmochimica Acta. Volume 256, 1 July 2019, Pages 116-134	李艳, 鲁安怀
548	Transformation of Co-containing birnessite to todorokite: Effect of Co on the transformation and implications for Co mobility	Geochimica et Cosmochimica Acta. Volume 246, 1 February 2019, Pages 21-40	Zhongkuan Wu, 刘凡 & 冯雄汉

549	The catalytic effect of AQDS as an electron shuttle on Mn(II) oxidation to birnessite on ferrihydrite at circumneutral pH	Geochimica et Cosmochimica Acta. Volume 247, 15 February 2019, Pages 175-190	Shuai Lan, 冯雄汉
550	Confirmation and elimination of cyclic electrolysis of uranium ions in molten salts	Electrochemistry Communications. Volume 103, June 2019, Pages 55-60	Ya-Lan Liu, 石伟群
551	Rapid-Heating-Triggered in Situ Solid-State Transformation of Amorphous TiO_2 Nanotubes into Well-Defined Anatase Nanocrystals	Cryst. Growth Des.. 2019, 19, 2, 1086-1094	Zhonghui Gao, Porun Liu & Yunhui Huang
552	Negative thermal expansion in cubic $FeFe(CN)_6$ Prussian blue analogues	Dalton Trans.. 2019, 48, 3658-3663	Naike Shi, Jun Chen
553	Effect of γ -manganite particle size on Zn^{2+} coordination environment during adsorption and desorption	Applied Clay Science. Volume 168, February 2019, Pages 68-76	Zhangjie Qin, Qin Zhang
554	Reaction mechanism of arsenic capture by a calcium-based sorbent during the combustion of arsenic-contaminated biomass: A pilot-scale experience	Frontiers of Environmental Science & Engineering. April 2019, 13:24	雷梅
555	Isolated zinc in mordenite stabilizing carbonylation of dimethyl ether to methyl acetate	Chinese Chemical Letters. Volume 30, Issue 2, February 2019, Pages 513-516	Zhitao Zhang, Ye Tian & 李新刚
556	Achieving High‐Temperature Stability of Metastable α‐MoC1‐x by Suppressing Phase Transformation with Mounted Atoms for Lithium Storage Performance	Chem. Asian J.. 2019, 14, 1977‐1984	Cheng Gao, Wei Guo, 曹敏花
557	Synthesis of $CdS_{1-X}Se_X$ quantum dots in a protozoa Tetrahymena pyriformis	Applied Microbiology and Biotechnology. January 2019, Volume 103, Issue 2, pp 973‐980	Yin-Hua Cui, Dong-Feng Liu
558	Insights into Pb(II) binding by Fe/Al hydroxide‐microbe composite: XAFS spectroscopy and isothermal titration calorimetry study	Chemical Geology. Volume 510, 5 April 2019, Pages 84-90	Huihui Du
559	Mobilization of ferrihydrite-associated organic carbon during Fe reduction: Adsorption versus coprecipitation	Chemical Geology. Volume 503, 5 January 2019, Pages 61-68	韩兰芳, 孙可
560	Arsenic redistribution and transformation during Fe(II)-catalyzed recrystallization of As-adsorbed ferrihydrite under anaerobic conditions	Chemical Geology. Volume 525, 20 October 2019, Pages 380-389	Guoqing Zhang, 王少峰
561	Potential-driven surface active structure rearrangement over FeP@NC towards efficient electrocatalytic hydrogen evolution	Phys. Chem. Chem. Phys.. 2019, 21, 7918-7923	Fumin Tang, Weiren Cheng
562	Ion Exchange of One-Pot Synthesized Cu-SAPO-44 with NH_4NO_3 to Promote Cu Dispersion and Activity for Selective Catalytic Reduction of NOx with NH_3	Catalysts. 2019, 9(11), 882	Nana Zhang, 张昭良

563	Synthesis and formation mechanism of self-assembled 3D flower-like Bi/ γ -Fe_2O_3 composite particle	CrystEngComm. 2019, 21, 2799-2808	刘云鹏，吴忠华
564	Sputtered Cu-ZnO/ γ -Al_2O_3 Bifunctional Catalyst with Ultra-Low Cu Content Boosting Dimethyl Ether Steam Reforming and Inhibiting Side Reactions	Ind. Eng. Chem. Res.. 2019, 58, 17, 7085-7093	Zhirui Sun, 李新刚
565	Adsorptive removal of strontium ions from aqueous solution by graphene oxide	Environmental Science and Pollution Research. 26, pages29669 – 29678(2019)	Min Xing, Jianlong Wang
566	Temperature-dependent XAFS study of the local lattice distortion of the CuO_2 plane in $Sr_2CuO_{3+\delta}$ powder sample	Physics Letters A. Volume 383, Issue 26, 12 September 2019, 125778	Haibo Wang, Zhenlin Luo & 靳常青 & Chen Gao
567	Local insight into the La-induced structural phase transition in multiferroic $BiFeO_3$ ceramics by x-ray absorption fine structure spectroscopy	Journal of Physics: Condensed Matter. 31 (2019) 085402 (9pp)	董俊才，贾全杰 & 陈栋梁
568	Tunable K vacancies in $K_{1-x}Co_2Se_2$ and their effects on structure and ferromagnetism	Journal of Magnetism and Magnetic Materials. Volume 490, 15 November 2019, 165473	Zhongnan Guo, Wenxia Yuan
569	Effects of Mn^{2+}, Ni^{2+}, and Cu^{2+} on the Formation and Transformation of Hydrosulfate Green Rust: Reaction Processes and Underlying Mechanisms	ACS Earth Space Chem.. 2019, 3, 4, 519-530	Xiaoming Wang, 冯雄汉
570	The Speciation of Cd in Cd – Fe Coprecipitates: Does Cd Substitute for Fe in Goethite Structure?	ACS Earth Space Chem.. 2019, 3, 10, 2225-2236	Lu Liu, 殷辉 & 刘凡
571	Investigation of structural and electrical properties of silico-ferrite of calcium (SFC) in the Fe_2O_3 – CaO – SiO_2 system synthesized by solid-state reaction	Journal of Materials Science: Materials in Electronics. August 2019, Volume 30, Issue 16, pp 15715 – 15723	Xiang Ding
572	High-Performance Chlorine-Doped Cu_2O Catalysts for the Ethynylation of Formaldehyde	Processes. 2019, 7(4), 198	高杰，董梅
573	Superconductivity related to local electronic and atomic structures in layered chalcogenide 1T-$TaS_{2-x}Se_x$	EPL. 128 (2019) 27004	Q. Hu, R. Ang
574	Adsorption of Cu(II) on soil humin: batch and spectroscopy studies	Environmental Earth Sciences. August 2019, 78:487	Cuilan Li, Jinjing Zhang
575	Germanium-isotope-driven distortion and disorder in clathrate framework	Chemical Physics. Volume 520, 1 April 2019, Pages 47-51	Zhengshang Wang, Jun Tang

576	Interactions of phosphorylated cyclohexapeptides with uranyl: insights from experiments and theoretical calculations	Journal of Radioanalytical and Nuclear Chemistry. November 2019, Volume 322, Issue 2, pp 677–689	Zhi-Hui Zhang, 袁立永 & 石伟群
577	Coupling Among Carriers and Phonons in Femtosecond Laser Pulses Excited $SrRuO_3$: A Promising Candidate for Optomechanical and Optoelectronic Applications	ACS Appl. Nano Mater.. 2019, 2, 3882−3888	Kang Wang, 吴小山
578	Highly Mesoporous Ru-MIL-125-NH_2 Produced by Supercritical Fluid for Efficient Photocatalytic Hydrogen Production	ACS Appl. Energy Mater.. 2019, 2, 7, 4964-4970	Fanyu Zhang, Lei Liu, 张建玲
579	Susceptible Surface Sulfide Regulates Catalytic Activity of CdSe Quantum Dots for Hydrogen Photogeneration	Advanced materials. 2019, 31, 1804872	Xiang-Bing Fan, 吴郦珠
580	Carbon dioxide electroreduction to C_2 products over copper-cuprous oxide derived from electrosynthesized copper complex	Nature Communications. 10, Article number: 3851 (2019)	Qinggong Zhu, Jun Ma, Zhonghua Wu & Buxing Han
581	Identification of FeN_4 as an Efficient Active Site for Electrochemical N_2 Reduction	ACS catalysis. 2019, 9, 7311−7317	Chao He, Yun Zhang, Jin-Song Hu
582	Integrating Catalysis of Methane Decomposition and Electrocatalytic Hydrogen Evolution with Ni/CeO_2 for Improved Hydrogen Production Efficiency	ChemSusChem. 2019, 12,1000–1010	Cai Zhang, 郑伟涛
583	Temperature-Dependent Structural Evolution in $Au_{44}Ga_{56}$ Liquid Eutectic Alloy	J. Phys. Chem. C . 2019, 123, 41, 25209-25219	Yu Su, 蒋建中
584	Effect of Nd/Mn substitution on the structure and magnetic properties of nano-$BiFeO_3$	Journal of Alloys and Compounds. Volume 786, 25 May 2019, Pages 385-393	YanWang, 陈栋梁
585	Synchrotron X-ray Absorption Spectroscopy Study of Local Structure in Al-Doped $BiFeO_3$ Powders	Nanoscale Research Letters. (2019) 14:137	Turghunjan Gholam, Hui-Qiong Wang
586	Novel X-ray sequences and crystal structures of Persian and Starry sturgeon methemoglobins: Highlighting the role of heme pocket waters in causing autoxidation	Biochimica et Biophysica Acta (BBA) - Proteins and Proteomics. Volume 1867, Issue 6, June 2019, Pages 586-594	ArefehSeyedarabi
587	Glycerol aerobic oxidation to glyceric acid over Pt/hydrotalcite catalysts at room temperature	Science Bulletin. Volume 64, Issue 23, 15 December 2019, Pages 1764-1772	JunboZhanga, 卫敏
588	Upgrade of laser pump time-resolved X-ray probes in Beijing synchrotron	J. Synchrotron Rad.. (2019). 26, 2075-2080	余灿, 陶冶

589	One-dimensional parallax-free position-sensitive detector for diffraction measurements based on a home-made thin THGEM	J. Synchrotron Rad.. 2019. 26,83-88	Shi Chen, Qian Liu
590	Porous CoP/C@MCNTs hybrid composite derived from metal – organic frameworks for high-performance lithium-ion batteries	Journal of Materials Science. February 2019, Volume 54, Issue 4, pp 3273 – 3283	Guanghua Jiao, Shi Tao, Bin Qian
591	Detection of high flux synchrotron radiation based on diamond detector for HEPS	NIMA. Volume 924, 21 April 2019, Pages 305-308	李贞杰
592	Effect of annealing atmosphere on scintillation properties of GYGAG:Ce,Mg scintillator ceramics	NIMA. Volume 942, 21 October 2019, 162360	Shuilin Chen, Long Zhang
593	APDROC: A Front-End ASIC for APD Array Detector in High Time-Resolved Synchrotron Experiments	IEEE Transactions on Nuclear Science. Volume 66,issue 10, August, 2019	周扬帆，李贞杰
594	Influence of energy bandwidth of pink beam on small angle X-ray scattering	Radiation Detection Technology and Methods. (2019) 3: 4	王山峰，刘鹏
595	Giant photoinduced lattice distortion in oxygen vacancy ordered $SrCoO_{2.5}$ thin films	Physical Review B. 100,144201 (2019)	Bingbing Zhang，陶冶
596	Nonrandomly distributed tungsten vacancies and interstitial boron trimers in tungsten tetraboride	J. Phys. Chem. C. 2019, 123, 48, 29314-29323	Juncai Dong, 陈栋梁
597	Study of the compression behavior and high-pressure strength of a-Si_3N_4 combining experimental and theoretical methods	AIP Advances, 2019, 9: 115311	Mingli Jiang, Zili Kou
598	Tuning Emission and Electron – Phonon Coupling in Lead-Free Halide Double Perovskite $Cs_2AgBiCl_6$ under Pressure	ACS Energy Lett., 2019, 4: 2975-2982	张龙，王凯，邹勃
599	Experimental observations of large changes in electron density distributions in β-Ge	PRB, 2019, 100: 224106	李蕊，沈国寅
600	Integrated MXene&$CoFe_2O_4$ electrodes with multi-level interfacial architectures for synergistic lithium-ion storage	Nanoscale,2019,11, 15037-15042	Lu Ming
601	S-Edge-rich MoxSy arrays vertically grown on carbon aerogels as superior bifunctional HER/OER electrocatalysts	Nanoscale,2019,11, 20284-20294	Cheng Yu

602	Elemental sulfur amendment enhance methylmercury accumulation in rice (Oryza sativa L.) grown in Hg mining polluted soil	Journal of Hazardous Materials, 2019, 379,120701	Li Yunyun
603	Boosting Oxygen Reduction Catalysis with Fe-N-4 Sites Decorated Porous Carbons toward Fuel Cells	ACS Catal.,2019, 9, 3, 2158 − 2163	Yang Zhengkun
604	In Situ Electrochemical Conversion of an Ultrathin Tannin Nickel Iron Complex Film as an Efficient Oxygen Evolution Reaction Electrocatalyst	Angewandte Chemie, 2019, 58, 3769-3773	Shi Yanmei
605	Effects of Single and Mixed Energy Sources on Intracellular Nanoparticles Synthesized by Acidithiobacillus ferrooxidans	Minerals,2019, 9(3), 163	Wu Lingbo
606	Defect Engineering of Oxygen-Deficient Manganese Oxide to Achieve High-Performing Aqueous Zinc Ion Battery	Adv. Energy Mater., 2019, 9, 1803815	Xiong Tin
607	Electron Compensation Effect Suppressed Silver Ion Release and Contributed Safety of Au@Ag Core-Shell Nanoparticles	Nano Lett., 2019, 19, 7, 4478 − 4489	Feng Yanlin
608	Directly transforming copper (I) oxide bulk into isolated single-atom copper sites catalyst through gas-transport approach	Nature Communications, 2019, 10, 3734	Yang Zhengkun
609	Understanding the superior sodium-ion storage in a novel $Na_{3.5}Mn_{0.5}V_{1.5}(PO_4)(_3)$ cathode	Energy Storage Mater., 2019, 23, 25-34	Zhang Jian
610	Engineering the Electronic Structure of Submonolayer Pt on Intermetallic Pd_3Pb via Charge Transfer Boosts the Hydrogen Evolution Reaction	J. Am. Chem. Soc.,2019, 141, 51, 19964 − 19968	Yao Yancai
611	Single-Atom Ru Doping Induced Phase Transition of MoS_2 and S Vacancy for Hydrogen Evolution Reaction	Small Methods, 2019, 3, 1900653	Zhang Junmeng

612	Engineering of $K_3YSi_2O_7$ To Tune Photoluminescence with Selected Activators and Site Occupancy	Chemistry of Materials,2019, 31, 18, 7770 – 7778	Qiao Jianwei
613	Arsenic in Rice Bran Products: In Vitro Oral Bioaccessibility, Arsenic Transformation by Human Gut Microbiota, and Human Health Risk Assessment	Journal of Agricultural and Food Chemistry,2019, 67, 17, 4987 – 4994	Yin Naiyi
614	Plant species-dependent transformation and translocation of ceria nanoparticles	Environmental Science: Nano,2019,6, 60-67	Zhang Peng
615	The identification of activeN species in N-doped carbon carriers that improve the activity of Fe electrocatalysts towards the oxygen evolution reaction	RSC Advances,2019,9, 4806-4811	Jia Jia
616	Blue afterglow of undoped $CaAl_2O_4$ nanocrystals	Europhysics Letters,2019, 127 17001	Zhai Bao-ga
617	A bismuth rich hollow $Bi_4O_5Br_2$ photocatalyst enables dramatic CO_2 reduction activity	Nano Energy,2019, 64, 103955	Jin Xiaoli
618	Mobilization of mercury species under dynamic laboratory redox conditions in a contaminated floodplain soil as affected by biochar and sugar beet factory lime	Science of The Total Environment, 2019, 672, 604-617	Felix Beckers
619	A Lattice-Oxygen-Involved Reaction Pathway to Boost Urea Oxidation	Angewandte Chemie, 131, 2019, 16976-16981	Zhang Longsheng
620	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS_2	Nano-Micro Letters,11, 102 (2019)	Ying Wang
621	Active Site Identification and Evaluation Criteria of In Situ Grown CoTe and NiTe Nanoarrays for Hydrogen Evolution and Oxygen Evolution Reactions	Small Methods, 3, 2019, 1900113	Yang Liu

622	A general route via formamide condensation to prepare atomically dispersed metalCnitrogenCcarbon electrocatalysts for energy technologies	Energy & Environmental Science,2019,12, 1317-1325	Zhang Guoxin
623	P-Doped $NiMoO_4$ parallel arrays anchored on cobalt carbonate hydroxide with oxygen vacancies and mass transfer channels for supercapacitors and oxygen evolution	J. Mater. Chem. A,2019,7, 19589-19596	Wang Feifei
624	NiCCoCO hole transport materials: gap state assisted hole extraction with superior electrical conductivity	J. Mater. Chem. A,2019,7, 20905-20910	Hou Yu
625	Manganese-Lead-Lead Dioxide Glass Ceramics as Electrode Materials	Journal of The Electrochemical Society,2019, 166 A3987	Rada, S.
626	Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability	Small, 15, 2019, 1900248	Kou Zongkui
627	A Reusable MOF-Supported Single-Site Zinc(II) Catalyst for Efficient Intramolecular Hydroamination of o-Alkynylanilines	Angewandte Chemie,131, 2019, 7769-7773	Li Beibei