

Publications in 2007

No.	Title	Journal	Author
1.	Effect of strain on the transport and magnetoresistance properties of $\text{La}_{0.8}\text{Ca}_{0.2}\text{MnO}_3$ epitaxial thin films	J.Phys.D:Appl.Phys.40 (2007)2723-2727	H.D., Zhang
2.	Self-Assembly of Highly Oriented Lamellar Nanoparticle-Phospholipid Nanocomposites on Solid Surfaces	J.Am.Chem.Soc. Vol.129 (2007) 11332-11333	B., Yuan
3.	Microstructure of Epitaxial Er_2O_3 Thin Film on Oxidized Si (111) Substrate	<i>Chinese.Phys.Lett.</i> , 24, 2007,1649-1652	X.Y., Xue
4.	Electrical Characteristics of InGaN/AlGaIn and InGaN/GaN MQW near UV-LEDs	<i>Chin.Phys.Lett.</i> , 24 (2007)3245-3248	S., Mu
5.	Thickness effect on structure and magnetic properties of $\text{La}_{0.8}\text{Ca}_{0.2}\text{MnO}_3/\text{SrTiO}_3$ films	ACTA PHYSICA SINICA ,Vol.56,No.9 2007	H.D., Zhang
6.	Effect of an indium doped barrier on enhanced near-ultraviolet emission from inGaN/AlGaIn: in multiple quantum wells grown on Si(111)	Nanotechnology18(2007)015 402(5pp)	J.J., Wu
7.	Investigation on the different barrier effect of Ni and PT in the Ti/Al/Pt/Au and Ti/Al/Ni/Au contact to n type GaN	Jour cryst growth 298(2007)804-807	C.Y., Hu
8.	A method for X-ray measurement of liquid structure by reflection of synchrotron radiation	Nuclear Techniques Vol.30,No.7 July 2007, 560-564	C.H., Fang
9.	Insight into Photoactive Sites for the Ethylene Oxidation on Commercial HZSM-5 Zeolites with Iron Impurities by UV Raman, X-ray Absorption Fine Structure, and Electron Paramagnetic Resonance Spectroscopies	J. Phys. Chem. C 2007, 111,5195-5202	G.Y., Yan
10.	Cytochemical behavior of rare earth ions in <i>Euglena gracilis</i> studied by XAFS	J Radioanal Nucl Ch, Vol.272,No.2(2007)359-362	Q.G., Ren
11.	Enhanced Thermal Stability and Oxygen Storage Capacity for $\text{Ce}_x\text{Zr}_{1-x}\text{O}_2$ ($x = 0.4-0.6$) Solid Solutions by Hydrothermally Homogenous Doping of Trivalent Rare Earths	J. Phys. Chem. C 2007, 111, 787-794	R., Si
12.	Determination of copper binding in pseudomonas putida CZ1 by Chemical modification and X-ray absorption spectroscopy	Appl microbiol biot (2007) 74: 881-889	X.C., Chen
13.	Speciation of elements in atmospheric particulate matter by XANES	J. Radioana. Nucl Ch, Vol.273,No.1(2007)247-251	Y.S., Wang
14.	A Comparative Investigation of Co^{2+} and Mn^{2+} Incorporation into Aluminophosphates by in Situ XAS and DFT Computation	J. Phys. Chem. A 2007, 111,1515-1522	M., Dong
15.	An in situ XAS study on the incorporation of metal ions into AlPO_4 -5 framework in hydrothermal synthesis process	Stud. Surf. Sci Catal., 2007,170A:771-777	M., Dong

16.	The Structural Determination of an Endohedral Metallofullerene Gd@C82 by XANES	Chem. Commun 2007 1-4	L., Liu
17.	A mesoporous oxidation catalyst La-Co-Ce-O prepared by citric acid complexation and organic template decomposition method	Catal Lett, Vol.116, Nos. 1-2, July 2007	J. Y., Luo
18.	Local structure of nanocrystalline Lu ₂ O ₃ : Eu studied by X-ray absorption spectroscopy	J. phys. chem. C 2007, 111, 1945-1950	Z. M., Qi
19.	Performances of synchrotron radiation microbeam focused by monolithic half focusing polycapillary x-ray lens	Nucle Instrum Meth A 574(2007)285-288	T. X., Sun
20.	Local structures of Mn in dilute magnetic semiconductor ZnMnO	Solid state commun 141(2007)374-377	W., Xu
21.	Structural disorder and electronic hybridization in Zn _{1-x} Mg _x O solid solutions probed by XANES at the oxygen K edge	J. phys. condensed matter 19(2007)356219 (11pp)	D. L., Chen
22.	Structures and magnetic properties of (Mn, N)-codoped ZnO thin films	Appl. Phys. Lett. 90, 242509 (2007)	W. S., Yan
23.	Zn vacancy induced room-temperature ferromagnetism in Mn-doped ZnO	Appl. Phys. Lett. 91, 062113 (2007)	W. S., Yan
24.	Growth of embedded Ge nanocrystals on different substrates	JOURNAL OF APPLIED PHYSICS 101, 104318 (2007)	W. S., Yan
25.	Formation Mechanism of Ge nanocrystals embedded in SiO ₂ studied by Fluorescence x-ray absorption fine structure	AIP Conf. Proc. 882, 802 (2007)	W. S., Yan
26.	Pd-Pt Catalysts on Fluorinated Alumina Support Studied by X-Ray Absorption Fine Structure	AIP Conf. Proc. 882, 711 (2007)	W. S., Yan
27.	On structural and high temperature electrochemical properties of ZrO ₂ thin film coating on Zr metal produced by carbonate melt	J. mater. sci. (2007) 42:5632-5640	X. T., Zhang
28.	Direct determination of local structure around Fe in anatase TiO ₂	Physica B 396(2007) 177-180	S. Y., Zhang
29.	Near-edge X-ray absorption fine structure spectroscopy-assisted Purification of Single-walled Carbon Nanotubes	Spectrochimica Acta B 62: Atomic Spectroscopy, 711-716 (2007)	D. W., Yan
30.	Quantitative investigation of two metallohydrolases by X-ray absorption spectroscopy near-edge spectroscopy	Nucl instrum meth A 580 (2007)451-456	W., Zhao
31.	X-ray absorption near edge structure study on acutolysin_Ca Zinc metalloproteinase from agkistrodon acutus venom insight into the acid inactive mechanism	Spectrochimica Acta B: Atomic Spectroscopy 62, 1246-1251 (2007)	W., Zhao
32.	Fine Structures of Manganese Species in Highly Dispersed Mn/Ce/La/Al ₂ O ₃ Catalysts	CHINESE JOURNAL OF INORGANIC CHEMISTRY Vol.23 No.2 Feb., 2007	X., Li
33.	Application of a monolithic polycapillary X-ray lens in	Optics and Precision	T. X., Sun

	EXAFS experiments	Engineering Vol.15 No.12 Dec.2007	
34.	Characteristic of aerosol pollution in Shanghai city by nuclear analysis related techniques	Nuclear Techniques Vol.30,No.4 April 2007	Y.X., Zhang
35.	MXAN Analysis of the XANES Energy Region of LiPDF	HIGH ENERGY PHYSICS AND NUCLEAR PHYSICS 31,199-203(2007).	X.Y., Guo
36.	Distribution of TiO ₂ particles in the olfactory bulb of mice after nasal inhalation using microbeam SRXRF mapping techniques	J Radioanal Nucl Ch, Vol.272,No.3(2007)527-531	J.X., Wang
37.	Element analysis in femur of diabetic osteoporosis model by SRXRF Microprobe	Micron 38(2007)637-642	Y.R., Fei
38.	Element distribution in the brain of rats exposed to lanthanum measured by synchrotron radiation X-ray fluorescence	J RADIOANAL NUCL CH, 272, 333-337 (2007)	L.X., Feng
39.	Advanced nuclear analytical techniques for metalloproteomics	J Anal At Spectrom., 2007,22,856-866	Y.X., Gao
40.	Distribution of Metalloproteins in Hepatocellular Carcinoma and Surrounding Tissues	Hepato gastroenter 2007;54:2291-2296	Y.X., Gao
41.	Transport of Intranasally Instilled Fine Fe ₂ O ₃ Particles into the Brain: Micro-distribution, Chemical States, and Histopathological Observation	Biol Trace Elem Res (2007)118: 233-243	B., Wang
42.	Investigation of elemental distribution in human femoral head by PIXE and SRXRF microprobe	Nucl Instrum Meth B 260(2007)178-183	Y.X., Zhang
43.	Comparative element analysis on femur of antler hemo-treated ovariectomized Wistar rats by SRXRF	Nuclear Techniques, Vol.30, No.5 May 2007	J.H., Yang
44.	Analysis of trace elements in breast tumor tissues	Nuclear Techniques, Vol.30, No.3 2007	C.L., Liu
45.	A new method to extract refraction angle in diffraction enhanced imaging computed tomography	J. Phys. D: Appl. Phys. 40:1 (2007)6917-6921	M., Wang
46.	Theory and Experiment of In-Line Phase Contrast Imaging on Non- Uniformly Distributed Source	Spectrochimica Acta B 62(2007)636-641	B., Chen
47.	Quantitative comparison between two geometrical arrangements for Diffraction Enhanced Imaging	Spectrochimica Acta B, 62(2007) 654-662	W.X., Huang
48.	Local reconstruction in computed tomography of diffraction enhanced imaging	Appl. Phys. Lett 91, 011117(2007).	Z.F., Huang
49.	Strategy of extraction methods and reconstruction algorithms in computed tomography of diffraction enhanced imaging	Phys. Med. Biol. 52 (2007) 1-12	Z.F., Huang
50.	Focusing high-energy x-rays by a PMMA compound x-ray lens on Beijing synchrotron radiation facility	Chinese Phys Vol 16 No 4, April 2007	Z.C., Le

51.	Evaluation of x-ray diffraction enhanced imaging in the diagnosis of breast cancer	Phys. Med. Biol.52 (2007) 419-427	C.L., Liu
52.	A new iterative algorithm to reconstruct the refractive index	PHYSIN MED BIOL.52 (2007) L5-L13	Y.J., Liu
53.	Edge enhanced X-ray phase tomography	Nucl. Instrum. Meth. A 580(2007)617-620	Y.J., Liu
54.	Investigation of biomedical inner microstructures with hard X-ray phase-contrast imaging	Nucl. Instrum. Meth A 580(2007)610-613	H., Shu
55.	Experimental and theoretical investigations of diffraction enhanced imaging	Nucl.Instrum Meth A 580(2007)803-807	J.Y., Wang
56.	Application of Synchrotron source based DEI method in guinea pig cochleae imaging	Prog Nat Sci Vol.17, No.1 January 2007	H.X., Yin
57.	Theoretical study of the influence of small angle scattering on diffraction enhanced imaging	Spectrochimica Acta B,62(2007)533-538	P.P., Zhu
58.	Diffraction-enhanced imaging with synchrotron radiation X-ray for liver	J X-ray sci technol 15(2007)97-100	Y.F., Peng
59.	Visualization of guinea pig cochleae with computed tomography of diffraction enhanced imaging and comparison with histology	Journal of X-Ray Science and Technology 2007	H.X., Yin
60.	Refraction Angle and Edge Visibility in X-Ray Diffraction Enhanced Imaging	HIGH ENERGY PHYSICS AND NUCLEAR PHYSICS Vol.31,No.10 Oct.,2007	Y., Chen
61.	Structure and morphology of mythemna pupa under diffraction enhanced imaging	Nuclear Techniques, Vol.30,No.7 July 2007	W.X., Huang
62.	Observation on the ceramic powder evolution during sintering by synchrotron radiation X-ray computed tomography	Journal of experimental mechanics Vol.22 No.5 Oct.2007	F., Jiang
63.	Investigation of Image Reconstruction Algorithms for In-line X-ray Phase Contrast Tomography	COMPUTERIZED TOMOGRAPHY THEORY APPLICATIONS Vol.16 No.2 Jun.,2007	C.Q., Li
64.	Twin Defects in Ce:YAP Crystal	JOURNAL OF INORGANIC MATERIALS Vol.22 No.4 July.,2007	H.J., Li
65.	Absorption, Refraction and Extinction Contrast Computerized Tomography of X-Ray Diffraction Enhanced Imaging Method	Acta Optica Sinica, 2007, 27(4): 749~ 754	Y., Sun
66.	Method to calculate coordinates of vectors of rotated single crystal in research of synchrotron radiation topography	CHINA MEASUREMENT TECHNOLOGY Vol.33 No.6 Nov.2007	W.L., Yu
67.	Upgrade of X-ray imaging beamline 4W1A at BSRF	Nuclear Techniques, Vol.30.No.8 August 2007	Q.X., Yuan

68.	Synchrotron radiation technique applied in coronary angiography: primary experimental study	CHINESE JOURNAL OF MEDICAL IMAGING TECHNOLOGY 2007 Vol.23,No 8	Y.F., Peng
69.	Experiment study of DEI technique in medical imaging application	CHINESE JOURNAL OF MEDICAL IMAGING TECHNOLOGY 2007 Vol.23,No 7	Y.F., Peng
70.	Fine structure of C60 photoionization cross-section oscillations	J. PHYS:CONDENS MAT19 (2007)436223(6pp)	H.N., Li
71.	Modulation of structural and electronic properties of fullerene and metallofullerene by surface chemical modifications	J.Nanosci:nanotechno Vol.7,1-17,2007	J., Tang
72.	Switchable semiconductive property of the polyhydroxylated Metallofullerene	J.phys.chem B 2007,111, 11929-11934	J., Tang
73.	The 4f5d configuration and VUV absorption of Pr ³⁺ in YPO ₄	J. Lumin 122-123 (2007) 25-27	S.H., Huang
74.	Synthesis, vacuum ultraviolet and ultraviolet spectroscopy of Ce ³⁺ ion doped olgite Na(Sr, Ba)PO ₄	J. Phys. D: Appl. Phys. 40 (2007)7821-7825	Y.L., Huang
75.	Vacuum ultraviolet spectroscopic properties of Pr ³⁺ in MYF ₄ (M =Li, Na, and K) and LiLuF ₄	J. Lumin 122-123 (2007) 450-452	D.W., Wang
76.	4f5d configuration and photon cascade emission of Pr ³⁺ in solids	J. Lumin 122-123 (2007) 58-61	F.T., You
77.	Transmission measurement of photoabsorption cross-section of titanium in the region of 4050–5950 eV	Nucl.Instrum.Meth A.580 (2007) 62-65	K., Chen
78.	Complete polarization analysis of extreme ultraviolet radiation with a broadband phase retarder and analyzer	Appl phys lett 90, 081910 (2007)	Z.S., Wang
79.	A 1.2 to 6 keV soft X ray beamline at Beijing synchrotron radiation facility	Spectrochim acta B 62 (2007)1257-1262	J., Zhao
80.	Polarization Measurement of 3W1B Beamline at BSRF in Soft X-Ray Range	HIGH ENERGY PHYSICS AND NUCLEAR PHYSICS Vol.31,No.6 Jun.,2007	J., Zhu
81.	Synthesis and growth of germanium oxide nanoparticles in AOT reversed micelle	Materials letters	J., Zhu
82.	Vacuum Ultraviolet Excited Luminescence of Pr ³⁺ Ions at Different Temperatures	CHINESE JOURNAL OF INORGANIC CHEMISTRY Vol.23 No.6 Jun 2007	F.T., You
83.	Optical Constants of Tungsten from Soft-X-ray Reflectance Measurements	Acta Photonica Sinica, Vol.3 6 No.10 Oct 2007	K., Chen
84.	Polarization Characteristic Measurements of the Synchrotron Radiation Beamline Baes on Multilayer	HIGH ENERGY PHYSICS AND NUCLEAR PHYSICS, Vol.31, NO.4 Apr.,2007	L.J., Sun
85.	Absolute calibration of microchannel plates in soft	Nuclear Techniques,	L.J., Sun

	X-ray region	Vol.30,No.5 May 2007	
86.	Cal ibration and correction of reflectivity of soft X [▪] ray planar mirror	HIGH POWER LASER AND PART ICLE BEAMS Vol.19,No.8 Aug.,2007,1308-1312	K.X., Sun
87.	The primary design of higher-harmonics suppressor for Beamline 4B7A and 4B7B at Beijing Synchrotron Radiation Facility	Nuclear Techniques, Vol.30,No.9 Sep 2007	L., Zheng
88.	Thickening process and kinetics of lamellar crystals of a low molecular weight poly(ethylene oxide)	Macromolecules 2007, 40, 4386-4388	X.F., Tang
89.	Evolution of Cu- rich domains in the Cu ₆₀ Zr ₃₀ Ti ₁₀ metallic glass by ASAXS	Mater lett 61(2007) 1027-1030	W.D., Cheng
90.	Crystallization and Morphology of Cholesterol End-Capped Poly(ethylene glycol)	J Appl Polym Sci, Vol. 103,2464-2471(2007)	Y.J., Qiu
91.	X-ray diffraction and X-ray absorption spectroscopy studies on The chemical transformation of nanoscale LaMnO _{3.12}	J.phys.chem. C 2007, III,4512-4518	X., Chen
92.	Synthesis and growth of germanium oxide nanoparticles in AOT reversed micelle	Mater lett 61(2007) 535-537	X., Chen
93.	Ammonia Catalyzed Hydrolysis - Condensation Kinetics of Tetraethoxysilane/Dimethyldiethoxysilane Mixtures Studied by ²⁹ Si NMR and SAXS	J Solution Chem (2007) 36:327-344	Y., Xu
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95.	Effect of ultrasound on the microstructure of polystyrene in cyclohexane: a synchrotron small-angle X-ray scattering study	Colloid Polym Sci (2007) 285: 1275-1279	J.L., Zhang
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97.	Studies on surface roughness and growth mechanisms of microcrystalline silicon films by grazing incidence X-ray reflectivity	ACTA PHYSICA SINICA, Vol.56,No.4, April,2007	B.Q., Zhou
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100.	SAXS observation of structural evolution of heated olefin	Nuclear Techniques,3 Vol.30,No.7 July 2007	M.H., Sun
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107.	Study on Cu nanowires by using in-situ high-temperature XRD	Nuclear Techniques, Vol.30, No.7 July 2007	Q., Cai
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110.	Yield strength of molybdenum at high pressure	Rev sci instrum 78, 073906(2007)	Y., Bi
111.	Phase transition and EOS of marmatite(Zn _{0.76} Fe _{0.23} S) up to 623K and 17GPa	Chin.phys.lett Vol.24, No.1(2007)287	X., Jiang
112.	Compression behaviour of bulk metallic glasses and binary amorphous alloy	Chin.phys.lett Vol.24, No.8(2007)2323	G., Li
113.	Compressibility of nickel nanoparticle chain	Chin phys lett Vol.24, No.6(2007)1671	X.D., Li
114.	Equation of state and structural studies of Na _{0.5} CoO ₂ under high Pressure	J phys:condens mat 19(2007)425238(8pp)	L.L., Sun
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121.	Structural Insights into the Enzymatic Mechanism of the Pathogenic MAPK Phosphothreonine Lyase	Mol Cell 28,899-913,Dec 14,2007	Yongqun zhu
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123.	Photonic Logic Gates Based on Control of FRET by a Solvatochromic Perylene Bisimide	J. Org. Chem. 72, 2878-2885 (2007).	Yongjun.li
124.	Crystallization and X-Ray Diffraction of Bifunctional Pyrimidine Deaminase/Reductase from <i>Shigella flexneri</i> 2a	Protein Peptide Lett, 2007, 14, 9 925-927	Daopeng Yuan
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133.	Crystal structures of human IPP isomerase: new insights into the catalytic mechanism	J Mol Biol. 2007 Mar 9;366(5):1437-46.	Zhang C
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136.	First principles investigation of structural stability and electronic and optical properties of LiF and NaF under high pressure	ACTA PHYSICA SINICA 56 (12):7201-7206 (2007).	H. M., Li

