

## Dr. K.R.S. Preethi Meher

Assistant Professor

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Area of Specialization: Multifunctional oxide materials, Multiferroics, Energy storage/harvesting materials

Google scholar citation:  
<https://scholar.google.it/citations?user=xUwLYYcAAAAJ&hl=en&oi=ao>

Dr. K.R.S. Preethi Meher completed her Ph.D. at Materials Research Center, Indian Institute of Science Bangalore in the year 2012. She received the prestigious Erasmus Mundus Willpower Fellowship in 2010 to visit CNRS SPMS laboratory at Ecole Centrale Supélec at Paris, France. Subsequently she did her postdoctoral research at CNRS CRISMAT (UMR 6508) ENSICAEN France from 2012 to 2013. Later she has pursued research associateship at the Materials Science Group, Indira Gandhi Center for Atomic Research Kalpakkam. She has published her research work in various peer-reviewed national and international journals. Her broad areas of research involve development of functional materials, mostly oxides for various technological applications that involves microelectronics, high density energy storage capacitors and multiferroics.

**Current Teaching Assignment for M.Tech Materials Science (2016-2017):** (a) Quantum Mechanics and Electromagnetic theory (b) Synthesis and Characterization of materials laboratory

**Current Research Plans:** The aim is to develop a state of art research laboratory to carry out research on oxide materials for energy storage and harvesting. Currently the focus is on the development of novel electrode materials for fuel cells and novel oxide compositions for room temperature magnetoelectric multiferroics.

### Some of the selected publications:

1. **K.R.S. Preethi Meher**, V. Caignaert, B.Raveau, A. Maignan, *Ceramic. Int.* In press(2016)
2. **K.R.S. Preethi Meher**, C. Martin, V. Caignaert, F. Damay and A. Maignan, *Chem. Mater.* 26, 830 (2013)
3. **K. R. S. Preethi Meher**, Alexandre Wahl, Antoine Maignan, Christine Martin, and Oleg I. Lebedev, *Phys. Rev. B*, 89, 144401 (2014)
4. Berthebaud, David ; **Meher, K. R. S. Preethi** ; Pelloquin, Denis, Maignan, A., *J. Solid State Chem.*, 211, 184-190 (2014)
5. Seikh, Md.Motin , Caignaert, V. ; Suard, E. ; **Preethi Meher, K.R.S.** ; Maignan, A. ; Raveau, B., *J. Appl. Phys.*, 116, 244106 (2014)
6. **K.R.S. Preethi Meher**, Christine B., Pierre-Eymeric Janolin and K.B.R.Varma, *J. Solid State Chem.*, 19, 296 (2012)