

List of Publications

- 1) P.Karuppusamy, **K.Lingadurai**, P.Sivananth, “Effects of T4 and T6 Heat Treatments on the Wear Behaviour of WC-Reinforced Mg Alloy Matrix Composite”, Transactions of the Indian Institute of Metals, Vol 73, 2020, pp 521–530, ISSN: 0972-2815
- 2) P.Karuppusamy, **K.Lingadurai**, P.Sivananth, “Wear and Corrosion behavior of titanium carbide metal matrix composite for automobile brake and applications” Int. J. of Mat. Engg., Inov., 10(3), 246-267, 2019, ISSN: 1757-2762
- 3) P.Karuppusamy, **K.Lingadurai**, P.Sivananth, “Influence of Cryogenic Treatment on AS-cast AZ91+1.5wt% WC Mg-MMNC wear Performance” Advances in materials & Metallurg 4, 2019, 185-197, ISSN: 0742-4787, DOI: <https://doi.org/10.1115/1.4042506>, (IF-1.89).
- 4) P.Karuppusamy, **K.Lingadurai**, P.Sivananth, “To study of the role of WC reinforcement and deep cryogenic treatment on AZ91 MMNC wear behavior using multilevel factorial design” Journal of tribology 4, 2019, 041608-11, ISSN: 0742-4787, DOI: <https://doi.org/10.1115/1.4042506>, (IF-1.89).
- 5) M.Chellappan, **K.Lingadurai**, P.Sathiya, “Characterization and Optimization of TIG welded super martensitic stainless steel using TOPSIS” Materials Today: Proceedings 4, 2017, 1662–1669, ISSN: 2214-7853, DOI: www.sciencedirect.com/science/article/pii/S2214785317302018, UGC-J.No.49021.(IF-0.314).
- 6) R.Mukesh, **K.Lingadurai** and U.Selvakumar, “Airfoil shape optimization based on Surrogate Model” J.Inst.Engg.(India):Series C, 2017, 1-8, ISSN: 2250-0545, DOI: link.springer.com/article/10.1007/s40032-017-0382-x. UGC-J.No.11116. (IF-0.24).
- 7) I.J.Prem Kumar, **K.Lingadurai** and K.Raja, “Performance and Emission Characteristics of Diesel-Rice bran biodiesel blend ratios using different piston dimensions in diesel engine”, Int.J.of Chem. Tech. Res., 2017, 10(9), 322-332, ISSN: 0974-4290, DOI: [http://www.sphinxesai.com/2017/ch_vol10_no9/1/\(322-332\)V10N9CT.pdf](http://www.sphinxesai.com/2017/ch_vol10_no9/1/(322-332)V10N9CT.pdf), (IF-0.14).
- 8) R.Nishanth, **K.Lingadurai**, S.Periyannan and K.Balasubramaniam, “Unltrasonic waveguide-based distributed temperature measurement on a soil surface”, J.of the British Inst. Of NDT, INSIGHT-NDT&CM, 59(7), 2017, 358-363, ISSN: 1354-2575 DOI: www.ingentaconnect.com/contentone/bindt/insight/2017/00000059/00000007/art00004, UGC-J.No. 21251. (IF-0.3).
- 9) **K.Lingadurai**, I.J.Prem Kumar and G.Navaneetha Krishnan, “Investigation of Production and Evaluation of Mono Alkyl Ester in Compression ignition Engines”, Int.J.of Chem. Tech. Res., 2017, 10(2), 1071-1078, ISSN: 0974-5649, DOI: [www.sphinxesai.com/2017/ch_vol10_no2/3/\(1071-1078\)V10N2CT.pdf](http://www.sphinxesai.com/2017/ch_vol10_no2/3/(1071-1078)V10N2CT.pdf), (IF-0.14).
- 10) M.Chellappan, **K.Lingadurai**, P.Sathiya, K.Devakumaran and K.Raja, “Effect of Heat Input on Mechanical and Metallurgical Properties of Gas Tungsten Arc Welded Lean Super Martensitic Stainless Steel”, Materials Res., 2016, 19(3), 572-579, ISSN: 1516-1439, DOI: 10.1590/1980-5373-MR-2015-0538 (or) DOI: www.scielo.br/pdf/mr/v19n3/1516-1439-mr-1980-5373-MR-2015-0538.pdf, UGC-J.No.3983. (IF-0.4).
- 11) B.Ashokkumar, **K.Lingadurai**, K.Raja, P.Ganesan and S.Viram, “Prediction Effect of Fiber Content on Mechanical Properties of Banana and Madar Fiber Hybrid Polyester Composite”, Adv.Int.Natu.&App.Sci., 2016, 10(7), 180-183, ISSN: 1995-0772, DOI: www.aensiweb.net/AENSIWEB/anas/anas/2016/Special%20Mechanical%20Engineering/180-183.pdf, (IF-0.18).

- 12) K.Yoganandam, K.Raja and **K.Lingadurai**, “Mechanical and Micro Structural Characterization of Al6082-TiO₂ Metal Matrix Composites produced via Compo Casting Method”, Ind.J. Sci. &Tech., 2016, 9(41), 1-4, ISSN:0974-5645, DOI: www.indjst.org/index.php/indjst/article/view/101975/74715, (IF-0.2).
- 13) P.Sathiskumar, S.Dharmalingam, K.Raja and **K.Lingadurai**, “Investigation on Electrochemical Micro Machining of Al 6061-6% wt Gr based on Taguchi design of Experiments”, Int.J.of Chem. Tech. Res., 2015, 7(1), 203-211, ISSN: 0974-4290, DOI: [sphinx.sai.com/2015/ch_vol7_no1/3/\(203-211\)%20014.pdf](http://sphinx.sai.com/2015/ch_vol7_no1/3/(203-211)%20014.pdf), (IF-0.14).
- 14) P.Ganesan, K.Raja, **K.Lingadurai** and M.Kaliappan, “Design and Development of Alternate composite Materials for an Automobile Drive Shaft”, Int. J. of App. Engg. Res., 2015, 10(15), 12051-12057, ISSN:0973-4562, DOI:<https://www.ripublication.com/Volume/ijaerv10n15spl.htm>. UGC-J.No.64529.
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- 16) P.Ganesan, K.Raja, **K.Lingadurai** and M.Kaliappan, “Finite Element Analysis of Alternate Composite Material for an Automobile Drive shaft”, Int. J. of App. Engg. Res., 2015, 10(49), 447-452, ISSN: 0973-4562, DOI: <https://www.ripublication.com/Volume/ijaerv10n49spl.htm>. UGC-J.No.64529.
- 17) V.S.Chandra Sekar, K.Raja, and **K.Lingadurai**, “Investigation on Mechanical Behaviour of Composite Materials based Torsion / Anti-Roll bar for Automobiles”, Int. J. of App. Engg. Res., 2015, 10(49), 434-438, ISSN:0973-4562, DOI:<https://www.ripublication.com/Volume/ijaerv10n49spl.htm>. UGC-J.No.64529.
- 18) M.Chellappan, **K.Lingadurai**, and P.Sathiy, “Effect of flux on microstructure and mechanical properties of super martensitic stainless steel using activated tungsten inert gas welding process”, Int. J. of App. Engg. Res., 2015, 10(22), 43097- 43102, ISSN 0973-9769, DOI: www.ripublication.com/Volume/ijaerv10n22.htm. UGC-J.No.64529.
- 19) R.Mukesh, **K.Lingadurai** and U.Selvakumar, “Kriging Methodology for Surrogate Based Airfoil Shape Optimization”, Arabian J. of Sci.& Engg., Springer, 2014, 39(10), 7363-7373, ISSN: 2193-567X, DOI:link.springer.com/article/10.1007/s13369-014-1327-9. UGC-J.No.8147. (IF-1.092).
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- 21) R.Mukesh and **K.Lingadurai**, “Design Optimization of Airfoil and its Validation using Wind Tunnel”, Australian J. of Basic & Applied Sci., AENIS, 2014, 8(17), 476-482, ISSN:1991-8178, DOI: ajbasweb.com/old/ajbas/2014/November/476-482.pdf, (IF-0.125).
- 22) S.Muthukumar and **K.Lingadurai**, “Investigating the Mechanical Behavior of Coconut shell and Groundnut shell reinforced polymer composite”, Global J. of Engg., & Sci., 2014, 1(3), 19-23, ISSN:2348-8034, DOI: www.gjesr.com/Issues%20PDF/Archive-2014/May-2014/4.pdf. UGC-J.No.64316
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- 24) R.Mukesh, R.Pandiyarajan, U.Selvakumar and **K.Lingadurai**, “Influence Of Search Algorithms On Aerodynamic Design Optimization of Aircraft Wings”, Procedia Engineering, 2155-

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- 26) R.Mukesh, R.Pandiyarajan, U. Selvakumar and **K.Lingadurai**, “Influence of Search Algorithms on Aerodynamic Design Optimization of Aircraft Wings”, Int. J. of Soft Computing, Medwell Journals, 2012, 7(2), 79-84, ISSN:1816-9503, DOI: www.medwelljournals.com/abstract/?doi=ijsscomp.2012.79.84, (IF-0.11).
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- 28) R.Mukesh, **K.Lingadurai** and K. Elamvaluthi, “Influence of Optimization Algorithm on Airfoil Shape Optimization of Aircraft Wings”, Applied Mech. and Mat., Trans Tech Pub., 2012, 232, 614-619, ISSN 1660-9336, DOI: www.scientific.net/AMM.232.614, (IF-0.12)
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