

LIST OF PUBLICATIONS AND PRESENTATIONS

Journal Publications

1. Quasi-two-dimensional $S=1/2$ magnetism of $\text{Cu}[\text{C}_6\text{H}_2(\text{COO})_4][\text{C}_2\text{H}_5\text{NH}_3]_2$, S.Baby, R. Nath, M. Padmanabhan, A. Thirumurugan, D. Ehlers, M. Hemmida, H.-A. Krug von Nidda, and A. A. Tsirlin, *Physical Review B* 91, 054409 (2015).
2. Reversible structural, spectral and magnetic transformations in Co(II) *bis*-phthalate based coordination polymers, S. Baby, S.P.Thomas and M. Padmanabhan.(to be communicated)
3. Phthalate rich water soluble Zn(II) coordination polymers with unprecedented structural features and emission properties, S. Baby, K.C. Joseph, H.Xiao, J. Li and M. Padmanabhan (to be communicated)
4. Synthesis, crystal structure, spectral and magnetic properties of Cu(II) and Ni(II) -*bis*-phthalate systems. S. Baby, S.P.Thomas and M. Padmanabhan. (to be communicated)
5. Synthesis, structural characterization and photo-luminescent properties of a new three-dimensional metal-organic framework- $\{[\text{Zn}(\text{C}_6\text{H}_2(\text{COO})_4)]^2-[\text{CH}_3\text{-NH}_3^+]_2\cdot 4\text{H}_2\text{O}\}_n$ S. Baby, A. Alex and M. Padmanabhan (to be communicated)
6. $\{[\text{Zn}(\text{C}_6\text{H}_2\{\text{COO}\}_4)]_2-[\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-NH}_3^+]_2\cdot 0.5\text{H}_2\text{O}\}_n$ - A novel MOF with negative excess charge and wide channel-like voids, S. Baby, A. Alex and M. Padmanabhan. (to be communicated)

Presentations in International/National Conferences

1. Phthalate rich, water soluble and photoluminescent Zn(II) coordination polymers with anionic skeletal framework and unprecedented structural features, International seminar on Modern Trends in Inorganic Chemistry (MTIC XIV), Hyderabad Central University, Dec 10-13, 2011.
2. Reversible structural, magnetic and optical switching in crystalline 1-dimensional inorganic-organic hybrid Co(II) polymers induced by H₂O, International conference on Materials science and Technology (ICMST 2016), Kottayam, June 5-8 2016 (paper accepted for oral presentation).
3. Polymeric complexes of imidazole incorporated Co(II), Ni(II) and Cu(II) chiral (+) tartrates- synthesis, spectroscopic and thermal studies, National Seminar on Advances in Materials Chemistry (ADMAC-I) Christian College Chengannur, Alappuzha, Kerala. ISBN 978-93-5196-302-8, Oct 15-17, 2014.
4. Photo Luminescent 2-dimensional Coordination Polymers of Amine Templated Cd(II)*bis*-phthalates with Unprecedented Structural Features”, National seminar on “Current Trends in Materials Science” (CTMS 2016) Christian College Chengannur, Alappuzha, Kerala, March 28- 30 2016.