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EDUCATION:

Bachelor degree of Engineering (Electronic Sci. & Tech.), 2007, Guangdong University of Technology

Doctoral degree of Engineering (Appl. Chem.), 2012, Guangdong University of Technology

SCIENTIFIC ACHIEVEMENTS:

I. Selected publications:

- 1) **Haoyi Wu**, Yihua Hu, Fengwen Kang, Li Chen, Xiaojuan Wang, Guifang Ju, Zhongfei Mu, “*Observation on long afterglow of Tb^{3+} in $CaWO_4$ matrix*”, *Mater. Res. Bull.* 46 (2011) 2489-2493.
- 2) **Haoyi Wu**, Yihua Hu, Yinhai Wang, Bodai Zeng, Zhongfei, Mou, Liuyong Deng, Wei Xie, “*Influence on luminescent properties of the $Sr_2MgSi_2O_7: Eu^{2+}$ by Dy^{3+} , Nd^{3+} co-doping*”, *J. Alloys Compd.* 486 (2009) 549-553.
- 3) **Haoyi Wu**, Yihua Hu, Yihai Wang, Chujun Fu, “*Influence on the luminescence properties of the lattice defects in $Sr_2MgSi_2O_7: Eu^{2+}$, M ($M = Dy^{3+}$, La^{3+} or Na^{1+})*”, *J. Alloys Compd.* 497 (2010) 330-335.
- 4) **Haoyi Wu**, Yihua Hu, Li Chen, Xiaojuan Wang, “*Investigation on the enhancement and the suppression of persistent luminescence of Re^{3+} doped $Sr_2EuMgSi_2O_7$ ($Re=Dy, Yb$)*”, *J. Alloys Compd.* 509 (2011) 4304-4307.
- 5) **Haoyi Wu**, Yihua Hu, Li Chen, Xiaojuan Wang, “*Enhancement on the afterglow properties of $Sr_2MgSi_2O_7: Eu^{2+}$ by Er^{3+} codoping*”, *Mater. Lett.* 65 (2011) 2676-2679.
- 6) **Haoyi Wu**, Yinhai Wang, Yihua Hu, Liuyong Deng, Wei Xie, “*Controllable Optical Properties by Ratio of Sr/Ca in $Sr_{1.97-x}Ca_xMgSi_2O_7: Eu^{2+}_{0.01}, Dy^{3+}_{0.02}$ phosphors*”, *J. Phys. D: Appl. Phys.* 42 (2009) 125406.
- 7) **Haoyi Wu**, Yihua Hu, Yinhai Wang, Zhoufei, Mou, “*Influence on the long afterglow properties by the environmental temperature*”, *J. Lumin.* 130 (2010) 127-130.
- 8) **Haoyi Wu**, Yihua Hu, Guifang Ju, Li Chen, Xiaojuan Wang, Zhongfu Yang, “*Photoluminescence and thermoluminescence of Ce^{3+} and Eu^{2+} in $Ca_2Al_2SiO_7$ matrix*”, *J. Lumin.* 131 (2011) 2441-2445.
- 9) **Haoyi Wu**, Yihua Hu, Yinhai Wang, Fengwen Kang, Zhongfei Mou, “*Investigation on Eu^{3+} doped $Sr_2MgSi_2O_7$ red-emitting phosphors for white-light-emitting diodes*”, *Opt Laser Technol.* 43 (2011) 1104-1110.
- 10) **Haoyi Wu**, Yihua Hu, Yinhai Wang, Chujun Fu, “*The luminescent properties of the*

substitution of Ho^{3+} for Dy^{3+} in the $\text{M}_2\text{MgSi}_2\text{O}_7: \text{Eu}^{2+}, \text{Dy}^{3+}$ (M: Sr, Ca) long afterglow phosphors”, *Mater. Sci. Eng. B* 172 (2010) 276-282.

11) **Haoyi Wu**, Yihua Hu, Bodai Zeng, Zhongfei Mou, Liuyong Deng, “Tunable luminescent properties by adjusting the Sr/Ba ratio in $\text{Sr}_{1.97-x}\text{Ba}_x\text{MgSi}_2\text{O}_7: \text{Eu}^{2+}_{0.01}, \text{Dy}^{3+}_{0.02}$ phosphors”, *J. Phys. Chem. Solids* 72 (2011) 1284-1289.

12) **Haoyi Wu**, Yihua Hu, Li Chen, Xiaojuan Wang, “Effect of Europium Valence on the Luminescent Properties of $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}$ ” *Acta Phys.-Chim. Sin.* 27 (2011), 1201-1206.

II. Conference and the relative publications:

Haoyi Wu, Yihua Hu, Yinhai Wang, Chujun Fu, Fengwen Kang, Xiang Li, “The synthesis and the luminescence properties of a violet-ultraviolet long afterglow phosphors”, *Materials Science Forum*, 663-665 (2011) 170-176. 2010 International Conference on Optical, Electronic and Electrical Materials, Kunming, China

Haoyi Wu, Yihua Hu, Yinhai Wang, Chujun Fu, Fengwen Kang, “Synthesis of Eu^{2+} and Dy^{3+} codoped $\text{Ba}_2\text{MgSi}_2\text{O}_7$ phosphor for energy storage”, *Advanced Materials Research*, 236-238 (2011) 3028-3031. 2011 International Conference on Chemical Engineering and Advanced Materials, Changsha, China.

AWARDS:

1. Second Prize of “Fuland Cup” academic report competition (awarded by Guangdong Physics Society & Sun Yat-Sen University, 2009)
2. Outstanding Graduate Student Award (awarded by Department of Education of Guangdong Province, 2009)
3. First Honor Scholarship in Guangdong University of Technology (awarded by Guangdong University of Technology, 2009)
4. Science and Technology Prize in Guangdong University of Technology (awarded by Guangdong University of Technology, 2009)