

## 2015 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	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 <sup>26+</sup> 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	Phys. Chem. Chem. Phys., 2015, 17, 6274-6279	Haoyan Zhao

	effect-controlled growth method		
14	Face-On and Edge-On Orientation Transition and Self-Epitaxial Crystallization of All-Conjugated Diblock Copolymer	Macromolecules, 2015, 48 (20), 7557–7566	Hua Yan
15	Formation and local conduction of nanopits in BiFeO <sub>3</sub> 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 <sub>2</sub> 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 InGaN Interlayer on the Performance of InGaN/GaN 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 <sub>2</sub> –Ni(OH) <sub>2</sub> 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 <sup>2+</sup> 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 <sup>2+</sup> and Cr <sup>3+</sup> from wastewater	Journal of Environmental Sciences, 2015, 34, 77–85	Hui Li
41	Absorption mechanisms of Cu on a biogenic bixbyite-like Mn <sub>2</sub> O <sub>3</sub> 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-situDRIFTS 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 <sub>2</sub> CO <sub>3</sub> /TiO <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>3-x</sub> M <sub>x</sub> O <sub>4</sub> (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 <sub>3</sub> O <sub>4</sub> @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 <sub>3</sub>	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 high-performance lithium storage of carbide as anode material	Nano Energy, 2015, 12, 152–160	Ying Xiao
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 <sub>3</sub> O <sub>4</sub> Microsphere Catalyst with Effective Active Phase of Forming Light Olefins from Syngas	ACS Catal., 2015, 5 (6), 3905–3909	<u>Yi Liu</u>
73	Biom mineralization 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 <sub>x</sub> Sb <sub>1-x</sub> ) <sub>2</sub> Te <sub>3</sub> 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 <sub>2</sub> for lithium-ion batteries	RSC Advances, 2015, 5, 51483–51488	Sen Gao
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78	Heteroatomic Ni, Sn Clusters-Grafted Anatase TiO <sub>2</sub> 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 <sub>2</sub> 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 <sub>1-x</sub> F <sub>x</sub> 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 <sub>2</sub>	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 <sub>2</sub> : Controlled deposition and synergy in partial hydrogenation of benzene to cyclohexene	Journal of Catalysis, 2015, 332, 119–126	Gongbing Zhou
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87	Effective deoxygenation of fatty acids over Ni(OAc) <sub>2</sub> in the absence of H <sub>2</sub> and solvent	Green Chemistry, 2015, 17, 4198–4205	Wenjing Li
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94	Local atomic structure modulations activate metal oxide as electrocatalyst for hydrogen evolution in acidic water	Nature Communications, 2015, 6, 8064	Yu Hang Li
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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
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101	Adsorption of Cu(II) on humic acids derived from different organic materials	Journal of Integrative Agriculture, 2015, 14 (1), 168-177	Li Cuilan
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103	Anharmonicity and local lattice distortion in strained Ge-dilute Si <sub>1-x</sub> Ge <sub>x</sub> 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
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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 <sub>2</sub>	ACS Catal., 2015, 5, 1995–2008	Zhuwei
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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
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