

## Dr. E. Varadarajan

### Publications

1. S. Premkumar, E. Varadarajan , Marthando Rath , M.S. Ramachandra Rao , V.L. Mathe  
Ferroelectric and piezoelectric properties of PSLZT multilayer / NZFO cosintered  
magnetoelectric composites fabricated by tape casting , *Journal of the European Ceramic  
Society*, Vol 39, (2019) 5267-5276
2. Martando Rath , E Varadarajan, S Premkumar, SD Shinde, V. Natarajan and M S  
Ramachandra Rao, Studies on ferroelectric and nanomechanical response of single layered  
PZT thick film for power harvesting applications, *Ferroelectrics*, 551 (2019)100-104
3. S. Premkumar, SD Shinde, E.Varadarajan and V.I.Mathe, Improved ferroelectric and  
piezoelectric properties of tape casted free standing PSLZT thick films, *Materials Research  
Express* 6 (2019) 026303
4. V. Natarajan, E. Varadarajan, Martando Rath and Jayanta Pauri, Studies on piezo  
coefficients of PLD and sol-gel grown PZT thin films for devices, *Integrated  
Ferroelectrics* 193 (2018) 100-105
5. E. Varadarajan and V. Natarajan, Development of Functional Materials and Processes for  
MEMS Devices, *Defence Science Journal, Science Spectrum* (2018) 285-294
6. M.Kathiresan, E.Varadarajan, T. Mukundan, V.Natarajan, M.K. Jayaraj,  
T.Santhanakrishnan, Effect of process parameters on crack free PZT thin film by RF  
sputtering *Proceeding of International Conf. on Sonar Systems & Sensors (ICONS-2018)  
Vol 2. (2018) 459-462*
7. E. Varadarajan,V.Natarajan, M.Kathiresan, Performance enhancement of cylindrical  
acoustic vector sensor (C-AVS) for underwater applications, *Proceeding of International  
Conf. on Sonar Systems & Sensors (ICONS-2018) Vol 2.(2018) 529-531*
8. E. Varadarajan, Martando Rath, Joseph, S. Premkumar, V. Natarajan, MSR Rao, Amitava  
Das Gupta, Development of piezo patterning technology for MEMS devices, *Proceeding  
of International Conf. on Sonar Systems & Sensors (ICONS-2018) Vol 2. (2018) 532-535*
9. Martando Rath , E Varadarajan,V. Natarajan and M S Ramachandra Rao, Observation of  
homogeneous ferroelectric domains and uniform polarization mapping in large area PLD  
grown PZT thin film , *Ceramic International* 44(8) (2018) 8749-8755

10. S. Premkumar, E. Varadarajan, Martando Rath, V.L. Mathe, M.S. Ramachandra Rao, Microstructural analysis of co-sintered PSLZT-NZFO layered magnetoelectric composite, *Ferroelectrics Vol. 516 (2017) 60-66*
11. R. Mahendran, E. Varadarajan, K. Suresh and J. Palanivel, Preparation and characterisations of Iron Oxide Nano particles Reinforced polymeric thin films, *Nanoscience & Technology, 4(2) (2017) 1-6*
12. Rajesh Narayana Perumal, G. Subalakshmi E. Varadarajan S. Sadhasivam, G. Vinitha, Optical properties of Eu<sup>3+</sup> activated SrLa<sub>2</sub>O<sub>4</sub> red-emitting phosphors for WLED applications *J Mater Sci: Mater Electron, (2017) 1-7*