



RAO BAHADHUR Y MAHABALESWARAPPA ENGINEERING COLLEGE
 CANTONMENT, BALLARI-583 104 (KARNATAKA).
DEPARTMENT OF MECHANICAL ENGINEERING



Research papers indexed in Scopus, Elsevier with DOI from-2017-2021

Sl. No.	Name of the faculty	Title of the Paper	Published /Citation Details	Journal Name
2017-18				
01	Veerabhadrappa Algur	Influence of Mn Content on Tribological Wear Behaviour of ZA-27 Alloy	Materials today proceedings, 4(10), pp: 10927-10934	Elsevier Ltd
02	Veerabhadrappa Algur	Taguchi's orthogonal array approach to evaluate drilling of GFRP particulate composites	Materials Today: Proceedings 4(10):11245-11250	Elsevier Ltd
03	Vithal Rao Chavan1	Effect of the Tribological Behaviour of Hematite filled Hybrid Composites – A Taguchi Approach	Vol.3, Issue4, May 2017.	International Journal of Advances in Scientific Research and Engineering,
04	Dr Hiregoudar Yerrannagoudaru	Combustion analysis of modified inverted "m" type piston fordiesel engine with platinum coating and without coating by using CFD	Vol. 4, issue 2 (2017) pp. 2333-2340	Elsevier Ltd
05	Dr Hiregoudar Yerrannagoudaru	Investigation of a Diesel Engine with Ceramic and platinum coated piston using Canola oil, Soyabean oil and Palm oil blended with Ethanol	Vol. 4, issue 2 (2017) pp. 725-733	Elsevier Ltd
06	Dr Hiregoudar Yerrannagoudaru	Comparison of Aldehyde Emissions in Alcohols blended with Vegetable oils fuelled C I engine using with and without Ceramic and Platinum Coated	Volume 4, Issue 8, 2017, Pages 9304-9315	Elsevier Ltd



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		Pistons		
07	Dr Hiregoudar Yerrannagoudaru	Design and Development of a New Piston using Nimonic Alloy 80A for Low Cetane Fuels usage in CI Engines	Volume 4, Issue 8, 2017, Pages 9284-9293	Elsevier Ltd
08	Dr. Shiva Kumar Modi	Investigation on the Effect of Moisture Content and Temperature On Specific Heat Of Cucumis Melo (Muskmelon)	Volume 8, Issue 4, April 2017, pp. 448-455, Article ID: IJMET_08_04_048	International Journal of Mechanical Engineering and Technology (IJMET)
09	Dr. Manjunatha K	Combustion analysis of modified inverted "m" type piston for diesel engine with platinum coating and without coating by using CFD	Vol. 4, Issue 2 (2017) pp. 2333-2340	Elsevier Ltd
10	Dr. Manjunatha K	Investigation of a Diesel Engine with Ceramic and platinum coated piston using Canola oil, Soyabean oil and Palm oil blended with Ethanol	Vol. 4, Issue 2 (2017) pp. 725-733	Elsevier Ltd
11	Dr. Manjunatha K	Comparison of Aldehyde Emissions in Alcohols blended with Vegetable oils fuelled C I engine using with and without Ceramic and Platinum Coated Pistons	Volume 4, Issue 8, 2017, Pages 9304-9315	Elsevier Ltd
12	Dr. Manjunatha K	Design and Development of a New Piston using Nimonic Alloy 80A for Low Cetane Fuels usage in CI Engines	Volume 4, Issue 8, 2017, Pages 9284-9293	Elsevier Ltd
13	Vaddin Chetan	Investigation on the Effect of Moisture Content and Temperature on Specific Heat Of Cucumis Melo (Muskmelon)	Volume 8, Issue 4, April 2017, pp. 448-455, Article ID: IJMET_08_04_048	International Journal of Mechanical Engineering and Technology (IJMET)



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14	Dr. C Thotappa	Efficient Information Management In Technical Education System Supply Chain Using Data Integration System (DIS)	Vol. 8, Issue 3, June 2018, 125-132, ISSN (P): 2249-6890; ISSN (E): 2249-8001	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
15	K G Prakash	Effect of Filler Material for Hemp Fiber Reinforced Polymer Composites in Automobile Application	Volume 8, Issue 11, November 2017	International Journal of Mechanical Engineering and Technology (IJMET)
16	M R Indudhar	Combustion and Exhaust Emissions study in a Single Cylinder Four Stroke Diesel Engine with Swirl Augmentation Techniques	Vol 9, Issue no 1, pages 1-14, 10.1080/17597269.2017.1284474/ ISSN. 1759-7277	Biofuels, Taylor & Francis group
2018-19				
01	Jagadish s p	Evaluation of Mechanical Properties of EGlass Fibre Reinforced Polymer Matrix Composit used as Implant for TIBIA Bone	Volume 9, Issue 10, (October 2018)	International Journal of Mechanical Engineering and Technology (IJMET)
02	Veerabhadrappa Algur	Influence of post curing on GFRP hybrid composites	144, 02011 (2018) https://doi.org/10.1051/mateconf/201814402011	MATEC Web of conferences
03	Dr Hiregoudar Yerrannagoudaru	Analysis and comparison of performance and emissions of compression ignition engine fueled with diesel and different bio-fuels blended with Methanol	Volume 5, Issue 2, 2018, Pages 5175-5185 ISSN: 2214-7853	Elsevier Ltd
04	Dr Hiregoudar Yerrannagoudaru	Performance And Emission Characteristic of A Multicylinder DI Diesel Engine running On Diesel And	Volume 5, Issue 2, 2018, Pages 3325-3333 ISSN: 2214-7853	Elsevier Ltd



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		Biofuels blended with Methanol		
05	Dr Hiregoudar Yerrannagoudaru	Investigation and assessment of performance and emissions of an IC engine fuelled with diesel and different bio-fuels blended with Ethanol	Volume 5, Issue 2, 2018, Pages 6238-6246 ISSN: 2214-7853	Elsevier Ltd
06	Dr Hiregoudar Yerrannagoudaru	Common rail twin cylinder diesel engine performance and emission running on Vegetable oils blended with Ethanol	Volume 5, Issue 2, 2018, Pages 6268-6278 ISSN: 2214-7853	Elsevier Ltd
07	Dr Hiregoudar Yerrannagoudaru	Experimental study on performance and emissions of a turbocharged diesel engine fuelled with diesel and Vegetable oils blended with Ethanol	Volume 5, Issue 2, 2018, Pages 6288-6296 ISSN: 2214-7853	Elsevier Ltd
08	Dr. Shiva Kumar Modi	Investigation of Distinct Divergent Angled Diffusers Using Hexahedral Dominant Grid	Volume 9, Issue 4, April 2018, pp. 886-894, Article ID: IJMET_09_04_101	International Journal of Mechanical Engineering and Technology (IJMET)
09	Dr. Manjunatha K	Analysis and comparison of performance and emissions of compression ignition engine fuelled with diesel and different bio-fuels blended with Methanol	Volume 5, Issue 2, 2018, Pages 5175-5185 ISSN: 2214-7853	Elsevier Ltd
10	Dr. Manjunatha K	Performance And Emission Characteristic of A Multicylinder DI Diesel Engine running On Diesel And Biofuels blended with Methanol	Volume 5, Issue 2, 2018, Pages 3325-3333 ISSN: 2214-7853	Elsevier Ltd
11	Dr. Manjunatha K	Investigation and assessment of performance and emissions of an IC engine fuelled with diesel and different	Volume 5, Issue 2, 2018, Pages 6238-6246 ISSN: 2214-7853	Elsevier Ltd



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13	Dr. Manjunatha K	Experimental study on performance and emissions of a turbocharged diesel engine fueled with diesel and Vegetable oils blended with Ethanol	Volume 5, Issue 2, 2018, Pages 6288-6296 ISSN: 2214-7853	Elsevier Ltd
14	Vaddin Chetan	Investigation of Distinct Divergent Angled Diffusers Using Hexahedral Dominant Grid	Volume 9, Issue 4, April 2018, pp. 886–894, Article ID: IJMET_09_04_101	International Journal of Mechanical Engineering and Technology (IJMET)
15	Vittal Rao Chavan	Influence of post curing on GFRP hybrid composites	144, 02011 (2018) https://doi.org/10.1051/mateconf/201814402011	MATEC Web of conferences
16	G Manjunath Swamy	Fabrication of Manual Indexing valve for Controlling Four Actuators	Volume-8 Issue-5, June 2019, ISSN: 2249-8958	International Journal of Engineering and Advanced Technology (IJEAT)
17	Kotresh Sardar	Digital Manufacturing of Dental Implants Using Computer Aided Engineering and Fused Deposition Method	Vol.8, Iss.4, Aug2018, pp. 873-879, ISSN: 2249-6890	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
2019-20				
01	Dr Hiregoudar Yerrannagoudaru	Production of Biofuels and Performance and Emission characteristics of Biofuels and Diesel in Four stroke Single	(ISSN-2349-5162)	© 2019 JETIR June 2019, Volume 6, Issue 6



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		Cylinder Diesel Engine		
02	M. R. Indudhar	Effects of single and split injection on the performance, emission and combustion attributes of a CRDI engine powered with diesel and honge biodiesel	3,2,PP, 2275-2286.9 June 2019 DOI: 10.1039/c9se00076c	Sustainable Energy & Fuels. [Royal Society of Chemistry]
03	M. R. Indudhar	Effects of Combustion Vestibule Configuration on the Competence, Emissions and Combustion attributes of Direct Injection Diesel Prime Mover Powered with Diesel and Corn Oil MethylEster (CROME)	DOI.org/10.29333/ejosdr/5831. 3,4,em0095 PP, 1-19,29 June 2019 ISSN-2542-4742 Directory Of Open Access Journals	European Journal of Sustainable Development Research
04	M Balaji	Thermal conductivity & thermal expansion behaviour of hot extruded hybrid composites of Al6061/Sic/Gr	Volume-8 Issue-4, November 2019, ISSN: 2277-3878	International Journal of Recent Technology and Engineering
05	M Balaji	Effect of Extrusion Ratio & Extrusion Temperature on Mechanical Properties of Hot Extruded Hybrid Composites of Al6061/Sic/Graphite	Volume-8 Issue-11, September 2019	International Journal of Innovative Technology and Exploring Engineering



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06	Dr. C Thotappa	Effective Management of organizations using PEMS Model	Volume 83, Issue 7, pp.9110-9115-586, March-April. 2020, ISSN 0193-4120	International Journal of TEST Engineering & Management
07	Shivamanappa G Desai	Analysis of a new single degree-of-freedom eight link leg mechanism for walking machine	Mechanism and Machine Theory, pp 747-764, Elsevier publisher. https://doi.org/10.1016/j.mechmachtheory.2019.06.002	Mechanism and Machine Theory, pp 747-764, Elsevier publisher.
08	Dr. Manjunatha K	Production of Biofuels and Performance and Emission characteristics of Biofuels and Diesel in Four stroke Single Cylinder Diesel Engine	(ISSN-2349-5162)	© 2019 JETIR June 2019, Volume 6, Issue 6
09	Virupaksha Gouda H	Process Optimization and Influence of Micro Structural Characterization by Friction Stir Welding of Various Materials	Volume-9 Issue-2, December, 2019. DOI: 10.35940/ijeat.B3487.129219, ISSN: 2249 – 8958	International Journal of Engineering and Advanced Technology (IJEAT)



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10	G Manjunath Swamy	Development and Testing of Hydraulic 'Bharath Valve' to Control Multiple Actuators	Volume-9 Issue-2, December, 2019, ISSN: 2249 – 8958	International Journal of Engineering and Advanced Technology (IJEAT)
11	K C Mahendra	Process Optimization and Influence of Micro Structural Characterization by Friction Stir Welding of Various Materials	Volume-9 Issue-2, December, 2019. DOI: 10.35940/ijeat.B3487.129219, ISSN: 2249 – 8958	International Journal of Engineering and Advanced Technology (IJEAT)
2020-21				
1	Dr Veerabhadrappa Algur	Investigation on mechanical and Microstructural characteristics of Zn alloy MMC for bearing application	https://doi.org/10.1016/j.matpr.2021.05.058 2214-7853/ 2021 Elsevier Ltd	https://doi.org/10.1016/j.matpr.2021.05.058 2214-7853/ 2021 Elsevier Ltd open access article under the CC BY license (http://creativecommons.org/licenses/by/4.0/)
2	Dr. Kori Nagaraj	Microstructural evolution and mechanical characterization of micro Al₂O₃ particles reinforced Al6061 alloy metal composites	https://doi.org/10.1016/j.matpr.2021.04.500 2214-7853/ 2021 Elsevier Ltd.	https://doi.org/10.1016/j.matpr.2021.04.500 2214-7853/ 2021 Elsevier Ltd. All rights reserved. Selection and peer-review under responsibility of the scientific committee of the



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				Technology Innovation in Mechanical Engineering-2021.
3	Dr. Kori Nagaraj	Review of Passive Cooling Methods for Buildings	1473 (2020) 012054 doi:10.1088/1742-6596/1473/1/012054	International Journal of Physics
4	Dr. Kori Nagaraj	Influence of Al₂O₃ and B₄C Dual Particles Addition on the Mechanical Characterization of Al6061 Alloy Hybrid Metal Composites for Automotive Applications	13(5), 1-8. doi:10.4273/ijvss.13.5.14.	International Journal of Vehicle Structures & Systems (Accepted for Publication)
5	Chandru B. G	Effect of Reinforcement on Microstructure and Wear Properties of Al7475/Nbc Metal Matrix Composites	Available at SSRN: https://ssrn.com/abstract=3857204 15 May 2021, Volume 1, Issue 2 Journal of Scholastic Engineering Science and Management May 2021, Volume 1, Issue 2 pp: 15-26,	Available at SSRN: https://ssrn.com/abstract=3857204 15 May 2021, Volume 1, Issue 2 Journal of Scholastic Engineering Science and Management May 2021, Volume 1, Issue 2 pp: 15-26,
6	Dr. Jagdish S.P,	Evaluation Of Mechanical, Biodegradable & Microstructure Analysis of Epoxy-Based Glass, Carbon and Jute Fiber Reinforced BioComposites Used as Orthopedic Implants [Human Bone]	Available at SSRN: https://ssrn.com/abstract=3882878 32 June 2021, Volume 1, Issue 3 Journal of Scholastic Engineering Science and Management June 2021, Volume 1, Issue 3, pp: 32-47	Available at SSRN: https://ssrn.com/abstract=3882878 32 June 2021, Volume 1, Issue 3 Journal of Scholastic Engineering Science and Management June 2021, Volume 1, Issue 3, pp: 32-47



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7	Chandru B. G	Effect of Reinforcement on Mechanical and Wear of Al7475/MoS2 Metal Matrix Composites	Available at SSRN: https://ssrn.com/abstract=3882869 1 June 2021, Volume 1, Issue 3 Journal of Scholastic Engineering Science and Management June 2021, Volume 1, Issue 3, pp:1-18	Available at SSRN: https://ssrn.com/abstract=3882869 1 June 2021, Volume 1, Issue 3 Journal of Scholastic Engineering Science and Management June 2021, Volume 1, Issue 3, pp:1-18
8	Dr. Shiva Kumar Modi	Review of Passive Cooling Methods for Buildings	1473 (2020) 012054 doi:10.1088/1742-6596/1473/1/012054	International Journal of Physics
9	Dr. Manjunatha K	Investigation of effect of ceramic material over which platinum coated	https://www.sciencedirect.com/science/article/pii/S22147853210365312021 Elsevier Ltd.30-10-2021, 10:35 am	https://www.sciencedirect.com/science/article/pii/S22147853210365312021 2021,30-10-2021, Elsevier Ltd
10	Dr. Manjunatha K	Effect of Gas Blockage on the Theoretical Performance of Thermoacoustic Refrigerators	International Journal of Air-Conditioning and Refrigeration Vol. 29, No. 3 (2021) 2150026 (16 pages) © World Scientific Publishing Company DOI: 10.1142/S2010132521500267 Received 25 March 2021 Accepted 19 July 2021 Published 6 October 2021	International Journal of Air-Conditioning and Refrigeration.



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11	Vaddin Chetan	Review of Passive Cooling Methods for Buildings	1473 (2020) 012054 doi:10.1088/1742-6596/1473/1/012054	International Journal of Physics
12	V. Balaraj	Microstructural evolution and mechanical characterization of micro Al₂O₃ particles reinforced Al6061 alloy metal composites	https://doi.org/10.1016/j.matpr.2021.04.500 2214-7853/ 2021 Elsevier Ltd.	https://doi.org/10.1016/j.matpr.2021.04.500 2214-7853/ 2021 Elsevier Ltd. All rights reserved. Selection and peer-review under responsibility of the scientific committee of the Technology Innovation in Mechanical Engineering-2021.
13	Balaraj V	Influence of Al₂O₃ and B₄C Dual Particles Addition on the Mechanical Characterization of Al6061 Alloy Hybrid Metal Composites for Automotive Applications	13(5), 1-8. doi:10.4273/ijvss.13.5.14.	International Journal of Vehicle Structures & Systems (Accepted for Publication)
14	K G Prakash	Investigation of Effect of Ceramic Material over which Platinum coated Piston Crown and Alcohols Mixed with Vegetable oils and its Performance Evaluation in Twin Cylinder CRDI Diesel Engine	Materials Today: Proceedings, Volume 47, Part 10, https://doi.org/10.1016/j.matpr.2021.05.077	Elsevier Ltd.
15	R H M Somanath Swamy	Performance of CI Engine Using Swirl Type Retrofit	R H M Somanath Swamy et al 2021 J. Phys.: Conf. Ser. 2054 012011, doi:10.1088/1742-	Journal of Physics: Conference Series



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			6596/2054/1/012011	
16	Dr Hiregoudar Yerrannagoudaru	Performance of CI Engine Using Swirl Type Retrofit	R H M Somanath Swamy et al 2021 J. Phys.: Conf. Ser. 2054 012011, doi:10.1088/1742-6596/2054/1/012011	Journal of Physics: Conference Series
17	Mahesh G	Performance of CI Engine Using Swirl Type Retrofit	R H M Somanath Swamy et al 2021 J. Phys.: Conf. Ser. 2054 012011, doi:10.1088/1742-6596/2054/1/012011	Journal of Physics: Conference Series
18	Mahesh G	Emission characteristics of modified inlet poppet valve	G Mahesh et al 2021 J. Phys.: Conf. Ser. 2054 012009 doi:10.1088/1742-6596/2054/1/012009	Journal of Physics: Conference Series
19	R H M Somanath Swamy	Emission characteristics of modified inlet poppet valve	G Mahesh et al 2021 J. Phys.: Conf. Ser. 2054 012009 doi:10.1088/1742-6596/2054/1/012009	Journal of Physics: Conference Series
20	Dr Hiregoudar Yerrannagoudaru	Emission characteristics of modified inlet poppet valve	G Mahesh et al 2021 J. Phys.: Conf. Ser. 2054 012009 doi:10.1088/1742-6596/2054/1/012009	Journal of Physics: Conference Series
21	Virupaksha Gouda H	Investigations of Tensile Properties of Modified Epoxy-Based Composites Reinforced with Kenaf/Hemp Fibers for	IOP Conf Series: Materials Science and Engineering, DOI:10.1088/1757-	IOP Conf Series: Materials Science and Engineering



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		Orthopaedic Implants	899X/988/1/012127, ISSN: 1757-899X	
22	Virupaksha Gouda H	Experimental Investigation on Compression and Bending Properties of Epoxy Composites Reinforced with Al₂O₃, Kenaf/Hemp Fibers for Orthopaedic Implants	IOP Conf Series: Materials Science and Engineering, DOI:10.1088/1757-899X/988/1/012127 ISSN: 1757-899X	IOP Conf Series: Materials Science and Engineering,
2021-22				
01	Veerabhadrappa Algur	Machine Learning Algorithms to Predict Wear Behavior of Modified ZA-27 Alloy Under Varying Operating Parameters.	Journal of Bio- and Tribo-Corrosion, Springer, 7(8)	Journal of Bio- and Tribo-Corrosion, Springer Ltd.
02	Dr. C Thotappa	Optimization of Wire Cut Electric Discharge Machining Characteristics of Hybrid Aluminium Composites (Al6061/Gr/SiCp) Using Taguchi Method	Lecture Notes in Mechanical Engineering, pp : 49-60	Springer Singapore
03	M R Indudhar	Optimization of Piston Grooves, Bridges on Cylinder Head and Inlet Valve Masking of Home Fueled Diesel Engine by Response Surface Methodology	Vol 13, Issue 20, 11411	Sustainability
04	K C Mahindra	Experimental investigation on compression and bending properties of epoxy composites reinforced with Al₂O₃, kenaf/hemp fibers for orthopaedic implants	IOP Conference Series: Materials Science and Engineering, Volume 988, Issue 1, pp. 012001 (2020).	IOP Conference Series: Materials Science and Engineering



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05	R H M Somanath Swamy	Development and structural analysis on longeron cross sectional area in a flat stiffened panel with a broken central longeron	MaterialsToday Proceedings, DOI: 10.1016/j.matpr.2021.10.076	Elsevier Ltd.
06	Veerabhadrappa Algur	Optimization of Wire Cut Electric Discharge Machining Characteristics of Hybrid Aluminium Composites (Al6061/Gr/SiCp) Using Taguchi Method	Lecture Notes in Mechanical Engineering, pp : 49-60	Springer Singapore

Consolidated Report

Sl. No.	Year Wise	No. of Publications
01	2021-22	06
02	2020-21	22
03	2019-20	11
04	2018-19	17
05	2017-18	16
Total:		72