

## Journal Publication 2024-2025

| 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 | Quartiles (Q1 / Q2/ Q3 / Q4 | Online Link of the paper (by clicking this link, paper should opened in online)                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Study of Emission Characteristics on a CI Engine Using a Cost-effective Cu-Zn-coated Catalytic Converter             | <b>S. Ramesh Babu</b> , N. Udhayakumar, S. Deepak, K. Sivaganesh, L. Senthil, D. Sudharsan and P. Anilkumar, KPRIET                             | Journal of Environmental Nanotechnology    | <a href="https://doi.org/10.13074/jent.2024.06.242553">https://doi.org/10.13074/jent.2024.06.242553</a>                                                       | SCI                               | Q1                          | <a href="https://nanoient.org/journals/index.php/jent/article/view/1055">https://nanoient.org/journals/index.php/jent/article/view/1055</a>                   |
| 2    | Fatigue crack growth study on rolled and cryogenically treated AZ31B Mg alloy plate                                  | Karthick Ganesan (SSN College of Engineering), <b>Dharani Kumar Selvan</b> (KPRIET), Ganesan Somasundaram Marimuthu (CSIR)                      | Theoretical and Applied Fracture Mechanics | <a href="https://www.sciencedirect.com/science/article/abs/pii/S0167844224002799">https://www.sciencedirect.com/science/article/abs/pii/S0167844224002799</a> | SCI                               | Q1                          | <a href="https://www.sciencedirect.com/science/article/abs/pii/S0167844224002799">https://www.sciencedirect.com/science/article/abs/pii/S0167844224002799</a> |
| 3    | Advancements in chemical modifications using NaOH to explore the chemical, mechanical and thermal properties of NFPC | <b>Gokulkumar S</b> , Sasi Kumar Mani (KIT), Felix Sahayaraj Arockiasamy (KIT), Jenish Iyyadurai (eenu Atoll School), Makeshkumar Mani (KPRIET) | International Polymer Processing           | <a href="https://doi.org/10.1515/ipp-2024-0002">https://doi.org/10.1515/ipp-2024-0002</a>                                                                     | SCI                               | Q3                          | <a href="https://www.degruyter.com/document/doi/10.1515/ipp-2024-0002/html">https://www.degruyter.com/document/doi/10.1515/ipp-2024-0002/html</a>             |

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| 4    | Mechanical and ballistic studies of boron carbide filler reinforced glass fiber composites                                          | U Magarajan (Sri Venkateswara College of Engineering), Saurabh S Kumar ( National Forensic Sciences University),<br><b>Dharani Kumar S,</b> Loganathan Prabhu (KPRIET) | Polymer composites                                                 | <a href="https://doi.org/10.1002/pc.28813">https://doi.org/10.1002/pc.28813</a>                                                                                                                                     | SCI                               | Q1                           | <a href="https://4spepublications.onlinelibrary.wiley.com/doi/10.1002/pc.28813">https://4spepublications.onlinelibrary.wiley.com/doi/10.1002/pc.28813</a>                                           |
| 5    | Study on a Solar Water Heater Performance Under The Influence Of Nanofluid                                                          | <b>P. MANOJ KUMAR</b> (KPRIET), M. RAJESWARI (Karunya), P. T. SARAVANAKUMAR(H CET) , SP. ARUNKUMAR (NIET), P. Michael Joseph STALIN (ACET)                             | EMERG (Energy. Environment. Efficiency. Resources. Globalization ) | <a href="https://emerg.ro/files/study-on-a-solar-water-heater-performance-under-the-influence-of-nanofluid/">https://emerg.ro/files/study-on-a-solar-water-heater-performance-under-the-influence-of-nanofluid/</a> | Scopus                            | NA                           | <a href="https://emerg.ro/files/study-on-a-solar-water-heater-performance-under-the-influence-of-nanofluid/">STUDY ON A SOLAR WATER HEATER PERFORMANCE UNDER THE INFLUENCE OF NANOFLUID - EMERG</a> |
| 6    | Microstructural analysis and mechanical characterization of dissimilar welds between nickel-based and steel-based superalloys post- | <b>B.Arulmurugan,</b> Mr.N.Muthukumaran (KPRIET)                                                                                                                       | Journal of Adhesion Science and Technology                         | <a href="https://doi.org/10.1080/01694243.2024.2388831">https://doi.org/10.1080/01694243.2024.2388831</a>                                                                                                           | SCI                               | Q2                           | <a href="https://www.tandfonline.com/doi/full/10.1080/01694243.2024.2388831?af=R">https://www.tandfonline.com/doi/full/10.1080/01694243.2024.2388831?af=R</a>                                       |

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|      | cryogenic treatment using hotwire GTAW                                                                                              |                                                                                               |                                           |                                                                                                     |                                   |                              |                                                                                                                                                                                                                                                                                                                                             |
| 7    | Mahua oil cake microcellulose as a performance enhancer in flax fiber composites: Mechanical strength and sound absorption analysis | Sathesh Babu M, Ramamoorthi R, <b>Gokulkumar S</b> , Manickaraj K                             | Polymer composites                        | <a href="https://doi.org/10.1002/pc.29100">https://doi.org/10.1002/pc.29100</a>                     | SCI                               | Q1                           | <a href="https://4spepublications.onlinelibrary.wiley.com/doi/10.1002/pc.29100">https://4spepublications.onlinelibrary.wiley.com/doi/10.1002/pc.29100</a>                                                                                                                                                                                   |
| 8    | Investigation of CI engine with Mg based zinc oxide nano additives in fish oil biodiesel blends                                     | Dr.S.Ramesh Babu & <b>N.Udhaya kumar</b> (KPRIET)                                             | Journal of Thermal Energy and Calorimetry | <a href="https://doi.org/10.1007/s10973-024-13538-1">https://doi.org/10.1007/s10973-024-13538-1</a> | SCI                               | Q2                           | <a href="https://link.springer.com/article/10.1007/s10973-024-13538-1#:~:text=An%20investigation%20revealed%20that%20adding,conductivity%20of%20the%20nano%2Dadditives.">https://link.springer.com/article/10.1007/s10973-024-13538-1#:~:text=An%20investigation%20revealed%20that%20adding,conductivity%20of%20the%20nano%2Dadditives.</a> |
| 9    | Multi-criteria decision-making and artificial bee colony algorithm for optimization of process                                      | S. Paulsingarayar,R. Suresh Kumar,S. Joseph Dominic Vijayakumar,N. <b>Mathan Kumar</b>        | Desalination and Water Treatment          | <a href="https://doi.org/10.1016/j.dwt.2024.100543">https://doi.org/10.1016/j.dwt.2024.100543</a>   | SCI                               | Q3                           | <a href="#">Multi-criteria decision-making and artificial bee colony algorithm for optimization</a>                                                                                                                                                                                                                                         |

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|      | parameters in pyramid solar still                                                                                                                                     |                                                                                                                   |                              |                                                                                                     |                                   |                               | <a href="#">of process parameters in pyramid solar still - ScienceDirect</a>                                                            |
| 10   | Investigating the Mechanical and Tribological Effects of MoS2 Reinforcement in AZ91 Magnesium Alloy: A Comprehensive Experimental Study                               | Nachimuthu Somasundaram (MCT), Gokulkumar Sivanantham(KPRIET), Gurupranes Sivaraj Vijaya, <b>Karthi Nadarajan</b> | Qeios                        | <a href="https://doi.org/10.32388/R3S21J">https://doi.org/10.32388/R3S21J</a>                       | Scopus                            | NA                            | <a href="https://www.qeios.com/read/R3S21J#reviews">https://www.qeios.com/read/R3S21J#reviews</a>                                       |
| 11   | Microstructure and mechanical properties of Inconel 686 fabricated by gas metal arc welding-based wire arc directed energy deposition: impact of cryogenic treatments | <b>B.Arulmurugan,</b> Mr.S.Ajith kumar (KPRIET)                                                                   | Journal of Materials Science | <a href="https://doi.org/10.1007/s10853-024-10295-2">https://doi.org/10.1007/s10853-024-10295-2</a> | SCI                               | Q1                            | <a href="https://link.springer.com/article/10.1007/s10853-024-10295-2">https://link.springer.com/article/10.1007/s10853-024-10295-2</a> |
| 12   | Optimizing Performance of a Solar Flat Plate Collector for Sustainable                                                                                                | Ramesh Chitharaj, Hariprasad Perumal, Mohammed Almeshaal and P. Manoj Kumar*                                      | Sustainability               | <a href="https://doi.org/10.3390/su17020461">https://doi.org/10.3390/su17020461</a>                 | SCI                               | Q1                            | <a href="https://www.mdpi.com/2071-1050/17/2/461">https://www.mdpi.com/2071-1050/17/2/461</a>                                           |

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|------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Operation Using Box–Behnken Design (BBD)                                                                                   |                                                                                                                                                        |                                                                          |                                                                                                   |                                   |                              |                                                                                                                                                                                     |
| 13   | Performance analysis of photovoltaic module using eutectic phase change material                                           | <b>B.Lalitha</b> ,K.Lakshmi, A.Karthick, P.Manoj Kumar, KPRIET                                                                                         | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects | <a href="https://doi.org/10.1080/15567036.2024.2417773">10.1080/15567036.2024.2417773</a>         | SCI                               | Q1                           | <a href="https://www.tandfonline.com/doi/epdf/10.1080/15567036.2024.2417773?needAccess=true">https://www.tandfonline.com/doi/epdf/10.1080/15567036.2024.2417773?needAccess=true</a> |
| 14   | Investigations on Solar PV for improving its efficiency through thermal management                                         | S Muthukumar; S.P. Gowtham; N. Harikannan; P.T. Saravanakumar; M. Venkatasudhahar; P. Manoj Kumar                                                      | IEEE Explore                                                             | <a href="https://doi.org/10.1109/ICOCSE61587.2024.10722651">10.1109/ICOCSE61587.2024.10722651</a> | Scopus                            | NA                           | <a href="https://ieeexplore.ieee.org/document/10722651/metrics#metrics">https://ieeexplore.ieee.org/document/10722651/metrics#metrics</a>                                           |
| 15   | Experimental Research on Dissimilar Steel Composite Structure Developed by Wire Arc-DED Process: A Tribological Assessment | Dr.Lenin Singaravelu, NIT Trichy, Dr.K.Ravikumar, Prof & Head, Karpagam College of Engineering, Mr.P. Mariaraj Manoj, KPRIET, Dr.M.Kumar & AsP, KPRIET | Part E: Journal of Process Mechanical Engineering                        | <a href="https://doi.org/10.1177/09544089241299953">https://doi.org/10.1177/09544089241299953</a> | SCI                               | Q2                           | <a href="https://journals.sagepub.com/doi/10.1177/09544089241299953">https://journals.sagepub.com/doi/10.1177/09544089241299953</a>                                                 |

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|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 16   | Investigation of Single and Double Pulse Techniques on Microstructure and Mechanical Anisotropy of Inconel 686 Component Fabricated by Wire Arc Directed Energy Deposition | S Ajithkumar, B Arulmurugan & KPRIET                                                                                                                        | Metals and Materials International         | <a href="https://doi.org/10.1007/s12540-024-01843-1">https://doi.org/10.1007/s12540-024-01843-1</a>       | SCI                               | Q1                           | <a href="https://link.springer.com/article/10.1007/s12540-024-01843-1">https://link.springer.com/article/10.1007/s12540-024-01843-1</a> |
| 17   | Effects of multi-objective optimization of friction stir welding process parameter on mechanical and ballistic properties of AA5754 aluminum alloy                         | Dharani Kumar.S, V. Manoj Mohan Prasath KPRIET, N. Mohammed Raffic Department of Aeronautical Engineering, Nehru Institute of Technology, Coimbatore, India | Journal of Adhesion Science and Technology | <a href="https://doi.org/10.1080/01694243.2024.2432392">https://doi.org/10.1080/01694243.2024.2432392</a> | SCI                               | Q2                           | <a href="https://doi.org/10.1080/01694243.2024.2432392">https://doi.org/10.1080/01694243.2024.2432392</a>                               |
| 18   | Enhancing Mechanical Properties of PLA-Based Bio composite Filament Reinforced with Horse Gram Filler for 3D Printing Applications                                         | Dr.S.Ramesh Babu, Mr.Ganesh KPRIET                                                                                                                          | Journal of Vinyl and Additive Technology   | -                                                                                                         | SCI                               | Q1                           |                                                                                                                                         |

# Department of Mechanical Engineering

KPR Institute of Engineering and Technology

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|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19   | Effect of infill pattern on mechanical properties of 3D printed PLA-Zn composites for drone frame structures: A topology optimization integrated application study | P. Arunkumar (KPRIET), D.Balaji (KPRIET), N. Radhika (Amrita vishwa vidyapeetham), L. Rajeshkumar (Alliance University), M.R.Sanjay & Suchart Siengchin (King Mongkut's University) | Results in Engineering | <a href="https://doi.org/10.1016/j.rineng.2025.104107">https://doi.org/10.1016/j.rineng.2025.104107</a> | SCI                               | Q1                           |                                                                                                                                                               |
| 20   | investigation on mechanical and metallurgical characterization of micro-alloyed steel produced by friction stir welding (FSW)                                      | N. Mathan Kumar,KPRIET, Sakthi Rajan C,N. Mathan Kumar,KPRIET,Vetrivel kumar K,SDSCET,,Kannan S, RVSETGI,D,Soundararajan S, SKCE                                                    | SAE Technical Papers   | <a href="https://doi.org/10.4271/2024-01-5203">https://doi.org/10.4271/2024-01-5203</a>                 | Scopus                            | NA                           | <a href="https://www.sae.org/publications/technical-papers/content/2024-01-5203/">https://www.sae.org/publications/technical-papers/content/2024-01-5203/</a> |
| 21   | Investigating Mechanical Performance of Load Vehicle Brake Liners Enhanced With Nanomaterials Using Finite Element Analysis                                        | N. Mathan Kumar,KPRIET,Thillikka ni S,ACET,Kannan S, RVSETGI,Soundararajan S,SKCE,Kundan Bharti, ThakurCET.                                                                         | SAE Technical Papers   | <a href="https://doi.org/10.4271/2024-01-5210">https://doi.org/10.4271/2024-01-5210</a>                 | Scopus                            | NA                           | <a href="https://www.sae.org/publications/technical-papers/content/2024-01-5210/">https://www.sae.org/publications/technical-papers/content/2024-01-5210/</a> |

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|------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22   | Mechanical and ballistic performance of individual and synergistic filler reinforced glass fiber epoxy composites                        | Dharani Kumar.S, KPRIET., U Magarajan (Sri Venkateswara College of Engineering), Saurabh S Kumar ( National Forensic Sciences University), Mr.N.Muthukumaran | Polymer composites                                       | <a href="https://doi.org/10.1002/pc.29449">https://doi.org/10.1002/pc.29449</a>                   | SCI                               | Q1                           | <a href="https://4spepublications.onlinelibrary.wiley.com/doi/abs/10.1002/pc.29449">https://4spepublications.onlinelibrary.wiley.com/doi/abs/10.1002/pc.29449</a> |
| 23   | Investigation on Geometric, Dimensional Accuracy and Surface Roughness for 3D Printed Parts via Fused Deposition Modelling (FDM) process | Dr.M.Kumar & AsP, KPRIET, Jayakumar N, Senthilkumar G, BIT                                                                                                   | Part E: Journal of Process Mechanical Engineering        | <a href="https://doi.org/10.1177/09544089241312637">https://doi.org/10.1177/09544089241312637</a> | SCI                               | Q2                           | <a href="https://journals.sagepub.com/doi/10.1177/09544089241312637">https://journals.sagepub.com/doi/10.1177/09544089241312637</a>                               |
| 24   | Experimental Investigation of Low-Cycle Corrosion Fatigue Behavior of AA5059 Aluminum Alloy in Air and 3.5% NaCl Solution Environments   | Dharani Kumar.S, KPRIET. ,Karthick Ganesan (SSN college of Engineering) , V Manoj Mohan Prasath (KPRIET)                                                     | Fatigue & Fracture of Engineering Materials & Structures | <a href="https://doi.org/10.1111/ffe.14558">https://doi.org/10.1111/ffe.14558</a>                 | SCI                               | Q1                           | <a href="https://onlinelibrary.wiley.com/doi/abs/10.1111/ffe.14558">https://onlinelibrary.wiley.com/doi/abs/10.1111/ffe.14558</a>                                 |

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|------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25   | On search of optimal FDM parameter settings for reduced dimensional error using entropy-PCA-TOPSIS and regression machine learning techniques | Dharani Kumar.S,<br>KPRIET.N Mohammed Raffic,<br>Nehru Institute of Technology<br>K Ganesh Babu<br>Chendhuran College of Engineering and Technology<br>BK Parrthipan<br>Kamaraj College of Engineering and Technology | Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications | <a href="https://doi.org/10.1177/14644207241312082">https://doi.org/10.1177/14644207241312082</a>         | SCI                               | Q2                           | <a href="https://journals.sagepub.com/doi/abs/10.1177/14644207241312082">https://journals.sagepub.com/doi/abs/10.1177/14644207241312082</a>           |
| 26   | Cryo-Laser Synergy: Enhancing Metallurgical and Mechanical Excellence in Inconel 59-AISI 904L Joints                                          | Arulmurugan & Muthukumaran, KPRIET,<br>Dr.M.Manikandan, VIT, Vellore                                                                                                                                                  | Heliyon                                                                                                       | <a href="https://doi.org/10.1016/j.heliyon.2025.e42149">https://doi.org/10.1016/j.heliyon.2025.e42149</a> | SCI                               | Q1                           | <a href="https://www.sciencedirect.com/science/article/pii/S2405844025005298">https://www.sciencedirect.com/science/article/pii/S2405844025005298</a> |

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|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27   | Mechanical Behaviour and Low Cycle Fatigue Performance of Plasma Sprayed ZrO <sub>2</sub> Coated Al-7075-T6 Alloy Under Subzero Temperature Condition                                                                                      | S.Dharanikumar, KPRIET, Karthick Ganesan (SSN college of Engineering) , M Madhu, G Archana<br>Welding Research Institute, Bharat Heavy Electricals Limited, Tiruchirappalli 620014, India | Journal of Alloys and Compounds | <a href="https://doi.org/10.1016/j.jallcom.2025.178950">https://doi.org/10.1016/j.jallcom.2025.178950</a> | SCI                               | Q1                           | <a href="https://www.sciencedirect.com/science/article/abs/pii/S092583882505080">https://www.sciencedirect.com/science/article/abs/pii/S092583882505080</a> |
| 28   | A Comprehensive Study of Microstructure and Mechanical Properties in Friction Stir Welded A Comprehensive Study of Microstructure and Mechanical Properties in Friction Stir Welded AA 2024 and Nano particle Reinforced Hybrid Composites | N. Mathan Kumar<br>R.Suresh Kumar<br>Kundan Bharti<br>P. V. Nandhakumar<br>M.Yuvaperiyasamy                                                                                               | Turkish Journal of Engineering  | <a href="https://doi.org/10.31127/tuje.1572285">https://doi.org/10.31127/tuje.1572285</a>                 | SCI                               | Q2                           | <a href="https://dergipark.org.tr/en/pub/tuje/issue/90081/1572285">https://dergipark.org.tr/en/pub/tuje/issue/90081/1572285</a>                             |

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| 29   | Isolation and Characterization of Microcrystalline Cellulose from Rice Stalk Agro-Waste and Its Application in Enhancing Inherent Properties of PBAT Biofilm | Gokulkumar Sivanantham, Divya Divakaran, Indran Suyambulingam, G Suganya Priyadharshini, Yamuna Munusamy, Adhigan Murali, Sung Soo Han | Process Safety and Environmental Protection | <a href="https://doi.org/10.1016/j.psep.2025.106864">https://doi.org/10.1016/j.psep.2025.106864</a> | SCI                               | Q1                           | <a href="https://www.sciencedirect.com/science/article/abs/pii/S095758202501314">https://www.sciencedirect.com/science/article/abs/pii/S095758202501314</a>                                                                                                                                                     |
| 30   | Pistachio shell biochar as a reinforcing filler in short Turkish hemp fiber composites: a path toward sustainable materials                                  | Mahesh Gurusamy, Ramakrishnan Thirumalaisamy, Manickaraj Karuppusamy & Gokulkumar Sivanantham                                          | Journal of Polymer Research                 | <a href="https://doi.org/10.1007/s10965-025-04338-8">https://doi.org/10.1007/s10965-025-04338-8</a> | SCI                               | Q2                           | <a href="https://link.springer.com/journal/10965">https://link.springer.com/journal/10965</a>                                                                                                                                                                                                                   |
| 31   | Stir Casting Synthesis and Evaluation of SiC Nanoparticle-Reinforced AZ31 Magnesium Alloy Nanocomposites                                                     | S. Thillikkani ,N. Mathan Kumar, M. Francis Luther King,R. Soundararajan,S. Kannan                                                     | SAE Technical Papers                        | <a href="https://doi.org/10.4271/2025-01-5013">https://doi.org/10.4271/2025-01-5013</a>             | Scopus                            | NA                           | <a href="https://saemobilus.sae.org/papers/stir-casting-synthesis-evaluation-sic-nanoparticle-reinforced-az31-magnesium-alloy-nanocomposites-2025-01-5013">https://saemobilus.sae.org/papers/stir-casting-synthesis-evaluation-sic-nanoparticle-reinforced-az31-magnesium-alloy-nanocomposites-2025-01-5013</a> |

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| 32   | Welding of nickel alloys interface by finite element modeling and artificial intelligence and envisage by patent landscape | B.Arulmurugan, S. Ajithkumar, KPRIET & R.Meiyazhagan, Paavai Engineering college, Namakkal                                                                             | International Journal on Interactive Design and Manufacturinig (IJIDeM) | <a href="https://doi.org/10.1007/s12008-025-02268-9">https://doi.org/10.1007/s12008-025-02268-9</a> | SCI                               | NA                           | <a href="https://link.springer.com/article/10.1007/s12008-025-02268-9">https://link.springer.com/article/10.1007/s12008-025-02268-9</a>                   |
| 33   | Sustainable hybrid composites from flax, vetiver, and Luffa cylindrica: Acoustic and structural performance                | Gokulkumar Sivanantham, Vinod Ayyappan, Prabhu Loganathan, Sasi Kumar Mani, Gurupranes Sivaraj Vijaya, Vijay Raghunathan, Sanjay Mavinkere Rangappa, Suchart Siengchin | Polymer composites                                                      | <a href="https://doi.org/10.1002/pc.29900">https://doi.org/10.1002/pc.29900</a>                     | SCI                               | Q1                           | <a href="https://4spepublications.onlinelibrary.wiley.com/doi/10.1002/pc.29900">https://4spepublications.onlinelibrary.wiley.com/doi/10.1002/pc.29900</a> |
| 34   | Influence of cryogenic treatment on mechanical and ballistic properties of AA5754 alloy friction stir welded joints        | V Manoj Mohan Prasath, S Dharani Kumar, Saurabh S Kumar                                                                                                                | Defence Technology                                                      | <a href="https://doi.org/10.1016/j.dt.2025.01.019">https://doi.org/10.1016/j.dt.2025.01.019</a>     | SCI                               | Q1                           | <a href="https://doi.org/10.1016/j.dt.2025.01.019">https://doi.org/10.1016/j.dt.2025.01.019</a>                                                           |
| 35   | Mechanical, Tribological and Corrosion Behaviour of Stir Compocast Al 6063 Composites: Impact of                           | Chithra Neduvanthanathu Vijayan, Karuppasamy Ramasamy, Manickaraj Karuppusamy, and Gokulkumar Sivanantham                                                              | Surface Review and Letters                                              | <a href="https://doi.org/10.1142/S0218625X25501859">https://doi.org/10.1142/S0218625X25501859</a>   | SCI                               | Q4                           | <a href="https://www.worldscientific.com/doi/10.1142/S0218625X25501859">https://www.worldscientific.com/doi/10.1142/S0218625X25501859</a>                 |

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|      | Cenosphere Reinforcement                                                                                     |                                                                                                                         |                                         |                                                                                                         |                                   |                              |                                                                                                                                             |
| 36   | Wire-Arc Directed Energy Deposition of Aluminum Alloys: A Review on Properties, Challenges, and Applications | Ajithkumar Sitharaj, B Arulmurugan, S Dharani Kumar, S Idhayaraja, D Manishraj, N Premkumar                             | Lecture Notes in Mechanical Engineering | <a href="https://doi.org/10.1007/978-981-96-3165-0_8">https://doi.org/10.1007/978-981-96-3165-0_8</a>   | Scopus                            | Q4                           | <a href="https://link.springer.com/chapter/10.1007/978-981-96-3165-0_8">https://link.springer.com/chapter/10.1007/978-981-96-3165-0_8</a>   |
| 37   | Hybridization in Wire Arc Directed Energy Deposition of Titanium Alloys: A Review                            | Ajithkumar Sitharaj, B. Arulmurugan, V. Veeraraghavan, S. Idhayaraja, S. R. Vivekanandh, M. Kavin & A. S. Atharsh Kumar | Lecture Notes in Mechanical Engineering | <a href="https://doi.org/10.1007/978-981-96-3165-0_34">https://doi.org/10.1007/978-981-96-3165-0_34</a> | Scopus                            | Q4                           | <a href="https://link.springer.com/chapter/10.1007/978-981-96-3165-0_34">https://link.springer.com/chapter/10.1007/978-981-96-3165-0_34</a> |
| 38   | Hybridization in Hybridization in Metal Additive Manufacturing: Current Status and Future Prospectives       | Ajithkumar Sitharaj, B. Arulmurugan, N. Karthi, M. S. Dhanushh, S. R. Deepak & M. Ajay                                  | Lecture Notes in Mechanical Engineering | <a href="https://doi.org/10.1007/978-981-96-3165-0_35">https://doi.org/10.1007/978-981-96-3165-0_35</a> | Scopus                            | Q4                           | <a href="https://link.springer.com/chapter/10.1007/978-981-96-3165-0_35">https://link.springer.com/chapter/10.1007/978-981-96-3165-0_35</a> |

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| 39   | Enhancing mechanical properties by parameter optimization in fiber and particle reinforced composites | R. Anandkumar, KPRIET<br>Murali. D, St. Joseph's<br>Institute of Technology,<br>Chennai,<br>G. Nalinashini, Dr. M.G.R.<br>Educational and Research<br>Institute, Chennai, | journal of<br>polymer and<br>composite | 13(2), 2025                  | SCI                               | Q4                           | <a href="https://journals.stmjournals.com/jo pc/article=2025/view=198137/">https://journals.stmjournals.com/jo pc/article=2025/view=198137/</a> |

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## Book Chapter Publication 2024-2025

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|------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Intelligent Robots and Cobots-Industry 5.0 Applications                                                    | Mithun N. S., Saravanagowri S. P., Sashankh V. R., Rithish Hari G., Nithish Kumar S., Saravanan B. K. and Ramesh Babu S.         | scrivenerpublishing- WILEY         | <a href="https://www.scrivenerpublishing.com/cart/title.php?id=1055#top">https://www.scrivenerpublishing.com/cart/title.php?id=1055#top</a>                                                                                                                                                                                 |
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| 3    | Applications of Composite Materials in Engineering                                                         | L. Rajeshkumar 1, Sitharaj Ajithkumar 2, B. Arulmurugan 2                                                                        | Woodhead Series in Materials       | <a href="https://www.sciencedirect.com/science/article/abs/pii/B9780443139895000140">https://www.sciencedirect.com/science/article/abs/pii/B9780443139895000140</a>                                                                                                                                                         |
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| 7    | Intelligent Robots and Cobots: Industry 5.0 Applications                                                   | Joel E, Sanjeev Vyaas S.,<br>Shamsudeen Babu G.,<br>Raghunath S. S., Manikandan P.<br>KPRIET     | scribnerpublishing- WILEY     | <a href="https://www.scribnerpublishing.com/cart/title.php?id=1055#top">https://www.scribnerpublishing.com/cart/<br/>title.php?id=1055#top</a>                                                                                                                                                                                                        |
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| 10   | Surface Modification and Coating of Fibers, Polymers, and Composites                                       | Sitharaj Ajithkumar, B. Arulmurugan                                                              | Elsevier Science              | <a href="https://www.sciencedirect.com/science/article/abs/pii/B9780443220296000083">https://www.sciencedirect.com/science/arti-<br/>cle/abs/pii/B9780443220296000083</a>                                                                                                                                                                             |
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