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MAJOR RESEARCH INTERESTS

- Crystal Engineering: Photochemical reactions and structural transformations, processable functional coordination polymers such as gels and fibers, metal-organic frameworks as gas & energy storage materials
- Chemistry of metal chalcogenocarboxylates
- Metal chalcogenide and oxide thin films and nanomaterials.
- Synthesis of new battery materials

SELECTED PUBLICATIONS

1. W.L. Leong and J.J. Vittal, *Chem. Revs. Chem. Rev.* 111, 2011, 688
2. R. Medishetty., L.L. Koh, G.K. Kole and J. J. Vittal, *Angew. Chem. Int. Ed.*, 50, 10949, 2011
3. M.H. Mir, J.X. Ong, G.K.Kole, G.K. Tan, M.J. McGlinchey, Y. Wu and J. J. Vittal, *Chem. Commun.*, 47, 11633, 2011
4. G.K. Kole, L.L. Koh, S.Y. Lee, S.S. Lee, and J.J. Vittal, *Chem. Comm.* 46, 2010, 3660
5. M. Nagarathinam, A.M.P. Peedikakkal and J. J. Vittal, *Chem. Commun.*, 2008, 5277
6. W. L. Leong, A. Y.-Y. Tam, S. K. Batabyal, L. W. Koh, S. Kasapis, V.W.-W. Yam, and J.J. Vittal, *Chem. Commun.*, 2008, 3628
7. M.H. Mir and J.J. Vittal, *Angew. Chem. Int. Ed.*, 46, 2007, 5925
8. L. Tian, H.I. Lim, W. Ji and J.J. Vittal, *Chem. Commun.*, 2006, 4276
9. M.T. Ng, C.B. Boothroyd and J.J. Vittal, *J. Amer. Chem. Soc.*, 128, 2006, 1178
10. M.T. Ng, C. Boothroyd and J.J. Vittal, *Chem. Commun.*, 2005,3820