

| Publications in 2010 |  |   |               |
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| No.                  | Title  | Journal   | Author        |
| 1.                   | Luminescence properties of NaGd(PO <sub>3</sub> ) <sub>4</sub> :Eu <sup>3+</sup> and energy transfer from Gd <sup>3+</sup> to Eu <sup>3+</sup>   | Appl. Phys. B, 98, 2010, 139-147                      | J. Zhong      |
| 2.                   | Morphologies of GdBO <sub>3</sub> :Eu <sup>3+</sup> one-dimensional nanomaterials  | J. Alloy. Compd., 489, 2010, L9-L12                   | Z. Yang       |
| 3.                   | ATP-induced noncooperative thermal unfolding of hen lysozyme   | Biochem. Bioph. Res. Co., 397, 2010, 598-602          | H. L. Liu     |
| 4.                   | Effect of Li <sup>+</sup> ions doping on structure and luminescence of (Y,Gd)BO <sub>3</sub> :Tb <sup>3+</sup>   | J. Rare Earth., 28, 2010, 701                         | H. B. Xu      |
| 5.                   | Synthesis and Properties of PDP Green Phosphor (Y,Gd)BO <sub>3</sub> :Tb <sup>3+</sup>   | Chinese Journal of rare metals, 34 (6), 2010, 887-892 | H. B. Xu      |
| 6.                   | Synchrotron radiation circular dichroism (SRCD) spectroscopy: an enhanced method for examining protein conformations and protein interactions  | Biochem. Soc. Trans., 38, 2010, 861-73                | B. A. Wallace |
| 7.                   | Photon cascade emission of Gd <sup>3+</sup> in Tm <sup>3+</sup> -doped and un-doped LiGd(PO <sub>3</sub> ) <sub>4</sub> under low-voltage electron beam and vacuum ultraviolet excitation                          | Appl. Phys. B, 100, 2010, 865-869                     | B. Han        |
| 8.                   | Vacuum Ultraviolet-Visible Spectroscopic Properties of Tb <sup>3+</sup> in Li(Y, Gd)(PO <sub>3</sub> ) <sub>4</sub> : Tunable Emission, Quantum Cutting, and Energy Transfer                                       | J. Phys. Chem. C, 114, 2010, 6770-6777                | B. Han        |
| 9.                   | Red Emission of Ca <sub>6</sub> Gd <sub>1.97</sub> Eu <sub>0.03</sub> Na <sub>2</sub> ,PO <sub>4</sub> ...6F <sub>2</sub> with Suitable Chromaticity Coordinates under VUV Excitation                              | Electrochem. Solid St., 13 (12), 2010, J140-J142      | M.B. Xie      |
| 10.                  | Improving the BAM VUV-Irradiation Degradation with a UV-Blue Emitting Phosphor CLPF-Tm   | J. Electrochem. Soc., 157 (11), 2010, J401-J404       | M.B. Xie      |
| 11.                  | The Quantum Cutting of Tb <sup>3+</sup> in Ca <sub>6</sub> Ln <sub>2</sub> Na <sub>2</sub> (PO <sub>4</sub> ) <sub>6</sub> F <sub>2</sub> (Ln = Gd, La) under VUV-UV Excitation: with and without Gd <sup>3+</sup> | Inorg. Chem., 49, 2010, 11317-11324                   | M.B. Xie      |
| 12.                  | Luminescence of Ce <sup>3+</sup> at two different sites in $\beta$ -Sr <sub>2</sub> P <sub>2</sub> O <sub>7</sub> under vacuum ultraviolet-UV and x-ray excitation   | J. Appl. Phys., 108, 2010, 083527                     | D.J. Hou      |
| 13.                  | Fabrication and photoluminescence characteristic of Pr: LuAG scintillator ceramics   | Radiat. Meas., 45, 2010, 457-460                      | Y. Shi        |

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| 14. | Spectroscopic parameters of Ce <sup>3+</sup> ion doped Na <sub>2</sub> CaMg(PO <sub>4</sub> ) <sub>2</sub> phosphor   | J. Alloy. Compd., 500, 2010, 134-137           | J. Lü      |
| 15. | Luminescence of Ce <sup>3+</sup> Ion Doped in SrZn <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> Phosphor under Excitation of Vacuum Ultraviolet I             | Inorg. Mater., 46 (9), 2010, 983-987           | Y.G. Cao   |
| 16. | Synthesis and Luminescent Properties of Eu <sup>3+</sup> -Doped NaCaPO <sub>4</sub> Nano-Particles Under VUV-UV Excitation                                    | J. Nanosci. Nanotechnol., 10 (2010) 2223-2227  | Y.G. Cao   |
| 17. | UV-VUV-excited photoluminescence of Tm <sup>3+</sup> substituted b-rhenanite as a blue-emitting phosphor  | J. Lumin., 130, 2010, 1225-1229                | Z.L. Ye    |
| 18. | Photoluminescence Properties of Na <sub>2</sub> GdF <sub>2</sub> PO <sub>4</sub> :Re (Re = Eu <sup>3+</sup> and Tb <sup>3+</sup> ) under VUV-UV Excitation    | J. Electrochem. Soc., 157 (6), 2010, J233-J237 | D.Y. Wang  |
| 19. | Luminescent metastable Y <sub>2</sub> WO <sub>6</sub> :Ln <sup>3+</sup> (Ln = Eu, Er, Sm, and Dy) microspheres with controllable morphology via self-assembly | J. Mater. Chem., 20, 2010, 10894-10900         | J. Wang    |
| 20. | Visible Quantum Cutting in Tb <sup>3+</sup> -Doped BaGdB <sub>9</sub> O <sub>16</sub> via Downconversion  | J. Electrochem. Soc., 157 (8), 2010, J293-J296 | H.J. Zhang |
| 21. | Effects of V/III ratio on species diffusion anisotropy in the MOCVD growth of non-polar <i>a</i> -plane GaN films   | Chin. Phys. B, 19, 2010, 018101                | L.B. Zhao  |
| 22. | Anisotropic defect reduction in non-polar <i>a</i> -plane GaN grown by hydride vapor phase epitaxy on maskless patterned templates                            | Appl. Surf. Sci., 256, 2010, 2236-2240         | L.B. Zhao  |
| 23. | Strain effects on In <sub>x</sub> Al <sub>1-x</sub> N crystalline quality grown on GaN templates by metalorganic chemical vapor deposition                    | J. Appl. Phys., 107, 2010, 043515              | Z. L. Miao |
| 24. | Observation of lateral long range order in superconducting FeTe thin films  | Chin. Phys. B, 19, 2010, 087403                | W.Y. Li    |
| 25. | The growth of ZnO on bcc-In <sub>2</sub> O <sub>3</sub> buffer layers and the valence band offset determined by X-ray photoemission spectroscopy              | Solid State Commun., 150, 2010, 1991-1994      | H.P. Song  |
| 26. | Measurement of w-InN/h-BN Heterojunction Band Offsets by X-Ray Photoemission Spectroscopy   | Nanoscale Res. Lett., 5, 2010, 1340-1343       | J. M. Liu  |
| 27. | The role of zinc dopant and the temperature effect on the controlled growth of InN nanorods in metal-organic chemical vapor deposition system                 | CrystEngComm, 12, 2010, 3936-3941              | H.P. Song  |
| 28. | Cathodoluminescence study on in composition   | Thin Solid Films, 518,                         | H. Wang    |

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|     | inhomogeneity of thick InGaN layer   | 2010, 5028-5031   |           |
| 29. | Investigation on the strain relaxation of InGaN layer and its effects on the InGaN structural and optical properties                                       | Physica B, 405, 2010, 4668-4672                         | H. Wang   |
| 30. | An experimental study about the influence of well thickness on the electroluminescence of InGaN/GaN multiple quantum wells                                 | J. Alloy. Compd., 489, 2010, 461-464                    | D.G. Zhao |
| 31. | Studies on strain relaxation and in-plane orientation of $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ film by grazing incidence X-ray diffraction          | J. Alloy. Compd., 491, 2010, 545-549                    | W.S. Tan  |
| 32. | Study on the evolution of surface morphology of hetero-epitaxy growth of ZnO thin film   | Materials Science Forum, 663-665, 2010, 1205-1208       | J.Z. Xiao |
| 33. | A method of material design for systematic absence of X-ray diffraction  | Powder Diffr. Suppl., 25 (S1), 2010, S48-51             | H.H. Wang |
| 34. | Direct preparation and microstructure investigation of <i>p</i> -type transparent conducting Ga-doped $\text{SnO}_2$ thin films                            | Powder Diffr., 25, 2010, S3-S39                         | T.Y. Yang |
| 35. | Preparation and application in p-n homojunction diode of p-type transparent conducting Ga-doped $\text{SnO}_2$ thin films                                  | Thin Solid Films, 518, 2010, 5542-55                    | T.Y. Yang |
| 36. | Crystallization and microstructure change of semiconductor active thin layer in polymer organic field-effect transistors                                   | Acta Phys. Sin., 60 (2), 2010, 020000                   | X.Y. Tian |
| 37. | Application of Synchrotron Radiation X-Ray Fluorescence to Investigating the Distribution of Trace Elements in Different Organs of Greenhouse Rape         | Spectroscopy and Spectral Analysis                      | S.Z. Xin  |
| 38. | Carbonic fluid of the Dadonggou lead-zinc ore deposit in Altay and its genesis   | ACTA PETROLOGICA ET MINERALOGICA, 29 (2), 2010, 175-188 | H.X. Chu  |
| 39. | Temporal variation of groundwater As in shallow groundwater from the Hetao Basin, Inner Mongolia.  | As2010  | H.M. Guo  |
| 40. | Pressure-Induced Phase Transition in Hydrogen-Bonded Supramolecular Structure: Guanidinium Nitrate   | J. Phys. Chem. B, 114, 2010, 6765-6769                  | R. Wang   |
| 41. | Valence change of europium in $\text{EuFe}_2\text{As}_{1.4}\text{P}_{0.6}$ and compressed $\text{EuFe}_2\text{As}_2$ and its relation to superconductivity | Phys. Rev. B, 82, 2010, 134509                          | L.L. Sun  |

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| 42. | Pressure-induced competition between superconductivity and Kondo effect in $\text{CeFeAsO}_{1-x}\text{F}_x$ ( $x = 0.16$ and $0.3$ )   | EPL-Europhys. Lett., 91, 2010, 57008            | L.L. Sun  |
| 43. | Large volume collapse observed in the phase transition in cubic $\text{PbCrO}_3$ perovskite  | P. Natl. Acad. Sci. USA, 107, 2010, 14026-14029 | W.S. Xiao |
| 44. | Exploring Intertrimer $\text{Cu}^3\text{Cu}^3\text{Cu}$ Interactions and Further Phosphorescent Properties of Aryl Trimer Copper(I) Pyrazolates via Substituent Changing and External Pressure | Inorg. Chem., 49, 2010, 1658-1666               | F.B. Gong |
| 45. | Structural stability of $\text{Zn}_3\text{N}_2$ under high pressure  | Physica B, 405, 2010, 1836-1838                 | J.G. Zhao |
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| 51. | Equation of State and Elastic Constants of Compressed fcc Cu   | Chin. Phys. Lett., 27(3), 2010, 036403          | L.G. Bai  |
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| 57. | Experimental determinations of the high-pressure crystal structures of $\text{Ca}_3\text{N}_2$   | J. Phys. Chem. C, 114 (39), 2010, 16750-16755             | J. Hao     |
| 58. | High-pressure radial X-ray diffraction study of osmium to 58 GPa   | Eur. Phys. J. B, 73, 2010, 321                            | H. Chen    |
| 59. | Study on the Pressure-Induced Phase Transition of g-C <sub>3</sub> N <sub>4</sub>  | CHINESE JOURNAL OF HIGH PRESSURE PHYSICS 24 (1), 2010, 67 | X.F. Li    |
| 60. | High pressure Raman Studies of Nanocrystalline CeO <sub>2</sub>  | THE JOURNAL OF LIGHT SCATTERING, 22 (3), 2010, 259-262    | D.C. Zhang |
| 61. | A sulfur K-edge XANES study on the transfer of sulfur species in the reactive adsorption desulfurization of diesel oil over Ni/ZnO                 | Catal. Commun., 11, 2010, 592-596                         | L.C. Huang |
| 62. | Effect of activated carbon on chalcopyrite bioleaching with extreme thermophile Acidianus manzaensis   | Hydrometallurgy, 105, 2010, 179-185                       | C.L. Liang |
| 63. | Investigation of the sulfur speciation during chalcopyrite leaching by moderate thermophile Sulfolobus thermosulfidooxidans                        | Int. J. Miner. Process, 94, 2010, 52-57                   | J.L. Xia   |
| 64. | Surface analysis of sulfur speciation on pyrite bioleached by extreme thermophile Acidianus manzaensis using Raman and XANES spectroscopy          | Hydrometallurgy, 100, 2010, 129-135                       | J.L. Xia   |
| 65. | Sulfur Species Investigation in Extra- and Intracellular Sulfur Globules of Acidithiobacillus ferrooxidans and Acidithiobacillus caldus            | Geomicrobiol. J., 27, 2010, 707-713                       | H. He      |
| 66. | Speciation and biochemical transformations of sulfur and copper in rice rhizosphere and bulk soil-XANES evidence of sulfur and copper associations | J. Soil. Sediment., 10, 2010, 907-914                     | H.R. Lin   |
| 67. | Effects of lead upon the actions of sulfate-reducing bacteria in the rice rhizosphere  | Soil Biol. Biochem., 42, 2010, 1038-1044                  | H.R. Lin   |
| 68. | Construction and Applications of Soft X-Ray Experimental Platform on Synchrotron Radiation   | CHINESE JOURNAL OF LASERS, 37 (9), 2010                   | M.Q. Cui   |
| 69. | Sulfur speciation in soil under long-term fertilization by XANES   | Nuclear Techniques, 33 (01), 2010, 5-9                    | L.J. Liu   |
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| 81. | <i>In situ</i> study on dendrite growth of metallic alloy by a synchrotron radiation imaging technology                  | Science China Technological Sciences, 53 (5), 2010, 1278-1284 | T.M. Wang  |
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