

Scientific Publications 2008

1. **“Field-effect transistor fabricated with nickel(II) etioporphyrin-I micrometer-sized crystals”**, Z. X. Xu, H.F. Xiang, V.A.L. Roy, Stephen S.Y. Chui, C.M. Che and P.T. Lai, *Applied Physics Letters*, 2008, 93, 223305.
2. **“Correlation between carrier mobility of pentacene thin-film transistor and surface passivation of its gate dielectric”**, K.H. Cheng, W.M. Tang, L.F. Deng, C. H. Leung, P.T. Lai and C.M. Che, *Journal of Applied Physics*, 2008, 104, 116107.
3. **“Deep-red to near-infrared electrophosphorescence based on bis(8-hydroxyquinolato) platinum(II) complexes”**, H.F. Xiang, Z.X. Xu, V.A.L. Roy, B.P. Yan, S.C. Chan, C.M. Che and P.T. Lai, *Applied Physics Letters*, 2008, 92, 163305.
4. **“Semiconducting and electroluminescent nanowires self-assembled from organoplatinum(II) complexes”**, M.Y. Yuen, V.A.L. Roy, W. Lu, C.F. Kui, S.M. Tong, M.H. So, S.Y. Chui, M. Muccini, J.Q. Ning, S.J. Xu and C.M. Che, *Angewandte Chemie, International Edition*, 2008, 47, 9895.

5. “A high-performance organic field-effect transistor based on platinum(II) porphyrin: peripheral substituents on porphyrin ligand significantly affect film structure and charge mobility”, C.M. Che, H.F. Xiang, S.Y. Chui, Z.X. Xu, V.A.L. Roy, J. Yan, W.F. Fu, P.T. Lai and Williams, Ian D, *Chemistry--An Asian Journal*, 2008, 3, 1092.
6. “Phosphorescent platinum(II) materials for OLED applications”, H.F. Xiang, S.W. Lai, P.T. Lai and C.M. Che, *Highly Efficient OLEDs with Phosphorescent Materials*, 2008, 259-282.
7. “Homoleptic copper(I) arylthiolates as a new class of p-type charge carriers: structures and charge mobility studies”, C.M. Che, S.H. Li, S.Y. Chui, V.A.L. Roy and K.H. Low, *Chemistry--A European Journal*, 2008, 14, 2965.
8. “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.

9. “**Semiconducting and electroluminescent nanowires self-assembled from organoplatinum(II) complexes**”, M.Y. Yuen, V.A.L. Roy, W. Lu, C.F. Kui, S.M. Tong, M.H. So, S.Y. Chui, M. Muccini, J.Q. Ning, S.J. Xu and C.M. Che, *Angewandte Chemie (International ed. in English)*, 2008, 47, 9895-9.
10. “**Metal-insulator-metal transistors**”, P. Stallinga, V.A.L. Roy, Z.X. Xu, H.F. Xiang and C.M. Che, *Advanced Materials*, 2008, 20, 2120.