

## Publications in 2018

No.	Title	Journal, Year, Volume, Pages	Authors
1	1D/1D Hierarchical Nickel Sulfide/Phosphide Nanostructures for Electrocatalytic Water Oxidation	ACS Energy Lett., 2018, 3 (9), pp 2021–2029	Huai Qin Fu, Pengfei Liu & Huagui Yang
2	2000~2800 eV 软 X 光入射 CsI(Tl)闪烁体的探测效率标定	Infrared and Laser Engineering, Vol.47 No.9 (2018)	Jing Wang, Minxi Wei
3	A 3D Calcium Spirobifluorene Metal-Organic Framework: Single-Crystal-to-Single-Crystal Transformation and Toluene Detection by a Quartz Crystal Microbalance Sensor	Inorganic chemistry, 57, 4, 1689, 2018	X. Fang, Z. Duan
4	A CaMnAl-hydroxalcalite solid basic catalyst toward the aldol condensation reaction with a comparable level to liquid alkali catalysts	Green Chem., 2018, 20, 3071-3080	Weihan Bing, Yangdong Wang & Min Wei
5	A comparative study on structures and magnetic properties of SmCo <sub>4</sub> B and SmCo <sub>3.1</sub> Fe <sub>0.9</sub> B ribbons	Physica B: Condensed Matter, 卷: 545, 页: 176–181, 2018	Chi Xiang, Sun Jibing, Zhang Ying
6	A convenient dynamic loading device for studying kinetics of phase transitions and metastable phases using symmetric diamond anvil cells	High Pressure Research, 2018, 38, 32-40	Hu Cheng, Yanchun Li
7	A flattened enantiornithine in mid-Cretaceous Burmese amber: morphology and preservation	Science Bulletin, 63, 235–243	Lida Xing, Ryan C. McKellar
8	A high temperature furnace for in-situ SAXS measurement of coal carbonisation	Int. J. Oil, Gas and Coal Technology, DOI: 10.1504/IJOGCT.2018.10017596	Fei Xie, Zhihong Li
9	A highly active and durable iron/cobalt alloy catalyst encapsulated in N-doped graphitic carbon nanotubes for oxygen reduction reaction by a nanofibrous dicyandiamide template	J. Mater. Chem. A, 2018, 6, 5962-5970	Li An, Dinguo Xia & Zaicheng Sun
10	A method to fabricate high-aspect-ratio microstructures using PMMA photoresist	Microsystem Technologies, 24, 1223-1226, 2018	Tianchong Zhang

11	A modified discrete tomography for improving the reconstruction of unknown multi-gray-level material in the 'missing wedge' situation	J. Synchrotron Rad., (2018). 25 1847-1859	Jianhong Liu, Yong Guan
12	A modular strategy for decorating isolated cobalt atoms into multichannel carbon matrix for electrocatalytic oxygen reduction	Energy & Environmental Science,2018, 11, 1980-1984	Huabin Zhang, Xiongwen Lou
13	A New Cretaceous Insect with a Unique Cephalothoracic Scissor Device	Current Biology, 28, 438-443, 2018	Ming Bai, Benjamin Wipfler
14	A new Sm(Co,Fe,Cu)4B/Sm2(Co,Fe,Cu)7 cell structure with the coercivity of up to 5.01 T	Journal of Magnetism and Magnetic Materials, 卷: 458, 页: 66-74, 2018	Chi Xiang, Sun Jibing
15	A Novel Graphdiyne-Based Catalyst for Effective Hydrogenation Reaction	ACS Appl. Mater. Interfaces, DOI: 10.1021/acsami.8b00566	Han Shen, Yongjun Li & Zhiqiang Shi
16	A novel material of nanoporous magnesium for hydrogen generation with salt water	Journal of Power Sources, 395 (2018) 8-15	Jingru Liu, Xiping Song
17	A Novel Method for Manufacturing High-Performance Layered Silicate/Epoxy Nanocomposites Using an Epoxy-Diamine Adduct to Enhance Compatibility and Interfacial Reactivity	MACROMOLECULAR MATERIALS AND ENGINEERING, 303(6),1800065, 2018	Ran Wei, Xiaoqun Wang
18	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogen - Doped Carbon - Nanosphere - Supported Metal Isolated - Single - Atomic - Site Catalysts	Advanced Materials,2018, 30, 1706508	Aijuan Han, Dingsheng Wang & Yadong Li
19	A Pyrolysis - Free Covalent Organic Polymer for Oxygen Reduction	Angew. Chem. Int. Ed.,2018, 130, 12747-12752	Jianning Guo, Zhenhai Xia & Zhonghua Xiang
20	A rationally designed Fe-tetrapyrrophenazine complex: a promising precursor to a single-atom Fe catalyst for an efficient oxygen reduction reaction in high-power Zn-air cells	Nanoscale,2018, 10, 16145- 16152	Zheng Kun Yang ,An-Wu Xu
21	A soft X-ray cryogenic radiometer built on BSRF	Radiat Detect Technol Methods,2(2): 1-6, 2018	Zhao xiaoliang, Zhao yidong
22	A versatile MOF-based trap for heavy metal ion capture and dispersion	Nature Communications, volume 9, Article number: 187 (2018)	Yaguang Peng, Hongliang Huang & Chongli Zhong

23	Absolute intensity calibration and application at BSRF SAXS station	Nuclear Inst. And Methods in Physics Research A, Volume 900, 2018, Pages 64-68	Fei Xie, Zhihong Li
24	Absorption, refraction and scattering retrieval in X-ray analyzer-based imaging	J. Synchrotron Rad., (2018). 25, 1206–1213	Zhili Wang
25	Acceleration of crystal transformation from crystal form II to form I in Polybutene-1 induced by nanoparticles	POLYMER, 150, 119-129, 2018	Xingxing Zhang, Zhaoyan Sun
26	Activating Titania for Efficient Electrocatalysis by Vacancy Engineering	ACS Catalysis,8, 4288 (2018)	Haifeng Feng, Yi Du
27	Active Sites Engineering toward Superior Carbon - Based Oxygen Reduction Catalysts via Confinement Pyrolysis	Small,2018, 14, 1800128	Sidi Wang, Hailong Jiang & Li Song
28	Adaptive weighted total variation regularized phase retrieval in differential phase-contrast imaging,	Optical Engineering, 57(5), 053108, 2018	Yan Wang ,Peiping Zhu
29	Addition of Pd on La <sub>0.7</sub> Sr <sub>0.3</sub> CoO <sub>3</sub> Perovskite To Enhance Catalytic Removal of NO <sub>x</sub>	Ind. Eng. Chem. Res.,2018, 57 (2), pp 521–531	Dongyue Zhao, Xingang Li
30	Aging shapes the distribution of copper in soil aggregate size fractions	Environ Pollut,233 (2018) 569-576	Qi Li, Wenli Chen
31	Alumina - Supported CoFe Alloy Catalysts Derived from Layered - Double - Hydroxide Nanosheets for Efficient Photothermal CO <sub>2</sub> Hydrogenation to Hydrocarbons	Advanced Materials,2018, 30, 1704663	Guangbo Chen, Tierui Zhang
32	Ammonia-Induced Size Convergence of Atomically Monodisperse Au <sub>6</sub> Nanoclusters	J. Phys. Chem. C,2018, 122 (11), pp 6405–6411	Ting Huang, Zhihu Sun & Yong Jiang
33	Amorphous FeCoPO <sub>x</sub> nanowires coupled to g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced interfacial electronic transfer for boosting photocatalytic hydrogen production	Applied Catalysis B: Environmental, Volume 238, 2018, Pages 161-167	Peng Zhou, Shaojun Guo
34	Amplified Spontaneous Emission Based on 2D Ruddlesden–Popper Perovskites	Advanced Functional Materials, 28(17): 1707006	Li Meili
35	An additive dripping technique using diphenyl ether for tuning perovskite crystallization for high-efficiency solar cells	Nano Research,11(5): 2648-2657, 2018	Huang Di

36	An efficient sodium-ion battery consisting of reduced graphene oxide An efficient sodium-ion battery consisting of reduced graphene oxide bonded Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> in a composite carbon network	Journal of Alloys and Compounds, 767 (2018) 131-140	Erlong Gu, Xiaosi Zhou
37	An IAEA multi-technique X-ray spectrometry endstation at Elettra Sincrotrone Trieste: benchmarking results and interdisciplinary applications	Journal of synchrotron radiation, 25(1): 189-203	Karydas, Andreas Germanos
38	Anchoring black phosphorus quantum dots on molybdenum disulfide	Applied Catalysis B: Environmental, 238 (2018) 444–453	Rongjuan Feng, Gang Liu
39	Anion De/Intercalation in Nickel Hydroxychloride Microspheres: A Mechanistic Study of Structural Impact on Energy Storage Performance of Multianion-Containing Layered Materials	ACS Appl. Energy Mater., 2018, 1 (4), pp 1522–1533	Sixian Fu, Guangshe Li
40	Anomalous compression behaviour in Nd <sub>2</sub> O <sub>3</sub> studied by x-ray diffraction and Raman spectroscopy	AIP ADVANCES, 2018, 8, 025019	Sheng Jiang
41	Applications of thin film plastic scintillator in measurement of soft x rays generated from Z-pinch implosion	REVIEW OF SCIENTIFIC INSTRUMENTS, 89, 103112 (2018)	Qingyuan Hu
42	Aromatic motifs dictate nanohelix handedness of Tripeptides	ACS Nano, 2018, DOI: 10.1021/acsnano.8b06173	Qiguo Xing, Yuefei Wang, Wei Qi
43	Arsenic associated with gypsum produced from Fe(III)-As(V) coprecipitation: Implications for the stability of industrial As-bearing waste	Journal of Hazardous Materials, Volume 360, 2018, Pages 311-318	Shaofeng Wang, Yongfeng Jia
44	Arsenic concentrations and speciation in wild birds from an abandoned realgar mine in China	Chemosphere, Volume 193, 2018, Pages 777-784	Fen Yang, Chaoyang Wei
45	Arsenic release and speciation during the oxidative dissolution of arsenopyrite by O <sub>2</sub> in the absence and presence of EDTA	Journal of Hazardous Materials, Volume 346, 2018, Pages 184-190	Shaofeng Wang, Yongfeng Jia
46	Assembly of Hollow Carbon Nanospheres on Graphene Nanosheets and Creation of Iron–Nitrogen-Doped Porous Carbon for Oxygen Reduction	ACS Nano, 2018, 12 (6), pp 5674–5683	Haibo Tan, Jing Tang & Yusuke Yamauchi
47	Assessment of heavy metals pollution of soybean grains in North Anhui of China	Science of the Total Environment, 646, 914–922, 2018	Tian Zhang, Zhenyan He

48	Atomic Cobalt Covalently Engineered Interlayers for Superior Lithium - Ion Storage	Advanced Materials, 2018, 30, 1802525	Changda Wang, Shuangming Chen & Li Song
49	Atomic Iridium Incorporated in Cobalt Hydroxide for Efficient Oxygen Evolution Catalysis in Neutral Electrolyte	Advanced Materials, 2018, 30, 1707522	Youkui Zhang, Hailong Jiang & Li Song
50	Atomic Iron Catalysis of Polysulfide Conversion in Lithium–Sulfur Batteries	ACS Appl. Mater. Interfaces, 10, 19311 (2018)	Zhenzhen Liu, Wen Yang
51	Atomically dispersed Au <sup>1</sup> catalyst towards efficient electrochemical synthesis of ammonia	Science Bulletin, Volume 63, Issue 19, 2018, Pages 1246-1253	Xiaoqian Wang, Yu'en Wu
52	Atomic-Level Co <sub>3</sub> O <sub>4</sub> Layer Stabilized by Metallic Cobalt Nanoparticles: A Highly Active and Stable Electrocatalyst for Oxygen Reduction	ACS Appl. Mater. Interfaces, 2018, 10 (8), pp 7052–7060	Min Liu, Jingjun Liu & Feng Wang
53	Au@Pd Bimetallic Nanocatalyst for Carbon–Halogen Bond Cleavage: An Old Story with New Insight into How the Activity of Pd is Influenced by Au	Environ. Sci. Technol., 2018, 52 (7), pp 4244–4255	Rui Liu
54	Ball-in-ball hierarchical design of P2-type layered oxide as high performance Na-ion battery cathodes	Electrochimica Acta, 265, 284-291, 2018	HuiXie, Wangsheng Chu
55	Band Gap Modulated by Electronic Superlattice in Blue Phosphorene	ACS Nano, 12, 5059 (2018)	Jincheng Zhuang, Yi Du
56	Bay - annulated indigo based near - infrared sensitive polymer for organic solar cells	Journal of Polymer Science Part A: Polymer Chemistry, 56(2): 213-220, 2018	Zhu Jingshuai
57	Bifunctional CO oxidation over Mn-mullite anchored Pt sub-nanoclusters via atomic layer deposition	Chem. Sci., 2018, 9, 2469-2473	Xiao Liu, Bin Shan & Rong Chen
58	Binding of Cd by ferrihydrite organo-mineral composites: Implications for Cd mobility and fate in natural and contaminated environments	Chemosphere, Volume 207, 2018, Pages 404-412	Huihui Du, Caroline L. Peacock & Qiaoyun Huang
59	Bio-inspired FeN <sub>5</sub> moieties anchored on a three-dimensional graphene aerogel to improve oxygen reduction catalytic performance	J. Mater. Chem. A, 2018, 6, 18488-18497	Jianshe Huang, Xiurong Yang
60	Biomimetic twisted plywood structural materials	National Science Review, 5:703-714, 2018	Si-Ming Chen, Shu-Hong Yu

61	Biphenyl Triarylamine Hole Transport Material for Highly Efficient and Low-Temperature Solution-Processed p-i-n Perovskite Solar Cells	Journal of Nanoscience and Nanotechnology,18(11): 7374-7379, 2018	Meng Juan
62	Bisphenylsulfone- based polycatenar mesogens via CuAAC click reaction: Self-assembly and their applications in waterpurification	Tetrahedron,74, 2735-2742, 2018	Huifang Cheng, Xiaohong Cheng
63	Black Phosphorus Quantum Dot Ti3C2 MXene Nanosheet Composites for Efficient Electrochemical Lithium Sodium-Ion Storage	Advanced Energy Materials, 2018, 1801514	Ruijin Meng, Jinhu Yang
64	Boosting the thermoelectric performance of misfit-layered (SnS)1.2(TiS2)2 by a Co- and Cu-substituted alloying effect	J. Mater. Chem. A, 2018, 6, 22909-22914	Cong Yin, Ran Ang
65	Bridge-type interface optimization on a dual-semiconductor heterostructure toward high performance overall water splitting	J. Mater. Chem. A, 2018, 6, 7871-7876	Chong Wang, Jingbin Han & Min Wei
66	Bright multicolor emitting phosphors Ba2Gd(BO3)2Cl: RE3+(RE = Dy,Sm, Tb, Eu) for multifunctional application	Journal of Materials Science: Materials in Electronics, 2018, Volume 29, Issue 10, pp 8465–8472	Lei Zhao
67	Bulk Microstructure of Modern Composites Studied Jointly by Impulse Acoustic Microscopy and X-ray Microtomography Techniques	AIP Conf. Proc.,1981, 020040 (2018)	Vadim Levin
68	CaMnAl-hydrotalcite solid basic catalyst toward aldol condensation reaction with a comparable level to liquid alkali catalysts	Green Chemistry, 2018, 20, 3071	Weihan Bing, Wei Min
69	Carbon nitride supported Fe2 cluster catalysts with superior performance for alkene epoxidation	Nature Communications, volume 9, Article number: 2353 (2018)	Shubo Tian, Dingsheng Wang
70	Catalytic Performance of Gold Supported on Mn, Fe and Ni Doped Ceria in the Preferential Oxidation of CO in H2-Rich Stream	Catalysts, 2018, 8(10), 469	Shuna Wang, Zhangfeng Qin & Jianguo Wang
71	Cation Conformational Changes of 1-Butyl-3-methylimidazolium Halides at High Pressures	J. Phys. Chem. C,2018,122,9320-9331	Fengjiao Chen, Jianbo Liu, Lin Wang
72	Cavitation in Poly(4-methyl-1-pentene) during Tensile Deformation	J Phys Chem B,122(14),4159-4168, 2018	Chen Ran, Men Yongfeng
73	Characteristics of airborne lead in Hangzhou, southeast China: Concentrations, species, and source contributions based on Pb isotope ratios and synchrotron X-ray fluorescence based factor analysis	Atmospheric Pollution Research,9, 607–616, 2018	Jing Fang, Qi Lin

74	Characterization and on-line adjustment of the sagittal-bent Laue crystal profile,	J. Synchrotron Rad., (2018)25,1346-1353	Weiwei Dong, Lingfei Hu
75	Characterization of Kinoform X-Ray Lens Using Image Stitching Method Based on Marked Structures	IGTA 2018, CCIS, 875, pp.88-97,2018	Wenqiang Hua, Keliang Liao
76	Characterization of magnetic properties in a 316 stainless steel after deformation and irradiation	Fusion Engineering and Design,133 (2018) 125–129	Chaoliang Xu
77	Chemical speciation of lead in secondary fly ash using X-ray absorption spectroscopy	Chemosphere, Volume 197, 2018, Pages 362-366	Shulei Tian, Meijuan Yu & Qifei Huang
78	Chemically activating MoS <sub>2</sub> via spontaneous atomic palladium interfacial doping towards efficient hydrogen evolution	Nature Communications, (2018) 9:2120	Zhaoyan Luo, Junjie Ge
79	Chlorine levels and species in fine and size resolved atmospheric particles by X-ray absorption near-edge structure spectroscopy analysis in Beijing, China	Chemosphere,196 (2018) 393-401	Jie Ouyang, Ling-Ling Ma
80	Chromium detoxification in arbuscular mycorrhizal symbiosis mediated by sulfur uptake and metabolism	Environmental and Experimental Botany, Volume 147, 2018, Pages 43-52	Songlin Wu, Baodong Chen
81	CO <sub>2</sub> activation promotes available carbonate and phosphorus of antibiotic mycelial fermentation residue-derived biochar support for increased lead immobilization	Chemical Engineering Journal,334 (2018) 1101–1107	Yuchen Liu, Xiangdong Zhu
82	Co - Based Catalysts Derived from Layered - Double - Hydroxide Nanosheets for the Photothermal Production of Light Olefins	Advanced Materials,2018, 30, 1800527	Zhenhua Li, Tierui Zhang
83	Co - doping Nitrogen/Sulfur through a Solid - State Reaction to Enhance the Electrochemical Performance of Anatase TiO <sub>2</sub> Nanoparticles as a Sodium - Ion Battery Anode	ChemElectroChem, 5, 316 (2018)	Wei Song, Zhong Li
84	Colloidal Synthesis of Ultrathin Monoclinic BiVO <sub>4</sub> Nanosheets for Z-Scheme Overall Water Splitting under Visible Light	ACS Catal.,2018, 8 (9), pp 8649–8658	Chunwei Dong, Yi Li
85	Columnar Liquid Crystals Self-Assembled by Minimalistic Peptides for Chiral Sensing and Synthesis of Ordered Mesoporous Silica	Chemistry of Materials,2018,30(21): 7902-7911	Yuefei Wang, Wei Qi
86	Combined DFT and XPS Investigation of Cysteine Adsorption on the Pyrite (1 0 0) Surface	Minerals,8, 366 (2018)	X Zheng, Jinlan Xia
87	Combined electron and structure manipulation on Fe containing N-doped CNTs to boost bifunctional oxygen electrocatalysis	ACS Appl. Mater. Interfaces, 2018, 10 (42), pp 35888–35895	Lei Zhao, Cheng Deng & Mengfu Zhu

88	Comparative assessment of the chronic effects of five nano-perovskites on <i>Daphnia magna</i> : a structure-based toxicity mechanism	Environ. Sci.: Nano,5, 708–719, 2018	Tingting Zhou, Wenhong Fan
89	Comparative Investigation of Semipolar (11-22) GaN Layers on m-Plane Sapphire with Different Nucleation Layers	Journal of Nanoscience and Nanotechnology,18(11), 7446-7450, 2018	Lianshan Wang
90	Comparison of magnetic properties of austenitic stainless steel after ion irradiation	Nuclear Inst. and Methods in Physics Research B,427 (2018) 87-90	Chaoliang Xu
91	Comparison of the quality of single-crystal diamonds grown on two types of seed substrates by MPCVD	Journal of Crystal Growth,491 (2018) 89-96	Yun Zhao, Chengming Li
92	Competitive sorption of Ni and Zn at the aluminum oxide/water interface: an XAFS study	Geochemical Transactions,2018, 19:9	Wenxian Gou, Wei Li
93	Compressibility and expansivity of anglesite (PbSO <sub>4</sub> ) using in situ synchrotron X-ray diffraction at high-pressure and high-temperature conditions	Physics and Chemistry of Minerals,2018,45,883-893	Bo Li,Dawei Fan
94	Compression behavior and phase transition of $\beta$ -Si <sub>3</sub> N <sub>4</sub> under high pressure	Chinese Physics B,2018,27,056101	Hongxia Gong,Zili Kou
95	Confined small-sized cobalt catalysts stimulate carbon-chain growth reversely by modifying ASF law of Fischer–Tropsch synthesis	Nature Communications,volume 9, Article number: 3250 (2018)	Qingpeng Cheng,Noritatsu Tsubaki & Xingang Li
96	Conformation Directed Mpemba Effect on Poly lactide Crystallization	CRYSTAL GROWTH & DESIGN,18(10), 5757-5762, 2018	Hu Cunliang, Li JQ; Jiang SC, Li HF, Luo CF, Chen JZ
97	Conformation Selected Direct Formation of Form I in Isotactic Poly(butene-1)	CRYSTAL GROWTH & DESIGN,18(4), 2525-2537, 2018	Jingqing Li, Jiang SC
98	Control of Luminescence in Eu <sup>2+</sup> -Doped Orthosilicate-Orthophosphate Phosphors by Chainlike polyhedra and Electronic Structures	Inorg. Chem,2018, 57, 609–616	Lizhu He, Quanlin Liu
99	Control of supramolecular nanoassemblies by tuning the polarities of linkages and solvents	J. Mol. Liq., 272,1-7, 2018	Wei Xing, Xiaohong Cheng
100	CoO/CoP Heterostructured Nanosheets with an O-P Interpenetrated Interface as a Bifunctional Electrocatalyst for Na-O <sub>2</sub> Battery	ACS CATALYSIS, 8 (9): 8953-8960, 2018	Wang Junkai,Liu Xiangfeng, Sun Limei



101	Copolymer dielectrics with balanced chain-packing density and surface polarity for high-performance flexible organic electronics	Nature communications,9(1): 2339, 2018	Ji Deyang
102	Copolymers of bis-diketopyrrolopyrrole and benzothiadiazole derivatives for high-performance ambipolar field-effect transistors on flexible substrates	ACS applied materials & interfaces,10(31): 25858-25865, 2018	Chen Jinyang,
103	Core-Shell ZIF-8@ZIF-67-Derived CoP Nanoparticle-Embedded N-Doped Carbon Nanotube Hollow Polyhedron for Efficient Overall Water Splitting	J. Am. Chem. Soc.,2018, 140 (7), pp 2610-2618	Yuan Pan, Dingsheng Wang, Yadong Li
104	Correlation between microstructures and mechanical properties of cryorolled CuNiSi alloys with Cr and Zr alloying	Materials Characterization,卷: 144, 页: 532-546, 2018	Wang Wei, Kang Huijun, Wang Tongmin
105	Coumarin-based emissive hexacatenars: synthesis, 2D, 3D self-assembly and photodimerization	J. Mater. Chem. C, 6, 10782-10792, 2018	Yulong Xiao, Xiaohong Cheng
106	Coupled Kinetics of Ferrihydrite Transformation and As(V) Sequestration under the Effect of Humic Acids: A Mechanistic and Quantitative Study	Environ. Sci. Technol.,2018, 52 (20), pp 11632-11641	Shiwen Hu, Zhenqing Shi
107	Coupling confinement activating cobalt oxide ultra-small clusters for high-turnover oxygen evolution electrocatalysis	J. Mater. Chem. A, 2018, 6, 15684-15689	Linlin Cao, Tao Yao
108	Covalent Phenanthroline Framework Derived FeS@Fe <sub>3</sub> C Composite Nanoparticles Embedding in N - S - Codoped Carbons as Highly Efficient Trifunctional Electrocatalysts	Adv. Funct. Mater., 2018, 1803973	Fantao Kong, Aiguo Kong, Yongkui Shan
109	Crystal Imperfection Modulation Engineering for Functionalization of Wide Band Gap Semiconductor Radiation Detector	Advanced Electronic Materials, 4(2): 1700307, 2018	Ji Xu
110	Cu(II) sorption by biogenic birnessite produced by Pseudomonas putida strain MnB1: structural differences from abiotic birnessite and its environmental implications	CrystEngComm, 2018, 20, 1361-1374	Yuwei Lium Yan Li, Anhuai Lu
111	Cube-like CuCoO nanostructures on reduced graphene oxide for H <sub>2</sub> generation from ammonia borane	Inorg. Chem. Front.,2018,5, 1180-1187	Hechuang Zheng, Zhenhui Kang & Jun Zhong
112	Cu-Ni-Al spinel oxide as an efficient durable catalyst for methanol steam reforming	ChemCatChem,201801472	Liu, Yajie, Qing, Shaojun
113	Defect dipole-induced domain reorientation of NdFeO <sub>3</sub> -PbTiO <sub>3</sub> thin films	Inorganic chemistry frontiers, Issue 5, pp 1156-1161, 2018	Yilin Wang, Xianran Xing

114	Defect Effects on TiO <sub>2</sub> Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties	Advanced Materials,2018, 30, 1705369	Jiawei Wan, 王定胜
115	Defective Carbon-CoP Nanoparticles Hybrids with Interfacial Charges Polarization for Efficient Bifunctional Oxygen Electrocatalysis	Adv. Energy Mater.,2018, 8, 1703623	Yunxiang Lin,Hailong Jiang, Li Song
116	Density fluctuations with fractal order in metallic glasses detected by synchrotron X-ray nano-computed tomography	Acta Materialia,155 (2018) 69-79	B. Huang, W.H. Wang
117	Dirac Signature in Germanene on Semiconducting Substrate	Advanced Science,10.1002/advs.201800207	Jincheng Zhuang, Yi Du
118	Direct formation of form I' crystals in polybutene-1/polypropylene blend enhanced by cold crystallization	Polymer,卷: 156 页: 30-38, 2018	Zhong Zhenxing , Su Zhaohui
119	Direct information retrieval after 3D reconstruction in grating-based X-ray phase-contrast computed tomography,	J. Synchrotron Rad., (2018). 25, 1222-1228	Zhao Wu,Yangchao Tian
120	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms	Nature Nanotechnology,volume 13, p ages856–861 (2018)	Shengjie Wei, Zhi Li & Yadong Li
121	Direct observation of the kinetics of gas–solid reactions using in situ kinetic and spectroscopic techniques	React. Chem. Eng.,2018, 3, 668	Adam S. Hoffman, Dante A. Simonetti
122	Direct transformation of bulk copper into copper single sites via emitting and trapping of atoms	Nature Catalysis,1, pages781–786 (2018)	Yunteng Qu, Yu'en Wu, Yadong Li
123	Directional Self - Assembly and Photoinduced Polymerization of Diacetylene - Containing Platinum (II) Terpyridine Complexes	Chemistry–A European Journal, 24(58): 15596-15602, 2018	Fang Shishi
124	Dissolution and phase transformation processes of hausmannite in acidic aqueous systems under anoxic conditions	Chemical Geology, Volume 487, 2018, Pages 54-62	Yao Luo, Guohong Qiu
125	Dithienylmethanone-Based Cross-Conjugated Polymer Semiconductors: Synthesis, Characterization and Application in Field-Effect Transistors	J. Polym. Scien., Part A: Polym. Chem., 2018, 56, 1012–1019.	Keli Shi, Gui Yu
126	Do Olefin Hydrogenation Reactions Remain Structure Insensitive over Pt in Nanostructured Pt-on-Au Catalyst?	ACS Catal.,2018, 8 (11), pp 10254–10260	Jia-Wei Yang, Boqing Xu
127	Donkey milk lysozyme ameliorates dextran sulfate sodium-induced colitis by improving intestinal barrier function and gut microbiota composition	Journal of Functional Foods,48,,144-152	LunJiang,Huiyuan Guo

128	Doping-Enhanced Short-Range Order of Perovskite Nanocrystals for Near-Unity Violet Luminescence Quantum Yield	Journal of the American Chemical Society, 140, 31, 9942-9951, 2018	Zi-Jun Yong, Hongtao Sun
129	Doping-induced structural phase transition in cobalt diselenide enables enhanced hydrogen evolution catalysis	Nature Communications, (2018) 9:2533	Ya-Rong Zheng, Min-Rui Gao
130	Dynamic influence of S fertilizer on Cu bioavailability in rice ( <i>Oryza sativa</i> L.) rhizosphere soil during the whole life cycle of rice plants	Journal of Soils and Sediments, doi.org/10.1007/s11368-018-2009-0	Lijuan Sun, Jiyan Shi
131	Earliest use of birch bark tar in Northwest China: evidence from organic residues in prehistoric pottery at the Changning site	Veget Hist Archaeobot, (2018). doi.org/10.1007/s00334-018-0694-7	Huiyun Rao, Yimin Yang
132	Effect of Destined High-Pressure Torsion on the Structure and Mechanical Properties of Rare Earth-Based Metallic Glasses	Metallurgical and Materials Transactions A, 2018, 49, 842-847	W Zhao, W Zhao
133	Effect of gold photocathode contamination on a flat spectral response X-ray diode	Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 884 (2018) 75–81	Kun-lun Wang, Xiao-dong Ren
134	Effect of microstructural features on the failure behavior of hybrid laser welded AA7020	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, 2018, 41:2010-2023	Y.N. Hu, S.C. Wu
135	Effect of nanopore confinement on the thermal and structural properties of heneicosan	THERMOCHIMICA ACTA, 卷: 664 页: 57-63, 2018	Deng Shuping, Lan Xiaozheng
136	Effect of Protective Agents upon the Catalytic Property of Platinum Nanocrystals	ChemCatChem, 2018, 10, 2433-2441	Muyu Yan, Wenxing Chen & Yan Liu & Chao Lian
137	Effect of Soil Fulvic and Humic Acids on Pb Binding to the Goethite/Solution Interface: Ligand Charge Distribution Modeling and Speciation Distribution of Pb	Environ. Sci. Technol., 2018, 52 (3), pp 1348–1356	Juan Xiong, Wenfeng Tan
138	Effect of Structure on Electric Properties of Polyimide/Al <sub>2</sub> O <sub>3</sub> Composites Investigated by SAXS	12th IEEE International Conference on the Properties and Applications of Dielectric Materials, 2018, p 960-965	Jialong Li, Jinghua Yin

139	Effect of support composition on the structural and catalytic properties of Ru/AlOOH–SiO <sub>2</sub> catalysts for benzene selective hydrogenation	Catal. Sci. Technol.,2018, 8, 1435-1446	Gongbing Zhou, Gongbing Zhou
140	Effect of Surface Fe-Sn Intermetallics on Oxide Films Formation of Stainless Steel in High Temperature Water	HIGH TEMPERATURE MATERIALS AND PROCESSES, 2018, 37(4): 387-395	Yan Zhao, Jianjun Guan
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