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Selected Publications (Past five years)

1. Ramachandra Murthy A., Rakhi Sara Mathew, **G.S. Palani**, Smitha Gopinath and Nagesh R. Iyer (2015) "Fracture analysis and remaining life prediction of aluminium alloy 2014A plate panels with concentric stiffeners under fatigue loading", Structural Engineering and Mechanics, Vol. 53 (4), pp681-702.
2. S. Maheswaran, S. Kalaiselvam, S. Arunbalaji, **G.S. Palani**, Nagesh R. Iyer (2015) "Low-temperature preparation of belite from lime sludge and nanosilica through solid-state reaction", Journal of Therm Anal Calorim.
3. B. Bhuvaneshwari, **G.S. Palani**, and Nagesh R. Iyer (2015) "Multiscale analysis and mechanical properties of cement clinker phases with molecular dynamics simulations", Journal of Coupled Systems and Multiscale Dynamics, Vol. 2 (4), pp214-223.
4. Saravanan M., Marimuthu V., Prabha P., Surendran M., and **Palani G.S.** (2014) "Seismic characterization of cold formed steel pallet racks, Earthquakes and Structures", An International Journal, Vol. 7 (6), pp 955-967.
5. P. Prabha, V. Marimuthu, M. Saravanan, **G.S. Palani**, N. Lakshmanan and R. Senthil (2013) "Effect of confinement on steel-concrete composite light-weight load-bearing wall panels under compression", Journal of Constructional Steel Research, Vol. 81, pp 11-19.
6. Ramachandra Murthy, A., **Palani, G.S.**, Smitha Gopinath, Ramesh Kumar, V and Nagesh R. Iyer (2013) "An Improved Concrete Damage Model for Impact Analysis of Concrete Structural Components by using Finite Element Method", Computers, Materials & Continua, Vol. 37(2) , pp 77-96.
7. Ramachandra Murthy A., **Palani G.S.**, and Nagesh R Iyer. (2013) "A Simple Analytical Model for Evaluation of Penetration Depth and Resistant Strength of Concrete Targets", International Journal of Structural Stability and Dynamics, Vol. 13 (3).
8. A. Ramachandra Murthy, **G.S. Palani**, Nagesh R. Iyer, Smitha Gopinath, V. Ramesh Kumar (2012) "Impact failure analysis of reinforced concrete structural components by using finite element method", International Journal of Computer Modeling in Engineering & Sciences (CMES), Vol. 86 (5), pp 409-434.
9. A. Ramachandra Murthy, **G.S. Palani**, Nagesh R. Iyer, Smitha Gopinath & B.K. Raghu Prasad (2012) "Residual strength evaluation of concrete structural components under fatigue loading", Sadhana, Vol. 37, Part 1, pp 133-147.
10. A. Rama Chandra Murthy, **G.S. Palani** and Nagesh R. Iyer, (2011) "Object Oriented Paradigm for Damage Tolerant Evaluation of Engineering Structures", Advances in Engineering Software, Vol. 42, No.1-2, pp 12-24.