

## DEPARTMENT OF AERONAUTICAL ENGINEERING

### Academic Research (10)

#### A. Paper Published by the faculty members in Referred/SCI Journal.

**Table B 5.7.1a Paper Published by the faculty members in Referred/SCI Journal during 2020-2021**

Name of the Faculty	National/ International	Title of the Paper	Journal Details	Indexing	Impact factor	Online Links
Prof. Deepa.M.S	International	Effect of stall on Blended Wing Body Aircraft	ISSN: 2278-627X (For online version) ISSN: 2319-3778 (For Printed Version)2\09\2020 Published in IJLTET Journal, Volume 17	Copernicus	0.685/1	<a href="https://www.longdom.org/open-access/effect-of-stall-on-blended-wing-body-aircraft-55335.html">https://www.longdom.org/open-access/effect-of-stall-on-blended-wing-body-aircraft-55335.html</a>
Dr. Bino Prince Raja.D	International	Influence of nanoparticles on thermal, mechanical and 3D analysis of hybrid Bamboo/glass fibre reinforced polymer composites	Transaction of Indian Institute of Metals, SPRINGER	SCI	1.49	<a href="https://link.springer.com/article/10.1007/s12666-020-02111-7">https://link.springer.com/article/10.1007/s12666-020-02111-7</a>
Dr. Bino Prince Raja.D	International	Investigating the effect of Si3 N4 Reinforcement on the morphological and mechanical behaviour of AA2219 alloy	Silicon, SPRINGER	SCI	2.4	<a href="https://link.springer.com/article/10.1007/s12633-021-01015-5">https://link.springer.com/article/10.1007/s12633-021-01015-5</a>

Dr. Bino Prince Raja.D	International	Tribological, Thermal and Corrosive Behaviour of Aluminium Alloy 2219 Reinforced by Si3N4 Nanosized Powder	Silicon, <a href="https://doi.org/10.1007/s12633-021-01214-0">https://doi.org/10.1007/s12633-021-01214-0</a> SPRINGER ISSN 1876-9918	SCI	2.4	<a href="https://www.researchgate.net/publication/350705222_Tribological_Thermal_and_Corrosive_behaviour_of_aluminium_alloy_2219_reinforced_by_Si3N4_nanosized_powder">https://www.researchgate.net/publication/350705222_Tribological_Thermal_and_Corrosive_behaviour_of_aluminium_alloy_2219_reinforced_by_Si3N4_nanosized_powder</a>
Dr. Bino Prince Raja.D	International	Mechanical Characterization of Carbon Fibre Reinforced Epoxy Polymer	SSRN eLibrary23/07/2020 ISSN 1556-5068	Google Scholar		<a href="https://papers.ssm.com/sol3/papers.cfm?abstract_id=3511411">https://papers.ssm.com/sol3/papers.cfm?abstract_id=3511411</a>
Dr. Nagesh.D	International	Optimization of Tribological Properties of Al6061, Boron and Graphite MMCs Using Taguchi Method	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	Google scholar		<a href="https://www.iosrjournals.org/iosr-jmce/papers/Conf-GET-2021/13,%2055-72.pdf">https://www.iosrjournals.org/iosr-jmce/papers/Conf-GET-2021/13,%2055-72.pdf</a>
Dr. Nagesh.D	International	Tribological characteristics of Al6061, boron, and Graphite hybrid Metal matrix composites	Taylor & Francis Advances in Materials and Processing Technologies <a href="http://doi.org/10.80/2374068X2021.1946323">http://doi.org/10.80/2374068X2021.1946323</a> 18/06/2021	SCI	1.56	<a href="https://www.tandfonline.com/doi/abs/10.1080/2374068X.2021.1946323">https://www.tandfonline.com/doi/abs/10.1080/2374068X.2021.1946323</a>

**Table B 5.7.1a Paper Published by the faculty members in Referred/SCI Journal during 2020-2021**

Name of the Faculty	National/ International	Title of the Paper	Journal Details	Indexing	Impact factor	Online Links
Prof. Deepa M. S	International	Preliminary Design of a Reverse flow annular Combustor & Experimental investigation at design & off design opening conditions	International Journal of Recent Technology and Engineering (IJRTE), ISSN 2277-3878, Vol 8, Issue 1C, May 2019	Scopus		1. <a href="https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3507372">https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3507372</a> 2. <a href="https://www.ijrte.org/wp-content/uploads/papers/v8i1C/A10440581C19.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i1C/A10440581C19.pdf</a>
Prof. Deepa M. S	International	Numerical Simulation of Rocket launch Vehicle	SSRN e library	Scopus		1. <a href="https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3507916">https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3507916</a> 2. <a href="https://ijrat.org/downloads/Vol-7/junes-2019/76S201943.pdf">https://ijrat.org/downloads/Vol-7/junes-2019/76S201943.pdf</a>
Dr. Bino Prince Raja.D	International	Influence of nanoparticles on hybrid fibre reinforced polymer composites	Materials Today: Proceedings, 24, Elsevier, pp 1498-1507, 2020	Scopus		<a href="https://link.springer.com/article/10.1007/s12666-020-02111-7">https://link.springer.com/article/10.1007/s12666-020-02111-7</a>
Dr. Bino Prince Raja.D	International	Intelligent particle swarm optimization for quality machining in advanced manufacturing process	Materials Today: Proceedings, 24, Elsevier	Scopus		<a href="https://www.sciencedirect.com/science/article/pii/S2214785320329266">https://www.sciencedirect.com/science/article/pii/S2214785320329266</a>

**Table B 5.7.1b Paper Published by the faculty members in Referred/SCI Journal during 2019-20**

Name of the Faculty	National/ International	Title of the Paper	Journal Details	Indexing	Impact factor	Online Links
Dr. Bino Prince Raja.D	International	Effect of short fibre orientation on mechanical characterization of composite material-Hybrid fibre reinforced polymer matrix	Bulletin of material science, Springer s 12034- 019-1813-5, 2019	SCI	1.39	<a href="https://www.ias.ac.in/article/fulltext/boms/042/03/0111">https://www.ias.ac.in/article/fulltext/boms/042/03/0111</a>
Dr. Bino Prince Raja.D	International	Computational Analysis of Blended Winglet model performance by varying Cant Angle	Journal of Computational and Theoretical Science Vol 8, 2277-3878 May 2019	Scopus		<a href="https://www.researchgate.net/publication/332293001_Computational_Analysis_of_Blended_Winglet_Model_Performance_by_Varying_Cant_Angle">https://www.researchgate.net/publication/332293001_Computational_Analysis_of_Blended_Winglet_Model_Performance_by_Varying_Cant_Angle</a>
Dr. Bino Prince Raja.D	International	Prediction of responses in FSW Processed Hybrid Composites using soft computing Technique	Journal of Computational and Theoretical Science	Scopus		<a href="https://www.ingentaconnect.com/contentone/asp/jctn/2019/0000016/00000002/art00026">https://www.ingentaconnect.com/contentone/asp/jctn/2019/0000016/00000002/art00026</a>
Dr. Bino Prince Raja.D	International	Stress analysis of AL2014-T6 rivetted splice joint fuselage structure using finite element analysis”	IOP Conf. Series: Material science and Engineering, Vol.455, Issue 012138, pp. 1-8, December 2018	Scopus		<a href="https://www.researchgate.net/publication/329793373_Stress_analysis_of_AL2014-T6_riveted_splice_joint_fuselage_structure_using_finite_element_analysis">https://www.researchgate.net/publication/329793373_Stress_analysis_of_AL2014-T6_riveted_splice_joint_fuselage_structure_using_finite_element_analysis</a>
Mr. Vinay P	International	An Experimental Investigation on Hardness and Shear Behaviour of Aluminium, Silicon Carbide and Graphite Hybrid Composite with and without Cryogenic Treatment	Materials Today: Proceedings, 5, Elsevier Pp 916-921	Scopus		An Experimental Investigation on Hardness and Shear Behaviour of Aluminium, Silicon Carbide and Graphite Hybrid Composite with and without Cryogenic Treatment

Dr. Nagesh.D	International	Synthesis and Characterization of AL6061 reinforced with 2% Graphite, 2% Boron hybrid MMCS using Stir and centrifugal casting technique	International journal of mechanical and production Engineering research and development (IJMPERD)	Scopus		<a href="https://www.researchgate.net/publication/329793373_Stress_analysis_of_Al2014-T6_riveted_splice_joint_fuselage_structure_using_finite_element_analysis">https://www.researchgate.net/publication/329793373_Stress_analysis_of_Al2014-T6_riveted_splice_joint_fuselage_structure_using_finite_element_analysis</a>
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**Table B 5.7.1c Paper Published by the faculty members in Referred/SCI Journal during 2018-19**