



VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE

Near Ramoji Film City, Deshmukhi (V), Yadadri Bhuvanagiri Dist., Telangana - 508 284.

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Department of Mechanical Engineering
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Title of paper	Name of the author/s	Name of journal	ISSN number
Fabrication and Testing of Hybrid Laminate reinforced with Natural Fibre	K Vijaykumar 1, G Nagesh1 and V Gurushanker1	IOP Conference Series: Materials Science and Engineering	1757-899X
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Fabrication and Testing of Hybrid Laminate reinforced with Natural Fibre	K Vijaykumar1, G Nagesh1 and V Gurushanker 1	IOP Conference Series: Materials Science and Engineering	1757-899X
Effect of Post-mixing Vacuum Degassing time of MWCNT/Epoxy Mixture and MWCNT Content on the Flexural Behaviour of MWCNT Filled Glass/Epoxy Composite	Sarat Chandra Mohanty 1, Anup Kumar Jana1, Ranjith Kumar Rachakonda1, Gummadi Manoj Kumar1 and A S N S R Teja	IOP Conference Series: Materials Science and Engineering	1757-899X
Effect of Post-mixing Vacuum Degassing time of MWCNT/Epoxy Mixture and MWCNT Content on the Flexural Behaviour of MWCNT Filled Glass/Epoxy Composite	Sarat Chandra Mohanty1, Anup Kumar Jana 1, Ranjith Kumar Rachakonda1, Gummadi Manoj Kumar1 and A S N S R Teja	IOP Conference Series: Materials Science and Engineering	1757-899X
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An Experimental Study on Mechanical Properties of SiC and Short Basalt Fiber Reinforced Aluminium Alloy LM 25Composite	Mahadevappa ¹ , Shivakumar ² , Rasala Krishna and PothugantiSuresh	IOP Conference Series: Materials Science and Engineering	1757-899X
Manufacturing and Characterization of Epoxy Matrix Hybrid Nanocomposite	K Chandra Shekar ¹ , B Anjaneya Prasad ² and N Eswara Prasad	IOP Conference Series: Materials Science and Engineering	1757-899X
Effect of Span Length on Flexural Strength of Glass Fiber Reinforced Polymer Matrix Composite	A Venkatram Reddy ¹ , K Chandra Shekar ¹ , B Singaravel ¹ , N C Vishnu Tapan ¹ and I Rajasri	IOP Conference Series: Materials Science and Engineering	1757-899X
Effect of Span Length on Flexural Strength of Glass Fiber Reinforced Polymer Matrix Composite	A Venkatram Reddy ¹ , K Chandra Shekar ¹ , B Singaravel ¹ , N C Vishnu Tapan ¹ and I Rajasri	IOP Conference Series: Materials Science and Engineering	1757-899X
Effect of Span Length on Flexural Strength of Glass Fiber Reinforced Polymer Matrix Composite	A Venkatram Reddy ¹ , K Chandra Shekar ¹ , B Singaravel ¹ , N C Vishnu Tapan ¹ and I Rajasri	IOP Conference Series: Materials Science and Engineering	1757-899X
Synthesis of Carbon from Tea Powder Waste for Development of Polymer Nanocomposites	M Radhika ^{1,2} , B Anjaneya Prasad ² , Suresh Akella ³ and Deepa Kodali	IOP Conference Series: Materials Science and Engineering	1757-899X
Combustion Synthesized Ceria Powder and its Characterization	Eshwaraiah Ravula ¹ , Manojkumar Gummadi ² , Rohit reddy Dyapa ² , Yashwanth reddy adumala ² and M Radhika	IOP Conference Series: Materials Science and Engineering	1757-899X
Combustion Synthesized Ceria Powder and its Characterization	Eshwaraiah Ravula ¹ , Manojkumar Gummadi ² , Rohit reddy Dyapa ² , Yashwanth reddy adumala ² and M Radhika	IOP Conference Series: Materials Science and Engineering	1757-899X
Tensile Behaviour of Jute and Bamboo Fiber	S Surappa ¹ , K Chandra	IOP Conference	1757-899X



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Reinforced Polymer Matrix Hybrid Composites	Shekar1, Shiva Kumar1 and M Radhika	Series: Materials Science and Engineering	
Tensile Behaviour of Jute and Bamboo Fiber Reinforced Polymer Matrix Hybrid Composites	S Surappa1, K Chandra Shekar1 , Shiva Kumar1 and M Radhika	IOP Conference Series: Materials Science and Engineering	1757-899X
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Tensile Behaviour of Jute and Bamboo Fiber Reinforced Polymer Matrix Hybrid Composites	S Surappa1, K Chandra Shekar1, Shiva Kumar1 and M Radhika	IOP Conference Series: Materials Science and Engineering	1757-899X
Flexural and Inter- Laminar Shear Strength of Glass/Carbon Fabric Reinforced Composite	P Madhavi1 , K Chandra Shekar1, K Poojith1, P Sai Kumar1, P Usman Khan1 and P Leela Gowtham	IOP Conference Series: Materials Science and Engineering	1757-899X
Flexural and Inter- Laminar Shear Strength of Glass/Carbon Fabric Reinforced Composite	P Madhavi1, K Chandra Shekar1 , K Poojith1, P Sai Kumar1, P Usman Khan1 and P Leela Gowtham	IOP Conference Series: Materials Science and Engineering	1757-899X
Modeling of two link manipulator used for 3D printing	K Navaneetha1 , B Anjaneya Prasad2, M Bhargavi1 and B Singaravel	IOP Conference Series: Materials Science and Engineering	1757-899X
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	Singaravel	Science and Engineering	
Stress Distribution on Turbine Blade along with Root at Several Operating Speeds	P. Sadanandam ¹ , P. Srinivas Reddy ² and Vijaya Sarathi Timmapuram	IOP Conference Series: Materials Science and Engineering	1757-899X
Numerical and structural investigation of flow past a helical axis wind turbine	V Guru Shanker ¹ , M Bhargavi ¹ , M Ashok ¹ , R Ranjith Kumar ¹ and Anup kumar Jana	IOP Conference Series: Materials Science and Engineering	1757-899X
Numerical and structural investigation of flow past a helical axis wind turbine	V Guru Shanker ¹ , M Bhargavi ¹ , M Ashok ¹ , R Ranjith Kumar ¹ and Anup kumar Jana	IOP Conference Series: Materials Science and Engineering	1757-899X
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Study of CI engine performance characteristics by using hibiscus cannabinus biodiesel and its blends	Shivakumar ¹ , Mahadevappa ² , S Surappa ¹ , V Guru shanker ¹ and Eshwaraiah Ravula	IOP Conference Series: Materials Science and Engineering	1757-899X
Study of CI engine performance characteristics by using hibiscus cannabinus biodiesel and its blends	Shivakumar ¹ , Mahadevappa ² , S Surappa ¹ , V Guru shanker ¹ and Eshwaraiah Ravula	IOP Conference Series: Materials Science and	1757-899X



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		Engineering	
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Flow Visualization of Golf Ball in Subsonic Incompressible Flow Regime	M Bhargavi1 , K Navaneetha1 and V Guru shanker	IOP Conference Series: Materials Science and Engineering	1757-899X
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Performance & Emission Characteristics of Diesel Engine fueled with Bio-Diesel along with Additives (NM, MTBE)	Eshwaraiah Ravula1 , Cherku Saikumar1, Bonakurthi Mahender1, Bachewale Adarsh1, S Vijayaraj2 and Shiva kumar	IOP Conference Series: Materials Science and Engineering	1757-899X
Performance & Emission Characteristics of Diesel Engine fueled with Bio-Diesel along with Additives (NM, MTBE)	Eshwaraiah Ravula1, Cherku Saikumar1, Bonakurthi Mahender1, Bachewale Adarsh1, S Vijayaraj2 and Shiva kumar	IOP Conference Series: Materials Science and Engineering	1757-899X
Performance Analysis of a Conventional and Renewable Energy based Electric Power Generation Systems – A Comparative LCA Study	N Leela Prasad1 , P Usha Sri2, K Vizayakumar3 and R Srikanth	IOP Conference Series: Materials Science and Engineering	1757-899X



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Investigation and analysis of EDM process – a new approach with Al ₂ O ₃ nano powder mixed in sunflower oil	K Mangapathi Rao ^{1,2} , D Vinaykumar ² , K Chandra Shekar ¹ and Rachakonda Ranjith Kumar	IOP Conference Series: Materials Science and Engineering	1757-899X
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Optimizing process parameters of die sinking EDM in AISI D2 steel by using TOPSIS using EDM oil as dielectric	Rachakonda Ranjith Kumar ¹ , Anup Kumar Jana ¹ , Sarat Chandra Mohanty ¹ , K Mangapathi Rao ^{1,2} , V. Guru Shanker ¹ and D Rohit Reddy	IOP Conference Series: Materials Science and Engineering	1757-899X
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Investigation of Mechanical Properties on Non-Ferrous alloys of Copper and Brass Joints made by Friction Stir Welding	G Nagesh ¹ , K Nageswara Rao ² , K Kanishk ¹ , K M Anurag ¹ and N Abhinav	IOP Conference Series: Materials Science and Engineering	1757-899X
Analysis and optimization of circularity error in drilling Process using statistical technique	N Venkateshwarlu ¹ , B Singaravel ¹ , K Chandra Shekar ¹ and S Deva Prasad	IOP Conference Series: Materials Science and Engineering	1757-899X



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Optimization of process parameters in Electric Discharge Machining Process of Ti-6Al-4V alloy using hybrid Taguchi based MOORA method	R Srikanth1 , B Singaravel1, P Vinod1, S Aravind2 and D Subodh	IOP Conference Series: Materials Science and Engineering	1757-899X
Optimization of process parameters in Electric Discharge Machining Process of Ti-6Al-4V alloy using hybrid Taguchi based MOORA method	R Srikanth1, B Singaravel1 , P Vinod1, S Aravind2 and D Subodh	IOP Conference Series: Materials Science and Engineering	1757-899X
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Cylindrical grinding - experimental investigation and Taguchi study of process parameters on EN31 and mild steel	S. Deva Prasad1 , S. Vishai2, P. Vishwa Sai2, K. Bhargav2 and K. Rohith2	IOP Conference Series: Materials Science and Engineering	1757-899X
Analysis of hole quality errors in drilling of GFRP composite	B Singaravel1 , M Radhika1, M Mohammed Asif2 and Kathhi Palaksha Reddy	IOP Conference Series: Materials Science and	1757-899X



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Analysis of hole quality errors in drilling of GFRP composite	B Singaravel1, M Radhika 1, M Mohammed Asif2 and Kathhi Palaksha Reddy	IOP Conference Series: Materials Science and Engineering	1757-899X
Experimental investigation of different cutting conditions in turning of Inconel 718	Ch Divya 1,2, L Suvarna Raju2 and B Singaravel2	IOP Conference Series: Materials Science and Engineering	1757-899X
Experimental investigation of different cutting conditions in turning of Inconel 718	Ch Divya1,2, L Suvarna Raju2 and B Singaravel 2	IOP Conference Series: Materials Science and Engineering	1757-899X
Integrated Fuzzy Criteria Evaluation with Metaheuristic Optimization for Green Supplier Selection and Order Allocation	T Niranjan.1, B. Singaravel 2 and S. Srinivasulu Raju3	IOP Conference Series: Materials Science and Engineering	1757-899X
Investigation of powder mixed electrical discharge machining and process parameters optimization using Taguchi based overall evaluation criteria	M- Ashok 1, T. Niranjan2, S. Chokalingam3 and B. Singaravel	IOP Conference Series: Materials Science and Engineering	1757-899X
Investigation of powder mixed electrical discharge machining and process parameters optimization using Taguchi based overall evaluation criteria	M- Ashok1, T. Niranjan2, S. Chokalingam3 and B. Singaravel	IOP Conference Series: Materials Science and Engineering	1757-899X
Aluminium metal matrix composites and effect of reinforcements – A Review	Ch. Saikrupa 1,2, G Chandra Mohan Reddy3 and Sriram Venkatesh	IOP Conference Series: Materials Science and Engineering	1757-899X
Mode-I fracture toughness of glass/carbon fiber reinforced epoxy matrix polymer composite	K. Chandra Shekar, B. Singaravel, S.Deva Prasad, N.Venkateshwarlu, B. Srikanth	Materials Today: Proceedings	ISSN: 2214-7853



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Performance Analysis of wire EDM process on aerospace materials	V Guru Shanker, K. Shiva shankar, G Yadagiri, B Pavan chandu, Shiva kumar	AIP Conference Proceedings	1551-7616
An Experimental Study on Mechanical Properties of sic and Short Basalt Fiber Reinforced Aluminium Alloy LM 25Composite	Mahadevappa, Shivakumar, Rasala Krishna, PothugantiSuresh	AIP Conference Proceedings	1551-7616
Degree of In-Plane Anisotropy (DIPA) of the Tensile Properties of a Forged Plate of the Commercial Aluminium Alloy AA2014 and its Technological Implications	G. Narender · K. Chandra Shekar · S. Rangaswamy Reddy · E. Ramjee · N. Eswara Prasad	Transactions of the Indian National Academy of Engineering	2662-5423
Experimental investigation on solid lubricant supply methodology in turning process	Ch. Divya, L. Suvarna Raju & B. Singaravel	Materials and Manufacturing Processes	1532-2475
Performance analysis of micro textured cutting insert design parameters on machining of Al-MMC in turning process.	Devaraj S, Malkapuram R and Singaravel B	International Journal of Lightweight Materials and Manufacture	2588-8404
Anisotropy Study of Inconel 718 alloy at Sub-Zero temperatures	Jayahari L, Nagachary K, Sharath C.C. and Hussaini. S.M.	In E3S Web of Conferences	2267-1242
Application of cryogenically treated electrode for enhancement of process outcomes during sustainable electric discharge machining	K.Mangapathi Rao, D.Vinay Kumar, B.Singaravel	International Journal of Modern Manufacturing Technologies	ISSN: 2067-3604
state of the art in green dielectric fluid for sustainable electrical discharge machining	K.Mangapathi Rao, D.Vinay Kumar and B.Singaravel	Journal of critical reviews	ISSN: 2394-5125
Effect of various solid lubricants on surface quality in	Ch. Divya,	Journal of Mechanics	ISSN : 0973-



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turning of inconel 718	L. Suvarna Rajua and B. Singaravel	of continua and Mathematical Sciences	8975
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