

Name : **Dr. JAYABAL K**
 Qualification : M.E.,Ph.D
 Designation : **Associate Professor**
 Department : Mechanical Engineering
 Name of the Organization : **Indian Institute of Information Technology Design and Manufacturing**
 Place : Kancheepuram
 E-mail Id : jayabal@iiitdm.ac.in
 Mobile Number : 9786410485
 Area of Interest : Finite Element Methods, Material Modelling, Smart Materials and Structures, Biomechanics, Thermoelectric devices
 Pincode : 600127

Publications

1. Mathusuthanan M, Narayanan R and **Jayabal K**, "*In-plane residual stress map for Solar PV module: A unified approach accounting the manufacturing process*," IEEE Journal of Photovoltaics, 2020, DOI: 10.1109/JPHOTOV.2020.3029226
2. Pandiyarasan Veluswamy, Suhasini Sathiyamoorthy, P. Thanga Gomathi, **Jayabal K**, R. Kumar, Denis Kuznetsov, Hiroya Ikeda, "*A novel investigation on ZnO nanostructures on carbon fabric for harvesting thermopower on textile*", Applied Surface Science, 496, 143658, 2019.
3. Sathish Kumar R and **Jayabal K**, "*Micromechanically motivated constitutive model embedded in two-dimensional polygonal finite element framework for Magnetostrictive actuators*", Journal of Applied Physics, 125(19), 4101, 2019.
4. Sathish Kumar R and **Jayabal K**, "*A Simplified Micromechanically Motivated Constitutive Model for Magnetostrictive Materials with Rate Effects*", IEEE Transactions on Magnetics, 2019, 55(2), 1-13.
5. **Jayabal Kaliappan** and Andreas Menzel, "*Modelling of non-linear switching effects in piezoceramics: a three-dimensional polygonal finite-element-based approach applied to oligo-crystals*", Journal of Intelligent Material Systems and Structures vol. 26, no.17, pp: 2322-2337, 2015.