Publications

1. Plastic deformation of ferritic grains in presence of ODS particles and irradiation-induced defect clusters: A 3D dislocation dynamics simulation study

2. Plastic Deformation in ODS Ferritic Alloys: A 3D Dislocation Dynamics Investigation

3. Channel formation in irradiated FCC metals: a 3D dislocation dynamics investigation
   K. Gururaj, C. Robertson, M. Fivel Phil Mag (communicated)

4. Post-irradiation plastic deformation in bcc Fe grains investigated by means of 3D dislocation dynamics simulations
   K. Gururaj, C. Robertson, M. Fivel Journal of Nuclear Materials (communicated)

Manuscripts to be communicated

1. Role of Schmid and Escaig stresses in the evolution of Split Frank-Read sources: A dislocation dynamics study

2. Dynamics of a Frank-Read source with constrictions: A nodal based dislocation-dynamics simulation.

Publications not part of the thesis

1. Conformational and coalescence behavior of Trialkylphosphates in various diluents
   A.S. Suneesh, G.V.S, Ashok Kumar, K. Gururaj, K.A. Venkatesan, M.C. Valsa Kumar, P. R. Vasudeva Rao.
   Journal of Molecular Modelling (Accepted for publication)

2. Computation of thermal conductivity: A nonequilibrium approach
   P. Anees, K. Gururaj and M. C. Valsakumar.

3. Depth resolved positron annihilation studies of argon nano-bubbles in Aluminum
4. Embedded design based virtual instrument program for positron beam automation. 
