Dr. J Venkatesh

M.Sc., Ph.D

15 years of Academic and Industry Experience

jvenkatesh@tjohngroup.com

Dr. J Venkatesh completed his Ph.D. degree at Indian Institute of technology, Chennai in 2001 with the guidance of Prof.VRK Murthy. He went for Post doc in EPFL, Swiss and IMST, Kiel, Germany. He also worked in Industries for six years. During his Ph.d, and post docs he worked on dielectric resonators, relaxor ferroelectrics, lead free piezoelectrics, ferrites etc. His current area of research is studies on electronic materials.

Areas of Expertise : Condensed Matter Physics

List of Publications:

1) Microwave dielectric properties of $(Ba_{1-x}Sr_x)(Zn_{1/3}Ta_{2/3})O_3$ Dielectric resonators as a function of tolerance factor

- J.Venkatesh, V.R.K.Murthy

- Materials Chemistry and Physics, (Elsevier), **58**, (1999) 276-279

2) Far-IR reflectance spectroscopy study on B-site disordered $Ba(Zn_{1/3}Ta_{2/3})O_3$ Dielectric resonators

- J.Venkatesh, V.Sivasubramanian, V.Subramanian and V.R.K.Murthy

- Materials Research Bulletin, **35**, (2000) 1325-1332

3) Far-IR reflectance spectroscopy study on $(Ba_{1-x}Sr_x)(Zn_{1/3}Ta_{2/3})O_3$ dielectric resonators as a function of tolerance factor

- J.Venkatesh, V.Subramanian and V.R.K.Murthy

- Physica-B **293**, 118-124 (2000)

4) Microwave dielectric properties of PMN relaxor ferroelectrics

- J.Venkatesh, V.Subramanian and V.R.K.Murthy

- Indian Journal of Physics, **75A** (4), 339-342 (2001)

5) Tunable ferroelectrics for microwave application

- Alexander Tagantsev, V Cherman, K Astaviv, J Venkatesh, Nava setter
- Journal of Electroceramics **11** (1-2), 5-66 (2003)

6) Synthesis and Dielectric characterization of $K(Ta_{1-x}Nb_x)O_3$ ceramics for tunable ferroelectric Application for microwave devices

- Venkatesh J, Vladimir Cherman and Nava Setter
- Journal of American Ceramic society, **88**, 3397-3404 (2005)

7) Permittivity, Tunability and Loss in Ferroelectrics for Reconfigurable High Frequency Electronics

- AK Taganstev, VO Sherman, KF Astafiev, J Venkatesh, N Setter
- Electroceramic- Based MEMS, 235-324

8) Correlation between tolerance factor and temperature coefficient of dielectric constant of (Ba,Sr)(Zn,Ta)O3 dielectric resonator

- Venkatesh J VRK Murthy
- Japanese Journal of Applied Physics, **50**, (2011), 021501

9) Synthesis and piezoelectric properties of (K,Na)NbO3 ceramics

- J Venkatesh and Mohammed Es-Souni
- Material science Indian Journal, **21,** (2023), 1-5

Research Supervisor Accreditation

Recognized as a Research Supervisor by Visvesvaraya Technological University (VTU) in August 2023