

Dr.V.K BUPESH RAJA  
LIST OF PUBLICATIONS

1. Mathew Alphonse, **V.K.Bupesh Raja\***, Manoj Gupta, and K. Logesh, Optimization of coated friction drilling tool for a FML composite, *Materials and Manufacturing Processes*, 2020. Taylor and Francis. Pp. 1-10, 2020. <https://doi.org/10.1080/10426914.2020.1832684>. Published online on 19th October 2020. (**WoS. IF: 3.046**)
2. Mathew Alphonse, **V.K.Bupesh Raja\***, K.Palanikumar, Effect of Friction Drilling on Metallurgical and Mechanical Properties of Composite Materials: A review, *Current Material Science*, Bentham Science. Accepted on 15th October 2020. (**Scopus**).
3. Mathew Alphonse, **V.K.Bupesh Raja\***, Manoj Gupta, Investigation on Tribological Behavior during Friction Drilling Process - A Review, *Tribology in Industry*, In Press. DOI: 10.24874/ti.655.02.19.03. University of Kragujevac, Serbia. <http://www.tribology.rs/inpress.html> (**Scopus**).
4. Pushkaraj D Sonawane, **V.K.Bupesh Raja\***, Manoj Gupta, Microstructure, Mechanical, and Electrical Properties and Corrosion Analysis of Lead-Free Solder CSI Joints on Cu Substrate Using Novel Concentrated Solar Energy Soldering (CSES) Method, *Advances in Materials Science Engineering*, Volume:2020,ArticleID:7612186.<https://doi.org/10.1155/2020/7612186>.<https://www.hindawi.com/journal/s/amse/2020/7612186/>. 26th March 2020. (**WoS. IF: 1.399**).
5. Mathew Alphonse, **V.K.Bupesh Raja\***, Manoj Gupta, Optimization of plasma nitrided, liquid nitrided & PVD TiN coated H13-D2 friction drilling tool on AZ31B magnesium alloy, *Materials Today: Proceedings*, Elsevier. <https://doi.org/10.1016/j.matpr.2020.03.791>. 30th April 2020. (**Scopus**)
6. **V.K.Bupesh Raja\***, K.Palanikumar, Arja Sri Sai, Bandi Vedaraj Goud, Pitting corrosion studies on Ti6Al4V alloy weldments in marine environment, *Indian Journal of Geo Marine Sciences (IJMS)*, Vol.48 (08), pp. 1179-1182. August 2019. <http://nopr.niscair.res.in/handle/123456789/49716> (**WoS, IF:0.301**)
7. Logesh.K, **V.K.Bupesh Raja\***, Effect of forming parameters on mechanical properties of epoxy-based fiber metal laminates, *Indian Journal of Geo Marine Sciences (IJMS)*, Vol.48 (08), pp. 1198-1204. August 2019. <http://nopr.niscair.res.in/handle/123456789/49713> (**WoS, IF:0.301**)
8. J.R.Deepak\*, **V.K.Bupesh Raja**, Gobi Saravanan Kaliaraj, Mechanical and Corrosion Behavior of Cu, Cr, Ni and Zn Electroplating on Corten A588 Steel for Scope for Betterment in Ambient Construction Applications, *Results in Physics*, Volume 14, September 2019, 102437. <https://doi.org/10.1016/j.rinp.2019.102437> (**WoS, IF- 3.042**)
9. K.S. Sridhar Raja, **V.K. Bupesh Raja\***, M. Gupta, Using anthropogenic waste (steel slag) to enhance mechanical and wear properties of a commercial Aluminium alloy A356, *Archives of Metallurgy and Materials*, Vol. 64, Issue.1, 2019, pp-279-284. De Gruyter Open Company, Poland. DOI: 10.24425/amm.2019.126249. (**WoS, IF: 0.697**)
10. R.Padmapriya\*, **V.K.Bupesh Raja**, V.Ganesh Kumar, J.Baalamurugan, Effect on properties of concrete in partial replacement of fine aggregate by steel slag and cement by metakaolin, *Rasayan J. Chemistry*, 12 (4), 1744 – 1751, 2019. <http://dx.doi.org/10.31788/RJC.2019.1245211> (**Scopus**).
11. **V. K. Bupesh Raja\***, K. Logesh, Eriki Ananda Kumar, An Evaluation of Mechanical and Formability Parameters of Aluminium Based Polypropylene Sandwich Materials, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*. ISSN(P): 2249-6890; ISSN(E): 2249-8001, Vol. 9, Issue 3, Jun 2019, 813-826. <https://issuu.com/tjprc/docs/90.ijmperdjun201990>. (**Scopus**)

12. Baalamurugan J, V.Ganesh Kumar, V.Chandrasekaran, S.Balasundar, B.Venkatraman, R.Padmapriya, **V.K.Bupesh Raja**, Utilization of induction furnace steel slag in concrete as coarse aggregate for gamma radiation shielding, *Journal of Hazardous Materials*, Vol. 369, pp. 561-568. Feb 2019, <https://doi.org/10.1016/j.jhazmat.2019.02.064> (**WoS. IF:9.038**)
13. Pushkaraj D. Sonawane, **V.K.Bupesh Raja**, “Advances in Lead-Free Solders”, *International Journal of Mechanical Engineering and Technology (IJMET)* Volume 10, Issue 02, February 2019, pp. 520 – 526. ISSN Print: 0976-6340 and ISSN Online: 0976-6359. (**Scopus**).
14. K.Logesh, **V.K.Bupesh Raja**, Evaluation of mechanical properties of Mg-Al layered double hydroxide as a filler in epoxy-based FML composites, *The International Journal of Advanced Manufacturing Technology*, Pages 1-19, 17 February 2018. <https://doi.org/10.1007/s00170-018-1692-8>. (**WoS, IF: 2.496**).
15. Pushkaraj D. Sonawane, **V.K.Bupesh Raja**, “Concentrated solar energy in materials processing”, *International Journal of Ambient Energy*, Volume 39, Issue 8, pp1-7, 2018. Published online: 20 Jul 2018. <https://doi.org/10.1080/01430750.2018.1493398>. (**Scopus**).
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17. J.Baalamurugan, V.Ganesh Kumar, K. Govindaraju, B. S. Naveen Prasad, **V.K.Bupesh Raja** and R.Padmapriya, ‘Slag based nanomaterial in the removal of hexavalent chromium’, *International Journal of Nanoscience*, Vol. 17, No. 01n02, 1760013, pp.1 – 6, 2018. <https://doi.org/10.1142/S0219581X17600134> (**Scopus**).
18. K.Logesh, **V.K.Bupesh Raja**, Vipin H. Nair, Sreerag, K.M., Vishvesvaran, K.M., M.Balaji, Review on manufacturing of fibre metal laminates and its characterization techniques, *International Journal of Mechanical Engineering and Technology (IJMET)*, Volume 8, Issue 10, Pages 561-578, October 2017. ISSN Print: 0976-6340 and ISSN Online: 0976-6359
19. K.Logesh, **V.K.Bupesh Raja**, Rubesh khannaa Sivakumar, R.Krithick Vignesh and Nishant Kumar Nath, Experimental investigation on formability analysis, mechanical and corrosion behaviour of AA1100 sheet metal, *International Journal of Mechanical Engineering and Technology (IJMET)*, Volume 8, Issue 8, Pages 900-909, 2017. ISSN Print: 0976-6340 and ISSN Online: 0976-6359
20. K.Logesh, **V.K.Bupesh Raja**, Experimental studies on impact strength of AA5052-MWCNT/LDH reinforced hybrid fibre metal laminate, *International Journal of Mechanical Engineering and Technology(IJMET)*, Volume 8, Issue 7, Pages 784-794, July 2017. ISSN Print: 0976-6340 and ISSN Online: 0976-6359
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24. K.Logesh, **V.K.Bupesh Raja**, R.Arun Raj, P.B.Senthilkumar, A Review of Recent Trends on Reinforcement of Fibre Metal Laminates with Nanoclay and Multi Walled Carbon Nanotubes, International Journal of ChemTech Research, Vol.10 No.3, pp 395-399, 2017. ISSN: 0974-4290, ISSN(Online):2455-9555.
25. K.Logesh, **V.K.Bupesh Raja**, B.GowthamaRajan, V.Ramani, Experimental Studies on Surface Morphology of Nano clay and Mg-Al Layered Double Hydroxide Using Atomic Force Microscopy and EDAX Analysis, International Journal of ChemTech Research, Vol.10 No.3, pp 385-394, 2017. ISSN: 0974-4290, ISSN(Online):2455-9555.
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28. K. Logesh, **V.K. Bupesh Raja**, D. Surryaprakash, R. Desigavinayagam, Formability of heat treated AA19000, AA5052 and simulation using ABAQUS/CAE, International Journal of Vehicle Structures and Systems, Vol.9, Issue 4, pp.233-237, 2017. <http://dx.doi.org/10.4273/ijvss.9.4.07>. (**Scopus**).
29. Gopal.P, **Bupesh Raja.V.K**, Chandrasekaran.M., Dhanasekaran.C, Wear study on hybrid natural fiber epoxy composite materials used as automotive body shell, ARPN Journal of Engineering and Applied Sciences, Vol. 12, No. 8, April 2017. ISSN 1819-6608. (**Scopus**).
30. Gopal.P, **Bupesh Raja.V.K**, Chandrasekaran.M, Dhanasekaran.C, Woven Hybrid Composites - Tensile and Flexural Properties of Jute Mat Fibres with Epoxy Composites, IOP Conference Series: Materials Science and Engineering, 2017. <https://doi.org/10.1088/1757-899X/183/1/012001> (**Scopus**).
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33. Sridhar Raja.K.S, **Bupesh Raja.V.K**, AaroRinold.F, Abhilash.L.S, Effect of Steel slag on Wear Characterization of Aluminium Composite Using Taguchi Technique, IOP Conference Series: Materials Science and Engineering, 2017. <https://doi.org/10.1088/1757-899X/197/1/012053>. (**Scopus**)
34. Alphonse.M, **Bupesh Raja.V.K**, Logesh.K, MuruguNachippan.N, Evolution and Recent Trends in Friction Drilling Technique and the Application of Thermography, IOP Conference Series: Materials Science and Engineering, 2017. <https://doi.org/10.1088/1757-899X/197/1/012058>. (**Scopus**)

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36. Deepak.J.R., **Bupesh Raja.V.K**, Senthil Kumar.J., Thomas.S., Vithaiyathil.T.R, Plasma Nitriding of CP Titanium Grade-2 and Ti-6Al-4V Grade-5, IOP Conference Series: Materials Science and Engineering, 2017. <https://doi.org/10.1088/1757-899X/197/1/012065>. (**Scopus**)
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39. P.Gopal, **V.K.Bupesh Raja**, “The Water Absorption Behaviour of Coconut Shell Powder Reinforced Epoxy/Jute Fibre Mat and Epoxy/Glass Fibre Mat Hybrid Composites”, Research Journal of Pharmaceutical, Biological and Chemical Sciences, Vol 8(2), pp.457-461, 2017. ISSN: 0975-8585
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41. P.Gopal, **V.K.Bupesh Raja**, “Fracture Topography Investigation of Cross Stitched and Unstitched Jute Fiber with Coconut Shell Powder/Epoxy Laminates”, International Journal of Mechanical Engineering and Research (IJMER), Vol.7, No.1, pp. 11-19, 2017. ISSN 2249-0019
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43. Sivasaravanan.S, **Bupesh Raja.V.K**, Saireddy Dineshreddy and Vadlamudi Sathvik, An Effect of Different Plate Thickness on the Tensile and Flexural Strength of Epoxy LY556 / E- Glass Fiber / Nano Clay Composite Materials, Journal of Transylvanian Review, Vol. 24, Issue No.9, pp.1570-1579, 2016. ISSN: 1221-1249. (**WoS, IF: 0.012**)
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