

REFERENCE

- [1] C.N.R. Rao, A. Muller, and A.K. Cheetham, "Nanomaterials Chemistry", Wiley VCH Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, (2007) 1-424.
- [2] M. Kohler and Wolfgang Fritzsche, "Nanotechnology, An introduction to nanostructuring technique", Wiley-VCH Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, (2007) 1-11.
- [3] C. N. R. Rao, S.R.C. Vivekchand, K. Biswas and A. Govindaraj, "Synthesis of inorganic nanomaterials", *Dalton Trans.*, (2007) 3728-3749.
- [4] X. Zhang, M. Zhang, Y. Zhu, P. Wang, F. Xue, J. Gu, H. Bi and Y. Qian, "Hydrothermal synthesis and luminescent properties of $\text{LaPO}_4\text{:Eu}$ 3D microstructures with controllable phase and morphology", *Mater. Res. Bull.*, **45** (2010) 1324-1329.
- [5] W.T. Yao and S.H. Yu, "Recent advances in hydrothermal syntheses of low dimensional nanoarchitectures", *Int. J. Nanotechnology*, **4** (2007) 129-162.
- [6] Infomine Research group, "Rare-Earth Elements Market Research in the CIS", **495** (2008) 952-1322.
- [7] M. Dolg, "Lanthanides and Actinides", Dresden, Germany, 1-9.
- [8] J. Bao, R. Yu, J. Zhang, X. Yang, D. Wang, J. Deng, J. Chen and X. Xing, "Low-temperature hydrothermal synthesis and structure control of nano-sized CePO_4 ", *CrystEngComm.*, **11** (2009) 1630-1634.

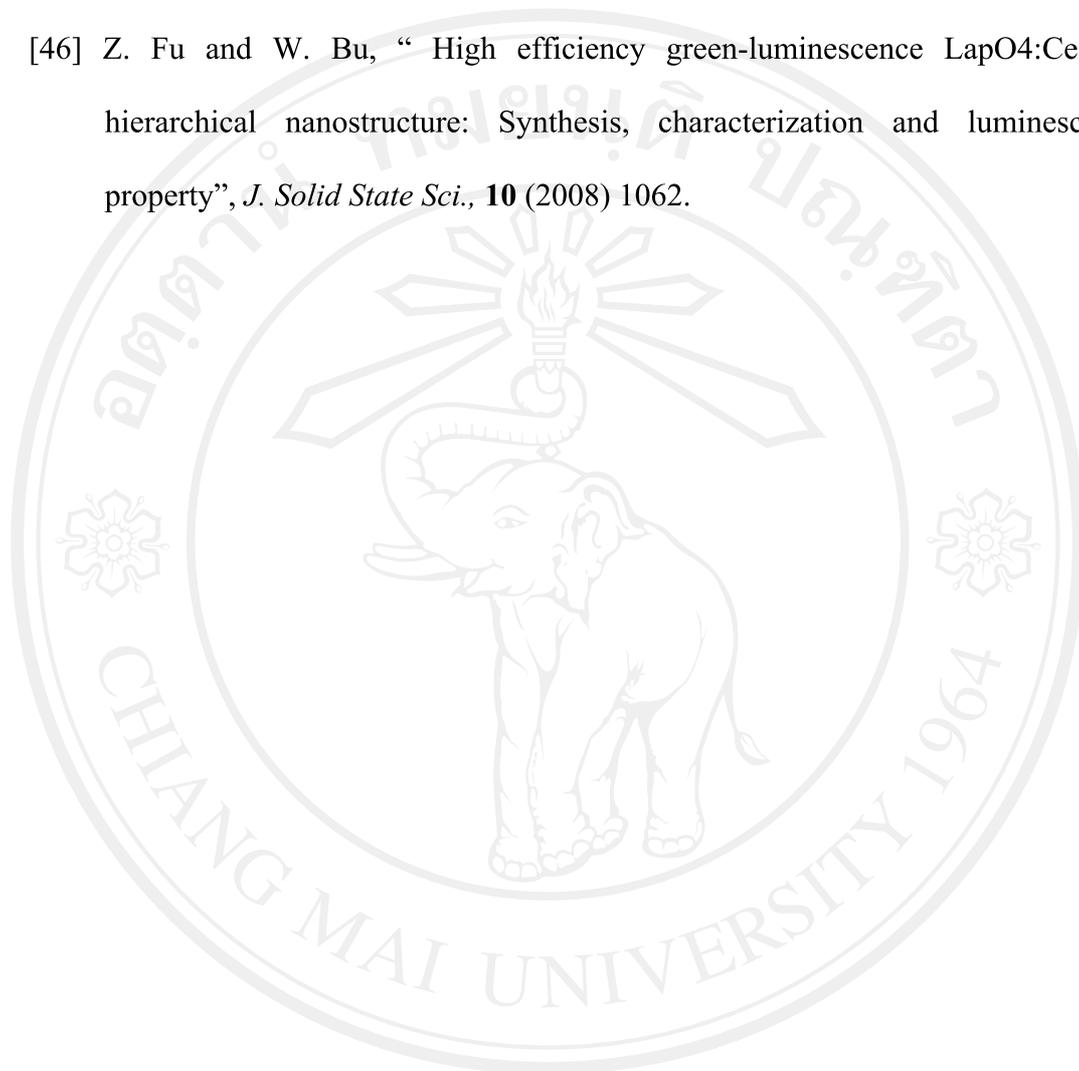
- [9] P.C.D.S. Filho and O.A Serra, "Red, green, and blue lanthanum phosphate phosphors obtained via surfactant-controlled hydrothermal synthesis", *J. of Luminescence*, **129** (2009) 1664-1668.
- [10] D. Heiman, "Photoluminescence Spectroscopy", (2004) 1-5.
- [11] K. Binnemans, "Lanthanide-Based Luminescent Hybrid Materials", *Chem. Rev.* **109** (2009) 4283-4374.
- [12] R.H. Abu-Eittah, S.A. Marie and M.B. Salem, "The electronic absorption spectra of Lanthanum (III), Cerium (III) and Thorium (IV) ions in Different Solvents", *Can. J. Anal. Sci. Spect.*, **49** (2004) 248-257.
- [13] P.A. Tanner, "Spectra, Energy Levels and Energy Transfer in High Symmetry Lanthanide Compounds", **241** (2004) 167-278.
- [14] B.L. Hayes, "Microwave Synthesis, Chemistry at the Speed of light", CEM Publishing, U.S.A, (2002) 1-296.
- [15] M. Taylor, S.S. Atri, S. Minhas and P. Bisht, "Developments in Microwave Chemistry", Evalueserve, RS·C, (2005) 1-50.
- [16] C.O. Kappe, D. Dallinger and S. Murphree, Practical Microwave Synthesis for Organic Chemists: Strategies, Instrument and Protocols, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, (2009) 1-5.
- [17] K.J. Rao, B. Vaidhyanathan, M. Ganguli and P.A. Ramakrishnan, "Synthesis of Inorganic Solids Using Microwaves", *Chem. Mater.*, **11** (1999) 882-895.
- [18] K. Byrappa and M. Yoshimura, "Handbook of hydrothermal technology, A technology for Crystal Growth and Materials Processing", William Andrew publishing, LLC, Park Ridge, New Jersey, U.S.A., (2001) 1-870.

- [19] S. Komarneni, "Nanophase materials by hydrothermal, microwave-hydrothermal and microwave-solvothermal methods", *Curr. Sci.*, **85** (2003) 1730-1734.
- [20] L. Neil and J. Grace, "High throughput automated microwave synthesis of metal organic frameworks", *materials science-porous materials*, (2009), 1.
- [21] S. Verma, P.A. Joy, Y.B. Khollam, H.S. Potdar and S.B. Deshpande, "Synthesis of nanosized MgFe_2O_4 powder by microwave hydrothermal method", *Mater. Lett.*, **58** (2004) 1092-1095.
- [22] H.Y. Xu, H. Wang, Y.Q. Meng and H. Yan, "Rapid synthesis of size-controllable YVO_4 ", *J. Solid State Commun.*, **130** (2004) 465-468.
- [23] P. Parhi and V. Manivannan, "Novel microwave initiated solid-state metathesis synthesis and characterization of lanthanide phosphates and vanadates, LMO_4 ", *J. Solid State Sci.*, **10** (2008) 1012-1019.
- [24] W.J. Park, M.K. Jung, T. Masaki, S.J. Im and D.H. Yoon, "Characterization of $\text{YVO}_4:\text{Eu}^{3+}$, Sm^{3+} red phosphor quick synthesized by microwave rapid heating method", *J. Mater. Lett. Sci.*, **146** (2008) 95-98.
- [25] L. Ma, L.M. Xu, W.X. Chen and Z.D. Xu, "Microwave-assisted synthesis and characterization of $\text{LaPO}_4:\text{Re}$ nanorods", *Mater. Lett.*, **63** (2009) 1635-1637.
- [26] W. Ruigang, P. Wei, C. Jian, F. Minghao, C. Zhenzhu and L. Yongming, "Synthesis and sintering of LaPO_4 powder and its application", *J. Mater. Chem. Phys.*, **79** (2003) 30-36.
- [27] L. Yu, H. Song, Z. Liu, L. Yang, S. Lu and Z. Zheng, Remarkable improvement of brightness for the green emissions Ce^{3+} and Tb^{3+} co-activated LaPO_4 nanowires, *J. Solid State Commun.*, **134** (2005) 753-757.

- [28] X. Wang and M. Gao, "A facials route for preparing rhabdophane rare earth phosphate nanorods", *J. Mater. Chem.*, **16** (2006) 1360-1365.
- [29] L. Karpowich, S. Wilcke, R. Yu, G. Harley, J.A. Reimer and L.C.D. Jonghe, "synthesis and Characterization of mixed-morphology CePO₄ nanoparticles", *J. Solid State Chem.*, **180** (2007) 840-846.
- [30] Y.B. Yin, X. Shao, L.M. Zhao and W.Z. Li, "synthesis and Characterization of CePO₄ nanowires via microemulsion method at room temperature", *J. Chinese Chem. Lett.*, **20** (2009) 857-860.
- [31] L. Qian, W.Du, Q. Gong and X. Qian, "Controlled synthesis of light rare earth phosphate nanowires via a simple solution route", *J. Mater. Chem. Phys.*, **114** (2009) 479-484.
- [32] M.T. Schatzmann, M.L. Mecartney and P.E.D. Morgan, "synthesis of monoclinic monazite, LaPO₄ , by direct precipitation" *J. Mater. Chem.*, **19** (2009) 5720-5722.
- [33] C. Yu, M. Yu, C. Li, X. Liu, J. Yang, P. Yang and J. Lin, "Facile sonochemical synthesis and Photoluminescent propreties of lanthanide orthophosphate nanoparticles", *J. Solid State Chem.*, **182** (2009) 339.
- [34] M. Guan, J. Sun, T. Shang, Q. Zhou, J. Han and A. Ji, "A Facile synthesis of cerium phosphate nanofiber by solution-solid method", *J. Mater. Sci. Technol.*, **26** (2010) 45.
- [35] E.K. Nyutu, C.H. Chen, P.K. Dutta and S.L.Suib, "Effect of microwave frequency on hydrothermal synthesis of nanocrystalline tetragonal Barium Titanate", *J. Phys. Chem.*, **112** (2008) 9659-9667.

- [36] O. Yayapao, T. Thongtem, A. Phuruangrat and S. Thongtem, "CTAB-assisted hydrothermal synthesis of tungsten oxide microflowers", *J. Alloy. Compd.*, **509** (2011) 2294-2299.
- [37] L. Ma, W.X. Chen, Y.F. Zheng and Z.D. Xu, "Hydrothermal growth and morphology evolution of CePO₄ aggregates by a complexing method", *Mater. Res. Bull.*, **43** (2008) 2840-2849.
- [38] K. Wang, J. Zhang, J. Wang, C. Fang, W. Yu, X. Zhao, and H. Xu, "Growth defects and infrared spectra analysis of CePO₄ single crystals", *J. Appl. Cryst.*, **38** (2005), 675–677.
- [39] P. Yang, Z. Quan, C. Li, Z. Hou, W. Wang, and J. Lin, "Solvothermal synthesis and luminescent properties of monodisperse LaPO₄:Ln (Ln=Eu³⁺, Ce³⁺, Tb³⁺) particles", *J. Solid State Chem.*, **182** (2009), 1045–1054.
- [40] Y. Zhang and H. Guan, "Hydrothermal synthesis and characterization of hexagonal and monoclinic CePO₄ single-crystal nanowires", *J. Cryst. Growth*, **256** (2003), 156–161.
- [41] Z. Chai, L. Gao, C. Wang, H. Zhang, R. Zheng, P.A. Webley, and H. Wang, "Synthesis of mesoporous LaPO₄ nanostructures with controllable morphologies", *New J. Chem.*, **33** (2009), 1657–1662.
- [42] G. Wang and C. Hao, "Fast synthesis and morphology control of lead tungstate microcrystals via a microwave-assisted method", *Mater. Res. Bull.*, **44** (2009), 418–421.
- [43] X. Wang and Y. Li, "Synthesis and characterization of lanthanide hydroxide single-crystal nanowires", *Angew. Chem.*, **114** (2002) 4984-4987.
- [44] R. Baierlein, "The elusive chemical potential", *Am. J. Phys.*, **69** (2001) 423-434.

- [45] Z.A. Peng and X. Peng, “Mechanisms of the shape evolution of CdSe nanocrystals”, *J. Am. Chem. Soc.*, **123** (2001) 1389-1395.
- [46] Z. Fu and W. Bu, “ High efficiency green-luminescence LapO4:Ce, Tb hierarchical nanostructure: Synthesis, characterization and luminescence property”, *J. Solid State Sci.*, **10** (2008) 1062.



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