# Scientific Publications 2007

1. **"Functional nanostructured phosphorescent materials driven by weak closed-shell metal-metal interactions and metal-ligand coordination",** C.C. Kwok, S.C. Yu, Iona H.T. Sham and C.M. Che, *Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)* 2007, 48, 589.

2. **"Nanocomposite field effect transistors based on zinc oxide/polymer blends",** Z.X. Xu,, V. A. L. Roy, P. Stallinga, M. Muccini, S. Toffanin, H.F. Xiang and C.M. Che, *Applied Physics Letters,* 2007, 90, 223509.

3. **"Method for measurement of the density of thin films of small organic molecules",** H.F. Xiang, Z.X. Xu, V. A. L. Roy, C.M. Che and P.T. Lai, *Review of Scientific Instruments,* 2007, 78, 34104.

4. **"Electronic structures and spectroscopic properties of [Pt(CNMe)2(CN)2]n (n = 1-4): a theoretical exploration of promising phosphorescent materials",** X. Zhou, H.X. Zhang, Q.J. Pan, M.X. Li, Y. Wang and C.M. Che, *European Journal of Inorganic Chemistry,* 2007, 15, 2181.

5. **“High-efficiency orange and yellow organic light-emitting devices using platinum(II) complexes containing extended -conjugated cyclometalated ligands as dopant materials”,** B.P. Yan, Cecil C.C. Cheung, Steven C.F. Kui, V. A. L. Roy, C.M. Che and S.J. Xu, *Applied Physics Letters,* 2007, 91, 063508.

6. **“Improved carrier mobility for pentacene TFT by $NH_3$ annealing of gate dielectric”,** M.C. Kwan, K.H. Cheng, P.T. Lai and C.M. Che, *Solid-State Electronics*, 2007, 51, 77 – 80.

7. **“Platinum (II) complexes with-conjugated, naphthyl-substituted, cyclometalated ligands (RC^N^N): structures and photo- and electroluminescence”,** Steven C.F. Kui, Iona H.T. Sham, Cecil C.C. Cheung, C.W. Ma, B.P. Yan, N.Y. Zhu, C.M. Che and W.F. Fu, *European Journal of Chemistry*, 2007, 13, 417 – 435.

8. **“Efficient white organic light-emitting devices based on phosphorescent platinum (II)/ fluorescent dual-emitting layers”,** B.P. Yan, C.C. Cheung, C.F. Kui, H.F. Xiang, V.A.L. Roy, S.J. Xu and C.M. Che, *Advanced Materials*, 2007, 19, 3599 – 3603.

9. **“Star-configured carbazole as an efficient near-ultraviolet emitter and hole-transporting material for organic light-emitting devices”,** H.F. Xiang, Z.X. Xu, V.A.L. Roy, C.M. Che, P.T. Lai, P.J. Zeng, F.F. Niu, Y.W. Liu, W.Q. Tang, C.J. He and H.B. Niu, *Applied Physics Letters*, 2008, 92, 073305.