**Research publication & awards Details from 05.07.21 to till date**

1. **K. Arunprasath**, V. Manikandan, P. Amuthakkannan, **MECHANICAL AND OPTICAL PROPERTIES EVALUATION OF NEEM GUM / ACACIA GUM EPOXY COMPOSITE**, Research & Development in Material Science, Accepted, March 2023. **(Scopus Indexed)**.
2. **K.Arunprasath**, Magharaja A S, M.Vijayakumar, **INVESTIGATION OF AA7075 MMC REINFORCED BY AL0.5COCRAGNI HEAT THROUGH STIR CASTING AND CRYOROLLING**, Advances in Materials Science and Engineering, Accepted, January 2023. **(IF-2.0)**.
3. M. Vijayakumar, Prinson chandy, **K. Arunprasath**, **INFLUENCE OF CRYO-MILLING ON METAL MATRIX INTERFACE AND CHARACTERISTICS OF AA5154 – ZRC COMPOSITES**, Advances in Materials Science and Engineering, Accepted, January 2023. **(IF-2.0)**.
4. M. Vijayakumar, M. Dineshkumar, S.Karthikeyan, P.Yuvanarasimman, V. Ramkumar, R.Satheeshraja, **K.Arunprasath**, **INVESTIGATION ON THE FLOW BEHAVIOR AND FORMABILITY OF AA5052 AT CRYOGENIC TEMPERATURES,** AIP Conference Proceedings, Accepted, Dec 2022. **(Scopus Indexed)**.
5. Kamesh Bodduru, Lavish Kumar Singh, **K. Arunprasath**, Bhaskar Chandra Kandpal, Nitin Johri, **EFFECT OF MXENE REINFORCEMENT ON BENDING BEHAVIOR OF GLASS FIBER-EPOXY BASED LAMINATED COMPOSITES**, Materials Today Proceeding, March 2023. **(Scopus Indexed)**.
6. **K. Arunprasath**, P. Amuthakkannan, M. Vijayakumar, R. Sundarakannan, M. Selwin,

S. Kavitha, Lavish Kumar Singh, **INVESTIGATION OF MECHANICAL PROPERTIES OF AL7075/MICA POWDER HYBRID METAL MATRIX COMPOSITE FOR TECHNOLOGICAL APPLICATIONS, Material Physics and Mechanics,** March 2023. **(Scopus, Russian Science Citation Index, and Web of Science Indexed)**.

1. **K. Arunprasath**, Muppudathi S, Manikandan V, Lenin Rakesh N, Paramasivan S and Mohemedsharifkhan P, **STUDY OF TRIBOLOGICAL CHARACTERISTICS OF AA6061-ZRO2 COMPOSITES UNDER WEAR CONDITIONS**, AIP Conference Proceedings, Accepted, Oct 2022 **(Scopus Indexed).**
2. **K. Arun Prasath**, G. Murugan, P. Selvakumar, S. Thirumavalavan, S. Mareeswaran and V. Ram Kumar, **STUDY OF MECHANICAL CHARACTERISTICS AND STRENGTHENING MECHANISM OF AA5154 DURING CRYOGENIC ROLLING**, Materials Today Proceeding, February 2023. **(Scopus Indexed)**.
3. **K.Arun Prasath**, A.S. Vikasah, P. Selva Kumar, N.Lenin Rakesh, Mohemedsharifkhan P and Mathan Paul, **STUDY OF THE IMPACT OF CUTTING FACTORS ON SURFACE ROUGHNESS OF AA2128/B4C METAL MATRIX COMPOSITES BY USING CRYOGENIC COOLANT**, Materials Today Proceeding, January 2023. **(Scopus Indexed)**.
4. **K. Arunprasath**, Kakur Naresh, P. Amuthakkannan, V. Manikandan, S. Kavitha, **STUDY OF LOW VELOCITY IMPACT FAILURE RESPONSES OF WOVEN BASALT FIBER REINFORCED POLYMER COMPOSITES USING ULTRASONIC A, B AND C SCAN TECHNIQUES**, Advances in Materials and Processing Technologies, Taylor & Francis, September 2022. **(Scopus Indexed & Web of Science)**.
5. Kamesh Bodduru, Bhaskar Chandra Kandpal, Lavish Kumar Singh and **Arunprasath K**, **EFFECT OF MXENE REINFORCEMENT ON MECHANICAL BEHAVIOR OF GLASS FIBER-EPOXY COMPOSITES**, AIP Conference Proceedings, August 2022 **(Scopus Indexed)**.
6. M. Senthilkumar, M. Ramarao , S. Lakshmanan A.M.Shanawaz, **K.Arunprasath**, **STUDY OF THE EFFECT ON FRICTION WELDED SURFACE ON COPPER ALUMINIUM JUNCTURE**, Key Engineering Materials, June 2022 **(Scopus Indexed)**..
7. Kalirasu. S, Jessy Michla. J. Rb, Rajini. N, **Arunprasath. K**, Senthilkumar K, “**DESIGN AND FABRICATION OF HAND OPERATED RE-BAR TYING MACHINE FOR PRODUCTIVITY IMPROVEMENT IN CONSTRUCTION FIELD**”, Materials Today Proceedings, May 2022 **(Scopus Indexed)**.
8. P. Amuthakkannan, **K. Arunprasath**, V. Manikandan, Tabrej Khan, **“ EFFECT OF STACKING SEQUENCE OF GLASS AND JUTE FIBER REINFORCED POLYMER COMPOSITES ON THEIR LOW VELOCITY IMPACT PROPERTIES**", Journal of Composite Materials, Sage, **Impact factor 2.5**, April, 2022.
9. **K. Arunprasath**, A.Thivagar, P.Mathan, P.Yuvanarasimman, **“CRYOGENIC TURNING OF TITANIUM ALLOYS: MACHINABILITY CHARACTERISTICS AND ENVIRONMENTAL CONSEQUENCES**”, Materials Today Proceedings, May 2022 **(Scopus Indexed)**.
10. **K. Arunprasath**, J. Sudhan, S. Kavitha, S. Paramasivan, M. Vijayakumar, “**CRYOGENIC FORMING OF AA6065 by ECAP”**, Materials Today Proceedings, May 2022 **(Scopus Indexed)**.
11. M. Vijayakumar, A. M. Shanawaz, N. Prabhu, **K. Arunprasath**, C. Ramesh, Midhun mohan, “**THE INFLUENCE OF CRYOGENIC TREATMENT ON TITANIUM ALLOYS MECHANICAL PROPERTIES”**, Materials Today Proceedings, May 2022 **(Scopus Indexed)**.
12. **K. Arunprasath**, M. Muthumalai, S. Kavitha, T. R. Vijayaram, “**INVESTIGATION OF CRYOGENIC THERMAL CONDUCTIVITY OF AA7115 SUBJECTED TO VARIOUS HEAT TREATMENTS**”, Vol no. 935, Page no. 115-124, Key Engineering Materials, June, 2022 **(Scopus Indexed)**.
13. S.Muthukumaran, M.Ramarao, S.Shanmugasundaram, Lavish kumar singh, Amol L Mangrulkar, **K. Arunprasath**, “**PARAMETRIC EFFECT AND TAGUCHI OPTIMIZATION OF CRYOGENIC TREATMENT OF STRENX STEEL**”, Materials Today Proceedings, May 2022 **(Scopus Indexed)**.
14. **K. Arunprasath**, A.Vineesh pandiyan, R. Nekin Joshua, M. Vijayakumar, V. Manikandan, “**INVESTIGATION ON FUSION OF BORON NITRIDE REINFORCED ALUMINIUM COMPOSITE POWER BY CRYOGENIC MILLING AT LOW TEMPERATURE”**, Materials Today Proceedings, May 2022 **(Scopus Indexed)**.
15. V. Manikandan, K. Mariselvam , R. Nekin Joshua, C. Ramesh, **K. Arunprasath**, “**STUDY ON PROCESS PARAMETERS OF TUNGSTEN INERT GAS WELDED ALUMINIUM ALLOY 5086 THROUGH MECHANICAL CHARACTERISTICS”**, Materials Today Proceedings, May 2022 **(Scopus Indexed)**.
16. R. Sundarakannan, V. Arumugaprabu, V. Manikandan, **K. Arunprasath**, S. Vigneshwaran, K. Naresh , **”EFFECT OF POLYETHYLENE TEREPHTHALATE CHAR ON IMPACT AND EROSION PROPERTIES OF POLYESTER MATRIX COMPOSITES”,** Advances in Materials and Processing Technologies, March 2022 **(Scopus and Web of Science).**
17. V. Arumugaprabu, **K. Arunprasath**, V. Manikandan, Naresh Kakur, S. Ilangovan, D. Chinnappareddy Naveen, **THERMAL PERFORMANCE AND FIRE RESISTANCE STUDIES ON FILLER BASED NATURAL FIBER POLYMER COMPOSITES-A REVIEW,** Encyclopedia of Materials: Plastics and Polymers, Elsevier, Vol. 3, page no.717-723, Jan 2022.
18. I. Rajkumar, N. Rajini, Anish Nair, **K. Arun Prasath**, M. Ramaganesh, G. Kharrthikeyan, [**OPTIMIZATION OF MULTI GATING SYSTEM FOR THE EXPERIMENTAL INVESTIGATION INFLOW PARAMETERS WITH EFFECTS OF DESIGN IN SMALL SCALE INDUSTRIES**](https://www.sciencedirect.com/science/article/pii/S2214785322000207)**,** Materials Today Proceedings, 2022 **(Scopus Indexed).**
19. P. Amuthakkannan, V. Manikandan, M. Uthayakumar, **K. ArunPrasath**, S. Sureshkumar, **INVESTIGATION ON MACHINING PERFORMANCE OF BASALT FIBER COMPOSITES BY ABRASIVE WATER JET MACHINING**, Materials Physcics and Mechanics, 47(2021), 830-842. **(Scopus, Russian Science Citation Index, and Web of Science Indexed)**.
20. **K. Arunprasath**, P. Amuthakkannan, V. Manikandan, S. Kavitha, B. Radhkrishnan, **STUDY OF MECHANICAL PROPERTIES OF COPPER SLAG REINFORCED PARTICULATE POLYMER COMPOSITE**, Materials Physics and Mechanics, 47 (2021), 896-904. **(Scopus, Russian Science Citation Index, and Web of Science Indexed)**.
21. SB Sollapur, SB Anjappa, C Malla, MS Prasad, S Vignesh, **K Arunprasath**, **“** [**TRIBOLOGICAL PROPERTIES OF FILLER AND GREEN FILLER REINFORCED POLYMER COMPOSITES**](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tcgylp0AAAAJ&sortby=pubdate&citation_for_view=tcgylp0AAAAJ:L8Ckcad2t8MC)” , Materials Today Proceedings, 2021 **(Scopus Indexed).**
22. M Vijayakumar, AC Ravi, P Selvakuamar, S Paramasivan, **K Arunprasath**, **“** [**STUDY OF MOLECULAR LEVEL BEHAVIOUR OF SEMICONDUCTOR COMPOSITES THROUGH QUANTUM MECHANICS**](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tcgylp0AAAAJ&sortby=pubdate&citation_for_view=tcgylp0AAAAJ:ZeXyd9-uunAC)”, Materials Today Proceedings, 2021 **(Scopus Indexed).**
23. **K. Arunprasath,** V. Manikandan, P. Amuthakkannan, M. Selwin, M. Vijayakumar, **“DYNAMIC *MECHANICAL ANALYSIS PERFORMANCE OF PURE 3D PRINTED POLYLACTIC ACID (PLA) AND ACRYLONITRILE BUTADIENE STYRENE (ABS),*** *Materials Today Proceedings, 2021 (****Scopus Indexed)****.*
24. **K. Arunprasath,** V. Manikandan, P. Amuthakkannan, B. Radhakrishnan, **“LOW-VELOCITY IMPACT BEHAVIOUR OF 3D PRINTING TECHNIQUES USING FIBER REINFORCEMENT POLYMER COMPOSITES: A STATE-OF-THE-ART REVIEW**”, Journal of Thin Films, Coating Science Technology and Applications, Volume 8, Issue 2, 2021*(****Scopus Indexed)***.
25. Mathan Kumar P; Paramasivam V, Mathalai Sundaram C, **K. ArunPrasath “INVESTIGATE THE CHARACTERIZATION AND SYNTHESIS PROCESS OF TITANIUM DIOXIDE NANOPARTICLES”,** *Materials Today Proceedings, 2021 (****Scopus Indexed)****.*
26. M. Manojkumar, M. Vijayakumar, **K. Arunprasath, “THERMAL PERFORMANCE OF A DOUBLE-GLAZED WINDOW INTEGRATED WITH A PHASE CHANGE MATERIAL (PCM)”,** *Materials Today Proceedings, 2021 (****Scopus Indexed)****.*
27. **K Arunprasath**, V Arumugaprabu, P Amuthakkannan, R Deepak Joel Johnson, S Vigneshwaran, [*Development in Additive Manufacturing Techniques*](https://link.springer.com/chapter/10.1007/978-3-030-89401-6_2), Springer, March 2022.
28. **K Arunprasath**, V Arumugaprabu, P Amuthakkannan, R Deepak Joel Johnson, S Vigneshwaran , [*Polymer-based Composites: Design, Manufacturing, and Applications*](https://books.google.com/books?hl=en&lr=&id=op03EAAAQBAJ&oi=fnd&pg=PP1&dq=info:s_usRinPPAEJ:scholar.google.com&ots=rtQVdHebEL&sig=PHpcVMljUuT1D9bmKYaqql8SB4M), Taylor and Francis, August 2021.
29. **K. Arunprasath**, P. Amuthakkannan, V. Arumugaprabu and S. Kalirasu Manufacturing Technology and Experimental Applications, *Bentham Publishers*, March 2022, UAE.
30. V. Arumugaprabu, **K. Arunprasath**, K Naresh, S Ilangovan, DC Naveen, Thermal Performance and Fire Resistance Studies on Filler Based Natural Fiber Polymer Composites-A Review, *Encyclopedia of Materials amd Polymers*, Elesiver, March, 2022.
31. **K Arunprasath**, M Vijayakumar, Pon Janani Sugumaran, P Amuthakkannan, V Manikandan, V Arumugaprabu, Polymers for structural applications, *Materials for Lightweight Constructions*, CRC press, 2022.

**1. Anna University Recognized Supervisor Ref: No:4020010**

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| --- | --- | --- | --- |
| **S.No** | **Name of the Scholar/Reference No** | **Title of the Research Work** | **Status** |
| 1 |  S. Ida Blessy/ 231911061 | An Experimental Study on Mechanical and Fire Retardant characteristics of partial replacement of cement by adding Natural Polymeric Fillers | Course work |

Awards

* **Inspirational Research Award-2023**, INSO 2023, International Research Awards on Science, Technology and Management.
* **Gurukul Academic Award- 2022**, Institute for Social Reforms and Higher Education Charitable Trust.
* **Best Researcher Award-2022,** International Research Awards on Composite Materials- 2022 by Science Father.
* **Dr. APJ Abdul Kalam- Puruskar-2022** Award given by International Council of Social Reforms and Research.
* Anna University **Doctoral Member** for Research Scholars doing Ph.D under Mechanical and Civil Engineering Doctoral Research Committee.

Journal Reviewer

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| **S.No** | **Name of the Recognition** | **Name of the Identity** |
| 1 | Journal Reviewer | InternationalResearch Journal of Materials Science and Engineering. |
| 2 | Journal Reviewer | International Journal of Innovative Technology and Exploring Engineering |
| 3 | Journal Reviewer | International Journal of Recent Technology and Engineering |
| 4 | Journal Ambassador for India | Bentham Science, Sharjah, United Arab Emirates. |
| 5 | Journal Reviewer | Current Journal of Applied Science and Technology |
| 6 | Executive Guest Editor | Bentham Science, Sharjah, United Arab Emirates. |
| 7 | Journal Reviewer | Elsevier, Netherlands |
| 8 | Journal Reviewer | International Journal of Industrial Engineering: Theory, Applications and Practice, Pusan National University, South Korea. |
| 9 | Journal Reviewer | Journal of Natural Fibers, Taylor & Francis, USA. |

\* *Co-founder of Junkoo Tech Pvt Ltd, more than 25 events organized as per the given IIC calendar activities.*

Dr.K.Arunprasath/AP/Mech