

2015 Publications

No.	Title	Journal Informaion	Author
1	The studies of irradiation assisted stress corrosion cracking on reactor internals stainless steel under Xe irradiation	Journal of Nuclear Materials, 2015, 457, 130–134	Wang Rongshan
2	A broadband antireflective coating based on a double-layer system containing mesoporous silica and nanoporous silica	J. Mater. Chem. C, 2015, 3, 7187-7194	Sun Jinghua
3	A novel magnetoresistance induced by charge ordering in ferromagnetic/charge-ordered/ferromagnetic trilayers	Europhysics Letters, 2015, 112, 27007	Wang Haiou
4	Air-stable ambipolar organic field-effect transistors based on naphthalenediimide–diketopyrrolopyrrole copolymers	RSC Adv., 2015, 5, 19520-19527	Wang Ping
5	Effect of alkyl-chain branching position on nanoscale morphology and performance of all-polymer solar cells	RSC Adv., 2015, 5, 10072-10080	Liu Fangbin
6	Effect of chain curvature on the performance of diketopyrrolopyrrole-based polymer solar cells	Polym. Chem., 2015, 6, 6637-6643	Li Hui
7	Effect of fluorine substitution on the photovoltaic performance of poly(thiophene-quinoxaline) copolymers	Polym. Chem., 2015, 6, 8203-8213	Zi Qiao
8	Effect of hydrogen on low temperature epitaxial growth of polycrystalline silicon by hot wire chemical vapor deposition	Journal of Semiconductors, 2015, 36 (2), 023004	Cao Yong
9	Effect of Xe ²⁶⁺ ion irradiation on the microstructural evolution and mechanical properties of Zr–1Nb at room and high temperature	Journal of Nuclear Materials, 2015, 461, 78–84	Chunguang Yan
10	Effects of Thermal Annealing on the Solvent Additive P3HT PC61BM Bulk Heterojunction Solar Cells	Chinese Physics Letters, 2015, 32 (5), 161-165	Fan Xing
11	Enhancing the organic thin-film transistor performance of diketopyrrolopyrrole–benzodithiophene copolymers via the modification of both conjugated backbone and side chain	Polym. Chem., 2015, 6, 5369-5375	Zhengran Yi
12	Enhancing the photovoltaic performance of quinoxalino[2,3-b']porphyrinatozinc-based donor–acceptor copolymers by using 4,4'-bipyridine as a linear bidentate ligand additive	J. Mater. Chem. A, 2015, 3, 21460-21470	Liwei Wang
13	Fabrication of highly oriented large-scale TIPS pentacene crystals and transistors by the Marangoni effect-controlled growth method	Phys. Chem. Chem. Phys., 2015, 17, 6274-6279	Haoyan Zhao
14	Face-On and Edge-On Orientation Transition and Self-Epitaxial Crystallization of All-Conjugated	Macromolecules, 2015, 48 (20), 7557–7566	Hua Yan

	Diblock Copolymer		
15	Formation and local conduction of nanopits in BiFeO ₃ epitaxial films	J. Mater. Chem. C, 2015, 3, 11250-11256	Yajuan Zhao
16	High performance quinacridone-based polymers in film transistors and photovoltaics: effects of vinylene linkage on crystallinity and morphology	Polym. Chem., 2015, 6, 3283-3289	Hui Li
17	Highly sensitive thin film phototransistors based on a copolymer of benzodithiophene and diketopyrrolopyrrole	J. Mater. Chem. C, 2015, 3, 1942-1948	Lanchao Ma
18	High-performance polymer field-effect transistors fabricated with low-bandgap DPP-based semiconducting materials	Polym. Chem., 2015, 6, 6457-6464	Zupan Mao
19	Hysteresis phenomena of the two dimensional electron gas density in lattice-matched InAlN/GaN heterostructures	Appl. Phys. Lett., 2015, 107, 052102	Ling Sang
20	Insight into Metalized Interfaces in Nano-Devices by Surface Analytical Techniques	ACS Appl. Mater. Inter., 2015, 7 (49), 27351-27356	Qingyun Xiang
21	Irradiation-induced structural transitions in Ti ₂ AlC	Acta Materialia, 2015, 98, 197-205	Chenxu Wang
22	Nano structure evolution in P3HT:PC61BM blend films due to the effects of thermal annealing or by adding solvent	Chinese Physics B, 2015, 24 (7), 078401	Fan Xing
23	Naphtho[1,2b,5,6b']difuran-based donor-acceptor polymers for high performance organic field-effect transistors	RSC Adv., 2015, 5, 70319-70322	Shaowei Shi
24	Novel dialkoxy-substituted benzodithienothiophenes for high-performance organic field-effect transistors	J. Mater. Chem. C, 2015, 3, 10892-10897	Ji Zhang
25	Spirobifluorene-based acceptors for polymer solar cells: Effect of isomers	Dyes and Pigments, 2015, 123, 16-25	Jiayu Wang
26	Study on microstructure and mechanical properties of He and H ion irradiated 6H-SiC	Nuclear Instruments and Methods in Physics Research Section B, 2015, 365, 347-351	Q. Bai
27	Synergistic Effect of Polymer and Small Molecules for High-Performance Ternary Organic Solar Cells	Advanced Materials, 2015, 27 (6), 1071-1076	Yajie Zhang
28	Synthesis, Characterization, and Field-Effect Transistors Properties of Novel Copolymers Incorporating Nonplanar Biindeno[2,1-b]thiophenylidene Building Blocks	Macromolecules, 2015, 48 (8), 2444-2453	Chao Li
29	The Influence of InGa _N Interlayer on the Performance of InGa _N /Ga _N Quantum-Well-Based LEDs at High Injections	Chinese Physics Letters, 2015, 32 (2), 027802	Rajabi Kamran
30	The role of conjugated side chains in high performance photovoltaic polymers	J. Mater. Chem. A, 2015, 3, 2802-2814	Meng Wang
31	Transparent and Dense Ladder-Like Alkylene-Bridged Polymethylsiloxane Coating with Enhanced Water Vapor Barrier Property	ACS Appl. Mater. Interfaces, 2015, 7 (40), 22157-22165	Ce Zhang

32	Tuning the Semiconducting Behaviors of New Alternating Dithienyldiketopyrrolopyrrole–Azulene Conjugated Polymers by Varying the Linking Positions of Azulene	Macromolecules, 2015, 48 (7), 2039–2047	Jingjing Yao
33	Semi-crystalline polymethylene-b-poly(acrylic acid) diblock copolymers: aggregation behavior, confined crystallization and controlled growth of semicrystalline micelles from dilute DMF solution	Soft Matter., 2015, 11, 1778-1787	Hongfang Wang
34	Impact of thickness on microscopic and macroscopic properties of Fe-Te-Se superconductor thin films	AIP Advances, 2015, 5, 047149	Zhang Nian
35	Vectorial Electron Transfer for Improved Hydrogen Evolution by Mercaptopropionic-Acid-Regulated CdSe Quantum-Dots–TiO ₂ –Ni(OH) ₂ Assembly	ChemSusChem, 2015, 8 (4), 642-649.	Yu Shan
36	Molecular binding mechanisms of manganese to the root cell wall of <i>Phytolacca americana</i> L. using multiple spectroscopic techniques	Journal of Hazardous Materials, 2015, 296, 185-91	Xiangxu Hua
37	Optimal azimuthal orientation for Si(111) double-crystal monochromators to achieve the least amount of glitches in the hard X-ray region	Journal of Synchrotron Radiation, 2015, 22,1147-1150	Zheng Tang
38	Structure and properties of vanadium(V)-doped hexagonal turbostratic birnessite and its enhanced scavenging of Pb ²⁺ from solutions.	Journal of Hazardous Materials, 2015, 288, 80–88	Hui Yin
39	High Co-doping promotes the transition of birnessite layer symmetry from orthogonal to hexagonal	Chemical Geology, 2015, 410, 12–20	Hui Yin
40	Structure and properties of Co-doped cryptomelane and its enhanced removal of Pb ²⁺ and Cr ³⁺ from wastewater	Journal of Environmental Sciences, 2015, 34, 77–85	Hui Li
41	Absorption mechanisms of Cu on a biogenic bixbyite-like Mn ₂ O ₃ produced by <i>Bacillus</i> CUA isolated from soil	Geochemical Transactions, 2015, 16(5), 1-9	Zhijun Zhang
42	Introduction of Amino Groups into Acid-resistant MOFs for Enhanced U(VI) Sorption	Journal of Materials Chemistry A, 2015, 3, 525-534	Bai Liqiang
43	Efficient removal of uranium from aqueous solution by zero-valent iron nanoparticle and its graphene composite	J. Hazard. Mater., 2015, 290, 26-33	Li Zijie
44	Translocation and biotransformation of CuO nanoparticles in rice (<i>Oryza sativa</i> L.) plants	Environmental Pollution, 2015, 197, 99-107	Peng Cheng
45	Ultra-small gold nanoparticles immobilized on mesoporous silica/graphene oxide as highly active and stable heterogeneous catalysts	Chemical Communications, 2015, 51, 4398-4401	Peng Li
46	Enhanced electrocatalytic activity of MoP microparticles for hydrogen evolution by grinding and electrochemical activation	Journal of Materials Chemistry A, 2015, 3, 4368-4373	Wang Tanyuan
47	In-situ DRIFTS and XANES identification of copper species in the ternary composite oxide catalysts CuMnCeO during CO preferential oxidation	International Journal of Hydrogen Energy, 2015, 40, 3919-3931	Jin Hui

48	铜负载量对 LNT 催化剂 CuO-K ₂ CO ₃ /TiO ₂ 结构与性能的影响	Acta Phys. -Chim. Sin., 2015, 31 (9), 1761–1770	Fan Fengqi
49	Insight into the improvement effect of the Ce doping into the SnO ₂ catalyst for the catalytic combustion of methane	Applied Catalysis B, 2015, 176, 542-552	Liu Cheng
50	Origin of the Different Phytotoxicity and Biotransformation of Cerium and Lanthanum Oxide Nanoparticles in Cucumber	Nanotoxicology, 2015, 9 (2), 262-270	Yuhui Ma
51	Where Does the Transformation of Precipitated Ceria Nanoparticles in Hydroponic Plants Take Place?	Environmental Science & Technology, 2015, 49 (17), 10667-10674.	Yuhui Ma
52	Fate and Phytotoxicity of CeO ₂ Nanoparticles on Lettuce Cultured in the Potting Soil Environment	PloS one, 2015, 10 (8), e0134261.	Xin Gui
53	Acquired Superoxide-Scavenging Ability of Ceria Nanoparticles	Angewandte Chemie International Edition, 2015, 54(6), 1832-1835	Li Yuanyuan
54	Quantifying the total ionic release from nanoparticles after particle-cell contact	Environmental Pollution, 2015, 196, 194-200	He Xiao
55	不同种群蜈蚣草中砷形态的 X 射线吸收光谱研究	光谱学与光谱分析, 2015, 35(8), 2329-2332	Wan Xiaoming
56	Probing the Influence of the Conjugated Structure and Halogen Atoms of Poly-Iron-Phthalocyanine on the Oxygen Reduction Reaction by X-ray Absorption Spectroscopy and Density Functional Theory	Electrochimica Acta, 2015, 154, 102–109	Yingxiang Peng
57	Modification of eutectic Si in Al–Si alloys with Eu addition	Acta Materialia, 2015, 84,153–163	J.H. Li
58	Heterogeneous activation of Oxone by substituted magnetites Fe _{3–x} MxO ₄ (Cr, Mn, Co, Ni) for degradation of Acid Orange II at neutral pH	Journal of Molecular Catalysis A, 2015, 398, 86–94	Gaoling Wei
59	Influence of vanadium doping on the supercapacitance performance of hexagonal birnessite	Journal of Power Sources, 2015, 277, 26-35	Lihu Liu
60	Ligand-tailored single-site silica supported titanium catalysts: Synthesis, characterization and towards cyanosilylation reaction	Journal of Solid State Chemistry, 2015, 221, 208–215	Wei Xu
61	Multifunctional Au-Fe ₃ O ₄ @MOF core–shell nanocomposite catalysts with controllable reactivity and magnetic recyclability	Nanoscale, 2015, 7, 1201–1208	Fei Ke
62	Cu-Decorated Ru Catalysts Supported on Layered Double Hydroxides for Selective Benzene Hydrogenation to Cyclohexene	ChemCatChem, 2015, 7 (5), 846–855	Jie Liu
63	The local distortion and electronic behavior in Mn doped BiFeO ₃	Journal of Alloys and Compounds, 2015, 633, 216–219	Longsheng Chen
64	Accumulation, speciation and uptake pathway of ZnO nanoparticles in maize	Environmental Science Nano, 2015, 2, 68–77	Jitao Lv
65	Hybridization and pore engineering for achieving	Nano Energy, 2015, 12, 152–	Ying Xiao

	high-performance lithium storage of carbide as anode material	160	
66	Transformation of ceria nanoparticles in cucumber plants is influenced by phosphate	Environmental Pollution, 2015, 198, 8-14	Yukui Rui
67	Novel HCN sorbents based on layered double hydroxides: Sorption mechanism and performance	Journal of Hazardous Materials, 2015, 285, 250–258	Qian Zhao
68	Metallic Nickel Nitride Nanosheets Realizing Enhanced Electrochemical Water Oxidation	J. Am. Chem. Soc., 2015, 137, 4119–4125	Kun Xu
69	Efficient Electrocatalytic Water Oxidation by Using Amorphous Ni–Co Double Hydroxides Nanocages	Adv. Energy Mater., 2015, 5, 1401880	Jianwei Nai
70	Activated-carbon-supported K–Co–Mo catalysts for synthesis of higher alcohols from syngas	Catal. Sci. Technol. 2015, 5, 2925-2934	Meimei Lv
71	CoOOH Nanosheets with High Mass Activity for Water Oxidation	Angewandte Chemie-International Edition, 2015, 54, 8722 –8727	Junheng Huang
72	Manganese-Modified Fe ₃ O ₄ Microsphere Catalyst with Effective Active Phase of Forming Light Olefins from Syngas	ACS Catal., 2015, 5 (6), 3905–3909	<u>Yi Liu</u>
73	Biomining of Se nanosphere by Bacillus licheniformis	Journal of Earth Science, 2015, 26 (2), 246–250	Yongqiang Yuan
74	Local atomic and electronic structures in ferromagnetic topological insulator Cr-doped (Bi _x Sb _{1-x}) ₂ Te ₃ studied by XAFS and ab initio calculations	Physical Review B, 2015, 92, 100101(R)	Zhen Liu
75	Sol–gel synthesis and electrochemical properties of c-axis oriented LiCoO ₂ for lithium-ion batteries	RSC Advances, 2015, 5, 51483–51488	Sen Gao
76	Free-volume dependent atomic dynamics in beta relaxation pronounced La-based metallic glasses	Acta Materialia, 2015, 99, 290–296	X.D. Wang
77	Well-dispersed cobalt phthalocyanine nanorods on graphene for the electrochemical detection of hydrogen peroxide and glucose sensing	Sensors and Actuators B: Chemical, 2015, 216, 298–306	Huahua Wang
78	Heteroatomic Ni, Sn Clusters-Grafted Anatase TiO ₂ Photocatalysts: Structure, Electron Delocalization, and Synergy for Solar Hydrogen Production	The Journal of Physical Chemistry C, 2015, 119, 10478–10492	Haowei Huang
79	In situ visualisation and characterisation of the capacity of highly reactive minerals to preserve soil organic matter (SOM) in colloids at submicron scale	Chemosphere, 2015, 138, 225–232	Jian Xiao
80	Initial Reaction Mechanism of Platinum Nanoparticle in Methanol–Water System and the Anomalous Catalytic Effect of Water	Nano Letters, 2015, 15, 5961–5968	Shuangming Chen
81	Stable Metallic 1T-WS ₂ Nanoribbons Intercalated with Ammonia Ions: The Correlation between Structure and Electrical/Optical Properties	Adv. Mater., 2015, 27, 4837–4844	Qin Liu
82	Charge redistribution and a shortening of the Fe-As bond at the quantum critical point of SmO _{1-x} F _x FeAs	Journal of Synchrotron Radiation, 2015, 22, 1030–1034	Jie Cheng

83	Catalytic behavior of supported Ru nanoparticles on the {1 0 0}, {1 1 0}, and {1 1 1} facet of CeO ₂	Journal of Catalysis, 2015, 329, 177–186	Fei Wang
84	Metal Phosphides Derived from Hydrotalcite Precursors toward the Selective Hydrogenation of Phenylacetylene	ACS Catalysis, 2015, 5, 5756–5765	Yudi Chen
85	Ru nanoparticles on rutile/anatase junction of P25 TiO ₂ : Controlled deposition and synergy in partial hydrogenation of benzene to cyclohexene	Journal of Catalysis, 2015, 332, 119–126	Gongbing Zhou
86	Gram-Scale Aqueous Synthesis of Stable Few-Layered 1T-MoS ₂ : Applications for Visible-Light-Driven Photocatalytic Hydrogen Evolution	Small, 2015, 11 (41), 5556–5564	Qin Liu
87	Effective deoxygenation of fatty acids over Ni(OAc) ₂ in the absence of H ₂ and solvent	Green Chemistry, 2015, 17, 4198–4205	Wenjing Li
88	Suppression of Lanthanide Clustering in Glass by Network Topological Constraints	Journal of The American Ceramic Society, 2015, 98 (10) 2976–2979	Qiangbing Guo
89	Enhanced activity and stability of binuclear iron (III) phthalocyanine on graphene nanosheets for electrocatalytic oxygen reduction in acid	Journal of Power Sources, 2015, 293, 511-518	Tengfei Li
90	The Effects of Mn ²⁺ Precursors on the Structure and Ozone Decomposition Activity of Cryptomelane-Type Manganese Oxide (OMS-2) Catalysts	The Journal of Physical Chemistry C, 2015, 119, 23119–23126	Caixia Wang
91	Citric Acid Enhanced Copper Removal by a Novel Multi-amines Decorated Resin	Scientific Reports, 2015, 5, 9944	Chen Ling
92	Cube-like Cu ₂ MoS ₄ photocatalysts for visible light-driven degradation of methyl orange	AIP Advances, 2015, 5, 077130	Ke Zhang
93	Synthesis of Amorphous Ni–Zn Double Hydroxide Nanocages with Excellent Electrocatalytic Activity toward Oxygen Evolution Reaction	ChemNanoMat, 2015, 1, 324 – 330	Shuqian Wang
94	Local atomic structure modulations activate metal oxide as electrocatalyst for hydrogen evolution in acidic water	Nature Communications, 2015, 6, 8064	Yu Hang Li
95	Lithium Storage in Microstructures of Amorphous Mixed-Valence Vanadium Oxide as Anode Materials	ChemSusChem, 2015, 8, 2212 – 2222	Di Zhao
96	A novel strategy for tailoring copper oxide cluster with Pt-like activity for photocatalytic hydrogen evolution	International Journal of Hydrogen Energy, 2015, 40, 15454-15459	Yu Hang Li
97	Orange Zinc Germanate with Metallic Ge[BOND]Ge Bonds as a Chromophore-Like Center for Visible-Light-Driven Water Splitting	Angew. Chem. Int. Ed., 2015, 54 (39), 11467–11471	Ling Qian
98	The oxidation state and microstructural environment of transition metals (V, Co, and Ni) in magnetite: an XAFS study	Phys Chem Minerals, 2015, 42, 373–383	Xiaoliang Liang
99	Highly active N–PtTe/reduced graphene oxide intermetallic catalyst for formic acid oxidation	Nano Energy, 2015, 15, 24–32	Li An

100	Natural Magnetite: an efficient catalyst for the degradation of organic contaminant	Scientific Reports, 2015, 5, 10139	Honping He
101	Adsorption of Cu(II) on humic acids derived from different organic materials	Journal of Integrative Agriculture, 2015, 14 (1), 168-177	Li Cuilan
102	New insight of coordination and extraction of Uranium (VI) with N-donating ligands in Room Temperature Ionic Liquids: N, N, -diethyl-N, N, -ditolyldipicolinamide as a case study	Inorganic Chemistry, 2015, 54, 1992-1999	Yuan Liyong
103	Anharmonicity and local lattice distortion in strained Ge-dilute Si _{1-x} Ge _x alloy	Journal of Alloys and Compounds, 2015, 653, 117	Juncai Dong
104	Transformation and Immobilization of Chromium by Arbuscular Mycorrhizal Fungi as Revealed by SEM-EDS, TEM-EDS, and XAFS	Environmental Science & Technology, 2015, 49 (24), 14036-14047	Songlin Wu
105	Adsorption of monothioarsenate on amorphous aluminum hydroxide under anaerobic conditions	Chemical Geology, 2015, 407-408, 46-53	Fan Xiao
106	Incorporation of arsenic into gypsum: Relevant to arsenic removal and immobilization process in hydrometallurgical industry	Journal of Hazardous Materials, 2015, 300, 272-280	Yongfeng Jia
107	Self-Assembled Alluaudite Na ₂ Fe _{3-x} Mnx(PO ₄) ₃ Micro/Nanocompounds for Sodium-Ion Battery Electrodes: A New Insight into Their Electronic and Geometric Structure	Chem. Eur. J., 2015, 21, 851 - 860	Weifeng Huang
108	Structure and catalytic activities of ferrous centers confined on the interface between carbon nanotubes and humic acid	Nanoscale, 2015, 7, 2651-2658	Wang Bing
109	Cu doped Fe ₃ O ₄ magnetic adsorbent for arsenic: synthesis, property, and sorption application	RSC Adv., 2015, 5, 50011-50018	Ting Wang
110	Combined Experimental and ab Initio Study of Site Preference of Ce ³⁺ in SrAl ₂ O ₄ .	J. Phys. Chem. C, 2015, 119(33),19326-19332.	Rui Shi
111	Atomic cobalt on nitrogen-doped graphene for hydrogen generation	Nat Commun., 2015, 6, 8668	Huilong, Fei
112	Correlation of the changes in the framework and active Cu sites for typical Cu/CHA zeolites (SSZ-13 and SAPO-34) during hydrothermal aging	Physical Chemistry Chemical Physics, 2015,17,29142-29149	Xu Wenkang
113	Investigation on the trioctylphosphine oxide-based super-concentrated HCl system	Spectrochimica Acta Part A, 2015, 136, 288-294	Ran Guo
114	Shaping Single-Crystalline Trimetallic Pt-Pd-Rh Nanocrystals toward High-Efficiency C-C Splitting of Ethanol in Conversion to CO ₂	ACS Catal., 2015, 5, 1995-2008	Zhuwei
115	Enhanced Ce ³⁺ emission in B ₂ O ₃ -GeO ₂ -Gd ₂ O ₃ scintillating glasses induced by melting temperature	Optical Materials Express, 2015, 5 (4), 920-925	Sunxinyuan
116	Synthesis and magnetic properties of samarium hydroxide nanocrystals	New J Chem., 2015, 39, 4972-4976	Zhengxusheng
117	Novel PtO decorated MWCNTs as a highly efficient counter electrode for dye-sensitized solar cells	RSC Advances, 2015, 5, 8307-8310	Xiao Chen

118	A study of the mechanism of fluoride adsorption from aqueous solutions onto Fe-impregnated chitosan	Phys.Chem.Chem.Phys., 2015, 17, 12041	Jing Zhang
119	Zinc–cobalt oxides as efficient water oxidation catalysts_ the promotion effect of ZnO	J. Mater. Chem. A, 2015, 3, 4010	Feng Rong
120	A New Route Toward Improved Sodium Ion Batteries: A Multifunctional Fluffy Na _{0.67} FePO ₄ /CNT Nanocactus.	Small, 2015, 11(18): 2170-2176.	Weifeng Huang
121	Strong Local Coordination Structure Effects on Subnanometer PtOxClusters over CeO ₂ Nanowires Probed by Low-Temperature CO Oxidation	ACS Catalysis, 2015, 5(9): 5164-5173.	Jun Ke
122	The mechanism of enhanced luminescence in ion-codoped Lu ₂ SiO ₅ :Ce ³⁺ phosphors.	J Lumin., 2015, 161: 422-425.	Xiaolin Liu
123	Determination of the accumulation, spatial distribution and reduction of Cr in unsaturated Pseudochrobactrum saccharolyticum LY10 biofilms by X-ray fluorescence and absorption methods	Chem Eng J., 2015, 280: 763-770.	Dongyan Long
124	Covalent entrapment of cobalt-iron sulfides in N-doped mesoporous carbon: extraordinary bifunctional electrocatalysts for oxygen reduction and evolution reactions.	ACS Appl Mater Inter., 2015, 7(2): 1207-1218.	Mengxia Shen
125	High-performance oxygen reduction electrocatalysts derived from uniform cobalt–adenine assemblies.	Nano Energy, 2015, 17: 120-130.	Mengxia Shen
126	Role of minor quantity of Si ₃ N ₄ addition on the optical properties of Ce ³⁺ -activated borogermanate scintillating glass	Opt Mater Express, 2015, 5(6): 1381.	Xinyuan Sun
127	Morphological Effects of Gold Clusters on the Reactivity of Ceria Surface Oxygen	ACS Catalysis, 2015, 5(5): 2873-2881	Jin Wang
128	Influence of Ce _{0.6} Zr _{0.4} O ₂ loading on the sulfur poisoning and regenerability of Pt/Ba/Al ₂ O ₃ –Ce _{0.6} Zr _{0.4} O ₂ in NOx removal by hydrogen.	Mater Res Bull, 2015, 75: 41-46.	Xiuyun Wang
129	Engineering the defect state and reducibility of ceria based nanoparticles for improved anti-oxidation performance.	Nanoscale 2015, 7(33): 13981-13990	Yanjie Wang
130	Decoupling the Lattice Distortion and Charge Doping Effects on the Phase Transition Behavior of VO ₂ by Titanium (Ti(4+)) Doping.	Sci Rep-uk, 2015, 5: 9328.	Yanfei Wu
131	X-ray absorption study of the geometry structure of Co ²⁺ /Co ³⁺ in ammonia solution.	J Mol. Struct., 2015, 1098: 306-310.	Qingying Yang
132	In Vitro Method To Assess Soil Arsenic Metabolism by Human Gut Microbiota: Arsenic Speciation and Distribution.	Environ. Sci. Technol., 2015, 49(17): 10675-10681.	Naiyi Yin
133	Local structure study of the Ni nanoparticles embedded in SiO ₂ by ion implantation	J Alloy Compd., 2015, 654: 176-179.	xiaojian Zhang
134	Synchrotron X-ray Fluorescence Microtomography Profiling of Malus xiaojinensis Provides Insights into Mechanisms of Divalent Metals Transport Subjected	Hortscience, 2015, 50(6):801–805	Zhang Meiling

	to Iron Deficiency		
135	Identification and quantification of seleno-proteins by 2-DE-SR-XRF in selenium-enriched yeast	Journal of analytical atomic spectrometry, 2015, 30, 1408–1413	Zhao Jiating
136	Role of transpiration in arsenic accumulation of hyperaccumulator <i>Pteris vittata</i> L	Environmental Science and Pollution Research, 2015, 22(21): 16631-16639	Wan Xiaoming
137	砷在药用植物三七根部组织及其亚细胞分布特征	植物学报, 2015, 50(5):591-597	Chen Lu
138	外源磷素对药用植物三七吸收砷的微区及形态分布特征影响	生态环境学报, 2015, 24 (9), 1576-1581	Chen Lu
139	二龙湾玛珉湖年纹层湖泊沉积物元素的 X 射线荧光光谱分析	核技术, 2015, 38, 020101-020109	You Haitao
140	Probing the interaction at nano-bio interface using synchrotron radiation-based analytical techniques.	Sci China Chem., 2015, 58(5): 768-779.	Wang Bing
141	Nano-oxide thin films deposited via atomic layer deposition on microchannel plates	Nanoscale research letters, 2015, 10, 162	Yan Baojun
142	Temperature effect on the electronic structure of Nb:SrTiO ₃ (100) surface	Chin. Phys. B, 2015, 24 (2): 027901	Zhang Shuanghong
143	A highly homogeneous nanocoating strategy for Li-rich Mn-based layered oxides based on chemical conversion	Journal of Power Sources, 2015, 277, 393–402	Ma Jin
144	Enhanced efficiency in polymer solar cells via hydrogen plasma treatment of ZnO electron transport layers	J. Mater. Chem. A, 2015, 3, 3719-3725	Hong Li Gao
145	Controlled Growth of Few-Layer Hexagonal Boron Nitride on Copper Foils Using Ion Beam Sputtering Deposition	Small, 2015, 11 (13), 1542–1547	Haolin Wang
146	A direct Fe–O coordination at the FePc/MoOx interface investigated by XPS and NEXAFS spectroscopies	Phys. Chem. Chem. Phys., 2015, 17, 3463-3469	Liu Lingyun
147	Metal–Insulator Transition Induced by Oxygen Vacancies from Electrochemical Reaction in Ionic Liquid-Gated Manganite Films	Advanced Materials Interfaces, 2015, 2, 1500407	Chen Ge
148	Insights into the structure–photoreactivity relationships in well-defined perovskite ferroelectric KNbO ₃ nanowires	Chemical Science, 2015, 6, 4118	Tingting Zhang
149	Surface-Structure Sensitivity of CeO ₂ Nanocrystals in Photocatalysis and Enhancing the Reactivity with Nanogold	ACS Catal., 2015,5,4385-4393	Wanying Lei
150	Investigation of Electron-Phonon Coupling in Epitaxial Silicene by In-situ Raman Spectroscopy	Phys. Rev. B, 2015, 91, 161409	Du Yi
151	Annealing temperature dependence of local atomic and electronic structure of polycrystalline La _{0.5} Sr _{0.5} MnO ₃	Int. J. Mod. Phys. B, 2015, 29, 1550006	Hong-Guang Zhang
152	Influence of Doping on the Magnetic Properties and	Journal of Applied	Ge Xiaopeng

	Local Microstructures in Fe-Doped YMnO ₃	Mathematics and Physics, 2105, 3(2), 262	
153	Large resistive switching and switchable photovoltaic response in ferroelectric doped BiFeO ₃ -based thin films by chemical solution deposition	J. Mater. Chem. C, 2015, 3, 4706	Linxing Zhang
154	Thin-Layer Fe ₂ TiO ₅ on Hematite for Efficient Solar Water Oxidation	ACS Nano, 2015, 9, 5348	Deng Jiujun
155	Hydrogen Impurity Defects in Rutile TiO ₂	Scientific Reports, 2015, 5:17634	Li-Bin Mo
156	Cosine fitting radiography and computed tomography	Chin. Phys. B, 2015, 24(6), 068704_1-9	Panyun Li
157	Characteristics of Friedel pairs and diffraction contrast tomography with non-perpendicular rotation axis	J. Synchrotron Rad., 2015, 22, 1062–1071	Yi Qiru
158	Synchrotron radiation computed laminography using an inclined detector	J. Synchrotron Rad., 2015, 22, 130–135	Zhang Jie
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