

Journal Publication

Publication in Journals (1st July 2025 to 30 Marh 2026)*

S. No	Title of the paper	Name of the Authors & Affiliation as per the order in paper (Highlight the KPR Authors name)	Name of the Journal	Volume No., Issue No. & Page No.	Indexed in Scopus/SCI/SCIE/WoS	Impact factor & Quartile	Online Link of the Paper (by clicking this link, paper should opened in online)
1	Optimisation of coconut shell particles reinforced Al-7075 aluminum composites with B₄C and ZrO₂ using CRITIC-EDAS for tribological performance	B Silambarasan, Sir Issac Newton College of Engineering and Technology, Nagapattinam Gokulkumar Sivanantham, Tabrej Khan, Tamer A Sebaey	Canadian Metallurgical Quarterly	https://doi.org/10.1080/00084433.2025.2518350 June 2025	SCI	Q2	https://www.tandfonline.com/doi/abs/10.1080/00084433.2025.2518350
2	Evaluation of Microstructure, and Mechanical Properties of Superalloy 59 and 904L Dissimilar welds using Hot Wire Turbo TIG	N Muthukumaran, B Arulmurugan, R Sureshkumar, , Sri Eshwar College of Engineering, Coimbatore, R Bharathikanna, Nehru Institute of Technology, Coimbatore	Archives of Metallurgy and Materials	70 (2025), 2, 803-817	SCI	Q3	https://journals.pan.pl/Content/135583/AMM-2025-2-31-Muthukumaran.pdf?handler=pdf
3	Role of shielding gas in tailoring microstructure and anisotropy in wire arc additive manufactured Inconel 686	S Ajithkumar, B Arulmurugan, M Manikandan, VIT University, M Sathishkumar, Amrita Vishwa Vidyapeetham, Chennai,	Scientific Reports	https://doi.org/10.1038/s41598-025-08197-7	SCI	Q1	https://www.nature.com/articles/s41598-025-08197-7.pdf

4	Evaluation of Metallurgical and Mechanical Properties in Dissimilar Welding of Monel 400 and Hastelloy C-2000 Using Single and Double Pulse Gas Metal Arc Welding Techniques	Arulmurugan B. and Manikandan M. Kannan T	Journal of Adhesion Science and Technology	https://doi.org/10.1080/01694243.2025.2522185	SCI	Q1	https://www.tandfonline.com/doi/full/10.1080/01694243.2025.2522185?src=exp-la
5	Valorization of agricultural waste in jute-PLA biocomposites: performance analysis of pistachio shell, tea leaf, and quail eggshell fillers	Karthik Karunanidhi, Mohanraj Manoharan & Gokulkumar Sivanantham	Journal of Material Cycles and Waste Management	10.1007/s10163-025-02361-x	SCI	Q2	https://link.springer.com/article/10.1007/s10163-025-02361-x
6	Additive Manufacturing of Ti-6 Al-4 V Alloys: Fabrication Techniques and Material Properties—Review	T. Balasubramani · N. Mathan Kumar · J. Ronald Aseer · N. M. Sivaram	Transactions of Indian Institute of Metals	Trans Indian Inst Met (2025) 78:200 https://doi.org/10.1007/s12666-025-03625-8	SCI	Q2	https://link.springer.com/article/10.1007/s12666-025-03625-8
7	Banana Peel Waste as a Source of Cellulosic Filler: Isolation, Characterization, and Its Potential as a Green Reinforcement in Polymer Composites	Indran Suyambulingam1**, Gokulkumar Sivanantham2**, Divya Divakaran3, Nadir Ayrilmis4*, Suganya Priyadharshini G5, P. Senthamarai Kannan1, Yamuna Munusamy6	Journal of Material Cycles and Waste Management	https://doi.org/10.1007/s10163-025-02374-6	SCI	Q2	https://link.springer.com/article/10.1007/s10163-025-02374-6
8	A review on the Effect of Fiber treatment and fillers on mechanical properties of Kenaf Fiber-reinforced composites	M.Makeshkumar, M.Sasi Kumar, A. Felix Sahayaraj, S.Gokulkumar & Jenish I	International Polymer Processing	https://doi.org/10.1515/ipp-2025-0006	SCI	Q2	https://www.degruyterbrill.com/document/doi/10.1515/ipp-2025-0006/html

9	Nano-reinforcement and Synthesis of Al 8090-based Hybrid Composites with B4C and Coconut Shell Charcoal for Enhanced Tribological Performance	B. Silambarasan1*, Sugavanam Janakiraman2, Rajabharathi Balavadivel2 and Gokulkumar Sivanantham3	Journal of Environmental Nano Technology	https://doi.org/10.13074/jent.2025.09.2531602	Scopus	Q4	https://nanoient.org/journals/index.php/jent/article/view/2313
10	Optimization of Tribo-Mechanical Properties of Kenaf/Jute-SiC Hybrid Composites Using Integrated Grey-Fuzzy Approach	M Aravindh; Barik Debabrata; Faisal Rasan Sarbast ; M Makeshkumar; Dennison Milon Selvam; Praveenkumar Seepana ; Rajendran Saravanan	Scientific Reports	https://doi.org/10.1038/s41598-025-20268-3	SCI	Q1	https://www.nature.com/articles/s41598-025-20268-3
11	Comparative analysis of Nano-CPH Reinforced brake pad composites: Mechanical, Tribological and Morphological investigations	M.Sathesh babu, K.Saravanan, U.Vivek and S.N.Dinesh	Journal of Environmental Nano technology	https://doi.org/10.13074/jent.2025.09.2531692	Scopus	Q4	https://nanoient.org/journals/index.php/jent/article/view/2416
12	Improvement in Ballistic properties of Heat Affected Zone in AA5754 Friction Stir Welded Joints	V. Manoj Mohan Prasath Saurabh S. Kumar	Journal of Adhesion Science and Technology TAST	https://doi.org/10.1080/01694243.2025.2584483	SCI	Q1	https://www.tandfonline.com/doi/full/10.1080/01694243.2025.2584483
	Enhancing mechanical and morphological properties of PLA composites reinforced with Curcuma longa extraction residue via fused deposition modelling	Ganesh Nataraj, A.P.Senthil kumar	Sage Journals	https://doi.org/10.1177/09544062251381476	SCI	Q1	https://journals.sagepub.com/doi/10.1177/09544062251381476?int.sj-full-text.similar-articles.4
13	Investigation of microstructure, residual stresses, and mechanical behavior of Inconel 59 and AISI 904L fusion joint	Muthukumaran N, B Arulmurugan, M Manikandan, VIT University,	Sage- Part B- Journal of Engineering	https://doi.org/10.1177/09544054251383802	SCI	Q3	https://journals.sagepub.com/doi/abs/10.1177/09544054251383802

	using single pulse GMAW with post-weld cryogenic treatment		Manufacture.				
14	Microstructural and Tribological Analysis of Additively Manufactured Ti-6Al-4 V under Lubrication	T. Balasubramani, N.M. Sivaram, J. Ronald Aseer, N. Mathan Kumar	Journal of Materials Engineering and Performance, Springer	https://doi.org/10.1002/9781394365371.ch6	SCI	Q2	https://onlinelibrary.wiley.com/doi/abs/10.1002/9781394365371.ch6
15	Experimental Study of Lubricating Wear Phenomena in Ag-Mg Alloys Systems	N.Mathan Kumar, M.Venkatasudhahar, S.Muthukumar, N.Mathan Kumar, P.Manojkumar, Mohamed Al Awadh, Parvathy Rajendran	Scientific Reports	DOI: 10.2139/ssrn.491022	SCI	Q1	https://www.researchgate.net/publication/382720128_Understanding_Lubricating_Wear_Phenomena_in_Ag-Mg_Alloy_Systems_An_Experimental_Study
16	Extension of the Rusinek–Klepaczko Model for Materials with Saturated or Moderate Strain Hardening: Application to 2024 Aluminum Alloy	A. Rusinek T. Jankowiak	Journal of Dynamic Behavior of Materials	https://doi.org/10.1007/s40870-025-00503-8	SCI	Q2	https://link.springer.com/article/10.1007/s40870-025-00503-8#change-history
	Artificial Intelligence in Wire Arc Additive Manufacturing: A Systematic Review and Patent Landscape Analysis	Ajithkumar Sitharaj, Sri Shakthi Engg., College, Arulmurugan Balasubramanian, Rajkumar Sivanraju, Hawassa University, Ethiopia	Engineering Reports	https://doi.org/10.1002/eng2.70518	SCI	Q2	https://onlinelibrary.wiley.com/doi/full/10.1002/eng2.70518
17	Corrosion behaviour and mechanical properties of Ag-20Mg alloy in chloride environments: an electrochemical and surface analysis study	Aravind Veerappan, Pushparaj Thomai, Gokulkumar Sivanantham, Mathan Kumar Nagarajan	Canadian Metallurgical Quarterly	https://doi.org/10.1080/00084433.2025.2610575	SCI	Q2	https://www.tandfonline.com/doi/abs/10.1080/00084433.2025.2610575

18	Mechanical and interfacial performance of Curaua fiber/epoxy composites: a comparative study of biochar and alkaline microfillers of chestnut via PSI-VIKOR approach	S Dinesh, L Prabhu, S Gokulkumar, P Manoj Kumar	Journal of Polymer Research	https://doi.org/10.1007/s10965-025-04731-3	SCI	Q2	https://link.springer.com/article/10.1007/s10965-025-04731-3
19	Synthesis and dual functional assessment of POT/ZnO composite for photocatalytic and energy storage applications	V Gayathri, M Gowtham, S Gokulkumar	Journal of the Indian Chemical Society	https://doi.org/10.1016/j.jics.2025.102224	SCI	Q2	https://www.sciencedirect.com/science/article/pii/S0019452225006594
20	The Convergence of AI and Composites – A Review Anchored in Patent Trends	B Silambarasan, N R Gayathiri, C Thirumaraiselvi, Mahendra Boopathi. M, P Hariprasad, S Gokulkumar	Journal of Polymer & Composites	https://doi.org/10.37591/JOPC.v13i06.232799	WoS	NA	https://journals.stmjournals.com/jopc/article=2025/view=232799/
21	Performance Enhancement of PLA Hybrid Biocomposites Using Flax Fiber and Agricultural Waste Biofillers: A Comparative Study with Jute-Based Systems Supported by Fuzzy CRITIC–COPRAS Analysis	Karthik Karunanidhi, Mohanraj Manoharan, Gokulkumar Sivanantham and Ravikumar Sadayan Mottaiyan	Polymers	https://doi.org/10.3390/polym18040439	SCI	Q1	https://www.mdpi.com/2073-4360/18/4/439
22	Chemical and structural characterization of ramie-based epoxy composites reinforced with macadamia nut shell biochar	Murugesan Palaniappan, P. Manoj Kumar, Gokulkumar Sivanantham & Dawit Tafesse Gebreyohannes	Scientific Reports	https://doi.org/10.1038/s41598-026-39764-1	SCI	Q1	https://www.nature.com/articles/s41598-026-39764-1

23	Multi criteria optimization of FDM process parameters for NylonAF80 filaments using CRITIC CoCoSo and machine learning approaches	Murugesan Palaniappan, P. Manoj Kumar, Gokulkumar Sivanantham & Dawit Tafesse Gebreyohannes	Scientific Reports	https://doi.org/10.1038/s41598-026-38122-5	SCI	Q1	https://www.nature.com/articles/s41598-026-38122-5
24	A sustainable solution to the selection of thermal energy storage materials for concentrated solar power applications and predicted suitable machine learning algorithm	Arun kumar P, B. Arulmurugan B, KPRIET, M.Manikandan, VIT University, Vellore	Journal of Materials Research and Technology	https://doi.org/10.1016/j.jmrt.2026.02.124	SCI	Q1	https://www.sciencedirect.com/science/article/pii/S2238785426003741
25	The impact of silver–zinc coated catalytic converters on compression ignition engine emissions with Mg-doped ZnO nano-additives in diesel–fish oil fuel blends: An experimental analysis	Ramesh Babu S, KPRIET	Environmental Progress & Sustainable Energy	https://doi.org/10.1002/ep.70365	SCI	Q2	
26	Mechanical characterization of PETG–carbon fiber composite parts using 3D printing for drone frame application	Palaniappan, M., Imam Mohammad Ibn Saud Islamic Saudi Arabia, Kumar, P.M.Kangayam Institute of Technology, Kangayam, Arunkumar, P. and Gebreyohannes, , Hawassa University, Hawassa, Ethiopia	Scientific Reports	https://doi.org/10.1038/s41598-026-38051-3	SCI	Q1	https://www.nature.com/articles/s41598-026-38051-3
	Biomimetic and Bioinspired Materials: Design Strategies, Mechanical Properties, and Engineering Applications—A Review	Manickaraj Karuppusamy, Sivasubramanian Palanisamy, Mahesh Gurusamy, Vijaya Prakash Manivannan Jayamani, Subramanian Lakshmi Sankar, Karthikayan	Global Challenges	https://doi.org/10.1002/gch2.70101 Digital Object Identifier (DOI)	SCI	Q1	https://onlinelibrary.wiley.com/doi/full/10.1002/gch2.70101

		Sundararajan, Gokulkumar Sivanantham,					
27	Optimisation of coconut shell particles reinforced Al-7075 aluminum composites with B4C and ZrO2 using CRITIC-EDAS for tribological performance	B Silambarasan, Sir Issac Newton College of Engineering and Technology, Nagapattinam Gokulkumar Sivanantham, Tabrej Khan, Tamer A Sebaey	Canadian Metallurgical Quarterly	https://doi.org/10.1080/00084433.2025.2518350 June 2025	SCI	Q2	https://www.tandfonline.com/doi/abs/10.1080/00084433.2025.2518350
28	Evaluation of Microstructure, and Mechanical Properties of Superalloy 59 and 904L Dissimilar welds using Hot Wire Turbo TIG	N Muthukumaran, B Arulmurugan, R Sureshkumar, Sri Eshwar College of Engineering, R Bharathikanna, Nehru Institute of Technology, Coimbatore	Archives of Metallurgy and Materials	70 (2025), 2, 803-817	SCI	Q3	https://journals.pan.pl/Content/135583/AMM-2025-2-31-Muthukumaran.pdf?handler=pdf
29	Role of shielding gas in tailoring microstructure and anisotropy in wire arc additive manufactured Inconel 686	S Ajithkumar, B Arulmurugan, M Manikandan, VIT University, M Sathishkumar, Amrita Vishwa Vidyapeetham, Chennai,	Scientific Reports	https://doi.org/10.1038/s41598-025-08197-7	SCI	Q1	https://www.nature.com/articles/s41598-025-08197-7.pdf



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