

2013 年度用户科技论文汇总目录

序号	文章题目	期刊名称	年份, 卷(期), 页码
1	Solvent vapor assisted spin-coating: A simple method to directly achieve high mobility from P3HT based thin film transistors	Synthetic Metals	2013, 184, 1-4
2	Naphthalenediimide-Based Copolymers Incorporating Vinyl-Linkages for High-Performance Ambipolar Field-Effect Transistors and Complementary-Like Inverters under Air	Chemistry of Materials	2013, 25, 3589-3596
3	X-ray probe of GaN thin films grown on InGaN compliant substrates	Applied Physics Letters	2013, 102(13), 132104
4	Strain Distributions in Non-Polar a-Plane InxGa1-xN Epitaxial Layers on r-Plane Sapphire Extracted from X-Ray Diffraction	CHINESE PHYSICS LETTERS	2013, 30(9), 098102
5	Effect of Cu ₂ O Morphology on Photocatalytic Hydrogen Generation and Chemical Stability of TiO ₂ /Cu ₂ O Composite	J. Nanosci. Nanotechnol	2013, 13, 5104-5108
6	Large remanent polarization in multiferroic NdFeO ₃ -PbTiO ₃ thin film	Applied Physics Letters	2013, 103, 082904
7	Large-Area, flexible imaging arrays constructed by light-charge memories	Sci. Rep.	2013, 3, 1080.
8	Effect of the Longer β -Unsubstituted Oligothiophene Unit (6T and 7T) on the Organic Thin-Film Transistor Performances of Diketopyrrolopyrrole-Oligothiophene Copolymers,	Chem. Mater.,	2013, 25 (21), 4290-4296
9	An Acetylene-Containing Perylene Diimide Copolymer for High Mobility n-Channel Transistor in Air	Macromolecules	2013, 46(6), 2152-215
10	Enhanced performance of inverted organic photovoltaic cells using CNTs-TiO _x nanocomposites as electron injection layer	Nanotechnology	2013, 24, 355401
11	Direct formation of β phase in polyoctylfluorene thin film via solvent vapor assisted spin-coating method	Organic Electronics	2013, 14, 897-901

12	Donor Acceptor Copolymers Containing Quinacridone and enzothiadiazole for Thin Film Transistors	Journal of Materials Chemistry C	2013, 1, 2021-2027
13	Naphthalenediimide-Benzothiadiazole Copolymer Semiconductors: Rational Molecular Design for Air-Stable Ambipolar Charge Transport	Chemistry of Materials	2013, 25, 2178–2183
14	Scaling of the anomalous Hall effect in perpendicular CoFeB/Pt multilayers	J Appl Phys	2013, 113, 17C119
15	The anomalous Hall effect in the perpendicular Ta/CoFeB/MgO thin films	J Appl Phys	2013, 113, 17C717
16	Depth-dependent positron annihilation in different polymers	Applied surface science	2013, 280, 109-112
17	Stimulated emission related anomalous change of electrical parameters at threshold in GaN-based laser diodes	Applied Physics Letters	2013, 102, 123501
18	A Potential Perylene Diimide Dimer-Based Acceptor Material for Highly Efficient Solution-Processed Non-Fullerene Organic Solar Cells with 4.03% Efficiency	Advanced Materials	2013, 25, 5791–5797
19	The effects of a prestrained InGaN interlayer on the emission properties of InGaN/GaN multiple quantum wells in a laser diode structure	Chin. Phys. B	2013, 22(7), 076803
20	High-Performance Transistors Based on Zinc Tin Oxides by Single Spin-Coating	Langmuir	2013, 29 (1), 151–157
21	High-mobility, air stable bottom-contact n-channel thin film transistors based on N,N'-ditridecyl perylene diimide	Applied Physics Letters	2013, 103(20), 203303
22	Effects of He irradiation on Ti ₃ AlC ₂ : Damage evolution and behavior of He bubbles	Journal of Nuclear Materials	2013, 440, 606–61
23	Effect of high fluence Au ion irradiation on nanocrystalline tungsten film	Journal of Nuclear Materials	2013, 442, 189–194
24	Diketopyrrolopyrrole-Thiophene-Benzothiadiazole Random Copolymers: An Effective Strategy to Adjust Thin-Film Crystallinity for Transistor and Photovoltaic properties	Macromolecules	2013, 46, 9211–9219

25	Active sites on hydrogen evolution photocatalyst	Journal of Materials Chemistry A	2013,1, 15258-15264
26	Unidirectional suppression of hydrogen oxidation on oxidized platinum cluster	Nature Communications	2013, 4, 2500
27	Structural and Catalytic Properties of Alkaline Post-Treated Ru/ZrO ₂ Catalysts for Partial Hydrogenation of Benzene to Cyclohexene	ChemCatChem	2013, 5, 2425 – 2435
28	Enhanced luminescence induced by change of cerium oxidation states in Li-codoped Lu ₂ SiO ₅ :Ce ³⁺ phosphors	Materials Letters	2013, 100, 282–284
29	Lead Binding to Soil Fulvic and Humic Acids: NICA-Donnan Modeling and XAFS Spectroscopy	Environmental Science & Technology	2013, 47, 11634–11642
30	NO adsorption behaviors of the MnO _x catalysts in lean-burn atmospheres	Journal of Hazardous Materials	2013, 260, 543-551
31	Intense Blue Emission Phosphor BaCa ₂ MgSi ₂ O ₈ :Eu ²⁺ for Fluorescent Lamps	ECS Journal of Solid State Science and Technology	2013, 2, R79-R81
32	A comparison of arsenic accumulation and tolerance among four populations of Pteris vittata from habitats with a gradient of arsenic concentration	Science of the total Environment	2013, 442,143-151
33	Effects of Fe doping on the structures and properties of hexagonal birnessites – Comparison with Co and Ni doping	Geochimica et Cosmochimica Acta	2013, 117, 1–15
34	XAFS in dilute magnetic semiconductors	Dalton Transactions	2013, 42, 13779
35	Adsorption kinetic process of thiol ligands on gold nanocrystals	Nanoscale	2013, 5, 11795–11800
36	The Variation of Mn dopant distribution states with x and its effect on magnetic coupling mechanism with x in Zn _{1-x} Mn _x O nanocrystals	Chinese Physics B	2013, 22, 107501
37	Application of a polycapillary X-ray optics in high pressure XAFS	Journal of Optics	2013, 15: 072601

38	Nano-inclusions: a novel approach to tune the thermal conductivity of the In ₂ O ₃	Physical Chemistry Chemical Physics	2013, 15, 17595-17600
39	The effect of transition metal substitution on the catalytic activity of magnetite in heterogeneous Fenton reaction: In interfacial view	Colloids and Surfaces a-Physicochemical and Engineering Aspects	2013, 435, 28-35
40	Catalytic performance of MnO _x -NiO composite oxide in lean methane combustion at low temperature.	Appl. Catal. B: Environ.	2013, 129(1): 172-181
41	Ternary composite oxide catalysts CuO/Co ₃ O ₄ -CeO ₂ with wide temperature-window for the preferential oxidation of CO in H ₂ -rich stream	Chemical Engineering Journal	2013, 234, 88-98
42	Promotional effect of Partial substitution of Zn by Ce in CuZnAlO catalysts used for hydrogen production via steam reforming of dimethyl ether	Journal of Power Sources	2013, 232, 286-296
43	Domain-confined catalytic soot combustion over Co ₃ O ₄ anchored on a TiO ₂ nanotube array catalyst prepared by mercaptoacetic acid induced surface-grafting	Nanoscale	2013, 5,12144-12149
44	Dopant-Induced Modification of Active Site Structure and Surface Bonding Mode for High-Performance Nanocatalysts: CO Oxidation on Capping-free (110)-oriented CeO ₂ :Ln (Ln = La-Lu) Nanowires	J. Am. Chem. Soc.	2013, 135, 15191-15200
45	Iron Isotope Effect and Local Lattice Dynamics in the (Ba, K)Fe ₂ As ₂ Superconductor Studied by Temperature-Dependent EXAFS	Scientific Reports	2013, 3, 1750
46	Mercury speciation and mercury isotope fractionation during ore roasting process and their implication to source identification of downstream sediment in the Wanshan mercury mining area, SW China	Chemical Geology	2013, 336, 72-79
47	Synthesis and antimicrobial activity of ZnTi-layered double hydroxide nanosheets	J. Mater. Chem. B	2013, 1, 5988-5994
48	Negative expansions of interatomic distances in metallic melts	PNAS	2013, 110, 10068-10072

49	Chlorine as an Indicator in the Controllable Preparation of Active Nano-Gold Catalyst	Scientific Reports	2013, 3, 1503
50	Enhanced low-temperature activity of CO ₂ methanation over highly-dispersed Ni/TiO ₂ catalyst	Catal. Sci. Technol.	2013, 3, 2627
51	Ni-In Intermetallic Nanocrystals as Efficient Catalysts towards Unsaturated Aldehydes Hydrogenation	Chem. Mater.	2013, 25, 3888.
52	A Surface Defect-Promoted Ni Nanocatalyst with Simultaneously Enhanced Activity and Stability	Chem. Mater.	2013, 25, 1040
53	Strikingly dissimilar effect of Mn and Zn dopants imposed on local structural distortion of Ba _{0.5} K _{0.5} Fe ₂ As ₂ superconductor	J. Synchrotron Rad.	2013, 20, 455–459
54	Roles of pyrolysis on availability, species and distribution of Cu and Zn in the swine manure: Chemical extractions and high-energy synchrotron analysis	Chemosphere	2013, 93, 2094-2100
55	Direct Contact versus Solvent-Shared Ion Pairs in Saturated NiCl ₂ Aqueous Solution: A DFT, CPMD, and EXAFS Investigation	J. Phys. Chem. A	2013, 117, 8468–8476
56	Effects of cerium oxide catalyst on the dehydrogenation of lithium alanate using synchrotron XRD and XAFS	International Journal of Hydrogen Energy	2013, 38(36), 16080–16089
57	Mn-doping induced magnetic properties in Co ₂ CrO ₄ system	Phys. Status Solidi B	2013, 250, 1287-1292
58	Arsenate and cadmium co-adsorption and co-precipitation on goethite	Journal of Hazardous Materials	2013, 262, 55– 63
59	Evidence of an interlayer charge transfer route in BiCu _{1-x} SeO	Journal of Materials Chemistry A	2013, 1, 12154-12158
60	The Interaction of CuS and <i>Halothiobacillus</i> HT1 Biofilm in Microscale Using Synchrotron Radiation-Based Techniques	International Journal of Molecular Sciences	2013, 14,11113-11124
61	Subcellular Distribution of Metals within <i>Brassica chinensis</i> L. in Response to Elevated Lead and Chromium Stress	JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	2013, 61, 4715–4722
62	Suppression of Bragg reflection glitches of a single-crystal diamond anvil cell by a polycapillary	Journal of Synchrotron	2013, 20, 243–248.

	half-lens in high-pressure	Radiation	
63	mercury modulates selenium activity via altering its accumulation and speciation in garlic(<i>Allium sativum</i>)+	Metallomics	2013, 5, 896
64	cellular response of <i>E.coli</i> upon hg ²⁺ exposure-a case study of advanced nuclear analytical approach to metalloproteomics	Metallomics	2013, 5, 913
65	明代官窑釉里红瓷器 SR-XRF 微区线扫描分析	核技术	2013, 070103-1;
66	阿勒泰恰夏铜矿床的富 CO ₂ 流体与矿床成因	矿床地质	2013, 323~336
67	XAFS Investigation on Zincblende ZnS up to 31.7GPa	Chinese Physics Letters	2013, 30(4)046101
68	衍射增强成像提取多种信息的简便方法研究	物理学报	2013, 62(12), 124202
69	Real-time observation on evolution of droplets morphology affected by electric current pulse in Al-Bi immiscible alloy	Journal of Materials Engineering and Performance	2013, 22(5), 1319-1323
70	Penetrating view of nano-structures in <i>Aleochara verna</i> spermatheca and and flagellum by hard X-ray microscopy and flagellum by hard X-ray microscopy	Chin. Phys. B	2013, 22(7), 076801
71	Investigation of the crystal defects in synthesized diamond by synchrotron radiation topography	Advanced Materials Research	2013, 721, 109-112
72	Reconstruction of the Growth History of a Large Synthesized Diamond Crystal by Synchrotron Topography	Advanced Materials Research	2013, 739, 7-11
73	纳米 CT 成像表征锦纶 6 中 TiO ₂ 颗粒分布状况	高等学校化学学报	2013, 34(2), 269
74	Visualising liver fibrosis by phase-contrast X-ray imaging in common bile duct ligated mice	Eur Radiol	2013, 23, 417-23
75	Synchrotron-radiation X-ray Topography of the Rapid Grown KDP Crystals	Applied Mechanics and Materials	2013, 320, 325-328
76	X 射线成像技术在昆虫形态学研究中的应用	生命科学	2013, 25(8), 771-778
77	小鼠听泡 Micro—CT 实验研究	中华耳鼻咽喉头颈外科杂志	2013, 48(8), 673-676
78	An Approach to Calculate the Directions of Crystal Defects in Synchrotron Radiation Topography	Advanced Materials Research	2013, 772, 566-570
79	Effects of oxygen vacancy on the electronic	Dalton Transactions	2013, 42,

	structure and multiferroics in sol-gel derived Pb _{0.8} Co _{0.2} TiO ₃ thin films		10358-10364
80	Multiferroics and Electronic Structure of (1-x)PbTiO ₃ -xBi(Ni _{1/2} Ti _{1/2})O ₃ Thin Films	Thin Solid Films	2013, 542, 155-159
81	Detection of Fe 3d electronic states in the valence band and magnetic properties of Fe-doped ZnO film	Chinese Physics B	2013, 22(2), 026101
82	physicochemical origin for free radition generation of Iron oxide nanoparticles in biomicroenvironment cadalytic activities mediated by surface chemical states	J. phys. Chem. C	2013,117,383-392
83	In situ electronic structure study of VO ₂ thin film across metal-insulator transition	Chin. Phys. B	2013, 22(12), 127103
84	Luminescence, cathodoluminescence and Ce ³⁺ / Eu ²⁺ energy transfer and emission enhancement in the Sr ₅ (PO ₄) ₃ Cl:Ce ³⁺ , Eu ²⁺ phosphor	Journal of Materials Chemistry C	2013, 1, 7155-7165
85	A potential cyan-emitting phosphor Sr ₈ (Si ₄ O ₁₂)Cl ₈ :Eu ²⁺ for wide color gamut 3D-PDP and 3D-FED	Journal of Materials Chemistry C	2013, 1, 1305-1308
86	A high efficiency blue phosphor BaCa ₂ MgSi ₂ O ₈ :Eu ²⁺ under VUV and UV excitation	Journal of Materials Chemistry C	2013, 1, 493-499
87	VUV-UV luminescence of Ce ³⁺ , Pr ³⁺ doped and Ce ³⁺ -Pr ³⁺ codoped NaLa(PO ₃) ₄	Journal of Luminescence	2013, 143, 21-26
88	Luminescence and site occupancies of Eu ³⁺ in La ₂ CaB ₁₀ O ₁₉	Dalton Transactions	2013, 42, 12891-12897
89	Vibronic photoexcitation spectra of irradiated spinel MgO.nAl ₂ O ₃ (n = 2) at low temperatures	Nuclear Instruments & Methods in Physics Research B	2013, 305(33-36)
90	VUV spectroscopic properties of Ba ₂ Gd ₂ Si ₄ O ₁₃ :Re ³⁺ (Re ³⁺ = Ce ³⁺ , Tb ³⁺ , Dy ³⁺ , Eu ³⁺ , Sm ³⁺)	Materials Research Bulletin	2013, 48, 1952-1956
91	Vacuum ultraviolet texcited luminescence properties of Ca ₃ Gd ₇ (SiO ₄) ₅ (PO ₄)O ₂ :Re ³⁺ (Re ³⁺ =Tb ³⁺ , Dy ³⁺) phosphors	Journal of Physics and Chemistry of Solids	2013, 74, 1499-1503
92	Investigation of the luminescence properties of Tb ³⁺ -doped Li ₆ Y(BO ₃) ₃ phosphors in VUV-VIS	Journal of Luminescence	2013, 136, 51-56

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93	Microwave Assisted Sintering of Thermally Stable BaMgAl ₁₀ O ₁₇ :Eu ²⁺ Phosphors	ECS Journal of Solid State Science and Technology	2013, 2 (9), R196-R200
94	Influence of Gd ³⁺ on the visible quantum cutting in green-emitting silicate Na ₃ Gd _{0.9-x} Y _x Si ₃ O ₉ :0.1Tb ³⁺ phosphors	Materials Research Bulletin	2013, 48, 2139–2142
95	Observation of efficient energy transfer from host to rare-earth ions in KBaY(BO ₃) ₂ :Tb ³⁺ phosphor for plasma display panel	Journal of Alloys and Compounds	2013, 551, 485–489
96	Crystal structure refinement and luminescence properties of Ce ³⁺ singly doped and Ce ³⁺ /Mn ²⁺ codoped KBaY(BO ₃) ₂ for n-UV pumped white-light emitting diodes	RSC Advances	2013, 3, 16534
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102	Comparative study of sulfur utilization and speciation transformation of two elemental sulfur species by thermoacidophilic Archaea <i>Acidianus manzaensis</i> YN-25	Process Biochemistry	2013, 48, 1855–1860
103	The Oxidation State of Sulfur Detected in Na ₂ O-CaO-SiO ₂ Float Glass by X-ray Absorption Near Edge Structure Spectra	Journal of Wuhan University of Technology-Mater. Sci. Ed.	2013, 28(1), 79-81

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105	Impacts of sulfur regulation in vivo on arsenic accumulation and tolerance of hyperaccumulator <i>Pteris vittata</i>	Environmental and Experimental Botany	2013, 85,1-6
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109	Calcium-promoted catalytic activity of potassium carbonate for gasification of coal char: The synergistic effect unrelated to mineral matter in coal	Fuel	2013, 112, 628-635
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118	Quantitative Measurement of the Proportions of High-Order Harmonics for the 4B7B Soft-X-Ray Source at Beijing Synchrotron Radiation Facility	Plasma Science and Technology,	2013,15(12), 1194
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121	X-Ray Magnetic Linear Dichroism of $\text{Co}_{35}\text{Fe}_{65}$ Alloy Films Annealed with and without Oxygen Gas	Chinese Physics Letters	2013, 30, 107501
122	Multilayer-based soft X-ray polarimeter at the Beijing Synchrotron Radiation Facility	Chinese Physics C	2013, 37, 078001
123	Pressure accelerated 1,3-dipolar cycloaddition of azide and alkyne groups in crystals	Chemical Communications	2013, 49, 10130--10132
124	Pressure-induced isosymmetric phase transition in sulfamic acid: A combined Raman and x-ray diffraction study	THE JOURNAL OF CHEMICAL PHYSICS	2013, 138, 214505
125	Pressure-Induced Irreversible Phase Transition in the Energetic Material Urea Nitrate: Combined Raman Scattering and X-ray Diffraction Study	THE JOURNAL OF PHYSICAL CHEMISTRY C	2013, 117, 152–159
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130	Phase transformations and vibrational properties of coronene under pressure	The Journal of Chemical Physics	2013, 139 (14), 144308
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143	X-ray diffraction study of calcium-lead fluorapatite solid solution at high pressure the composition dependence of the bulk modulus and its pressure derivative	High temperatures-High pressures	2013, 42, 69-80
144	An in situ high-pressure X-ray diffraction experiment on hydroxyapophyllite	Chin. Phys. B	2013, 22(1), 010702
145	Pressure-induced structural phase transition and equation of state of LiTaO ₃	J PHYS-CONDENS MAT	2013, 25, 215401
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164	非静水压下不同强度材料的应力传递特性	高压物理学报	2013, 27, 205
165	Cubic perovskite polymorph of strontium metasilicate at high pressures	American Mineralogist,	2013, 98,2096–2104
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