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Journal Publications Details

Sl. No.	Paper title	Author(s)	Name, volume number of Journal, and year of publication.	Page No.	
				From	To
1	Design and Analysis of a Novel Hybrid Car Bumper Using Non-Newtonian Fluid and High-Density Polyethylene	K. Praveen Jerish, J. Rakesh Kumar, R. Ramakrishnan, and K. S. Vijay Sekar	Lecture Notes in Mechanical Engineering, Vol: Trends in Mechanical and Bio medical design, 2020	949	958
2	Experimental Investigations on Orthogonal Turning of Inconel 718 with TiAlN Coated Tool	K. Gobivel, K. S. Vijay Sekar , G. Prabhakaran, R. Sugun Elankavi	Materials Science Forum, Vol. 979, 2019	142	148
3	Investigation of friction models in the machining of Inconel 625 Super Alloy using FEM	K. S. Manoranjan, V. Harish Narayanan, T. Manoj Kumar, R. Ashwin and K. S. Vijay Sekar ,	IOP Conf. Series: Materials Science and Engineering , 2019	577	586
4	Influence of Friction Coefficient & Failure Models in 3D FEA Simulation of Drilling of Glass Fiber Reinforced Polymer Composites	Prakash C and Vijay Sekar K.S	Lecture Notes in Mechanical Engineering, Vol: Advances in Manufacturing Processes, 2018 ISSN: 2195-4356	81	90

5	Finite Element Analysis of High Speed Machining of CFRP Material,	K. Gobivel , K. S. Vijay Sekar , G.Prabhakaran	Lecture Notes in Mechanical Engineering, Vol: Advances in Materials and Metallurgy, 2018 ISSN: 2195-4356	137	147
6	3D Finite Element Analysis of Slot Milling of Unidirectional Glass Fiber Reinforced Polymer Composites	Prakash C and Vijay Sekar K.S	Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol.40. 2018. ISSN: 1678-5878	279	291
7	A Review of Finite Element Analysis in Machining processes,	Ajay Subramanyam BV and Vijay Sekar K S	Advanced Science, Engineering and Medicine, Vol. 10 (3), 2018 ISSN:2164-6627	255	258
8	3D Finite Element Analysis of Drilling of Glass Fiber Reinforced Polymer Composites	Prakash C and Vijay Sekar K.S	Advanced Science, Engineering and Medicine, Vol. 10(3), 2018 ISSN:2164-6627	308	312
9	3D Finite Element Analysis of Slot Milling of Carbon Fiber Reinforced Polymer Composite	Prakash C and Vijay Sekar K.S	The Journal of the Balkan Tribological association, Vol.23:3, 2017 ISSN: 1310-4772	497	514
10	Impact of Cutting forces and Chip microstructure in High Speed Machining of Carbon fiber – Epoxy composite tube,	Y. Allwin Roy, K. Gobivel , K. S. Vijay Sekar ,S. Suresh Kumar	Archives of Metallurgy and Materials, Vol.62 (3), 2017 ISSN: 1733 - 3490	1771	1777
11	Finite Element Simulation of Machining of an Aerospace alloy,	Seshadri R, Naveen I, Sharan Srinivasan, Viswasubrahmanyam M, Vijay Sekar K S , Pradeep Kumar M	World Journal of Modelling and Simulation, Vol. 13 (2017) No. 4 ISSN: 1746-7233	268	277

12	Finite Element Analysis of Tool Particle Interaction, Particle Volume Fraction, Size, Shape and Distribution in Machining of A356/SiCp,	Y J Nithiya Sandhiya, Thamizharasan M M, Ajay Subramanyam B V, K S Vijay Sekar , S Suresh Kumar	Materials Today (Proceedings), Vol.5, 2017 ISSN: 2214-7853	1680 0	1680 6
13	Experimental Investigation and Finite Element Analysis of Milling of Ti-6Al-4V Titanium Alloy by Studying Cutting Forces and Chip Microstructure,	Shivaram PR, Sushinder K, Nivedh Kannaa SB , Nisarg Gupta, and Vijay Sekar KS	Applied Mechanics and Materials , Vol. 852, 2016 ISSN: 1662-7482	311	316
14	Finite element modelling of orthogonal cryogenic machining process	Sriram S, Vignesh V, Vijay Sekar K S , Pradeep Kumar M	Applied Mechanics and Materials , Vol. 852, 2016 ISSN: 1662-7482	248	254
15	Finite element analysis of the effect of cutting speed on the orthogonal turning of A359/SiCp MMC	Thamizharasan. M. M., Nithiya Sandhiya. Y. J., Vijay Sekar. K. S. and Bhanu Prasad. V. V	Applied Mechanics and Materials , Vol. 852, 2016 ISSN: 1662-7482	304	310
16	Review of composite machining and related optimization techniques	MM Thamizharasan, Nithiya Sandhiya YJ and K.S.Vijay Sekar	Applied Mechanics and Materials , Vols. 813-814, 2015 ISSN: 1662-7482	398	403
17	Performance Evaluation of Cryogenically Treated Tungsten Carbide Insert on Face Milling of Grey Cast Iron	M Padmakumar, D Dinakaran, G Ravikumar Solomon, K.S.Vijay Sekar	Applied Mechanics and Materials , Vols. 813-814, 2015 ISSN: 1662-7482	569	574
18	Investigation of Thrust forces, Torque and Chip microstructure during Drilling of Ti-6Al-4VTitanium alloy	Sushinder K, Shivaram PR, Nivedh Kannaa SB , Nisarg Gupta and Vijay Sekar KS	Applied Mechanics and Materials , Vol. 787, 2015 ISSN: 1662-7482	431	436

19	Machinability Studies in Drilling of Inconel 718 Super alloy	Vimalesh M, Srikanth Prabhu and Vijay Sekar K.S	Applied Mechanics and Materials , Vol. 787, 2015 ISSN: 1662-7482	480	484
20	Impact of tool inserts in high speed machining of GFRP composite material	K.Anand M. V.Siddharth K.S. Vijay Sekar S. Suresh kumar	Applied Mechanics and Materials , Vol. 787, 2015 ISSN: 1662-7482	664	668
21	Sensitivity Analysis of Material Constitutive Model Parameters in Numerical Simulation of the Orthogonal Turning Process	K.S. Vijay Sekar and M. Pradeep Kumar	Advanced Materials Research, Vols. 1119, 2015 ISSN: 1022-6680	591	596
22	An investigation of the effects of fiber orientation in GFRP machining using FEM	M.V.SIDDHARTH , K.ANAND, K.S.VIJAY SEKAR, S.SURESH KUMAR	International Journal of Applied Engineering Research Vol. 10 No.51 (2015) ISSN: 0973 - 4562	622	625