

Supplementary materials:

**Synthesis and Photo- and Electro-luminescent Properties of Ir(III)
Complexes Attached Polyhedral Oligomeric Silsesquioxane
Materials**

Tianzhi Yu^{1,*}, Xin Wang¹, Wenming Su^{2,*}, Chengcheng Zhang¹, Yuling Zhao³, Hui Zhang¹,

Zixuan Xu¹

¹Key Laboratory of Opto-Electronic Technology and Intelligent Control (Ministry of Education),
Lanzhou Jiaotong University, Lanzhou 730070, China

²Printable electronics research center, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese
Academy of Sciences, Suzhou 215123, China

³School of Chemical and Biological Engineering, Lanzhou Jiaotong University, Lanzhou 730070,
China

* Corresponding Author. Tel. +86-931-4956935; Fax: +86-931-4938756; e-mail: yutianzhi@hotmail.com (T.Z. Yu); wmsu2008@sinano.ac.cn (W.M. Su).

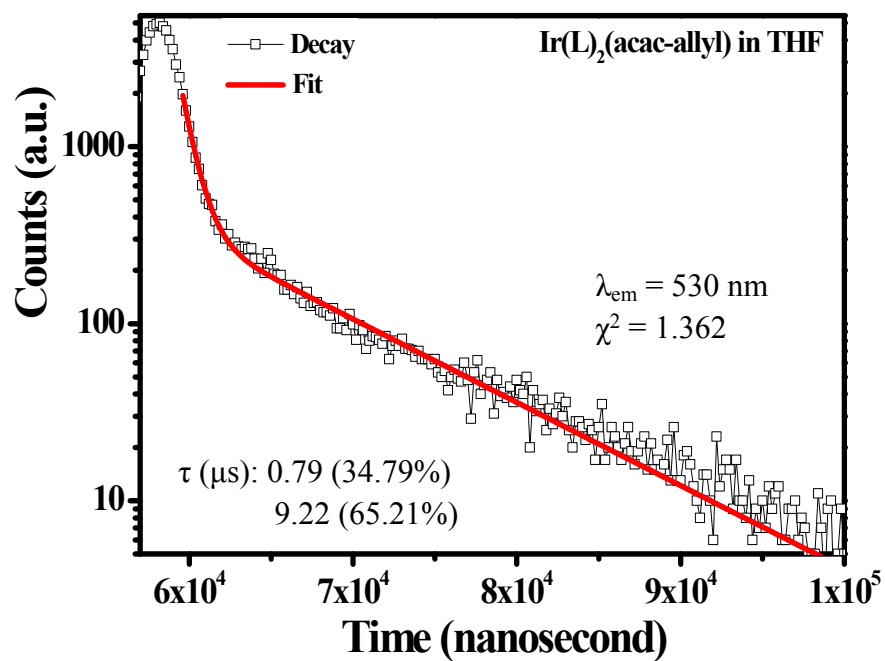


Fig. S1. Photoluminescence decay lifetime of Ir(L)₂(acac-allyl) in THF solution at room temperature.

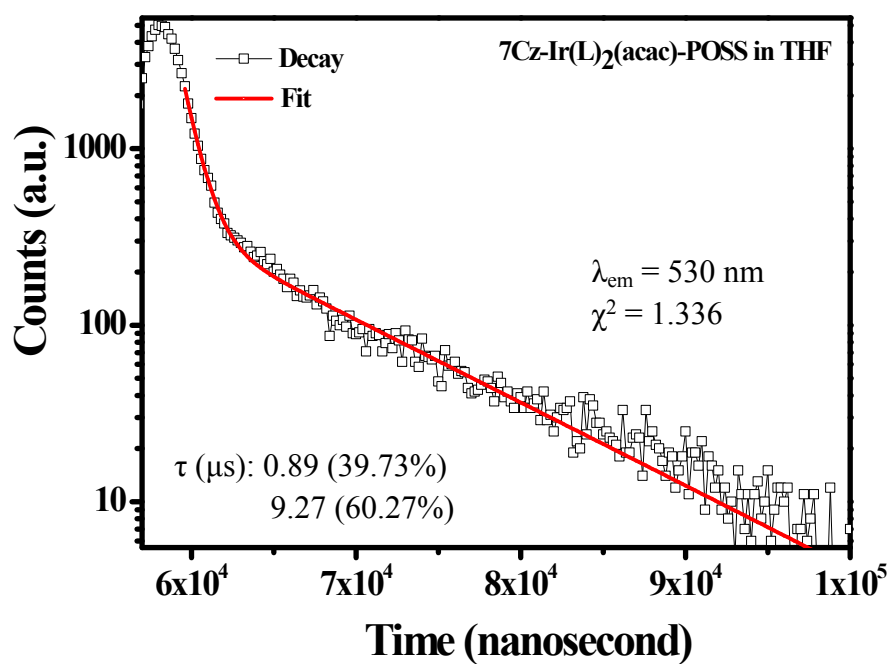


Fig. S2. Photoluminescence decay lifetime of 7Cz-Ir(L)₂(acac)-POSS in THF solution at room temperature.

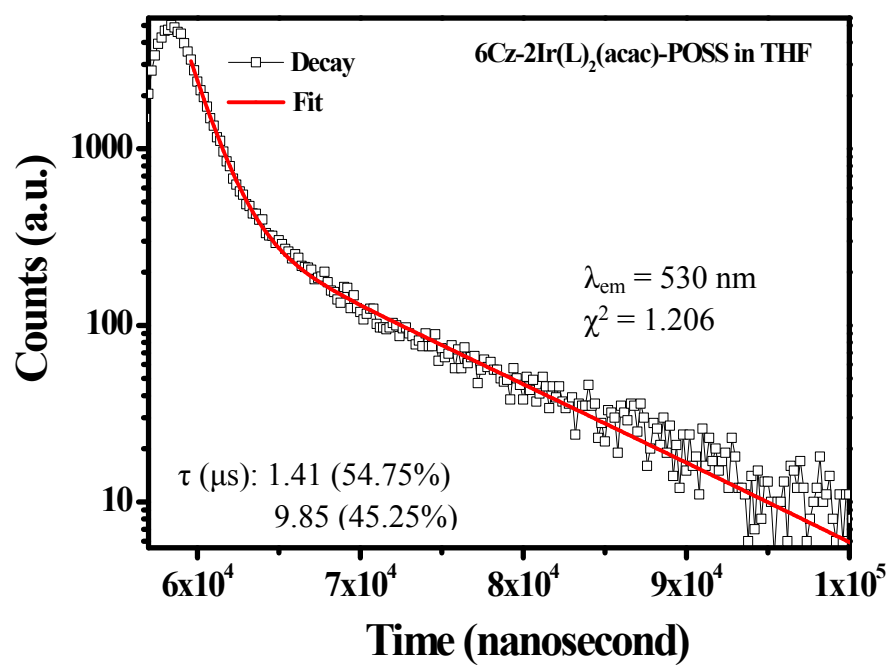


Fig. S3. Photoluminescence decay lifetime of 6Cz-2Ir(L)₂(acac)-POSS in THF solution at room temperature.