



Publications

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Journal Publications:2025

1. Gurunagendra, G. R., Kumar, K. A., Ravikumar, V., Yaragudri, H., Kumar, R. S., Prasad, C. D., ... & Prabhu, S. R. (2025). Application of the taguchi technique to examine the wear patterns of zircon flour reinforcement in stir-cast zinc aluminium composites. Results in Surfaces and Interfaces, 100598.
2. Chari, V. S., Chand, R. P., Venkatesh, B. N., Prasad, M. G., Narendra, N., Pushpa, N., ... & Shanmugam, B. K. (2025). An integrated review of additive manufacturing technologies and functional materials for medical use. Proceedings of the Indian National Science Academy, 1-24.
3. Pachchinavar, D. H., Mohammed Nadeem, M., Hebbal, U., Venkatesh, P. R., Kattimani, M. A., Shanmuganatan, S. P., ... & Prasad, C. D. (2025). Exploring Microstructural and Mechanical Properties Enhancement of Hybrid Composites Face Sheets for Sandwich Panels. Journal of The Institution of Engineers (India): Series D, 1-13.
4. Naresh, G., Venkateswara Reddy, K., BN, V., K, A., Janaki, D. V., Ramesh Babu, B., & Satyanarayana, M. V. N. V. (2025). Influence of microstructure evolution on mechanical and tribological behaviour of accumulative roll-bonded Al 2014 alloy. Advances in Materials and Processing Technologies, 1-15.
5. BV, R., R Annigiri, A., & Srikatamurthy, J. S. (2025). Impact of evolutionary algorithm on optimization of nonconventional machining process parameters. Journal of Mechanical Engineering (JMEchE), 22(3), 28-37.
6. Shivanayak, L., Srikantamurthy, J. S., Naik, R. T., Prasad, C. D., & Hailu, N. (2025). Evaluation of a Solar Flat Plate Collector's Performance Using Wavy Riser Tubes and Coil Inserts. International Journal of Thermofluids, 101378.
7. Raghavendra, B.V, Annigeri, A., Srikantamurthy, J., & Sattigeri, (2025). Integrating random forest and genetic algorithms for improved kidney disease prediction, IAES International Journal of Artificial Intelligence, 2797-2804
8. Devappa, (2025). Design and Analysis of Scissor Type Folding Portable e- cycle, Zhuzao/Foundry, ISSN: 1001-4977, DOI:10.29014/FJ-2025-1001-4977.89.2076.
9. Kiran Prakasha, A., Mruthunjaya, M., Kumar, R. S., Pulla, N., Tiwari, A., Sudarshan, T. A., ... & DURGA PRASAD, C. (2025). PROCESS OPTIMIZATION OF CORROSION AND EROSION RESISTANT OF THERMAL BARRIER COATINGS FOR INCONEL ALLOY–A REVIEW. Surface Review and Letters, 2550167.

10. Harish, U., Mruthunjaya, M., Chakule, R. R., Aswar, S. J., Prasad, C. D., Balaji, S., ... & Aden, A. A. (2025). Effect of cobalt variation on microstructural and erosion performance of HVOF-sprayed WC-Co-Cr-Ni hard-faced coatings. *Journal of Materials Science: Materials in Engineering*, 20(1), 73.
11. Raghavendra, B. V., Annigeri R, A., Srikantamurthy, J. S., & Unzueta, G. (2025). Modeling and analysis of design parameters and interactions in 3D-printed components using response surface methodology.
12. Raghavendra, B. V., & Annigeri, A. R. (2025). OPTIMIZATION OF PROCESS PARAMETERS OF 3D PRINTED POLYLACTIC ACID PARTS USING GENETIC ALGORITHM. *ASEAN Engineering Journal*, 15(2), 149-155.
13. Jathanna, H. M., Poojari, M., Ravi, K. S., Venkatesh, B. N., Hanumanthappa, H., Goriparti, N. S., & Shanmugam, B. K. (2025). Augmented lipid biosynthesis in native fungus through dual-stage optimization of lignocellulosic biomass residue pretreatment and fermentation conditions. *Biomass Conversion and Biorefinery*, 15(18), 25223-25236.
14. Srinivasarao, G., Tarachand, V., Nagaraja, T. K., Hanumanthappa, H., Kondalarao, D., & Usha, M. (2025). Experimental investigation of herbal based Al₂O₃ nano cutting fluids with minimum quantity lubrication in optimization of turning. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 19(9), 6561-6573.
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Journal Publications:2024

1. Venkatagiriappa, R.B., Annigeri, A.R. & Srikantamurthy, J.S. Development of a model for a walking robot made of Desai mechanism using ANN and regression approach. *J. Eng. Appl. Sci.* 70, 127 (2023). <https://doi.org/10.1186/s44147-023-00296-4>
2. BR Veeresh, R Suresh, SS Gowreesh, Predicting residual stress in GTA welded dissimilar cylinder components, *AIP Conference Proceedings*, 2548(1) 2023.
3. Prashantha, B. G., Narasimham, G. S. V. L., Seetharamu, S., & Hemadri, V. B. (2023). Hydrogen, helium and thermo-acoustic refrigerators. *International Journal of Air-Conditioning and Refrigeration*, 31(1), 22.
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5. Vijayakumar, R., Srikantamurthy, J. S., Patil, S., Rudresha, S., Manjunatha, A., Hemanth Raju, T., & Lenin, A. H. (2023). Optimization of Wear Process Parameters of Al6061-Zircon Composites Using Taguchi Method. *Advances in Materials Science and Engineering*, 2023.
6. Gowda, C.V., Yogesha, K.B., Manjunath, H.R. et al. Effect of Delamination Size on the Natural Frequency of Twintex and Natural Fibre/Poly-Propylene Hybrid Composite Cantilever Beam. *J. Inst. Eng. India Ser. D* (2024). <https://doi.org/10.1007/s40033-023-00622-3>
7. Venkate Gowda, C., Nagaraja, T.K., Yogesha, K.B. et al. Study on Structural Behavior of HVOF-Sprayed NiCr/Mo Coating. *J. Inst. Eng. India Ser. D* (2024). <https://doi.org/10.1007/s40033-024-00641-8>
8. Venkatesh, B.N., Hebbal, U., Yogesha, K.B. et al. Enhancing Tribological Characteristics of AA6061-SiC Composites via Response Surface Methodology. *J. Inst. Eng. India Ser. D* (2023). <https://doi.org/10.1007/s40033-023-00610-7>
9. Lakkannavar, V. and Yogesha, K., "Microstructure and Corrosion Characteristics of Composite Coating Developed on T22 Steel Using Plasma Thermal Spray Method," SAE Technical Paper 2023-01-5071, 2023, <https://doi.org/10.4271/2023-01-5071>.
10. Srinidhi Acharya, S.R., Suresh, P.M. & Mruthunjaya, M. Influence of Silicon Carbide Particulates on Vibrational Characteristics for Al 7075 Composites. *J. Inst. Eng. India Ser. D* 104, 651-660 (2023). <https://doi.org/10.1007/s40033-022-00446-7>
11. Nagaraja, T.K., Yogesha, K.B., Mruthunjaya, M. (2023). Experimental and Numerical Analysis of Diametric Compression Test of FRP Rings. In: Pramod P., B., Desai, U.B., Goel, S. (eds) *Advances in Material Science and Metallurgy. Lecture Notes in Mechanical Engineering*. Springer, Singapore. https://doi.org/10.1007/978-981-19-4918-0_18
12. Siddappa, P.N., Shivakumar, B.P., Mruthunjaya, M., Anil Kumar, K.S. (2023). Sliding Wear Behavior of Cast, Cold Extruded, and Precipitation-Hardened Al/TiCp Metal Matrix Composite. In: Bhattacharyya, B., Mathew, J., Saravanakumar, N., Rajeshkumar, G. (eds) *Advances in Micro and Nano Manufacturing and Surface Engineering. Lecture Notes in Mechanical Engineering*. Springer, Singapore. https://doi.org/10.1007/978-981-19-4571-7_30
13. Santhosh Kumar, B.M., Swamy, G.M., Aprameya, C.R. et al. Influence of Heat Variation on Thermal and Mechanical Performance of Al-7075-Based Hybrid Composites. *J. Inst. Eng. India Ser. D* (2023). <https://doi.org/10.1007/s40033-023-00614-3>
14. Umamaheshwar Hebbal and Mruthunjaya M Rathnakar.G , G.M.Swamy , Devappa, Artificial Intelligence (AI) in health monitoring of Mechanical Machines, *Journal of Xi'an University of Architecture & Technology*, (15) 1, (2023)
15. Narayanasamy, M.P., Smaism, G.F., Abed, A.M. et al. Experimental and Computational Analysis of Pin-Fin Profiles for Aerospace Applications. *Iran J*

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1. Siddappa, P.N., Shivakumar, B.P., Mruthunjaya, M., Anil Kumar, K.S. (2023). Sliding Wear Behavior of Cast, Cold Extruded, and Precipitation-Hardened Al/TiCp Metal Matrix Composite. In: Bhattacharyya, B., Mathew, J., Saravanakumar, N., Rajeshkumar, G. (eds) Advances in Micro and Nano Manufacturing and Surface Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-4571-7_30
2. Nagaraja, T.K., Yogesha, K.B., Mruthunjaya, M. (2023). Experimental and Numerical Analysis of Diametric Compression Test of FRP Rings. In: Pramod P., B., Desai, U.B., Goel, S. (eds) Advances in Material Science and Metallurgy. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-4918-0_18
3. BR Veeresh, R Suresh, SS Gowreesh, Predicting residual stress in GTA welded dissimilar cylinder components, AIP Conference Proceedings, 2548(1) 2023

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4. Reddy, N. S., Subramanya, S. G., Vishwanath, K. C., Karthikeyan, M., & Kanchiraya, S. (2022). Enhancing the thermal efficiency of parabolic trough collector using rotary receiver tube. Sustainable Energy Technologies and Assessments, 51, 101941.
5. Keerthana, P., Ravi, G., Pant, K., & Sudhakar, M. (2022). Bio polymer based food packaging using composite materials. Materials Today: Proceedings, 66, 834-837.
6. VV Thanigaivelan, M. R., Rajesh, S., Shanmugam, P., Swamy, G. M., & Fuskele, V. (2022). Impact of Cashew Nut Shell Liquid Biofuel on Performance and Emission Characteristics in Diesel Engine. Journal of Algebraic Statistics, 13(3), 3944-3951.
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8. Kavyashree, M. B., Kulenur, S., Nagesh, P., & Nanjundeshwaraswamy, T. S. (2023). Relationship between Human Resource Management Practices and Employee Engagement. Brazilian Journal of Operations & Production Management, 20(1), 1331-1331.
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10. Hallera Basavarajappa Marulasiddeshi, Praveen Kumar Kanti, Mehdi Jamei, Sajjal

Basanna Prakash, Somalapura Nagappa Sridhara, & Zafar Said, (2022). Experimental study on the thermal properties of Al₂O₃ -CuO /water hybrid nanofluids: Development of an artificial intelligence model: International Journal of Energy Research.

11. Raghavendra, B. V., & Pai, D. K. (2023). Influence of Crossover Probability on Performance of Genetic Algorithm in Scheduling of Parallel Machines. *Techniques and Innovation in Engineering Research and Technology* Vol. 5, 27-36.
12. GS, P. K., Sachit, T. S., Mruthunjaya, M., Kumar, H., Yogaraju, R., & Jangam, S. (2023). Mechanical and Tribological Properties of Polymer Composites Developed by FDM. In *Development, Properties, and Industrial Applications of 3D Printed Polymer Composites* (pp. 53-65). IGI Global.
13. Venkatesh, B. N., Hebbal, U., Siddappa, P. N., Kousik, S., & Nagaraja, T. K. (2022). Optimization of FSW parameters of AA6061-6 wt.% SiC composite plates. *Manufacturing Review*, 9, 34.
14. Srinidhi Acharya, S. R., Suresh, P. M., & Mruthunjaya, M. (2023). Influence of Silicon Carbide Particulates on Vibrational Characteristics for Al 7075 Composites. *Journal of The Institution of Engineers (India): Series D*, 1-10.
15. Narayanasamy, M. P., Smaisim, G. F., Abed, A. M., Joseph Leon, S. L., & Subramani, K. (2023). Experimental and Computational Analysis of Pin-Fin Profiles for Aerospace Applications. *Iranian Journal of Science and Technology, Transactions of Mechanical Engineering*, 1-11.

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1. Kumar, K. A., Rajneesh, H., & Madhu, H. C. (2023). Experimental Investigations on Effect of Tool Welding Speed on Microstructure and Tensile Properties of FSW Dissimilar Joints Reinforced with Sic Nanoparticles. In *Modern Manufacturing Systems* (pp. 231-244). Apple Academic Press.
2. Nagaraja, T. K., Giridhar, D. S., Babu, G. S., & Srikanth, A. K. (2022, October). Emergency portable life raft product development. In *AIP Conference Proceedings* (Vol. 2653, No. 1, p. 020017). AIP Publishing LLC.
3. Beloor, V., Nanjundeswaraswamy, T. S., Swamy, D. R., Aishwarya, S. P., & Gowda, N. B. (2022). Modeling facilitators of sustainable manufacturing practices-An integrated Pareto, ISM and MICMAC approach. *Materials Today: Proceedings*, 66, 2642-2649

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1. S, K., Suresh, R., Annigeri, A. R., U B, Praveen. K., & N, Bharath. M. (2022). Performance analysis of quadruped robot designed with Desai's walking leg mechanism. *Australian Journal of Mechanical Engineering (WOS)*
2. Mahendrakumara C, B. V. Raghavendra (2022). Tribological Behavior of Multiwalled Carbon Nanotube Reinforced Aluminium Metal Matrix Composite. *International Journal of Mechanical Engineering. (Scopus)*

3. Harish U., Mruthunjaya M., Yogesha K. B., Siddappa P. N., Anil Kumar K. S. (2022). Enhancing The Performance Of Inconel 601 Alloy By Erosion Resistant Wc-Cr-Co Coated Material, Journal of Engineering Science and Technology. (WOS)
4. U Harish, M Mruthunjaya, K Naresha, G Madhu, (2022). Effect of the coating material compositions on the life of gas turbine hot section components, AIP Conference Proceedings. (Scopus)
5. TS Nanjundeswaraswamy, Vanishree Beloor, (2022). Quality of work life of employees working in the Indian garment industry, Research Journal of Textile and Apparel (Scopus)
6. TS Nanjundeswaraswamy, Sindu Bharath, P Nagesh, (2022). Employer branding: design and development of a scale, Journal of Economic and Administrative Sciences. (Scopus)
7. TS Nanjundeswaraswamy, (2022). Design and Development of a Scale to Measure Student's Perceptions on Online Learning, Proceedings on Engineering. (Scopus)
8. Vanishree Beloor, TS Nanjundeswaraswamy, DR Swamy, SPAishwarya, NBharath Gowda, (2022). Modeling facilitators of sustainable manufacturing practices- An integrated Pareto, ISM and MICMAC approach, Materials Today: Proceedings. (WoSandScopus)
9. RRohith, GRuthvik, KPRaju, TS Nanjundeswaraswamy, (2022). CHEMICAL MACHINING PROCESS- A REVIEW, Proceedings on Engineering (Scopus)
10. NL Nikhil, Praveen Kumar, Raveen Kumar, TS Nanjundeswaraswamy, (2022). Use Of Non- Traditional Machining In The Textile Industry, Proceedings on Engineering. (Scopus)
11. TS Nanjundeswaraswamy, Swamy Devappa Renuka, Rashmi Srinivasaiah (2022). A study on quality of work life of employees in LPG bottling plant, Brazilian Journal of Operations & Production Management. (Scopus)
12. BR Veeresh, RSuresh, SSGowreesh, (2022). Numerical investigation of residual stresses in welded joints of cylindrical shell, Metallurgical and Materials Engineering. (Scopus)
13. BR Veeresh, RSuresh, SSGowreesh, (2022). Numerical investigation of residual stresses in circumferential and longitudinal welded joints, International Journal of Advanced Technology and Engineering Exploration. (Scopus)
14. KS Anil Kumar, KB Yogesha, (2022). Experimental investigations to find the effect of post weld heat treatment (PWHT) on the microstructure and mechanical properties of FSW dissimilar joints of AA2024-T351 and AA7075-T651, Materials Today: Proceedings. (WoSandScopus)
15. BG Prashantha, GS VL Narasimham, S Seetharamu, Vinayak B Hemadri, (2022). Theoretical evaluation of stack-based thermoacoustic refrigerators, International Journal of Air-Conditioning and Refrigeration. (WOS)

16. PN Siddappa, BP Shivakumar, M Mruthunjaya, KS Anil Kumar, (2022). Sliding Wear Behavior of Cast, Cold Extruded, and Precipitation-Hardened Al/TiCp Metal Matrix Composite, *Advances in Micro and Nano Manufacturing and Surface Engineering*. (Scopus)
17. Srikanth A.K. Nagaraja T.K., Giridhar D.S., Gaurav S. Babu, (2022). Emergency Portable Life Raft Product Development, *AIP Conference Proceedings*. (Scopus)
18. Siddesh Matti, BP Shivakumar, Madeva Nagaral, S Shashidhar, PN Siddappa, Virupaxi Auradi, (2022). Mechanical and tribological behavior of flyash, red mud and mica particles reinforced Al7075 alloy hybrid metal composites, *Manufacturing Review* (WOS)
19. Siddappa P N, B.P. Shivakumar Yogesha K.B." Synthesis and characterization of cold extruded Al/TiC metal matrix composite produced by stir casting technique" *Materials Today: Proceedings*. (WoS and Scopus)
20. Bala Naga Bharath Chinni, P.N. Siddappa, (2022). Design and analysis of front spar wing-tip segment for a small transport aircraft, *Materials Today: Proceedings*. (WoS and Scopus)

Conference Publications: 2022

1. Siddappa P N, B.P. Shivakumar Yogesha K.B." Synthesis and characterization of cold extruded Al/TiC metal matrix composite produced by stir casting technique" (SME 2021), 19-21 November 2021
2. Bala Naga Bharath Chinni Siddappa P.N.."Design and analysis of front spar wing-tip segment for a small transport aircraft", 3rd International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering.
3. Sri Sai P. Reddy Rohan., Suresh, Hanamantraygouda. M.B., B.P. Shivakumar "Use of composite materials and hybrid composites in wind turbine blades" (SME 2021), 19-21 November 2021
4. Nagaraja T.K., Venkatesh B.N., Umamaheshwar Hebbal, "Study of Ultra High Molecular Weight Polyethylene Nano Composite for Orthopaedic Application" PDCUBE 2021.

Journal Publications: 2021

1. Reddy, N. S., Subramanya, S. G., Vishwanath, K. C., Kanchiraya, S., Satheesha, V., & Karthikeyan, M. (2021). Analysis of tube-in-tube copper helical heat exchanger to improve heat transfer. *Materials Today: Proceedings*.
2. Kumar, K. A., & Yogesha, K. B. (2021). Experimental investigations to find the effect

of post weld heat treatment (PWHT) on the microstructure and mechanical properties of FSW dissimilar joints of AA2024-T351 and AA7075-T651. *Materials Today: Proceedings*. (WoSandScopus)

3. JP.Savina,B.V.Raghavendra,D.Rangappa.Experimental investigation on mechanical and tribological behaviour of surfactant coated multi-walled carbon nanotubes reinforced aluminium 6065-silicon metal matrix composite. *Lett. Mater.*, 2021, 11(1)73-78, <https://doi.org/10.22226/2410-3535-2021-1-73-78>, (WoSandScopus)
4. Nanjundeswaraswamy, T. S. (2021). Nurses quality of work life: scaled development and validation. *Journal of Economic and Administrative Sciences*. (WOS)
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6. Siddappa, P. N., Shivakumar, B. P., & Yogesha, K. B. (2021). Synthesis and characterization of cold extruded Al/TiC metal matrix composite produced by stir casting technique. *Materials Today: Proceedings*. (WoSandScopus)
7. J. S. Srikantamurthy, Anandkumar R. Annigeri, and Raghavendra B. V., Free Vibration Analysis of Layered Magneto-Electro-Elastic Truncated Conical Shells, *Journal of Applied Science and Engineering*, Vol. 23, No 4, 2020, pp:669-676, [https://doi.org/10.6180/jase.2020_23\(4\).0011](https://doi.org/10.6180/jase.2020_23(4).0011). (WoSandScopus)
8. K.C. Anantha Padmanbham, Mruthunjaya M., Darshan B. G. (2021), Effect of Reinforcement, Load and sliding distance on Al-4.5%wt Copper Matrix Hybrid, *International Journal of Engineering and Advanced Technology (IJEAT)*
9. Harish, U., Mruthunjaya, M., Naresha, K., & Madhu, G. (2021, February). Effect of the coating material composition on the life of gas turbine hot section components. In *AIP Conference Proceedings* (Vol. 2316, No. 1, p. 030036). AIP Publishing LLC.
10. Mruthunjaya M. & Yogesha K. B., "A review on conventional and thermal assisted machining of titanium-based alloy". *Materials Today: Proceedings*. (WoSandScopus), April 2021. <https://doi.org/10.1016/j.matpr.2021.03.490>.
11. Srikantamurthy, Anandkumar R. Annigeri (2021) Free Vibration Analysis of Multiphase Magneto-Electro-Elastic Composite Conical Shells. *Indian Journal of Science and Technology* 14(19), pp. 1525-1533. <https://doi.org/10.17485/IJST/v14i18.304> (WoS)
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1. Sri Sai P. Reddy, Rohan, Suresh, Hanamantraygouda M.B. and B.P. Shivakumar "Use of composite materials and hybrid composites in wind turbine blades", Int. Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy (SME2020), NMAMIT, Nitte, Karnataka, Elsevier: Materials Today Proceedings, Feb. 2021, doi.org/10.1016/j.matpr.2021.02.745 Indexed by Scopus.
2. Siddappa P.N., B.P. Shivakumar and Yogesha K.B., "Synthesis and characterization of cold-chamber die casted Al/TiC metal matrix composite produced by stir casting technique", Int. Conference on "Smart and Sustainable Developments in Materials, Manufacturing and Energy (SME 2020), NMAMIT, Nitte, Karnataka, Elsevier: Materials Today: Proceedings, Jan. 2021, doi.org/10.1016/j.matpr.2021.01.757 Indexed by Scopus.
3. Anil Kumar K.S., & Yogesha, K. B. (2021). Experimental investigations to find the effect of post-weld heat treatment (PWHT) on the microstructure and mechanical properties of FSW dissimilar joints of AA2024-T351 and AA7075-T651. Materials Today: Proceedings. (WoS and Scopus)

Journal Publications: 2020

1. Sadanand Sarapure, B.P. Shivakumar, M.B. Hanamantraygouda, (2020). "Investigation of Corrosion Behavior of SiC-Reinforced Al 6061/SiC Metal Matrix Composites Using Taguchi Technique", Journal of Bio-and Tribo-Corrosion. DOI: org/10.1007/s40735-020-0328-3, (WoS).
2. B.M. Girish, B.P. Shivakumar, M.B. Hanamantraygouda, B.M. Satish, (2020). Wear behaviour of hot forged SiC reinforced aluminium 6061 composite materials, Australian Journal of Mechanical Engineering, DOI: 10.1080/14484846.2020.1714353, (WoS).
3. Shivamanappa G. Desai, Anand Kumar R. Annigeri and A. Timmana Gouda (2019). Analysis of a new single degree-of-freedom eight link leg mechanism for walking machine. *Mechanism and Machine Theory*, 140 (October 2019), 747-764. DOI: [10.1016/j.mechmachtheory.2019.06.002](https://doi.org/10.1016/j.mechmachtheory.2019.06.002)

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6. MahendraKumar, *C. Raghavendra, B. V.* Effect of carbon nanotube in aluminium metal matrix composites on mechanical properties, *Journal of Engineering Science and Technology*, Vol. 15, No. 2(2020) 919- 930. (WoSandScopus)
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