LIST OF PAPERS PUBLISHED IN INTERNATIONAL JOURNALS (SCI/SCIE/WoS/CLARIVATE INDEXED)

1. Dual fuel combustion of 1-hexanol with diesel and biodiesel fuels in a diesel engine: An experimental investigation and multi criteria optimization using artificial neural network and TOPSIS algorithm, T. Anandavelu, Sundararajan Rajkumar, Vinoth Thangarasu, Fuel, 2023, , https://doi.org/10.1016/j.fuel.2022.127318.
2. Effect of crack and vibration of waste tyre rubber hybrid composite for energy absorption applications., Sermaraj M, Ramanathan K, Alphin MS, Progress in Rubber, Plastics and Recycling Technology. , 2023, , https://doi.org/10.1177/14777606231152508.
3. Investigations on Integrated funnel, Fan and Diffuser Augmented Unique Wind Turbine to Enhance the Wind Speed, Ramesh Kumar K, Selvaraj M, Journal of Applied Fluid Mechanics, 2023, , https://doi.org/10.47176/jafm.16.03.1498.
4. Investigation of the mechanical behaviour of hybrid fiber reinforced composite with aluminium laminates, Ramesh R, Nalla Mohamed M, Physica Scripta, 2023, , https://doi.org/10.1088/1402-4896/acaa69.
5. Performance assessment of annular fins and cellulose cooling pad on heat transfer enhancement of evaporative heat exchangers using volumetric heat and mass transfer coefficients, V. Naveenprabhu, M. Suresh, Numerical Heat Transfer, Part A: Applications, 2023, , https://doi.org/10.1080/10407782.2022.2101802.
6. Investigate the effect of ground tyre rubber as a reinforcement filler in natural rubber hybrid composites, P. Kaliyappan, M. Dhananchezian, Soft Materials, 2023, , doi.org/10.1080/1539445X.2023.2169459.
7. Enhancement of grinding performances using fabricated pore aligned grinding wheels with PCAGRA, Hepsi Beaula M J, K. Jayakumar, Materials and Manufacturing Processes, 2023, , doi.org/10.1080/10426914.2022.2089890.
8. Influence of pulsed TIG welding process parameters on the mechanical characteristics of AA5083 with AA6082 weldments, Ramarajan A, K. Jayakumar, Materials Research Express, 2023, , doi.org/10.1088/2053-1591/acb682.
9. Unravelling the microstructure – indentation creep resistance relationships for friction stir welded modified 9Cr-1Mo steel and LN-type 316 stainless-steel dissimilar joints, Venkata krishna, A., Lakshminarayanan, A.K., Vasantharaja, P., Vasudevan, M.,, Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, , 2023, , https://doi.org/10.1177/14644207221148658.
10. Friction stir lap joining techniques effects on microstructure and tensile properties of high-strength automotive steel top hat sections, , V. Abhilash and AK. Lakshminarayanan, Materials Research Express, 2023, , https://doi.org/10.1088/2053-1591/acb63e.
11. Optimization of GTAW Process Parameters of Dissimilar Al-Mg Alloys For Enhanced Joint Strength – Taguchi Approach, D. Antony prabu, K. S. Jayakumar, E. Madhavan Pillai, G. Kumaresan, Arch. Metall. Mater, 2023, , https://doi.org/10.24425/amm.2023.142440.

12. High-velocity projectile impact behaviour of friction stir welded AA7075 thick plates, R. Praveen, S.R. Koteswara Rao, G. Selvakumar, R. Damodaram, Defence Technology, 2023, , https://doi.org/10.1016/j.dt.2023.01.019.
13. A critical review of the correlative effect of process parameters on pyrolysis of plastic wastes, M Vaishnavi, P.M. Vasanth, S. Rajkumar,*, K.P Gopinath and Y. Devarajan, Journal of Analytical and Applied Pyrolysis, 2023, , doi.org/10.1016/j.jaap.2023.105907.
14. A Techno-Economic Assessment of Waste Oil Biodiesel Blends for Automotive Applications in Urban Areas: Case of India, T. Jeyaseelan, T.E. Samad, S. Rajkumar, A. Chatterjee and J. Al-Zaili, Energy, 2023, , https://doi.org/10.1016/j.energy.2023.127021 .
15. A review of comparison between the traditional catalyst and zeolite catalyst for ammonia-selective catalytic reduction of NOx, , M Sunil Kumar, MS Alphin, S Manigandan, S Vignesh, S Vigneshwaran, T Subash, Fuel, , 2023, , https://doi.org/10.1016/j.fuel.2023.128125.
16. A review on performance evaluation of liquid nitrogen as coolant in turning Ti-6Al-4V alloy, M. Dhananchezian, Machining Science and Technology – An International Journal , 2023, , https://doi.org/10.1080/10910344.2023.2180749.
17. Corrosion, mechanical and microstructural properties of aluminum 7075–carbon nanotube nanocomposites for robots in corrosive environments, Arun David, Satheesh Kumar Gopal, Poovazhagan Lakshmanan, and Amith Sukumaran Chenbagam, International Journal of Minerals , Metallurgy and Materials, Springer, 2023, , https://doi.org/10.1007/s12613-022-2592-3.
18. Parametric Studies on a Two- Stage Evaporative Cooler During Tropical Climates in India, T Usharani, M Suresh, Journal of Thermal Science and Engineering Applications, 2023, , https://doi.org/10.1115/1.4062185.
19. TiO2-carbon nanotubes composite supported MnOx-CuO catalyst for low-temperature NH3-SCR of NO: Investigation of SO2 and H2O tolerance, S. Raja, M.S. Alphin, L. Sivachandiran, Pratichi Singh, Devaiah Damma, Panagiotis G. Smirniotis, Fuel, 2022, 0016-2361, https://doi.org/10.1016/j.fuel.2021.121886.
20. Integration of artificial neural network, multi-objective genetic algorithm and phenomenological combustion modelling for effective operation of biodiesel blends in an automotive engine, S Rajkumar, Arnab Das, J Thangaraja, Energy, Elsevier, 2022, 0360-5442, https://www.sciencedirect.com/science/article/abs/pii/S036054422102137X .
21. Influence of barite particulate filler on the mechanical behaviour of carbon fiber reinforced LY556 epoxy matrix composites, S R Benin, G Selvakumar, M Sumathi and Renjin J Bright, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 0954-4062, https://journals.sagepub.com/doi/abs/10.1177/09544062211017951 .
22. Process optimization and removal of phenol formaldehyde resin coating using mechanical erosion process, P. Sabarinathan, V.E. Annamalai, K. Vishal, M.S. Nitin, V. Dhinakaran, Progress in Rubber, Plastics and Recycling Technology, 2022, 1478-2413, https://journals.sagepub.com/doi/abs/10.1177/14777606211066316 .
23. Influence of scandium on aa5052-h32/aa5083-h111 tig welded joint, Antony prabu D, Jayakumar K.S, Vimal Singh. R, Journal of the Chinese Institute of Engineers, 2022, 1876-

1062,
https://www.tandfonline.com/doi/abs/10.1080/02533839.2022.2034048?journalCode=tcie20 .
24. Impression Creep Behavior of an Mg–Zn–RE Alloy at Elevated Temperatures, D. Ebenezer & S. R. Koteswara Rao, Metallurgical and Materials Transactions A, 2022, 1073-5623, https://link.springer.com/article/10.1007/s11661-021-06551-8#Abs1 .
25. A novel decision-making tool for performance evaluation of vegetable oils used as heat transfer fuids in concentrated solar power plants, Divya Zindani, Saikat Ranjan Maity, Sumit Bhowmik, Environment, Development and Sustainability, 2022, 1573-2975, https://link.springer.com/article/10.1007/s10668-021-01991-z .
26. Energy and exergy analysis and multi-objective optimization of a biodiesel fueled direct ignition engine, Raja S., Natarajan S & Alphin MS, Results in Chemistry, 2022, 2211-7156, https://www.sciencedirect.com/science/article/pii/S2211715622000030 .
27. Experimental and Theoretical Yield Strength of Silicon Carbide and Hexagonal Boron Nitride Reinforced Mg-Zn Nanocomposites Produced by the Combined Effects of Ultrasonication and Squeeze Casting, K. Parthiban · Poovazhagan Lakshmanan · A. Gnanavelbabu, Silicon (Springer), 2022, 1876-9918, https://link.springer.com/article/10.1007/s12633-022-01679-7 .
28. Process optimization and removal of phenol formaldehyde resin coating using mechanical erosion process, P. Sabarinathan, V.E. Annamalai, K. Vishal, M.S. Nitin, V. Dhinakaran, Progress in Rubber Plastics and Recycling Technology, 2022, 1478-2413, https://journals.sagepub.com/doi/abs/10.1177/14777606211066316 .
29. Influence of silicon filler size and concentration on thermal stability and erosion wear resistance of polymer composite, K. Rajkumar, K.M. Nambiraj, K. Ramraji, B. Shahul Hamid Khan, Silicon, 2022, 1876-9918, https://doi.org/10.1007/s12633-022-01711-w .
30. Friction Surfaced Alloy 718 Deposits: Effect of Process Parameters on Coating Performance, S. Cyril Joseph Daniel, R. Damodaram, G.M. Karthik, B. Lakshmana Rao, Journal of Materials Engineering and Performance, 2022, 1059-9495, https://doi.org/10.1007/s11665-021-06488-4 .
31. "Biochar supported manganese based catalyst for low-temperature selective catalytic reduction of nitric oxide, S. Raja, D. Eshwar, S. Natarajan , M. S. Alphin, Journal Clean Technologies and Environmental Policy, 2022, 1618-9558,
32. https://doi.org/10.1007/s10098-022-02274-5 ."
33. Development of a co-extruded Al-Ti bimetal composite,, Arunkumar, M. S. Alphin, Z. Edward Kennedy, N. Sriraman, ., Materials and technology, 2022, 1580-3414, https://mater-tehnol.si/index.php/MatTech/article/view/312 .
34. Effects of simultaneous rotational ultrasonication and vortex-induced casting technique on particle distribution and grain refinement in AA7075/h-BN nanocomposites, Amith S C and Poovazhagan Lakshmanan, Proc IMechE Part L: J Materials: Design and Applications, 2022, 1464-4207,
https://journals.sagepub.com/doi/abs/10.1177/14644207221077161?journalCode=pila .
35. Realization of a Novel Weaving Framework in Looms for Manufacturing of E-Textiles, Abirami Anbalagan; Esther Florence ;Vimal Samsingh R, IEEE Transactions on

Components, Packaging and Manufacturing Technology, 2022, 1558-3678, https://ieeexplore.ieee.org/document/9684385 .
36. Liquid cooling vs hybrid cooling for fast charging lithium-ion batteries: A comparative numerical study, Amalesh T. and N. Lakshmi Narasimhan, Applied Thermal Engineering, 2022, 1359-4311, https://doi.org/10.1016/j.applthermaleng.2022.118226 .
37. Prediction of dry sliding wear behaviour of China clay particles reinforced AA6082 matrix composites using Response Surface Methodology and analysis of the worn surfaces, Renjin J Bright, Selvakumar G and Sumathi. M, Surface Topography: Metrology and Properties, 2022, 2051-672X, https://iopscience.iop.org/article/10.1088/2051-672X/ac59d4/meta .
38. Harnessing friction stir back extrusion process to fabricate microtubes from as-cast Mg–4Zn–0.7Zr-1.6RE magnesium alloy, AK Lakshminarayanan, Saranarayanan Ramachandran ,M Bakkiyaraj and B.Rajabharathi, Surface Topography: Metrology and Properties, 2022, 2051-672X, https://iopscience.iop.org/article/10.1088/2051-672X/ac5ae4 .
39. Titanium versus magnesium plates for unilateral mandibular angle fracture fixation: biomechanical evaluation using 3-dimensional finite element analysis, Somasundaram Prasadh; Anirudh Venkatraman Krishnan; C.Y.H.Lim; Manoj Gupta; Raymond Wong, Journal of Materials Research and Technology, 2022, 2214-0697, https://www.sciencedirect.com/science/article/pii/S2238785422004185 .
40. Evaluation of the bio-dynamic response of the hand-arm system and hand-tool designs - A brief review,, Alphin M S, International Journal of Occupational Safety and Ergonomics, 2022, 2376-9130, https://pubmed.ncbi.nlm.nih.gov/35593190/ .
41. Characterization of Raw and Alkali Treated Cellulosic Filler Isolated from Putranjiva roxburghii W. Seed Shell Roadside Vegetative Residues, K.M. Muthukrishnan, G. Selvakumar, P. Narayanasamy and P. Ravindran, Journal of Natural Fibers, 2022, 1544-046X, https://www.tandfonline.com/doi/abs/10.1080/15440478.2022.2061670?journalCode=wjnf20 .
42. Experimental and empirical analysis of a diesel engine fuelled with ternary blends of diesel, waste cooking sunflower oil biodiesel and diethyl ether, Bukke Devaraj Naik, Udayakumar Meivelu, Vinoth Thangarasu, Santhoshkumar Annamalai, Vedharaj Sivasankaralingam, Fuel, 2022, 0016-2361, https://www.sciencedirect.com/science/article/abs/pii/S0016236122008201 .
43. Effects of dual fuel combustion on performance, emission and energy-exergy characteristics of diesel engine fuelled with diesel-isobutanol and biodiesel-isobutanol, M. Gowthama Krishnan and S. Rajkumar, Energy, Elsevier, 2022, 0360-5442, https://www.sciencedirect.com/science/article/abs/pii/S0360544222009252 .
44. Kigelia africana fruit biofibre polysaccharide extraction and biofibre development by silane chemical treatment, 43. K. Vishal, K. Rajkumar, M. S. Nitin, P. Sabarinathan, International Journal of Biological Macromolecules, 2022, 1879-0003, https://www.sciencedirect.com/science/article/abs/pii/S0141813022008443 .
45. An experimental analysis on the influence of CO2 laser machining parameters on a copper-based shape memory alloy, S.Santosh, J.Kevin Thomas, M.Pavithran, G.Nithyanandh,

J.Ashwath, Optics & Laser Technology, 2022, 0030-3992, https://www.sciencedirect.com/science/article/abs/pii/S003039922200367X .

46. Experimental and Numerical Investigation to Assess the Performance of Helical Bach Vertical Axis Wind Turbine at Low Wind Velocity Conditions, Micha Premkumar, Journal of Solar Energy Engineering, Transactions of the ASME, 2022, 1528-8986, https://doi.org/10.1115/1.4054469 .
47. Mechanical and Wear Characteristics Investigation on 3D Printed Silicon Filled Poly (lactic acid) Biopolymer Composite Fabricated by Fused Deposition Modelling, K.Rajkumar, Silicon, 2022, 1876-9918, https://link.springer.com/article/10.1007/s12633-022-01712-9 .
48. Influence of nano-Si3N4(P) hybridization on the mechanical and quasi-static compression behaviour of AA6082-Metakaolin composites, Renjin J. Bright, Kovove Materialy-Metallic Materials, 2022, 1338-4252, http://www.kovmat.sav.sk/article.php?rr=60&cc=3&ss=191 .
49. Optimization of target thickness and investigation on the effect of heat treatment on the ballistic performance of aluminium alloy 7075 targets against hard steel core projectile, R Praveen, Proc IMechE Part L: J Materials: Design and Applications, 2022, 1464-4207, https://journals.sagepub.com/doi/abs/10.1177/14644207221105365 .
50. Effect of tool pin profile on the mechanical and microstructural properties of dissimilar friction stir welded AA5083-H111 and AA6061-T6 aluminium alloys, K. Jayakumar, JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS, 2022, 1876-1062, https://www.tandfonline.com/doi/abs/10.1080/02533839.2022.2034054 .
51. Sustainable solution to low-cost alternative abrasive from electric ceramic insulator waste for use in abrasive water jet machining, K Rajkumar, International Journal of Advanced Manufacturing Technology,, 2022, 1433-3015, https://link.springer.com/article/10.1007/s00170-022-09077-4 .
52. Experimental and numerical investigation on phase change material filled reinforced cement concrete roof slab for mitigating the heat transfer, Karthick H, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2022, 1556-7230, https://www.tandfonline.com/doi/abs/10.1080/15567036.2022.2068700 .
53. Micro-hexagonal Profile Making on Alloy276 by Fiber Laser: Desirability Approach, Poovazhagan Lakshmanan, MATERIALS AND MANUFACTURING PROCESSES, 2022, 1532-2475, https://www.tandfonline.com/doi/abs/10.1080/10426914.2022.2072883?journalCode=lmmp20 .
54. Influencing behavior study of natural almond shell filler on the tensile, thermal, and free vibrational properties of flax fiber intertwined vinyl ester composites, K.Rajkumar, Journal of Natural Fibers, 2022, 1544-046X, https://www.tandfonline.com/doi/abs/10.1080/15440478.2022.2080787 .
55. Comparison of Internal friction measurements on Ni-Ti reinforced smart composites prepared by Additive Manufacturing, Santosh S, Journal of Alloys and Compounds, 2022, 1873-4669, https://www.sciencedirect.com/science/article/abs/pii/S0925838822024185
56. Mechanical and drilling characterization of biodegradable PLA particulate green composites, K. Jayakumar, Journal of the Chinese Institute of Engineers, 2022, 1876-1062, https://www.tandfonline.com/doi/abs/10.1080/02533839.2022.2061602 .

57. Influence of tool pin profiles in the strength enhancement of friction stir welded AA5083 and AA5754 alloys, P Naveen Kumar, Materials Research Express, 2022, 2053-1591, https://iopscience.iop.org/article/10.1088/2053-1591/ac5956/meta .
58. Examining the surface roughness and kerf quality of micro-slots cut on the surfaces of Ti-B4C nanocomposites by WEDM: a desirability approach, Vijaya Raja Ragavan G, Poovazhagan Lakshmanan, and Mariyappan Mahalingam, Mater. Res. Express , 2022, , https://doi.org/10.1088/2053-1591/acadd2.
59. Mechanical, Vibration and Visco-Elastic Behavior of Abelmoschus Esculentus Fiber Reinforced Epoxy Composite, B RAJESH KUMAR, M S ALPHIN, V SANTHANAM, V PALANIKUMAR, Materiale Plastice (Mater. Plast.), 2022, , https://doi.org/10.37358/MP.22.4.5626.
60. Neural intelligence and regression analysis in modeling and optimization of flank wear during turning of Monel K500, Krishna, N.M., Selvaraj, M., Kulandaivel, A., Kumar, S.L, Journal of Ceramic Processing Research, 2022, , https://doi.org/10.36410/jcpr.2022.23.5.656.
61. On the mechanical, microstructural, and corrosion properties of pulsed gas tungsten arc and friction stir welded RZ5 rare earth grade magnesium alloy, R Sasi Lakshmikhanth and AK Lakshminarayanan, Materials Research Express, 2022, , https://doi.org/10.1088/2053-1591/aca6c7.
62. Harnessing friction stir back extrusion process to fabricate microtubes from as-cast Mg-4Zn-0.7Zr-1.6RE magnesium alloy, Lakshminarayanan,A.K., Ramachandran, S., Bakkiyaraj, M., Rajabharathi, B., Surface Topography: Metrology and Properties, 2022, , doi.org/10.1088/2051-672X/ac5ae4.
63. Stress Corrosion Cracking Susceptibility of 316LN Grade Stainless Steel Weld Joint in Boiling Magnesium Chloride Hexahydrate Environment,, Rajasekaran, R., Lakshminarayanan, A.K., Vasudevan, M., Raja, P.V., Metals and Materials International, , 2022, , https://doi.org/10.1007/s12540-021-01162-9.
64. Examining the surface roughness and kerf quality of micro-slots cut on the surfaces of Ti-B4C nanocomposites by WEDM: a desirability approach, Vijaya Raja Ragavan G, Poovazhagan Lakshmanan, Mariyappan Mahalingam, Mater. Res. Express , 2022, , https://doi.org/10.1088/2053-1591/acadd2.
65. Application of Imaging Techniques to Determine the Post-Yield Behaviour of the Heterogeneous Microstructure of Friction Stir Welds, S. Ramachandran, A. K. Lakshminarayanan, P. A. S. Reed, J. M. Dulieu-Barton, Experimental Mechanics, 2021, 1741-2765, https://link.springer.com/article/10.1007/s11340-021-00722-9 .
66. Evaluation of the Mechanical and Electrical Properties of Spark Plasma Sintered Titanium Carbide Reinforced Alumina Ceramic Composite, G. Selvakumar, S. Ram Prakash, K. Rajkumar, Archives of Metallurgy and Materials, 2021, 1733-3490, https://www.proquest.com/openview/5307b50de0ab26de8271cfa542f4ad5e/1?pq-origsite=gscholar&cbl=2026345 .
67. Investigation of the effect of water absorption on thermomechanical and viscoelastic properties of flax-hemp-reinforced hybrid composite, Abir Saha, Santosh Kumar, Divya

Zindani, Polymer Composites, 2021, 1548-0569, https://onlinelibrary.wiley.com/doi/abs/10.1002/pc.26164 .

68. Infuence of Friction Stir Welding Parameters on Dissimilar Joints AA6061-T6 and AA5052-H32, S. Balamurugan, Dr. K. Jayakumar and Dr. K. Subbaiah, Arabian Journal for Science and Engineering, 2021, 2191-4281, https://link.springer.com/article/10.1007/s13369-021-05773-7#Abs1 .
69. Optimization of Process Control Parameters for WEDM of Al-LM25/Fly Ash/B4C Hybrid Composites Using Evolutionary Algorithms: A Comparative Study, Lenin N, Sivakumar M, Selvakumar G, Rajamani D, Sivalingam V, Gupta M K, Mikolajczyk T and Pimenov D Y, Metals, 2021, 2075-4701, https://www.mdpi.com/2075-4701/11/7/1105 .
70. Spark plasma processing of semi-conductive titanium carbide dispersed alumina composites, S. Ram Prakash, G. Selvakumar and K Rajkumar, Materials and Manufacturing Processes, 2021, 1532-2475, https://www.tandfonline.com/doi/abs/10.1080/10426914.2021.1944196 .
71. Tungsten inert gas welding of two aluminum alloys using filler rods containing scandium: the role of process parameters., S. Senthur Vaishnavan and Dr. K. Jayakumar,, Materials and Manufacturing Processes, 2021, 1532-2475, https://doi.org/10.1080/10426914.2021.1948055 .
72. Influence of CeO2 reinforcement on microstructure, mechanical and wear behaviour of AA2219 squeeze cast composites, A. Karthik , S.A. Srinivasan , R. Karunanithi , S.P. Kumaresh Babu , Vikram Kumar S. Jain, Journal of Materials Research and Technology, 2021, 2214-0697, https://doi.org/10.1016/j.jmrt.2021.06.056 .
73. Friction surfacing: A tool for surface crack repair, R. Damodaram, Pranav Rai, Cyril Joseph Daniel, Ranjit Bhauri, Devinder Yadav, Surface & Coating Technology, 2021, 0257-8972, https://www.sciencedirect.com/science/article/abs/pii/S0257897221006563 .
74. Micro groove cutting on the surfaces of Cu-B4C nanocomposites by fiber laser, Arun Arumugam, Poovazhagan Lakshmanan and Sarangapani Palani, Surface Topography: Metrology and Properties (IOP Publisher), 2021, 2051-672X, https://iopscience.iop.org/article/10.1088/2051-672X/ac1c7f/meta .
75. Effect of Recovered Silicon Filler Inclusion on Mechanical and Tribological Properties of Polytetrafluoroethylene (PTFE) Composite, K. Vishal, K. Rajkumar & P. Sabarinathan, Silicon, 2021, 1876-9918, https://link.springer.com/article/10.1007/s12633-021-01250-w
76. Experimental Investigations for Thermal Energy Management by Encapsulation of Nano - Enhanced Bio Phase Change Material in Buildings, Ashok V, Geetha N.B., Rajkumar S & Pauline T, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Taylor and Francis., 2021, 1556-7230, https://www.tandfonline.com/doi/full/10.1080/15567036.2021.1967517
77. Investigations on the influence of particle reinforcement and wire materials on the surface quality and machining characteristics of AA6061-TiB2 alloy in WEDM, K. Ramraji, K Rajkumar, G. Selvakumar and S. Ram Prakash, Surface Topography: Metrology and Properties, 2021, 2051-672X, https://iopscience.iop.org/article/10.1088/2051-672X/ac1f7c/meta .

78. Biomechanical Response of the Human Foot Model Exposed to Vibrations: A Finite Element Analysis, M. S. Alphin, J. Paul Chandra Kumar, and B. Jain A. R. Tony,, J. Biomater. Tissue Eng., 2021, 2157-9091, https://www.ingentaconnect.com/contentone/asp/jbte/2021/00000011/00000011/art00002
79. Process Parameters Effect Investigations on Viscosity of Water-ethylene Glycol-based α-alumina Nanofluids: An Ultrasonic Experimental and Statistical Approach, R. Prakash, L. Chilambarasan and K. Rajkumar, Arabian Journal for Science and Engineering, 2021, 2191-4281, https://link.springer.com/article/10.1007/s13369-021-05790-6 .
80. Effects of recovered brown alumina filler loading on mechanical, hygrothermal and thermal properties of glass fiber reinforced epoxy polymer composite, P. Sabarinathan, V.E. Annamalai, K. Rajkumar, K. Vishal, Polymers and Polymer Composites, 2021, 1478-2391, https://journals.sagepub.com/doi/full/10.1177/09673911211046780 .
81. High temperature impression creep behavior and microstructures of wrought ZM21 magnesium alloy, D Ebenezer, SR Koteswara Rao, S Vijayan, R Rajeswari, Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 1464-4207, https://journals.sagepub.com/doi/abs/10.1177/14644207211047699 .
82. Parametric investigation on surface roughness and hole quality of Ti metal hybrid fibers cored laminate (MFL) during abrasive water jet drilling, M.Rajesh, K. Rajkumar, K.Ramraji, Proc IMechE Part C: J Mechanical Engineering Science, 2021, 0954-4062, https://journals.sagepub.com/doi/abs/10.1177/09544062211046902 .
83. Validating the potential of centralized holes to enhance the compressive response of Mg-, Al-, Fe-Based commercial alloys, Vijayaraghavan Azhagiyamanavalan, Anirudh Venkatraman Krishnan, C. Y. H. Lim, Manoj Gupta, MRS Communications, 2021, 2159-6867, https://link.springer.com/article/10.1557/s43579-021-00122-z .
84. Enhancement of machining and surface quality of quaternary alloyed NiTiCuZr shape memory alloy through ultrasonic vibration coupled WEDM, C Balasubramaniyan , K Rajkumar and S Santosh, Proc IMechE Part L: J Materials: Design and Applications, 2021, 1464-4207, https://journals.sagepub.com/doi/abs/10.1177/14644207211058297 .
85. Numerical and experimental investigations on the effect of target thickness and solution treatment on the ballistic behaviour of AA7075 thick plates, R Praveen, S R Koteswara Rao, R Damodaram, S Suresh Kumar, Proceeding Institute of Mechanical Engineering Part C: Journal of Mechanical Engineering Science, 2021, 0954-4062, https://journals.sagepub.com/doi/abs/10.1177/09544062211038981?journalCode=picb .
86. Decisive influence of critical process parameters on the microstructure and tensile properties of friction stir back extruded magnesium alloy tubes, A.K. Lakshminarayanan, S. Ramachandran, B. Rajabharathi , W. Mirihanage, Journal of Manufacturing Processes, 2021, 2212-4616, https://www.sciencedirect.com/science/article/pii/S1526612521008112
87. Application of Imaging Techniques to Determine the Post-Yield Behaviour of the Heterogeneous Microstructure of Friction Stir Welds, S. Ramachandran · A. K. Lakshminarayanan · P. A. S. Reed · J. M. Dulieu-Barton, Experimental Mechanics, 2021, 1741-2765, https://link.springer.com/article/10.1007/s11340-021-00722-9 .

88. Decisive impact of Filler-free joining processes on the Microstructural evolution, tensile and impact properties of 9Cr-1Mo-V-Nb to 316 L(N) dissimilar joints, A Venkatakrishna, AK Lakshminarayanan , P Vasantharaja and M Vasudevan, Proc IMechE Part C: J Mechanical Engineering Science, 2021, 0954-4062, https://journals.sagepub.com/doi/abs/10.1177/09544062211029307 .
89. Ballistic performance of synergistically toughened Kevlar/epoxy composite targets reinforced with multiwalled carbon nanotubes/graphene nanofillers, Nitin MS, Suresh Kumar S., Polymer Composites, 2021, 1548-0569, https://onlinelibrary.wiley.com/doi/abs/10.1002/pc.26409 .
90. Friction surfacing: A tool for surface crack repair, R Damodaram, Pranav Rai, S Cyril Joseph Daniel, Ranjit Bauri, Devinder Yadav, Surface and Coatings Technology, 2021, 0257-8972, https://www.sciencedirect.com/science/article/abs/pii/S0257897221006563 .
91. Performance analysis of TIG welded dissimilar aluminium alloy with scandium added ER5356 filler rods, S. Senthur Vaishnavan and K. Jayakumar, JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS, 2021, 1876-1062, https://www.tandfonline.com/doi/abs/10.1080/02533839.2021.1940298?journalCode=tcie20
92. A critical review of recent advancements in continuous flow reactors and prominent integrated microreactors for biodiesel production, Gopi R, Vinoth Thangarasu, Angkayarkan Vinayakaselvi M, Anand Ramanathan, Renewable and Sustainable Energy Reviews, 2021, 1364-0321, https://www.sciencedirect.com/science/article/abs/pii/S1364032121011369 .
93. Effect of friction time on tensile strength and metallurgical properties of friction welded dissimilar aluminum alloy joints, M. Bakkiyaraj, A. K. Lakshminarayanan, S. Yuvaraj and P. K. Nagarajan, Materials Testing, 2021, 2195-8572, https://www.degruyter.com/document/doi/10.1515/mt-2021-0049/pdf .
94. Influence of Plasma Electrolytic Oxidation coating on Corrosion Characteristics of Friction Stir Welded ZE41 Rare earth Magnesium Alloy, N. Sivashanmugam, KL. Harikrishna, S. R. Koteswara Rao, N. Rameshbabu, P. Manojkumar, Surface Topography - Metrology and Properties, 2021, 2051-672X, https://iopscience.iop.org/article/10.1088/2051-672X/ac4343 .
95. Hot deformation characteristics of NiTiV shape memory alloy and modeling using constitutive equations and artificial neural networks, Santosh. S, Sampath. V, Mouliswar .R. R, Journal of Alloys and Compounds, 2021, 1873-4669, https://www.sciencedirect.com/science/article/abs/pii/S0925838821048611 .
96. Fiber laser microcutting on duplex steel: parameter optimization by TOPSIS, C Gopinath, Poovazhagan Lakshmanan, and Sarangapani Palani, MATERIALS AND MANUFACTURING PROCESSES, 2021, 1532-2475, https://www.tandfonline.com/doi/abs/10.1080/10426914.2021.1981939?journalCode=lmmp20 .