

Dr. Suresh Kumar C

LIST OF PUBLICATIONS

International/National Journal:

1. **Suresh Kumar C**, Fotouhi M, Saeedifar M, Arumugam V, (2019), Acoustic emission based investigation on the effect of temperature and hybridization on drop weight impact and post-impact residual strength of hemp and basalt fibres reinforced polymer composite laminates. Composites Part B: Engineering, 106962. DOI: 10.1016/j.compositesb.2019.106962.
2. A.R. Jac Fredo, R.S. Abilash, R. Femi, N. Sri Madhava Raja, **C. Suresh Kumar**, (2019), Characterization of global and local damages in composite images using geometrical and Fourier-Hu moment based shape descriptors, Journal of Testing and Evaluation, DOI: 10.1520/JTE20180701, ASTM Digital Library, Impact factor- 0.669
3. **C Suresh Kumar**, K Saravanakumar, V Arumugam, (2019) "Characterization of failure mechanism in glass, carbon and their hybrid composite laminates in epoxy resin by acoustic emission monitoring", Nondestructive Testing and Evaluation, Vol. 34, no. 3, pp. 254-266, Taylor & Francis, Impact Factor - 1.957
4. ARJ Fredo , RS Abilash , R Femi , A Mythili , **C Suresh Kumar**, (2019) "Classification of damages in composite images using Zernike moments and support vector machines", Composites Part B: Engineering, Vol 168, no. 1, pp. 77-86. Elsevier, Impact Factor - 4.920
5. **C Suresh Kumar**, P Pabitha, R Sengottuvelusamy, V Arumugam, S Srinivasan, (2018) "Optimization of acoustic emission parameters to discriminate failure modes in glass/epoxy composite laminates using pattern recognition", Journal of Structural Health Monitoring, Vol. 18, no. 4, pp. 1253-1267. Sage, Impact Factor - 3.798
6. **CS Kumar**, V Arumugam, C Santulli, (2017) "Characterization of indentation damage resistance of hybrid composite laminates using acoustic emission monitoring", Composites Part B: Engineering, Vol.111, pp.165-178. Elsevier, Impact Factor - 4.920
7. **CS Kumar**, V Arumugam, R Sengottuvelusamy, S Srinivasan, HN Dhakal, (2017) "Failure strength prediction of glass/epoxy composite laminates from acoustic emission parameters using artificial neural network", Applied Acoustics, Vol. 115, pp.32-41, Elsevier, Impact Factor - 1.921
8. ARJ Fredo, **CS Kumar**, RS Abilash, (2017) "Segmentation and analysis of damages in composite images using multi-level threshold methods and geometrical features", Measurement, Vol.100, pp.270-278, Elsevier, Impact Factor - 2.359
9. **C Suresh Kumar**, V Arumugam, HN Dhakal, R John, (2015) "Effect of temperature and hybridisation on the low velocity impact behavior of hemp-basalt/epoxy composites", Composite Structures, Vol.125, pp. 407- 416, Elsevier, Impact Factor - 4.101
10. **CS Kumar**, V Arumugam, S Sajith, HN Dhakal, R John, (2015) "Acoustic emission characterisation of failure modes in hemp/epoxy and glass/epoxy composite laminates", Journal

of Nondestructive Evaluation, ISSN: 0195-9298, Vol. 34, no. 4, pp. 1-11, Springer, Impact Factor - 1.690

11. S. S. Benadict Bensiger and **C. Suresh Kumar**, (2014) "Prediction of failure loads in glass/epoxy laminates from acoustic emission monitoring using artificial neural network", Elixir Mechanical Engineering, Vol. 71, pp. 24514-24517, Elixir, Impact Factor - 6.865.
12. V Arumugam, **C Suresh Kumar**, C Santulli, F Sarasini, A Joseph Stanley, (2013) "Identification of failure modes in composites from clustered acoustic emission data using pattern recognition and wavelet transformation", Arabian Journal for Science and Engineering, Vol. 38, no. 5, pp. 1087-1102, Springer, Impact factor- 1.092
13. V Arumugam, **CS Kumar**, C Santulli, F Sarasini, AJ Stanley, (2011) "A global method for the identification of failure modes in fiber glass using acoustic emission", Journal of Testing and Evaluation, Vol. 39, no. 5, pp. 954-966, ASTM Digital Library, Impact factor- 0.669

International/National Journal:

1. **C Suresh Kumar**, D Hasen, V Arumugam, Presented a paper entitled "Acoustic emission characterization of failure modes in unidirectional glass/epoxy composite laminates under flexural and compression loading", Hindustan Institute of Technology and Science, National Conference on Aerospace Technology (NCAT 2018), 27th-28th Sep 2018.
2. **C Suresh Kumar** and V. Arumugam, Presented a paper entitled "Characterization of damage modes in glass/epoxy composite laminates using acoustic emission monitoring" in an International Conference on Modeling Optimization and Computing (ICMOC 2012), held at Noorul Islam University, Kumaracoil, Tamil Nadu, India on 10 & 11 April 2012.
3. **C Suresh Kumar**, V Arumugam, (2011) "Characterization of failure modes in unidirectional glass/epoxy laminate from acoustic emission data using parametric analysis and wavelet transform, Proceeding of the 26th IEC, pp. 3
4. **C Suresh Kumar**, V Arumugam, BTN Sridhar, A Joseph Stanley, (2009) "Characterization of failure modes in GFRP laminates from acoustic emission data using unsupervised classifiers" ISAMPE Conference-2009, pp. 414-422.