




K. S. INSTITUTE OF TECHNOLOGY

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|----------------------------------|---|---|
| Faculty Name | Mr. RAJESH GL |  |
| Designation | 1. Assistant Professor, Dept. of Mechanical Engineering, KSIT. 2. Corporate relationship executive, Placement cell, KSIT. 3. Member convener, Industry Institute Interaction Cell [IIIC], KSIT. | |
| Educational Qualification | M. Tech (Ph.D) | |
| Experience in Years | Teaching: 1 YR 3M Industry : Zero | |
| Areas of Interest | Materials science, Metallurgy, Nanomaterials | |
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Educational Details

| Examination/ Degree | College / University | Year of Passing |
|------------------------|--|--------------------|
| UG | Dr. Ambedkar Institute of Technology, Bengaluru, Karnataka | 2011 |
| PG | Siddaganga Institute of Technology, Tumakuru, Karnataka | 2013 |
| PhD | Pursuing – SIT, Tumakuru/VTU, Belagavi | -- |

Publications

Journal Publications:

1. Rajesh G. L, V. Auradi & S. A. Kori (2014): Preparation and Evaluation of Mechanical Properties of 6061Al- B₄C_p Composites Produced via Two-Stage Melt Stirring, Materials and Manufacturing Processes, Taylor and Francis DOI:10.1080/10426914.2014.892617.
2. Rajesh G.L, Sandeep P.R, V. Auradi and S.A Kori, "Influence of Ceramic B₄C particulate addition on tensile behavior of 6061 aluminum matrix", International journal of Materials Research 107(E) (2016) 1-7. DOI: 10.3139/146.111356
3. Vijaykumar Hiremath, S. T. Dundur , Bharath Raj L, Rajesh G. L and V. Auradi , "Studies on Mechanical and Machinability Properties of B₄C_p reinforced 6061Aluminum MMC produced via melt stirring", Applied Mechanics and Materials Vols. 592-594 (2014) pp 744-748© (2014) Trans Tech Publications, Switzerland.
DOI:10.4028/www.scientific.net/AMM.592-594.744
4. Rajesh G.L, V. Auradi and S.A Kori, "Mechanical behavior and Dry sliding wear properties of ceramic boron carbide particulate reinforced Al6061 matrix composites", Transactions of Indian Ceramic Society 75 (2016) 1-8.
DOI: 10.1080/0371750X.2016.1168318

5. Rajesh G. L, V. Auradi, Umashankar and S. A. Kori, "Processing and evaluation of dry sliding wear behavior of B₄C_p reinforced aluminum matrix composites", *Procedia Materials science* 5(2014) 289-294. DOI:10.1016/j.mspro.2014
6. V. Auradi, Rajesh G. L & S. A. Kori, "Processing of B₄C particulate Reinforced 6061Aluminum Matrix Composites by melt stirring involving two-step addition". *Procedia Materials science* 6(2014) 1068-1076. DOI: 10.1016/j.mspro.2014.07.177.
7. Rajesh G.L, Pradeep V Badiger, V. Auradi, Vijaykumar Hiremath and S.A Kori, "Investigation on Mechanical properties of B₄C particulate reinforced 6061Al Metal Matrix composites", *International journal of applied engineering Research* 10 (2015) 494-497. DOI: <http://www.ripublication.com/ijaer.htm>
8. Akash R, Amar S, Rajesh G.L, Vijaykumar Hiremath and Auradi V, "High Temperature Wear Properties of Artificially Aged 6061Al-B₄C_p Metal Matrix Composite" *Materials Today: Proceedings* 5 (2018) 16080–16084.
9. Ashok Kumar V, Anil M P, Rajesh G L, Vijaykumar Hiremath, V Auradi, "Tensile and Compression Behaviour of Boron Carbide Reinforced 6061Al MMC's processed through Conventional Melt Stirring" *Materials Today: Proceedings* 5 (2018) 16141–16145.
10. Gopal Krishna U B, Ranganatha P, Rajesh G L, Auradi V, Mahendra Kumar S and Vasudeva B, "Studies on Dry Sliding Wear Characteristics of Cermet WC-Co Particulate Reinforced Al7075 Metal Matrix Composite" *Materials Today: Proceedings* 16 (2019) 343–350.
11. Rajesh Gandasi Lakshmikantha, Soundarya Nanjundaswamy, Thilak Kumar Jayaprakash, Rohan Kundwada Ravindra, and Virupaxi Auradi, "The wear properties of ceramic B₄C/Al matrix composite at elevated temperature under dry sliding", *AIP Conference Proceedings* 2204, 040025 (2020); <https://doi.org/10.1063/1.5141598>.
12. Rajesh GL and Virupaxi Auradi, "Processing and evaluation of Al/B₄C particulate MMC's: Tensile strength and wear properties under different elevated temperature test condition" *Materials Today: Proceedings* Article Number MATPR11270, Article in press.
13. Rajesh GL and Virupaxi Auradi, "Fracture Toughness Properties of Al/SiC/Al₂O₃/B₄C MMC's: A Review, *Advances in Material Science and Mechanical Engineering*, Trans Tech Publication – Under review.

Conference Papers :

1. Rajesh G L, "Wear properties of 6061Al reinforced boron carbide particulate composites prepared by conventional stir casting route", *proceedings of National conference on Advanced materials and processing*, May 8th and 9th 2015 organized by department of Mechanical engineering, National Institute of Engineering, Mysuru, Karnataka.
2. Ankush Gupta, Praveen kumar, Tarun Kumar Thakur, Vinay shankar, Rajesh G L and Auradi V, "Influence of B₄C particulate addition on the wear properties of 6061 Al alloy" *Proceedings of International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences [AMMMT – 2013]*, May 03rd & 04th, 2013 Organized by Department of Mechanical Engineering and Industrial Engineering & Management, Siddaganga Institute of Technology, Tumkur, Karnataka.
3. Rajesh G L and Auradi V, "Preparation and characterization of 6061Al-B₄C particulate reinforced composites produced by melt stirring using novel two stage mixing and evaluation of their mechanical properties" *Proceedings of International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences [AMMMT –*

2013], May 03rd & 04th, 2013 Organized by Department of Mechanical Engineering and Industrial Engineering & Management, Siddaganga Institute of Technology, Tumkur, Karnataka.

4. Rajesh G L and Auradi V, “Studies on mechanical and wear properties of 6061Al-B₄C particulate reinforced composites produced by vortex method” Proceedings of National conference on Advanced materials “MECHMANTHANA” and “PRADARSHANA” 8th and 9th May-2013 at East point college of engineering and technology, Bangalore.
5. Rajesh G L and Auradi V, "Preparation and Property Evaluation of 6061Al-B₄C Particulate Reinforced Composites Produced by Two Stage Vortex Method", Proceedings of National Conference. On National level student’s technical symposium "MECHMASTIC", 27th and 28th September 2013 at Kalpataru Institute of Technology, Tiptur.
6. Basavaraj, Jayraj A.S, Praveen Patil, Veeresh, Rajesh G L & V Auradi, “Evaluation of Mechanical and Wear Properties of 6061Al-B₄C_p composites”, Proceedings of National Conference on National level students technical symposium March 27th 2015 at H.M Institute of Technology, Tumkur.
7. Rajesh GL and Virupaxi Auradi, ““Processing and evaluation of Al/B₄C particulate MMC’s: Tensile strength and wear properties under different elevated temperature test condition”, Proceedings of International conference on Recent Advances in Materials and Manufacturing Technology (IMMT 2019) held at BITS Pilani, Dubai Campus, UAE on 20-22nd November 2019.

Awards

-NIL-

Professional Membership

1. ISTE – Membership Number: LM130901

Contact Details

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