

# 31 Prof. Libing Liao

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## Work Experience

Associate Professor, University of Science and Technology of China, 1992-1994

Professor, University of Science and Technology of China, 1994-present

## Research Interests

Mineralogy

## Major Publications

- Guo, Q., Liao, L., Mei, L., Liu, H. (2016). Structures and luminescent properties of single-phase  $\text{La}_{1-x}\text{Ba}_x(\text{SiO}_4)_2(\text{PO}_4)_2$ : $\text{Ce}^{3+}$  phosphors. *Journal of Luminescence*, 172, 191-196.
- Guo, Q., Liao, L., Liu, H., Mei, L. (2016). Studies on  $\text{Ce}^{3+}$  positions and photoluminescence properties of  $\text{La}_{1.45}\text{Ce}_{0.05}\text{Ba}_{3.5}(\text{SiO}_4)_2(\text{PO}_4)_2$  phosphor. *Journal of Luminescence*, 178, 1-5.
- Liu, H., Liao, L., Molokeev, M. S., Guo, Q., Zhang, Y., Mei, L. (2016). A novel single-phase white light emitting phosphor  $\text{Ca}_9\text{La}(\text{PO}_4)_5(\text{SiO}_4)_2$ : $\text{Dy}^{3+}$ : synthesis, crystal structure and luminescence properties. *Rsc Advances*, 6(29), 24577-24583.
- Yang, C., Liao, L., Lv, G., Wu, L., Mei, L., Li, Z. (2016). Synthesis and characterization of Mn intercalated Mg-Al hydroxalcite. *Journal of Colloid & Interface Science*, 479, 115-120.
- Liao, L., Liu, G. L., Jean, J. S., Jiang, W. T., Li, Z. (2016). Modification of multilayer carbon nanotubes for the removal of arsenate. *Journal of Nanoscience & Nanotechnology*, 16(4), 3835-3840.
- Guo, Q., Zhao, C., Liao, L., Liu, H., Mei, L. (2016).  $\text{KLaSr}_3(\text{PO}_4)_3$  ( $\text{Re}=\text{Tb}^{3+}/\text{Eu}^{3+}/\text{Eu}^{2+}$ ): promising multi-color luminescence phosphors for n-uv/uv white leds. *Chemistryselect*, 1(11), 2883-2888.
- Guo, Q., Ma, B., Liao, L., Molokeev, M. S., Mei, L., Liu, H. (2016). Crystal structure and luminescence properties of novel  $\text{Sr}_{10-x}(\text{SiO}_4)_3(\text{SO}_4)_3\text{O}: \text{Eu}^{2+}$  phosphor with apatite structure. *Ceramics International*, 42(10), 11687-11691.
- Liu, H., Liao, L., Yang, D., Guo, Q., Mei, L. (2016). Synthesis, photoluminescence properties and energy transfer behavior of color-tunable fluorapatite phosphor  $\text{Sr}_9\text{Gd}(\text{PO}_4)_5(\text{SiO}_4)_2$ : $\text{Tb}^{3+}/\text{Sm}^{3+}$ . *Ceramics International*, 42(15), 16579-16583.
- Wu, L., Liao, L., Lv, G., Qin, F. (2015). Stability and pH-independence of nano-zero-valent iron intercalated montmorillonite and its application on Cr(VI) removal. *Journal of Contaminant Hydrology*, 179, 1-9.
- Guo, Q., Liao, L., Mei, L., Liu, H. (2015). Crystal structure, thermal stability and photoluminescence properties of novel  $\text{Sr}_{10}(\text{PO}_4)_6\text{O}:\text{Eu}^{2+}$  phosphors. *Journal of Solid State Chemistry*, 226(27), 107-113.

- Guo, Q., Liao, L., Mei, L., Liu, H., Hai, Y. (2015). Cheminform abstract: color-tunable photoluminescence phosphors of  $\text{Ce}^{3+}$ , and  $\text{Tb}^{3+}$ , co-doped  $\text{Sr}_2\text{La}_8(\text{SiO}_4)_6\text{O}_2$ , for uv w-leds. Cheminform, 225(14), no-no.
- Liu, H., Liao, L., Chen, J., Guo, Q., Zhang, Y., Mei, L. (2015). Tunable luminescence properties and energy transfer of  $\text{Ba}_3\text{NaLa}(\text{PO}_4)_3\text{F}:\text{Tb}^{3+}, \text{Sm}^{3+}$  phosphors with apatite structure. Journal of Luminescence, 169.
- Gong, Z., Liao, L., Lv, G., Wang, X. (2016). A simple method for physical purification of bentonite. Applied Clay Science, 119, 294-300.
- Guo, Q., Liao, L., Mei, L., Liu, H., Hai, Y. (2015). Cheminform abstract: color-tunable photoluminescence phosphors of  $\text{Ce}^{3+}$ , and  $\text{Tb}^{3+}$ , co-doped  $\text{Sr}_2\text{La}_8(\text{SiO}_4)_6\text{O}_2$ , for uv w-leds. Cheminform, 225(14), no-no.
- Hai, Y., Liao, L., Lv, G., Qin, F., Mei, L., Wei, Y. (2015). Application of composite powders recycled from graphite tailings in styrene-butadiene rubber. Jom the Journal of the Minerals Metals & Materials Society, 67(11), 2733-2738.
- Mei, L., Xie, J., Liao, L., Guan, M., Liu, H. (2015). Tunable upconversion luminescence and energy transfer process in  $\text{BaLa}_2\text{ZnO}_5:\text{Er}^{3+}/\text{Yb}^{3+}$  phosphors. Advances in Materials Science & Engineering, 2015, 1-5.
- Guo, Q., Liao, L., Molokeev, M. S., Mei, L., Liu, H. (2015). Color tunable emission and energy transfer of  $\text{Ce}^{3+}$ , and  $\text{Tb}^{3+}$ , co-doped novel  $\text{La}_6\text{Sr}_4(\text{SiO}_4)_6\text{F}_2$ , phosphors with apatite structure. Materials Research Bulletin, 72, 245-251.
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- Guo, Q., Liao, L., Mei, L., Liu, H. (2015). Cheminform abstract: crystal structure, thermally stability and photoluminescence properties of novel  $\text{Sr}_{10}(\text{PO}_4)_6\text{O}:\text{Eu}^{2+}$ , phosphors. Cheminform, 46(27), 107-113.
- Wu, L., Liao, L., Lv, G., Qin, F., Li, Z. (2014). Microstructure and process of intercalation of imidazolium ionic liquids into montmorillonite. Chemical Engineering Journal, 236(2), 306-313.