

2012 Publications

No.	Title	Author	Journal Informaion
1.	冀北东坪金矿床深部-外围的构造-蚀变-流体成矿研究	G.R., Zhang	Acta Petrologica Sinica, 28(2), 637-651, 2012
2.	新疆阿尔泰可可托海 3 号伟晶岩脉绿柱石流体包裹体 SRXRF 研究	L.H., Lin	Acta Petrologica et Mineralogica, 31(4), 603-611, 2012
3.	Study of an archeological opaque red glass bead from China by XRD, XRF, and XANES	J., Zhu	X-ray spectrometry, 41, 363-366, 2012
4.	金刚石中微量元素的同步辐射 X 射线荧光分析	X.J., Lai	Geological Science and Technology Information, 31(4), 40-43, 2012.
5.	First evidence on different transportation modes of arsenic and phosphorus in arsenic hyperaccumulator <i>Pteris vittata</i>	M., Lei	Environmental Pollution, 161, 1-7, 2012
6.	XANES analysis of spectral properties and structures of arsenate adsorption on TiO ₂ surfaces	G.Z., He	Journal of Synchrotron Radiation, 19,394-399, 2012
7.	Performance of K and Ni substituted La _{1-x} K _x Co _{1-y} Ni _y O _{3-d} perovskite catalysts used for soot combustion, NO _x storage and simultaneous NO _x -soot removal	Z.Q., Li	Fuel, 93, 606-610, 2012
8.	Multifunctional hydrotalcite-derived K/MnMgAlO catalysts used for soot combustion, NO _x storage and simultaneous soot-NO _x removal	Q., Li	Chemical Engineering Journal, 184, 106-112, 2012
9.	Highly efficient multifunctional dually-substituted perovskite catalysts La _{1-x} K _x Co _{1-y} Cu _y O _{3-d} used for soot combustion, NO _x storage and simultaneous NO _x -soot removal	Z.Q., Li	Applied Catalysis B: Environmental, 121-122, 65-74, 2012
10.	Performance of Ce substituted hydrotalcite-derived mixed oxide catalysts Co _{2.5} Mg _{0.5} Al _{1-x%} Ce _{x%} O used for soot combustion and simultaneous NO _x -soot removal	F.F., Dai	Fuel Processing Technology, 104, 43-49, 2012
11.	Adsorption of mercury on lignin: Combined surface complexation modeling and X-ray absorption spectroscopy studies	J.T., Lv	Environmental Pollution, 162:255-261, 2012
12.	Dissolution and Microstructural Transformation of ZnO Nanoparticles under the Influence of Phosphate	J.T., Lv	Environmental Science & Technology, 46 (3): 7215-7221, 2012

13.	Local structure of NiAl compounds investigated by extended X-ray absorption fine structure spectroscopy	J.S., Tian	J. Synchrotron Radiat., 19(4):503-507, 2012
14.	Ce–Ti amorphous oxides for selective catalytic reduction of NO with NH ₃ : Confirmation of Ce–O–Ti active sites	P., Li	Environmental Science & Technology, 46, 9600–9605, 2012
15.	Heterogeneous UV/Fenton degradation of TBBPA catalyzed by titanomagnetite: Catalyst characterization, performance and degradation products	Y.H., Zhong	Water Research, 46, 4633-4644, 2012
16.	Room-temperature activation of methane over Zn modified H-ZSM-5 Zeolites: Insight from solid-state NMR and theoretical calculations.	J., Xu	Chem. Sci., 3, 2932-2940, 2012
17.	Biotransformation of ceria Nano particles in cucumber plants	P., Zhang	ACS Nano., 6(11):9943-50, 2012
18.	Characterization of Ni-rich hexagonal birnessite and its geochemical effects on aqueous Pb ²⁺ /Zn ²⁺ and As(III)	H., Yin	Geochimica et Cosmochimica Acta, 93: 47-62, 2012
19.	Improving the Solubility of Mn and Suppressing the Oxygen Vacancy Density in Zn _{0.98} Mn _{0.02} O Nanocrystals via Octylamine Treatment	Y., Cheng	ACS Applied Materials & Interfaces, 4, 4470–4475, 2012
20.	Implications of Mercury Speciation in Thiosulfate Treated Plants	J.X., Wang	Environmental Science & Technology, 46, 5361-5368, 2012
21.	Metal–insulator transition in V _{1-x} W _x O ₂ , structural and electronic origin	C., Si	Physical Chemistry Chemical Physics, 14, 15021–15028, 2012
22.	Regulation of Magnetic Behavior and Electronic Configuration in Mn-Doped ZnO Nanorods through Surface Modifications	L,J., Zhang	Chemistry of Materials, 24, 1676-1681, 2012
23.	High-Tc ferromagnetism in a Co-doped ZnO system dominated by the formation of a zinc-blende type Co-rich ZnCoO phase	L,J., Zhang	Chem. Commun., 48, 91-93, 2012
24.	Investigation of nitrous oxide decomposition over highly active and stable bimetallic CoFe-MOR zeolite catalyst: effective removal and mechanism study	X.Y., Zhang	Catal. Sci. Technol., 2, 1059–1067, 2012
25.	Tuning ceria nanocrystals morphology and structure by copper doping	N., Qiu	Crystal growth & design, 12,629-634, 2012

26.	Uranium(VI) adsorption on graphene oxide nanosheets from aqueous solutions	Z.J., Li	Chem Eng. J., 210:539-546, 2012
27.	Coordination variation of hydrated Cu ²⁺ /Br ¹⁻ ions traversing the interfacial water in mesopores	Q., Wang	AIP ADVANCES, 2, 02207, 2012
28.	Hexane-Driven Icosahedral to Cuboctahedral Structure Transformation of Gold Nanoclusters	Y.Y., Li	J. Am. Chem. Soc., 134, 17997–18003, 2012
29.	Identification of 13- and 14-Coordinated Structures of First Hydrated Shell of [AuCl ₄] ⁻ Acid Aqueous Solution by Combination of MD and XANES	Q., Ye	J. Phys. Chem. B, 116, 7866–7873, 2012
30.	Modifying the Atomic and Electronic Structures of Gold Nanocrystals via Changing the Chain Length of n-Alkanethiol Ligands	Y., Jiang	J. Phys. Chem. C, 116 (47), 24999–25003, 2012
31.	Investigation of modification of hydrogenation and structure properties of multi-substituted LaNi ₅ alloys	C.B., Wan	International Journal of Hydrogen energy, 37, 13234-13242, 2012
32.	Probing Nucleation Pathways for Morphological Manipulation of Platinum Nanocrystals	T., Yao	J. Am. Chem. Soc., 2012, 134, 9410–9416
33.	Bacterial reduction and release of adsorbed arsenate on Fe(III)-, Al- and coprecipitated Fe(III)/Al-hydroxides	X.X., Zhang	Journal of Environmental Science, 24(3), 440-448, 2012
34.	Studies on late formation of 3D ordered macroporous materials through colloidal crystal templates	L.L., Yang	J. Porous Mat., 19:1023–1026, 2012
35.	tunable photonic performance of three-dimensional macroporous tungsten oxide	D.T., Ge	Optoelectronics and Advanced Materials, 6, (9-10), 793 – 796, 2012
36.	Nonaqueous lyotropic liquid-crystalline phases formed by Gemini surfactants in a protic ionic liquid	X.D., Wang	Langmuir, 28,2476-2484, 2012
37.	Effects of Structure Dissymmetry on Aggregation Behaviors of Quaternary Ammonium Gemini Surfactants in a Protic Ionic Liquid EAN	X.D., Wang	Langmuir, 28, 16547–16554, 2012
38.	Optimization of a three slit collimation system for a SAXS camera with a divergent beam	Z.H., Li	Journal of X-Ray Science and Technology, 20, 331–338, 2012
39.	Complex Structures of the Abscisic Acid Receptor PYL3/RCAR13 Reveal aUnique Regulatory Mechanism	X.L., Zhang	Structure, 20, 780–790, 2012

40.	Crystal and solution structures of methyltransferase RsmH provide basis for methylation of C1402 in 16S rRNA	Y., Wei & H., Zhang	Journal of Structural Biology, 179: 29–40, 2012
41.	A novel mesoporous material for uranium extraction, dihydroimidazole functionalized SBA-15	L.Y., Yuan	J. Mater. Chem., 22: 17019-17026, 2012
42.	A high efficient sorption of U(VI) from aqueous solution using amino-functionalized SBA-15	Y.L., Liu	J. Radioanal. Nucl. Chem., 292: 803-810, 2012
43.	The structural basis of the response regulator DrRRA from <i>Deinococcus radiodurans</i>	Y., Liu	Biochemical and Biophysical Research Communications, 417, 1206–1212, 2012
44.	Shear effects on crystallization behavior of poly (ethylene-co-octene) copolymers	H.Y., Wen	J Polym Res., 19:9801, 2012
45.	Nanosized poly(ethylene glycol) domains within reverse micelles formed in CO ₂	Z.M., Xue	Angew. Chem. Int. Ed., 51,12325-12329, 2012
46.	Ionic liquid-in-ionic liquid nanoemulsions	J.S., Li	Chem. Commun., 48, 10562-10564, 2012
47.	Stepwise Ordering of Imidazolium-Based Cationic Surfactants during the Cooling-Induced Crystallization	F.G., Wu	Langmuir, 28 (19): 7350–7359, 2012
48.	Crystallization from the micellar phase of imidazolium-based cationic surfactants	F.G., Wu	Journal of Colloid and Interface Science, 374(1): 197–205, 2012
49.	Reversible Lamellar Thickening Induced by Crystal Transition in Poly(butylene succinate)	G.M., Liu	Macromolecules, 45, 5487–5493, 2012
50.	Crystallization behavior of poly(ϵ -caprolactone) and poly (ϵ -caprolactone)/ LiClO ₄ complexes from the melt	Y., Zhang,	CrystEngComm, 14, 7972–7980, 2012
51.	非晶态硅酸盐介观团粒结构模型及其参数	P.C., Xu	武汉大学学报(理学版), 58(3): 209-214, 2012
52.	Fluoroalkyl-grafted mesoporous silica antireflective films with enhanced stability in vacuum	J.H., Sun	Optics Letters, 37(19), 4095-4097, 2012
53.	Degradation behavior of ultra-high molecular weight polyethylene fibers under artificial accelerated weathering	C.S., Li	Polymer Testing 31, 938–943, 2012
54.	含铁骨架 Fe-Al-EU-1 分子筛的设计合成和晶化	D.H., Yang	Acta Phys. -Chim. Sin., 28 (3), 720-728, 2012
55.	Adsorption of Pb(II) from aqueous solution by a poly-elemental mesoporous adsorbent	X.W., Wu	Applied Surface Science, 258, 5516– 5521, 2012

56.	Local structure and p–d hybridization of Mn-doped In ₂ O ₃ films	Y.K., An	Journal of Physics D: Applied Physics, 45, 295304, 2012
57.	Investigation of microstructures and optical properties in Mn-doped SiC films	Y.K., An	Applied Surface Science, 258, 7070– 7074, 2012
58.	Facile One-step Synthesis of Ordered Mesoporous Carbons Doped with Nickel Particles	P., Li	International Journal of Electrochemical Science, 7, 4039 – 4046, 2012
59.	Preparation of highly-ordered mesoporous carbons by organic-organic self-assembly using the reverse amphiphilic triblock copolymer PPO–PEO–PPO with a long hydrophilic chain	P., Li	Microporous and Mesoporous Materials, 159, 81-86, 2012
60.	硼掺杂中孔炭的制备及电化学性能研究	X.L., Zhai	新型炭材料, 26, 211-216, 2012
61.	Soft nanoconfinement effects on the crystallization behavior of asymmetric poly(ethylene oxide)- <i>block</i> -poly(ϵ -caprolactone) diblock copolymers	F.F., Xue	Polymer International, 61(6), 909-917, 2012
62.	Real time synchrotron SAXS and WAXS investigations on temperature related deformation and transitions of b-iPP with uniaxial stretching	Z.W., Cai	Polymer, 53, 1593-1601, 2012
63.	Comparision of Silica Anti-Reflective Films Obtained via a Sol-Gel Process in the Presence of PEG or PVP	H., Tian	Acta Phys-Chim Sin., 28 (5), 1197-1205, 2012
64.	Multifunctional L 1 0 -Mn 1.5 Ga Films with Ultrahigh Coercivity, Giant Perpendicular Magnetocrystalline Anisotropy and Large Magnetic Energy Product	L.J., Zhu	Advanced Materials, 24, 4547-4551, 2012
65.	Synthesis and high pressure transformation of metastable wurtzite structured CuGaS ₂ nanocrystals	N.R., Xiao	Nanoscale, 4(23), 7443-7447, 2012
66.	Polymorphism and Formation Mechanism of Nanobipods in Manganese Sulfide Nanocrystals Induced by Temperature or Pressure	X.Y., Yang	The Journal of Physical Chemistry C, 116(5), 3292-3297, 2012
67.	Effect of High Pressure on the Typical Supramolecular Structure of Guanidinium Methanesulfonate	S.R., Li	The Journal of Physical Chemistry B, 116(10), 3092-3098, 2012
68.	Pressure-Induced Phase Transition in N–H...O Hydrogen-Bonded Molecular Crystal Oxamide	T.T., Gu	The Journal of Physical Chemistry B, 116(32), 9796-9802, 2012

69.	Compression Studies of Face-to-Face π -Stacking Interaction in Sodium Squarate salts: $\text{Na}_2\text{C}_4\text{O}_4$ and $\text{Na}_2\text{C}_4\text{O}_4 \cdot 3\text{H}_2\text{O}$	Q., Li	The Journal of Chemical Physics, 137(18), 184905, 2012
70.	Synthesis and Pressure-induced Reversible Phase Transition of a Europium Germanate NaEuGeO_4	X.G., Zhao	Chinese Journal of Chemistry, 30(9), 2066-2072, 2012
71.	Exploration of the Pyrazinamide Polymorphism at High Pressure	X., Tan	J. Phys. Chem. B, 116 (49), 14441–14450, 2012
72.	Large Volume Collapse during Pressure-Induced Phase Transition in Lithium Amide	X.L., Huang	The Journal of Physical Chemistry C, 116, 9744–9749, 2012
73.	A new cubic perovskite in PbGeO_3 at high pressures	W.S., Xiao	American Mineralogist, 97, 1193–1198, 2012
74.	High pressure X-ray diffraction study on BaWO_4 -II	D.Y., Tan	High Pressure Research, 32:2, 262-269, 2012
75.	Structural properties of PbVO_3 perovskites under hydrostatic pressure conditions up to 10.6 Gpa	W., Zhou	J. Phys.: Condens. Matter, 24 435403, 2012
76.	Electronic Structure Inheritance and Pressure-Induced Polymorphism in Lanthanide-Based Metallic Glasses	G., Li	Physical Review Letters, 109, 125501, 2012
77.	Structural evolution of Lanthanide-based metallic glasses under high pressure annealing	Y.Y., Wang	Journal of Alloys and Compounds, 551,185-188, 2012
78.	From antiferromagnetic insulator to correlated metal in pressurized and doped LaMnPO	J. W., Simonson	Pnatl. Acad. Sci. USA, 109(27):E1815-9, 2012
79.	Pressure-induced structural change in orthorhombic perovskite GdMnO_3	C.L., Lin	J. Phys-Condens Mat., 24, 115402, 2012
80.	Phase transformation in hexagonal ErMnO_3 under high pressure	C.L., Lin	J. Appl. Phys., 112, 113512, 2012
81.	Strength and equation of state of fluorite phase CeO_2 under high pressure	L., Liu	J. Appl. Phys., 112, 013532, 2012
82.	Determinations of the High-Pressure Crystal Structures of Sb_2Te_3	Y.M., Ma	J. Phys.: Condens. Matter, 24, 475403, 2012
83.	High pressure structural study of b- Ti_3O_5 : X-ray diffraction and Raman spectroscopy	Y., Wu	Journal of Solid State Chemistry, 192, 356–359, 2012

84.	High-pressure and high-temperature in situ X-ray diffraction study of FeP ₂ up to 70 GPa	T.T., Gu	Chinese Physics Letters, 29(2), 026102, 2012
85.	J. A re-investigation on pressure-induced phase transition of Mg ₂ Si	F., Zhu	Solid State Communications, 152, 2160-2164, 2012
86.	Stability and phase transition of nanoporous rutile TiO ₂ under high pressure	Q.L., Li	RSC Advances, 2(24), 9052-9057, 2012
87.	High pressure-induced structural phase transition in hexagonal CeF ₃ nanoplates	P., Wang	Journal of Applied Physics, 111(11), 112627, 2012
88.	Effect of Grain Size on Pressure-Induced Structural Transition in Mn ₃ O ₄	H., Lv	Journal of Physical Chemistry C, 116(3), 2165-2171, 2012
89.	The structural stability of AlPO ₄ -5 zeolite under pressure: Effect of the pressure transmission medium	H., Lv	Journal of Applied Physics, 111(11), 112615, 2012
90.	Constructing Single-Chain Magnet by Supramolecular p-p Stacking and Spin Canting Approach: A Case Study on Manganese (III) Corroles	M., Ding	Chemistry-A European Journal, 18, 915-924, 2012
91.	Crystallization and preliminary X-ray diffraction studies of the abscisic acid receptor PYL3 and its complex with pyrabactin	X.L., Zhang	Acta Cryst., F68, 479-482, 2012
92.	"Seeding" with protease to optimize the protein crystallization condition of in-situ proteolysis	J.G., Huang	Acta Cryst., F68, 606-609, 2012
93.	Structural basis for the autoinhibition of the C-terminal kinase domain of human RSK1	D., Li	Acta Cryst., D68, 680-685, 2012
94.	Structure features of single strand DNA(ssDNA) binding protein MoSub1 from Magnaporthe oryzae	J.G., Huang	Acta Cryst., D68, 1071-1076, 2012
95.	Synthesis, structure, photophysics and electrochemiluminescence of Re(I) tricarbonyl complexes with cationic 2,2-bipyridyl ligands	M.J., Li	Dalton Trans., 41,10612-10618, 2012
96.	Electrochemiluminescence Properties of [Pt ₂ Ag ₄ (C≡CC ₆ H ₄ R) ₈] _n (R = CH ₃ , n = 1; R = H, n = 1 and 2) with Amine (TPrA and DBAE) as the Coreactant and Determination of Sudan I	Q.H., Wei	Inorg. Chem., 51,11117-11125, 2012
97.	Crystal Structures of the Transcriptional Repressor RolR Reveals a Novel Recognition Mechanism between Inducer and Regulator	D.F., Li	PLOS One, 6(5), e19529, 2012

98.	Structural Insights into the Pseudomonas aeruginosa Type VI Virulence Effector Tse1 Bacteriolysis and Self-protection Mechanisms	J.J., Ding	The Journal of Biological Chemistry, 287(32), 26911–26920, 2012
99.	绿脓杆菌特有的 Tsi2 三维结构 --一种全新卷曲螺旋构象的类抗毒素蛋白	W., Wang	Prog. Biochem. Biophys., 39(7), 640-646, 2012
100.	Insights into the Catalytic Mechanism of 16S rRNA Methyltransferase RsmE (m3U1498) from Crystal and Solution Structures	H., Zhang	Journal of Molecular Biology, 423: 576-589, 2012
101.	Structural insights into the function of 23S rRNA methyltransferase RlmG (m2G1835) from Escherichia coli	H., Zhang	RNA, 18:1500–1509, 2012
102.	Crystal structure of type VI effector Tse1 from Pseudomonas aeruginosa	H., Zhang	FEBS Letters, 586, 3193–3199, 2012
103.	Crystallization and preliminary crystallographic analysis of Arabidopsis thaliana BRI1-associated kinase 1 (BAK1) cytoplasmic domain	J., Gao	Acta Cryst., F 68, 340–342, 2012
104.	Crystallographic analysis of the conserved C-terminal domain of transcription factor Cdc73 from Saccharomyces cerevisiae reveals a GTPase-like fold	H.K., Chen	Acta Cryst., D68, 953–959, 2012
105.	Crystallization and preliminary X-ray analysis of S-ribosylhomocysteinase from Streptococcus mutans	H., Li	Acta Cryst., F 68, 199–202, 2012
106.	Structural and Functional Analysis of Validoxylamine A 79-phosphate Synthase Vall Involved in Validamycin A Biosynthesis	L.N., Zhang	PLOS One, 7(2), e32033, 2012
107.	Structural insight into the ISC domain of VibB from Vibrio cholerae at atomic resolution: a snapshot just before the enzymatic reaction	S.H., Liu	Acta Cryst. D68, 1329–1338, 2012
108.	Structural analysis of Shu proteins reveals a DNA binding role essential for resisting damage	Y.Y., Tao	Journal of Biological Chemistry, 287, 20231-20239, 2012.
109.	Rigidity of Wedge Loop in PACSIN 3 Protein Is a Key Factor in Dictating Diameters of Tubules	X.Y., Bai	The Journal of Biological Chemistry, 287(26) 22387–22396, 2012
110.	Cloning, purification, crystallization and preliminary X-ray diffraction analysis of mouse PACSIN 3 protein	X.Y., Bai	Acta Cryst., F 68, 159–62, 2012

111.	北京同步辐射 1W2B 生物大分子束线双丝型 BPM 实时跟踪监测系统	G.C., Chang	中国科学技术大学学报, 2012 年第 04 期
112.	北京同步辐射生物大分子光束线监测系统	X., Guo	核电子学与探测技术, 2012 年 32 卷 1 期
113.	Structure Refinement and Two-Center Luminescence of $\text{Ca}_3\text{La}_3(\text{BO}_3)_5:\text{Ce}^{3+}$ under VUV.UV Excitation	C.M., Liu	Inorganic Chemistry, 51, 8802–8809, 2012
114.	Site occupancy and luminescence of Ce^{3+} in $\text{NaSr}_4(\text{BO}_3)_3$	X.M., Ding	Journal of Physics D: Applied Physics, 45, 365301, 2012
115.	Luminescence and Morphology of $\text{BaMgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$ Phosphors Prepared from Different Phases of Al_2O_3	H.Y., Ni	Journal of the American Ceramic Society, 95 [10] 3197–3201, 2012
116.	Temperature Sensitive Luminescence of Ce^{3+} in Two Different Sites of $\text{Na}_3\text{LuSi}_2\text{O}_7$	H.Y., Ni	Journal of The Electrochemical Society, 159 (3) J43-J47, 2012
117.	VUV–vis photoluminescence of $\text{GdAl}_3(\text{BO}_3)_4:\text{Eu}^{3+}$ and energy transfer from Gd^{3+} to Eu^{3+}	J., He	Materials Chemistry and Physics, 132, 756–760, 2012
118.	Luminescence of Ce^{3+} activated NaCaPO_4 under VUV–UV and X-ray excitation	Y.H., Wang	Optical Materials, 34, 1214–1218, 2012
119.	Yellow-white emission of Ce^{3+} and Eu^{2+} doped $\text{Li}_2\text{SrSiO}_4$ under low-voltage electron-beam excitation	M.B., Xie	Optics Express, 20(14), 15891-15898, 2012
120.	Luminescence of Eu^{3+} in Two Different Sites of $\text{Na}_3\text{GdSi}_2\text{O}_7$ and Gd^{3+} - Eu^{3+} Energy Transfer	H.Y., Ni	ECS Journal of Solid State Science Technology, 1(1), R27-R31, 2012.
121.	Vacuum Ultraviolet Ultraviolet, X-Ray, and Near-Infrared Excited Luminescence Properties of $\text{SrR}_2\text{O}_4:\text{RE}^{3+}$ (R = Y and Gd; RE = Tb, Eu, Yb, Tm, Er, and Ho)	J., Zhang	Journal of The American Society, 95 [1] 243–249, 2012
122.	Visible Quantum Cutting through Downconversion in $\text{GdBO}_3:\text{Tb}^{3+}$	L., Zhao	Electrochemical and Solid-State Letters, 15 (3) B13-B16, 2012
123.	Influence of air exposure on CsI photocathodes	Y.G., Xie	Nuclear Instruments and Methods in Physics Research A, 689, 79–86, 2012

124.	Quantum efficiency measurement of CsI photocathodes using synchrotron radiation at BSRF	Y.G., Xie	Nuclear Instruments and Methods in Physics Research A, 664, 310–316, 2012
125.	Pr ³⁺ , Tb ³⁺ 共掺的 NaGdF ₄ 和 GdB ₃ O ₆ 的 VUV 荧光性质	F.T., You	发光学报, 33(5), 460-464, 2012
126.	Photoluminescence properties of red-emitting phosphors Ln(3)BWO(9):Eu ³⁺ (Ln=Y, La, Gd)	J.Y., Liu	Journal of luminescence, 132(11), 2874-2878, 2012
127.	退火温度对 GdBO ₃ :Eu ³⁺ /AAO 薄膜形貌和发光性质的影响	Z., Yang	发光学报, 33(10),1101-1106, 2012
128.	Transmembrane and extramembrane contributions to membrane protein thermal stability: Studies with the NaChBac sodium channel	A.M. Powl,	Biochimica et Biophysica Acta, 1818, 889–895, 2012
129.	Photoluminescence properties of Al-rich AlXGa1-XN grown on AlN/sapphire template by MOCVD	J.P., Zeng	Phys. Status Solidi C, 9(3–4), 733–736, 2012
130.	Tribological behaviors of three novel imidazoline-type thiadiazole derivatives as multifunctional lubricant additives in biodegradable lithium grease	H., Chen	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 226(8):668–677, 2012
131.	The tribological study of novel phosphorous-nitrogen type phosphoramidate additives in rapeseed oil	J.C., Yan	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 226(5):377–388, 2012
132.	Tribological Behavior of Some Long-Chain Dimercaptothiadiazole Derivatives as Multifunctional Lubricant Additives in Vegetable Oil and Investigation of their Tribochemistry Using XANES	H., Chen	Tribology Letters, 45(3):465–476, 2012
133.	Pressure-induced amorphous-to-amorphous configuration change in Ca-Al metallic glasses	H.B., Lou	Scientific reports, DOI: 10.1038/srep00376
134.	Bio-desulfurization of coals with <i>Acidithiobacillus caldus</i> and analysis the interfacial interaction between cells and pyrite	H., He	Fuel Processing Technology, 101, 73-77, 2012
135.	Analysis of sulfur speciation on chalcopyrite surface bioleached with <i>Acidithiobacillus ferrooxidans</i>	H., He	Minerals Engineering, 27–28, 60–64, 2012

136.	Effect of sodium chloride on sulfur speciation of chalcopyrite bioleached by the extreme thermophile <i>Acidianus manzaensis</i>	C.L., Liang	Bioresource Technology, 110: 462-467, 2012.
137.	Sulfur speciation transformation during bioleaching of pyrite-containing sphalerite concentrate by thermophile <i>Sulfolobus metallicus</i> at 65 °C	J.L., Xia	Journal of Central South University of Technology, 19(7):1961-1966, 2012
138.	3 种典型能量代谢菌浸出黄铜矿及其硫形态的转化	A.A., Peng	中国有色金属学报, 22(10):2930-2937, 2012
139.	Study on the relationship between sulfur functionalities and the characteristics of THAR asphaltene	L.L., Zhang	Journal of Fuel Chemistry and Technology, 40(9),1081–1085, 2012
140.	同步辐射软 X 射线近边吸收谱方法研究长期施肥对黑土有机碳官能团的影响	N., Wang	光谱学与光谱分析, 32(10), 2853-2857, 2012
141.	Probing solid state N-doping in graphene by X-ray absorption near-edge structure spectroscopy	J., Zhong	Carbon, 50, 321 –341, 2012
142.	The influence of AlN interlayers on the microstructural and electrical properties of p-type AlGa _N /Ga _N superlattices grown on GaN/sapphire templates	L., Li	Applied Physics A, 108,857–862, 2012
143.	Improvement of doping efficiency in Mg-Al ₁₀ :14Ga ₀ :86N/GaN superlattices with AlN interlayer by suppressing donor-like defects	N.Y., Liu	Chin. Phys. B, 20(11), 117304, 2012
144.	The influence of residue aggregation in solution on photoluminescence and electroluminescence of polyoctylfluorene thin film	X., Chen	Organic Electronics, 13, 475–482, 2012
145.	Long-Range Ordered Crystallization Structure in the Micromolded Diblock Copolymer Thin Film	P., Zhang	ACS Macro Letters, 1, 1007-1011, 2012
146.	Growth of single-crystalline Cu ₂ O (111)film on ultra thin MgO modified α -Al ₂ O ₃ (0001) substrate by molecular beam epitaxy	J.Q., Li	Journal of Crystal Growth, 353, 63-67, 2012
147.	Growth of single-phase Mg _{0.3} Zn _{0.7} O films suitable for solar-blind optical devices on RS-MgO substrates	H.L., Liang	Thin Solid Films, 520, 1705-1708, 2012
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