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<b>Designation</b>	<b>Senior Scientist</b>	
<b>Lab</b>	<b>CSIR -STRUCTURAL ENGINEERING RESEARCH CENTRE</b>	
<b>Areas of Interest</b>	<b>Earthquake resistance structures, Damage detection and condition assessment, Mechanics of materials, Engineered composites, Atomistic simulations, Nano/Micro level evaluation of material response, Development of advanced and sustainable materials etc.</b>	
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### Selected Publications (Past five years)

1. Sindu B. S. and **Saptarshi Sasmal**, (2015) "Evaluation of mechanical characteristics of nano modified epoxy based polymers using Molecular Dynamics", Journal of Computational Materials Science, Volume 96, Part A, pp 146-158.
2. Hemalatha, T., Gunavathi, Bhuvaneshwari, B., **Saptarshi Sasmal** and Nagesh R. Iyer., (2015) "Characterization of micro- and nano- modified cementitious system using micro analytical technique." Cement and Concrete Composites, Volume 58, pp 114-128
3. Constanze Roehm, **Saptarshi Sasmal**, Balthasar Novák, Ramanjaneyulu K.,(2015) "Numerical simulation for seismic performance evaluation of fibre reinforced concrete beam column sub-assemblages", International Journal of Engineering Structures, Vol 91, pp 182–196.
4. **Saptarshi Sasmal**, Chandra Prakash Khatri and K. Ramanjaneyulu, (2015) "Numerical simulation of performance of near surface mounted FRP upgraded beam-column sub-assemblages under cyclic loading", Structure and Infrastructure Engineering (Taylor and Francis), Vol. 11(8), pp 1012-1017.
5. Banjara, N. K. and **Saptarshi Sasmal**, (2014) "Remaining Fatigue Life of Steel Railway Bridges under Enhanced Axle Loads", Structure and Infrastructure Engineering (Taylor and Francis), Vol. 10(2), pp 213-224.
6. Sindu B. S., **Saptarshi Sasmal** and Smitha Gopinath, (2014) "A multi-scale approach for evaluating engineering properties of carbon nanotube incorporated cementitious composites", International Journal of Construction and Building Materials Vol. 50, pp 317–327.
7. **Saptarshi Sasmal**, K. Ramanjaneyulu, Balthasar Novák, and N. Lakshmanan, (2013) "Analytical and Experimental Investigations on Seismic Performance of Exterior Beam-Column Sub-assemblages of Existing RC Framed Building", Earthquake Engineering and Structural Dynamics, Vol. 42, pp 1785-1805.
8. **Saptarshi Sasmal** and K. Ramanjaneyulu, (2012) "Evaluation of Strength Hierarchy of Beam-Column Joints of Existing RC Structures under Seismic type Loading", J. Earthquake Engg (Taylor and Francis), Vol. 16 (6), pp 897-915.
9. **Saptarshi Sasmal**, Balthasar Novák, K. Ramanjaneyulu, V. Srinivas, Constanze Roehm, N. Lakshmanan, and Nagesh R. Iyer,(2011) "Upgradation of Gravity Load Designed Sub-assembly Subjected to Seismic Type Loading", Journal of Composite Structures, Vol.93 (6), pp 1561-1573.
10. **Saptarshi Sasmal**, Balthasar Novák and K. Ramanjaneyulu, (2011) "Numerical analysis of fiber composite-steel plate upgraded beam-column sub-assemblages under cyclic loading", Journal of Composite Structures, Vol.93 (2), pp 599-610.