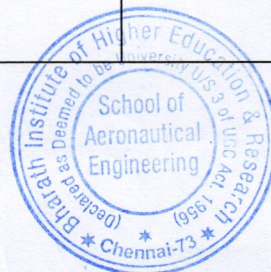




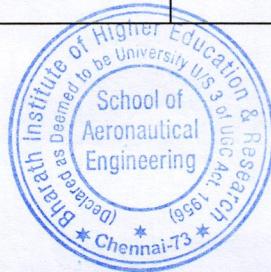
List of Faculty Publications along with DOI

Academic Year 2022-2023 (CAY)

Sl. No	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link of the recognition in UGC enlistment of the Journal	Indexing (Scopus/ ESCI/SCIE/ SCI)	Quartile (Q1/Q2/Q3/ Q4)	Publisher	Page. No
1	Air Tab location effect on supersonic jet Mixing	Mahindra Perumal, Aravind Kumar SM, Elangovan S, Sundararaj M, Radhakrisnan E	Internal Journal of Turbo & Jet Engines	Accepted	0334-0082	-	SCIE	Q2	De Gruyter	1
2	Control of supersonic Jet using Air Tabs	Mahindra Perumal, Aravind Kumar SM, Elangovan S, Sundararaj M	International Journal of Vehicle Structures and Systems	Accepted	0975-3060	-	Scopus	Q4	MAFTREE	2
3	Effect of Accelerated Cyclic Aging on the Ballistic Properties of Composite Solid Propellant	Karri Veerandra Yadav, Hamza Naseem, H. Murthy and P. A. Ramakrishna	Journal of Propulsion and Power	2024	1533-3876	https://doi.org/10.2514/1.839111	SCIE	Q2	AIAA	3
4	A project-based learning (PBL) on gas dynamic concepts using hydraulic analogy technique	Natarajan Rajamurugu	International Journal of Mechanical Engineering Education	2024	0306-4190	https://doi.org/10.1177/03064190231224339	ESCI	Q3	Sage	16
5	Effect of plate length on drag reduction of square faced bluff body	Rajamurugu N, Yaknesh S, KB Prakash, Subramaniyan C, Chandrasekaran M, Asit Mohanty, Manzoore Elahi MS	E3S Web of Conferences	2024	2267-1242	https://doi.org/10.1051/e3sconf/202448803012	Scopus	-	EDP Science	32



6	Advancements in solar updraft towers: A comprehensive review	Rajamurugu N, Yaknesh S, Subramaniyan C, KB Prakash, Asit Mohanty, M Arul	E3S Web of Conferences	2024	2267-1243	https://doi.org/10.1051/e3sconf/202448802019	Scopus	-	EDP Science	48
7	Experimental Investigation of supersonic Jet Control using Sonic Air Tabs	Mahindra Perumal, Aravind Kumar SM, Elangovan S, Sundararaj M	Indain Journal of Science and Technology	2023	0974-6846	-	ESCI	Q4	ISEE	70
8	The influence of thickness and recycled milled glass fiber fillers on the delamination resistance of polymer composite angle brackets	Dinesh Babu Venkatesan, Arumugam Vellayaraj, Suresh Kumar Chelliah	Polymer Composites	2023	1548-0569	https://doi.org/10.1002/pc.27971	SCI	Q1	Wiley	71
9	Computational Investigation of Under Expanded Solar Chimney Power Plant	C K Akhil, Rajamurugu Natarajan, S Yaknesh	Indian Journal of Science and Technology	2023	0974-6846	https://doi.org/10.17485/IJST/v16i32.293	ESCI	Q4	ISEE	85
10	Mechanical, Acoustical, and Morphological Characterization of Impact Damage on the Effect of Temperature in Hybrid Polymer Composites	Suresh Kumar Chelliah, Saravanakumar Kannivel, Arumugam Vellayaraj	Journal of Testing and Evaluation	2023	0090-3973	https://doi.org/10.1520/JTE20220581	SCI	Q2	ASTM	94
11	A Innovative Simple Lab Facility to Teach High Speed Jet Characteristics to Aerospace Engineering Students	Rajamurugu N, Elangovan S, Sundararaj M	Journal of Engineering Education Transformations	2023	2349-2473	https://doi.org/10.16920/jeet/2023/v36i4/23118	Scopus	Q3	RIT .	110
12	Tilt angle impact on strength, microstructure of friction stir welded AZ91Mg plates	S Yaknesh, P Sevel, K Sampathkumar, I John Solomon, N Rajamurugu	Materials Science and Technology	2023	0267-0836	https://doi.org/10.1080/02670836.2022.2130525	SCI	Q2	Taylor and Francis.	118



13	Effect of varying velocity ratio on thin lip co-flowing jet	Naren Shankar R, Irish Angelin S, Rajamurugu N, Yaknesh S, Bharadwaraj Y, Garva Mishra A	AIP Conference Proceedings	2023	0094-243X	https://doi.org/10.1063/5.0139360	Scopus	-	AIP	128
14	Modeling, Simulation, and Analysis Hybrid Unmanned Aerial Vehicle with C-Wing	S Praveena, P Karthikeyan, N Srirangarajulu, MK Karthik	Internet of Drones: Applications, Opportunities, and Challenges	2023	9.781E+12	https://doi.org/10.1201/9781003252085	Scopus	-	CRC Press	136
15	Effect of reinforcement phases and post-cure temperature on adhesively bonded hybrid patch repair in indented glass/epoxy composite laminates	Chinta SK, Sankar SD, Nagesh GB, Himakarthik R, Rajagopal BN, Suresh Kumar C, Sundararaj M	The Journal of Adhesion	2023	0021-8464	https://doi.org/10.1080/00218464.2023.2169145	SCIE	Q2	Taylor and Francis.	186
16	Effect of elevated temperature on indentation response of glass/epoxy laminates hybridised with milled fibres	Saravanakumar K, Suresh Kumar C, Arumugam V	International Journal of Materials Engineering Innovation	2023	1757-2754	https://doi.org/10.1504/IJMATEI.2023.128283	Scopus	Q3	Inderscience	208
17	Effect of heat treatment on the hardness behaviour of the aluminium 6061 alloy.	Prathap Singh S, Tittu George DX, Anitto Joe Xavier A, Abinicks Raja G.	Materials today Proceedings	2023	2214-7853	https://doi.org/10.1016/j.matpr.2023.02.345	Scopus	-	Elsevier	223
18	Finite Element Analysis of Uniaxial Compression Test	Hamza N., Prasanna V. S., Pavan Kumar S. S. V. D. and Giri M	Recent Advances in Materials and Manufacturing Technology	2023	978-981-99-2920-7	https://doi.org/10.1007/978-981-99-2921-4_24	Scopus	-	Springer	228



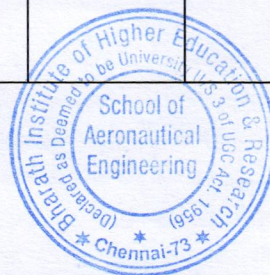
19	Experimental Investigation on the Effect of Stacking Sequence on Damage Resistance and Post-indentation Performance of Glass/Epoxy Laminates Under Different Loading Planes Using Acoustic Emission Monitoring	Bharathi AU, Arumugam V, Suresh Kumar C	Materials Research	2023	1980-5373	https://doi.org/10.1590/1980-5373-MR-2022-0325	SCIE	Q2	Universidade Federal de sao Carlos	238
20	Damage monitoring in fiber reinforced polymer composites using adaptive threshold methods and geometric features	Kotha R, Rani P, Robert F, Thomas CB, Suresh Kumar C, Jac Fredo AR	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2023	1806-3691	https://doi.org/10.1007/s40430-022-03931-y	SCIE	Q2	Springer	249
21	Optimization and Experimental Investigation on AA6082/WC Metal Matrix Composites by Abrasive Flow Machining Process	Manikandan R, Prasanth Ponnusamy, Nanthakumar S, Gowrishankar A, Balambica V, Girimurugan R and Mayakannan S	Materials Today Proceedings	2023	2214-7853	https://doi.org/10.1016/j.matpr.2023.03.274	Scopus	Q2	Elsevier	262
22	Multi-linear optimization of machining parameters of CNC turning of AA6061 alloy using GRA method	D. Raguraman, P. Balu, S. Manavalan, E. Raja	Materials Today Proceedings	2023	2214-7853	https://www.sciencedirect.com/science/article/abs/pii/S2214785323013184	Scopus	Q2	Elsevier	267



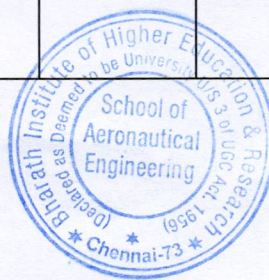
23	Hardened Enhancement Investigation of Al-Zr-N Coating by EBM Technique: A review	R Hariharan, Pati Lacha Gopal, A Abhishek, P Selva Raj, G Ashok Kumar, V Balambica	The Ciência & Engenharia - Science & Engineering Journal	2023	0103-944X	https://seer-ufu-br.online	Scopus	Q4	Universidade Federal de Uberlandia	271
24	Optimization of CMT Welding Parameters of Stellite-6 on AISI316L Alloy Using TOPSIS Method	TB Thiagarajan, D Raguraman, Sengottuvel Ponnusamy	International Journal of Integrated Engineering	2023	2229-838X	https://publisher.uthm.edu.my/ojs/index.php/ijie/article/view/9548/5665	Scopus	Q4	Penerbit UTHM	274
25	Effect of process parameters on AA6061 by friction stir welding	Raguraman D, Kiran S, Muthukumaran, K., Balu P., Raja, E.	Materials Today: Proceedings	2023	2214-7853	https://doi.org/10.1016/j.matpr.2023.03.403	Scopus	-	Elsevier	286
26	Multi-linear optimization of machining parameters of CNC turning of AA6061alloy using GRA method	D Raguraman, P Balu, S Manavalan, E Raja	Materials Today: Proceedings	2023	2214-7853	https://doi.org/10.1016/j.matpr.2023.03.271	Scopus	-	Elsevier	290
27	Optimization of spark erosion machining on synthesized boron carbide based bronze composite	D Raguraman, N Mary Jasmin, T Pravin Prabu, M Haritha Kiranmai, J Saranya, M Mamatha Gandhi, Ram Subbiah	Materials Today: Proceedings	2023	2214-7853	https://doi.org/10.1016/j.matpr.2023.08.093	Scopus	-	Elsevier	294
28	System Cursor Control Using Human Eyeball Movement	Dhanasekar J. Guru Aravindh KB, Kiren AS, Faizal Ahamath A.	IEEE xplore	2023	979-8-3503-9926-4	10.1109/ICACITE57410.2023.10182782	Scopus	-	Institute of Electrical and Electronics Engg	298



29	Parametric optimization of novel solar chimney power plant using response surface methodology	Sundararaj M, Rajamurugu N, Anbarasi J, Yaknesh S, Sathyamurthy R	Results in Engineering	2022	2590-1230	https://doi.org/10.1016/j.rineng.2022.100633	ESCI	Q2	Elsevier	301
30	Investigation of Spray and Droplet Characteristics of Spray Nozzles	D. Surekha R S K. Sunayani, V. Nithyasree A. Monisha, S. Chary and K.S. Kumar	International Journal of Vehicle Structures & Systems	2022	9753060	https://doi.org/10.4273/ijvss.14.7.16	Scopus	Q4	MAFTREE	310
31	Introduction, History, and Concept of Digital Twin	N. Rajamurugu, M. K. Karthik	Digital Twin Technology: Fundamentals and Applications	2022	978111-9842200	https://doi.org/10.1002/9781119842316.ch2	Scopus	-	Wiley	316
32	Mechanical and Microstructural Investigation on AZ91B Mg Alloys with Tool Tilt Variation by Friction Stir Welding	S. Yaknesh, Mohammed Tharwan, Rajasekaran Saminathan, N. Rajamurugu, K. B. Prakash, Ankit, Manoj Kumar Pasupathi, Atul Sarojwal, Dawit Tafesse Gebreyohannes	Advances in Materials Science and Engineering	2022	1687-8442	https://doi.org/10.1155/2022/8311413	SCIE	Q2	Hindawi	330
33	Acoustic Emission Signals Based Approach to Characterize the Failure Mechanisms in Needle-Punched Musa-Sapientum cellulosic/UPE Composites	Jack J. Kenned, C. Suresh Kumar & K. Sankaranarayananamy	Journal of Failure Analysis and Prevention	2022	1547-7029	https://doi.org/10.1007/s11668-022-01527-1	ESCI	Q2	Springer	344



34	Studies on divergent solar chimney subjected to variable collector configurations	Pedasingu Likhith Raj; Pemmasani Hemanth; Nuvvula Phani Raju; Rajamurugu N; Yaknesh. S	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2022	1556-7230	https://doi.org/10.1080/15567036.2022.2127981	SCI	Q2	Taylor and Francis.	356
35	Radiated and Chemically Reacting Unsteady MHD Non-Newtonian Blasius and Sakiadis Flow with Variable Thermal Conductivity	N. Babu, N. Rajamurugu, P. Nishanth, S. Yaknesh	International Journal of Vehicle Structures and Systems	2022	9753060	https://doi.org/10.4273/ijvss.14.4.25	Scopus	Q4	MAFTREE	380
36	A Comprehensive review on damage characterization in polymer composite laminates using acoustic emission monitoring	Karthik MK, Suresh Kumar C	Russian Journal of Nondestructive Testing	2022	1061-8309	https://doi.org/10.1134/S106183092208006X	SCIE	Q2	Springer	382
37	Study on tribological characteristics of Bio-Lubricant formed from Brassica napus oil	V Balambica, S Baskar, S Padmanabhan, Moti Lal Rinawa, Dilip S Borkar, Abhishek Sharma, M Ruban	Materials Today Proceedings	2022	2214-7853	https://doi.org/10.1016/j.matpr.2022.02.448	Scopus	-	Elsevier	399
38	Effects of Thermal Barrier Coating Using Various Dosing Levels of Aluminium Oxide Nanoadditive Fuel on Diesel in Compressed Ignition Engine	VS Shaisundaram, S Saravanakumar, V Balambica, D Sendil Kumar, M Chandrasekaran, R Muraliraja, A Muniappan	Journal of Nanomaterials	2022	1687-4110	https://doi.org/10.1016/j.matpr.2022.02.448	Scopus	Q2	Hindawi	404

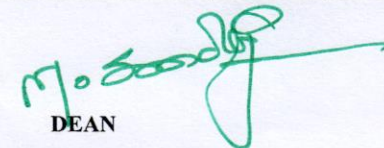


39	Optimization of Dual Coating Using Electroless Ni-P-Nano-TiO ₂ and Plasma Yttria-Stabilized Zirconia on Piston Crown and Cylinder Liner in CI Engine	Shaisundaram, V.S., Balambica V, Sendil Kumar D, Shanmugam M, Likassa D.M.	Journal of Nanomaterials	2022	1687-4111	https://doi.org/10.1155/2022/4934926	Scopus	Q2	Hindawi	418
40	Optimization and analysis of Machined surface on synthesized cobalt – Chromium composite	D.Raguraman, R.Vinoth, K.Kesavaraj, S.Sathish, M.Kalil Rahiman, R.Revathy, D.S.Naga Raju, S. Ram Subbiah	Materials Today: Proceedings	2022	2214-7853	https://doi.org/10.1016/j.matpr.2022.04.354	Scopus	-	Elsevier	434
41	Analyze the effect of abrasives in water jet Machining on strenx steel	D.Raguraman, P.Sakthivel, V.Paramasivam, L.Girisha, S.Krishnamoorthy, S.Rahul Alex, R.Subbiah	Materials Today: Proceedings	2022	2214-7853	https://doi.org/10.1016/j.matpr.2022.04.894	Scopus	Q2	Elsevier	438
42	Optimization and Evaluation of surface roughness on grinding of vanadium composite	N.Mary Jasmin, D.Raguraman, S.Sathish, P.Arun Karthick, Appana Nikhil, S.Sampath Reddy, S.Ram Subbiah	Materials Today: Proceedings	2022	2214-7853	https://doi.org/10.1016/j.matpr.2022.05.032	Scopus	-	Elsevier	442



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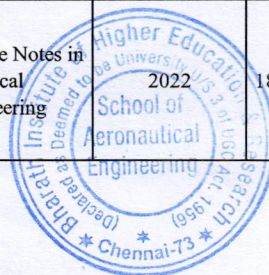

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List of Faculty Publications along with DOI

Academic Year 2021-2022 (CAYm1)

Sl. No	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link of the recognition in UGC enlistment of the Journal	Indexing (Scopus/ ESCI/SCIE/ SCI)	Quartile (Q1/Q2/Q3/ Q4)	Publisher	Page. No
1	Validation of experimental studies of subsonic jets controlled by air tabs through simulation studies	Manikandan R, Mohanasaravanan PS, Akhil A, Mani Shankar, Sundararaj M	AIP Conference Proceedings	2023	0094-243X	https://doi.org/10.1063/5.0139320	Scopus	-	AIP	447
2	Experimental investigation of flow through convergent nozzle with corrugated tabs	Mohanasaravanan PS, Manikandan R, Arunachala Raam, Sundararaj M	AIP Conference Proceedings	2023	0094-243X	https://doi.org/10.1063/5.0139326	Scopus	-	AIP	455
3	Design and Implementation of Automatic Goggle Detector for Safety Measure"	Balambica V, Vijayaram TR, Achudhan M, Deepak V, Ganesan M.,	Lecture Notes in Electrical Engineering	2023	1876-1119	DOI:10.1007/978-981-15-4692-1	Scopus	-	Springer	463
4	Design and Implementation of a Weed Removal Agriculture Robot	Dhanasekar J. Sathish Kumar B. Akash S, Vasanth G, Umamaheswari B.	Lecture Notes in Electrical Engineering	2022	1876-1119	https://doi.org/10.1007/978-981-19-1742-4_46	Scopus	-	Springer	472
5	Design and Implementation of a Defect Identification Using Image Processing Technique	Dhanasekar J, Sharan AP, Natarajan MA, Krishnan AHM, Kumar SRS	Lecture Notes in Electrical Engineering	2022	1876-1119	https://doi.org/10.1007/978-981-19-1677-9_65	Scopus	-	Springer	482



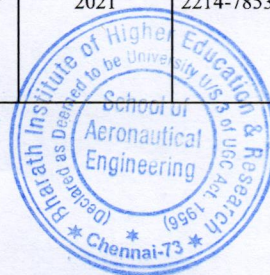
6	Design and development of probe release mechanism for cable pusher module of PFBR SG inspection system	Purushothaman K., Golden Renjith Nirmal R.J., Dhanasekar J, Senthur NS.	Materials Today: Proceedings	2022	2214-7853	https://doi.org/10.1016/j.matpr.2022.02.225	Scopus	-	Elsevier	496
7	A Review on Various Aspects of Earth's Atmosphere	Surekha Rathi Samundi D.	Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics	2022	9.782E+12	https://doi.org/10.4018/978-1-6684-4230-2.ch002	Scopus	-	IGI Global	500
8	Study of wake characteristics behind an oscillating NACA 0012 airfoil in deep dynamic stall regime	Surekha Rathi Samundi D., Rajasekar R	Aircraft Engineering and Aerospace Technology	2022	0002-2667	https://doi.org/10.1108/AEAT-11-2021-0324	SCIE	Q2	Emerald	529
9	Experimental Studies on an Inclined Collector Divergent Chimney Pilot Plant	N Rajamurugu	IOP Conference Series: Earth and Environmental Science	2022	1755-1307	https://doi.org/10.1088/1755-1315/850/1/012008	Scopus	-	IOP	539
10	Evaluation of structural integrity of needle punched banana fiber reinforced industrial safety helmets	Kenned, J.J., Kumar, C.S., Sankaranarayananamy, K	Polymers and Polymer Composites	2022	2158-2440	https://doi.org/10.1177/09673911221074889	SCIE	Q3	Sage	549
11	Influence of milled glass fillers on mode-II fracture toughness of polymer composites	Saravanakumar, K., Farouk, N., Suresh Kumar, C., Arumugam, V.	Materials Science and Technology	2022	0267-0836	https://doi.org/10.1080/02670836.2022.2043029	SCI	Q2	Taylor and Francis.	563



12	Characterization of fiber/matrix interfacial bonding strength of chemically grafted aramid fiber surface with epoxy resin composites	Ramasamy, N., Arumugam, V., Suresh Kumar, C.	Polymer Composites	2022	1548-0569	http://dx.doi.org/10.1002/pc.26384	SCI	Q1	Wiley	574
13	Comparative studies on performance of solar towers with variable scale ratios	Natarajan, R., Jayaraman, V., Sathyamurthy, R.	Environmental Science and Pollution Research	2022	1573-174X	https://doi.org/10.1007/s11356-022-19079-0	SCIE	Q1	Springer	586
14	Emergency Power Generation Studies for various Stores Configurations of a Tail Less Delta Wing Aircraft	Arunachaleswaran, A., Gunasekaran, S., Chowhan, K.S., Elangovan, S., Sundararaj, M.	Journal of The Institution of Engineers (India)	2022	2250-2157	https://doi.org/10.1007/s40032-022-00820-0	ESCI	Q3	Springer	597
15	Influence of copper anodization on structural and heat transfer characteristic of aluminum piston	M Amala Justus Selvam, S Arunkumar, V Balambica, S Padmanabhan, T Vinod Kumar, VS Shai Sundaram.	Materials Today Proceedings	2022	2214-7853	https://www.sciencedirect.com/science/article/abs/pii/S2214785321077804	Scopus	-	Elsevier	605
16	Mechanical Properties of Polymer Composites Reinforced with Alkaline-Treated Natural Fibre. Advances in polymer technology	Rajakumar, I.P.T., Raguraman D., Isaac, J.S., R. Suthan, Sumanta Bhattacharya, Asiful H. Seikh, S. M. A. Khan, and Ishwarya Komalnu Raghavan	Advances in polymer Technology	2022	0730-6679	https://doi.org/10.1155/2022/1458547	SCIE	Q2	Hindawi	610



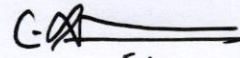
17	Characterization of TiZrN and TaZrN Nanocomposite Multilayer Coating Deposited via RF/DC Magnetron Sputtering on AISI4140 Steel	R Hariharan, R Raja, RJ. Golden Renjith Nimal, Mohamad Reda A. Refaai, S Ravi, Haider Lenin Allasi	Advances in Materials Science and Engineering	2022	8273708	https://doi.org/10.1155/2021/8273708	SCIE	Q2	Hindawi	624
18	Performance and Emission Characteristics of Pyrolysis Oil Obtained from Neem de Oiled Cake and Waste Polystyrene in a Compression Ignition Engine	Raguraman D, Kumar A, Prasanna Raj Yadav S, Madhu P, Isaac Joshuaramesh, Lalvani J	Advances in Materials Science and Engineering	2022	1687-8434	https://www.hindawi.com/journals/amse/2021/3728852/	SCIE	Q2	Hindawi	640
19	Wear behavior analysis of vitallium metal matrix composite	D.Raguraman, K. Vetri Velmurugan, G. Bharath Reddy, V. Paramasivam, P. Akshay Nandan, D. Rahul, Ram Subbiah	Materials Today: Proceedings	2021	2214-7853	https://doi.org/10.1016/j.matpr.2021.06.212	Scopus	-	Elsevier	659
20	An overview on characteristics and performance of ultrasonic welding process on different materials	N Mary Jasmin, K Anton Savio Lewis, D Raguraman, M Murugan, SSVS Aditya, TS Abhishek Reddy, S Hari Krishna, Ram Subbiah	Materials Today: Proceedings	2021	2214-7853	https://doi.org/10.1016/j.matpr.2021.09.096	Scopus	-	Elsevier	664
21	An investigation on microstructural evolution and mechanical properties of Zn coating as interlayer on Mg-Al alloys using diffusion bonding	RJ Golden Renjith Nimal, M Chenthil, R Sangamaeswaran, R Hariharan, G. Esakkimuthu	Materials Today: Proceedings	2021	2214-7853	https://doi.org/10.1016/j.matpr.2020.11.985	Scopus	Q2	Elsevier	669

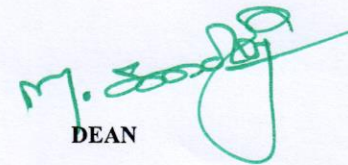


22	Effect of the Reinforcement Phase on Indentation Resistance and Damage Characterization of Glass/Epoxy Laminates Using Acoustic Emission Monitoring	Suresh Kumar C, Saravanakumar K, Prathap P, Prince M, Bharathiraja G, Kannan S Madhu S, Kumaran P	Advances in Materials Science and Engineering	2021	1687-8442	https://doi.org/10.1155/2021/5768730	SCIE	Q2	Hindawi	673
23	Comparative study of ram air turbines based on wind tunnel study for specific air borne energy extraction	Arunachaleswaran A, Madhusudan M, Ramya A, Elangovan S, Sundararaj M.	Defence Science Journal	2021	0011-748X	https://doi.org/10.14429/dsj.71.16636	SCIE	Q2	DSIDC	684
24	Optimizing the collector inlet height of a divergent solar tower using response surface methodology	Anbarasi J, Rajamurugu N, Yaknesh S	Materials Today Proceedings	2021	2214-7853	https://doi.org/10.1016/j.matpr.2021.10.516	Scopus	-	Elsevier	690
25	Performance characteristics optimization in dissimilar friction stir welding using Grey relational analysis	Anbarasi J, Yaknesh K, Sampath Kumar K, Rajamurugu N	Materials Today Proceedings	2021	2214-7853	https://doi.org/10.1016/j.matpr.2021.07.302	Scopus	-	Elsevier	700
26	Evolution of numerical model to identify the intersection of vibratory motion equations with discrete points in a mechanical system	Guru Manikandana K, Pannirselvam K, Jack J Kenned, Suresh Kumar C	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.12.482	Scopus	-	Elsevier	705



27	Investigations on suitability of MEMS based accelerometer for vibration measurements	Guru Manikandana K, Pannirselvam K, Jack J Kenned, Suresh Kumar C	Materials Today Proceedings	2020	2214-7853	https://doi.org/10.1016/j.matpr.2020.10.506	Scopus	-	Elsevier	711
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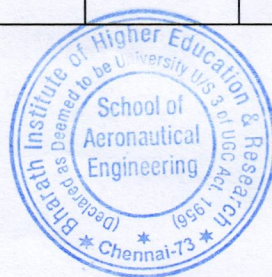




List of Faculty Publications along with DOI

Academic Year 2020-2021 (CAYm2)

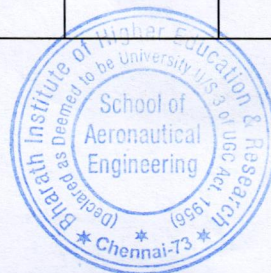
Sl. No	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link of the recognition in UGC enlistment of the Journal	Indexing (Scopus/ ESCI/SCIE/ SCI)	Quartile (Q1/Q2/Q3/ Q4)	Publisher	Page. No
1	Effect of fiber surface modifications on the interfacial adhesion in kevlar fiber reinforced polymer composites	Ramasamy, N., Arumugam, V., Suresh Kumar, C.	Journal of Adhesion Science and Technology	2022	0169-4243	https://doi.org/10.1080/01694243.2021.1911205	SCIE	Q2	Taylor and Francis.	721
2	Design and development of multifunctional structures for unmanned aerial vehicles (UAVs)	Ashok Raj J., Arulmani L, Raguraman D, Naveenchandran P & Vijaya Bhaskar Raju K.	Advances in Materials and Processing Technologies	2021	2374-068X	https://doi.org/10.1080/2374068X.2021.1912529	ESCI	Q3	Taylor and Francis.	743
3	Low cycle fatigue analysis of heat treated duplex stainless steel	Ashok Raj J., Arulmani L, Raguraman D, Shridhar Murthy H N & Santosh Kumar B H	Advances in Materials and Processing Technologies,	2021	2374-068X	https://doi.org/10.1080/2374068X.2021.1912538	ESCI	Q3	Taylor and Francis.	748
4	Damage Characterization in Glass/Epoxy Composite Laminates under Normal and Oblique Planes of Cyclic Indentation Loading with AE Monitoring	Jayababu A, Arumugam V, Rajesh B, Suresh Kumar C	Materials Evaluation	2021	0025-5327	https://doi.org/10.32548/2021.me-04126	SCIE	Q4	ASNDT	752



5	Material Comparative Study of 4 Stage Gear Box Housing Using Fea Methodology	Elumalai N, Manikandan R, Karthik MK	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1924	Scopus	Q4	Karabeniz Technical University	769
6	Finite Element Analysis of Aircraft Radial Engine connecting Rod Using Composite Material	Karthik MK, Kalaimani N, Mohanasaravanan PS	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1920	Scopus	Q4	Karabeniz Technical University	774
7	FEA Analysis of TVS Sport Alloy Wheel Rim with Various Speed	Mohanasaravanan PS, Vikram B, Karthik MK	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1919	Scopus	Q4	Karabeniz Technical University	778
8	CFD Analysis Diesel Spray Mixing Nozzle in Various Angle	Kalaimani N, Sundararaj M, Elangovan S	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1910	Scopus	Q4	Karabeniz Technical University	784
9	CFD Analysis of Golf Ball with Various Turbulence Models	Sundararaj M, Elangovan S, Mahavishnu E	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1912	Scopus	Q4	Karabeniz Technical University	788
10	CFD Analysis of Monolithic Heat Exchanger by Using Various Ceramic Materials	Elangovan S, Sundararaj M, Mahavishnu E	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1913	Scopus	Q4	Karabeniz Technical University	804
11	Design and Analysis of Butterfly Valve	Manikandan R, Karthikeyan R, Elumalai N	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1915	Scopus	Q4	Karabeniz Technical University	808



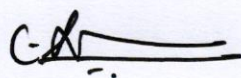
12	FEA Analysis for Scissor Lifting Table	Giridharan V, Ramakrishna M, Vikram B	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1917	Scopus	Q4	Karabenz Technical University	819
13	Structural and Failure Analysis of Jib Crane Structure	Vikram B, Elumalai N, Giridharan V	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1928	Scopus	Q4	Karabenz Technical University	827
14	Modeling and Structural Analysis of Rear Axle Casing of Tractor	Mahavishnu E, Manikandan R, Ramakrishna M	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1926	Scopus	Q4	Karabenz Technical University	833
15	Finite Element Analysis of Honeycomb Sandwich Composite Structures with Various Joints	Karthikeyan R, Mohanasaravanan PS, Kalaimani N	Turkish Journal of Computer and Mathematics Education	2021	1309-4653	https://doi.org/10.17762/turcomat.v12i1S.1922	Scopus	Q4	Karabenz Technical University	843
16	Adaptive ANN-PSO algorithm on tensile stress prediction for the dissimilar FSW butt joints of AA6061-AZ61 alloy	D Raguraman, B Dhanalakshmi, V Dhinakaran, MD Vijayakumar	International Journal of Advanced Science and Technology	2020	2005-4238	http://sercs.org/journals/index.php/IJAST/article/view/10038	Scopus	Q3	SERSS	848
17	Analysis of pillion displacement during impact in mono-suspension bike	V Dhinakaran, M Varsha Shree, D Raguraman, P D Shanmuga Selvam	International Journal of Advanced Science and Technology	2020	2005-4238	http://sercs.org/journals/index.php/IJAST/article/view/10041	Scopus	Q3	SERSS	852
18	Effect of patch hybridization on indentation resistance and residual performance of patch repaired glass/epoxy laminates using acoustic emission monitoring	K. Shruthi, K Saravanakumar, V. Arumugam, C. Suresh Kumar	Nondestructive Testing and Evaluation	2020	1058-9759	https://doi.org/10.1080/10589759.2020.1834556	SCI	Q2	Taylor and Francis.	856



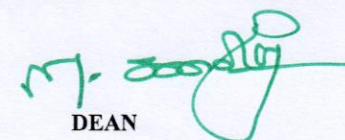
19	Damage monitoring of glass/epoxy laminates with different interply fiber orientation using acoustic emission	K Saravanakumar, C Suresh Kumar, V Arumugam	Structural Health Monitoring	2020	1475-9217	https://doi.org/10.1177/2F1475921720939064	SCI	Q1	SAGE	875
20	Chemical, biological and nanoclay treatments for natural plant fiber reinforced polymer composites: A Review	Jack J Kenned, K. Sankaranarayanamy, C. Suresh Kumar	Polymer and Polymer Composites	2020	0967-3911	https://doi.org/10.1177/0967391120942419	SCIE	Q2	Sage	886
21	Anatomical, mechanical and fractographic characterization of needle punched Musa Sapientum cellulosic fiber/UPE composites	Jack JK, Sankaranarayanamy K, Suresh Kumar C	Journal of Testing and Evaluation	2020	0090-3973	https://doi.org/10.1520/JTE20190948	SCI	Q2	ASTM	913
22	Flow performance analysis in scramjet engine inlet for improved diffusion	Manikandan R, Mahavishnu E, Mohanasaravanan PS, Vikram B	AIP Conference Proceedings	2020	0094-243X	https://doi.org/10.1063/5.0024766	Scopus	-	AIP	931
23	Optimization of pitch distance of kevlar thread stitching in chopped GFRP composite laminates	Karthikeyan R, Karthik MK, Elumalai N, Kumar CS	AIP Conference Proceedings	2020	0094-243X	https://doi.org/10.1063/5.0024784	Scopus	-	AIP	941
24	Computational study of effectiveness of winglet at subsonic speed	Giridharan V, Kumar KSM, Elumalai N, Sundararaj M	AIP Conference Proceedings	2020	0094-243X	https://doi.org/10.1063/5.0024756	Scopus	-	AIP	948
25	Utilisation of ram air turbine on a fighter platform for energy extraction: Failure mode study	Arunachaleswaran A, Thomas S, Madhusudan M, Elangovan S, Sundararaj M	Defence Science Journal	2020	0011-748X	https://doi.org/10.14429/dsj.70.15789	SCIE	Q2	DSIDC	956



26	Mechanical properties of titanium carbide reinforced aluminum metal matrix composites	Elumalai N, Karthik M.K, Giridharan V, .Kumar CS	AIP Conference Proceedings	2020	0094-243X	https://doi.org/10.1063/5.0024764	Scopus	-	AIP	963
27	Mechanical properties of banyan seed reinforced polymer matrix composites	Karthik MK, Elumalai N, Giridharan V, Karthikeyan R	AIP Conference Proceedings	2020	0094-243X	https://doi.org/10.1063/5.0024768	Scopus	-	AIP	971
28	Characterization of global and local damages in composite images using geometrical and Fourier-Hu moment based shape descriptors.	A.R. Jac Fredo, R.S. Abilash, R. Femi, N. Sri Madhava Raja, C. Suresh Kumar.	Journal of Testing and Evaluation	2019	0090-3973	https://doi.org/10.1520/JTE20180701	SCI	Q2	ASTM	978


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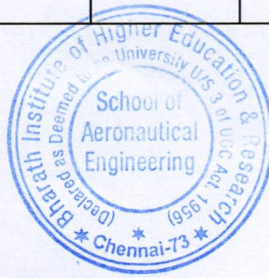



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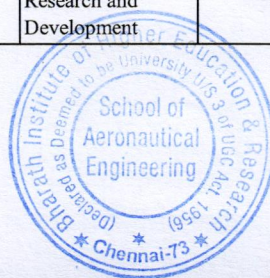
List of Faculty Publications along with DOI

Academic Year 2019-2020 (CAYm3)

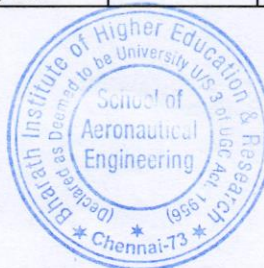
SI. No	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link of the recognition in UGC enlistment of the Journal	Indexing (Scopus/ ESCI/SCIE/ SCI)	Quartile (Q1/Q2/Q3/Q4)	Publisher	Page. No
1	Co-flowing jet control using lip thickness variation.	Shankar RN, Thanigaiaarasu S, Elangovan S, Rathakrishnan E.	International Journal of Turbo & Jet-Engines	2021	2191-0332	https://doi.org/10.1515/tji-2018-0024	SCIE	Q2	De Gruyter	996
2	Effect of Swirling Secondary Flow on the Under-expanded Non-circular Supersonic Jets.	Gopinath S, Sundararaj M, Elangovan S, Sridhar BTN.	International Journal of Turbo and Jet Engines	2021	2191-0332	https://doi.org/10.1515/tji-2017-0047	SCIE	Q2	De Gruyter	1010
3	Automated damage detection and characterization of polymer composite images using Tsallis-particle swarm optimization-based multilevel threshold and multifractals	Jac Fredo AR, Abilash RS, Femi R, Sri Madhava Raja N, Suresh Kumar C	Polymer Composites	2020	1548-0569	https://doi.org/10.1002/pc.25611	SCI	Q1	Wiley	1019
4	Characterization of indentation damage resistance and thermal diffusivity of needle punched Musa Sapientum cellulosic fiber/unsaturated polyester composite laminates using IR thermography	Jack JK, Sankaranarayananasamy K, Kalyanavalli V, Suresh Kumar C	Polymer Composites	2020	1548-0569	https://doi.org/10.1002/pc.25588	SCI	Q1	Wiley	1033



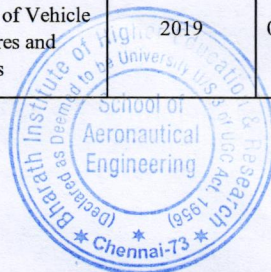
5	Investigation of indentation damage resistance on normal and inclined plane of glass/epoxy composite laminates using acoustic emission monitoring	Jayababu, V. Arumugam, B. Rajesh, C. Suresh Kumar	Journal of Composite Materials	2020	0021-9983	https://doi.org/10.1177%2F0021998320906864	SCI	Q1	Sage	1047
6	Innovative method for the estimation of closure velocity between rat driven drogue and IFR probe: Air-to-Air refueling Flight Trials	Arunachaleswaran A, Kabadwal A, Joshi R, Elangovan S, Sundararaj M	Defence Science Journal	2020	0011-748X	https://doi.org/10.14429/dsj.70.14100	SCIE	Q2	DSIDC	1059
7	Characterization of failure mechanism in glass, carbon and their hybrid composite laminates in epoxy resin by acoustic emission monitoring.	C Suresh Kumar, K Saravanakumar, V Arumugam.	Nondestructive Testing and Evaluation	2019	1058-9759	https://doi.org/10.1080/10589759.2019.1590829	SCI	Q2	Taylor and Francis.	1064
8	Acoustic emission based investigation on the effect of temperature and hybridization on drop weight impact and post-impact residual strength of hemp and basalt fibres reinforced polymer composite laminates.	Fotouhi M, Saeedifar M, Arumugam V	Composites Part B: Engineering	2019	1359-8368	https://doi.org/10.1016/j.compositesb.2019.106962	SCI	Q1	Elsevier	1078
9	Computational analysis of unmanned aerial vehicle wing with triangular winglets	Elangovan S, Sundararaj M, Hasen D	International Journal of Mechanical and Production Engineering Research and Development	2019	2249-6890	http://www.tjprc.org/publishpapers/2-67-1556866599-62IJMPERDJUN201962.pdf	Scopus	Q3	TJPRC	1088
10	CFD analysis of the flow characteristics of parabolic nozzle by changing the shape of nozzle exit	Adaikalaraj A, Sundararaj M, Syedhaleem M	International Journal of Mechanical and Production Engineering Research and Development	2019	2249-6890	https://doi.org/10.4273/ijvss.11.2.23	Scopus	Q3	TJPRC	1095



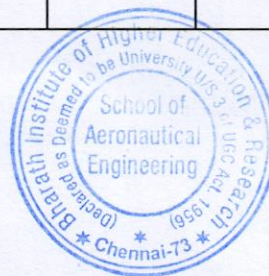
11	CFD analysis of the aerodynamic characteristics of swept back wing by changing its taper ratio	Elangovan S, Sundararaj M, Hasen D	International Journal of Mechanical and Production Engineering Research and Development	2019	2249-6890	http://www.tjprc.org/publishpapers/2-67-1556883353-68.IJMPERDJUN201968.pdf	Scopus	Q3	TJPRC	1101
12	CFD analysis of flow over bluff bodies with various ranges of injection using ANSYS CFX	Nallappan R, Sundararaj M, Adaikalaraj A	International Journal of Mechanical and Production Engineering Research and Development	2019	2249-6890	http://www.tjprc.org/publishpapers/2-67-1556883125-67.IJMPERDJUN201967.pdf	Scopus	Q3	TJPRC	1102
13	The design and fabrication manually operated seed planter machine	Manikandan J, Mubarak A, Vikky A	International Journal of Mechanical and Production Engineering Research and Development	2019	2249-6890	http://www.tjprc.org/publishpapers/2-67-1555325483-22.IJMPERDJUN201922.pdf	Scopus	Q3	TJPRC	1107
14	Buffeting analysis of typical aircraft wing using ansys	Karthikeyan R, Suresh Kumar C, Nallappan R	International Journal of Mechanical and Production Engineering Research and Development	2019	2249-6890	http://www.tjprc.org/publishpapers/2-67-1556866519-61.IJMPERDJUN201961.pdf	Scopus	Q3	TJPRC	1113
15	Design and analysis of aircraft wing spar with different materials using ansys	Elangovan S, Divyabarathi P, Suresh Kumar C	International Journal of Mechanical and Production Engineering Research and Development	2019	2249-6890	http://www.tjprc.org/publishpapers/2-67-1556877376-66.IJMPERDJUN201966.pdf	Scopus	Q3	TJPRC	1117



16	Design and testing of a helicopter propeller performance	Manikandan R, Maha Vishnu E, Mohanasaravanan PS	International Journal of Advance Research, Ideas and Innovations in Technology	2019	2454-132X	https://www.ijariit.com/?utm_source=pdf&utm_medium=editon&utm_campaign=OmAkSols&utm_term=V516-1264	Scopus	Q4	IAEME	1122
17	Modified cockpit door lock system	Mohanasaravanan PS, Maha Vishnu E, Manikandan R	International Journal of Advance Research, Ideas and Innovations in Technology	2019	2454-132X	https://www.ijariit.com/manuscripts/v516/V516-1249.pdf	Scopus	Q4	IAEME	1126
18	Thermal Performance of Cooled Tips in A High-Pressure Turbine Blade	Maha Vishnu E, Mohanasaravanan PS, Manikandan R	International Journal of Engineering Research & Technology	2019	2278-0181	http://dx.doi.org/10.17577/IJERTV8IS120183	Scopus	Q4	IRP House	1129
19	Design and Fabrication of Hovercraft with an Extended Wing	Mohanasaravanan PS, Maha Vishnu E, Manikandan R	International Journal for Research in Applied Science & Engineering Technology	2019	2321-9653	http://dx.doi.org/10.2214/ijraset.2019.12084	Scopus	Q3	Chaoyang University of Technology	1135
20	Experimental investigation on the effect of glass fiber orientation on impact damage resistance under cyclic indentation loading using AE monitoring	C. Suresh Kumar, V. Arumugam, Jack J. Kenned, R	Nondestructive Testing and Evaluation	2019	1058-9759	https://doi.org/10.1080/10589759.2019.1684491	SCI	Q2	Taylor and Francis.	1141
21	Thermo-mechanical and morphological characterization of needle punched non-woven banana fiber reinforced polymer composites	Jack JK, Sankaranarayanamsamy K, Binoj JS, Suresh Kumar C	Composites Science and Technology	2019	0266-3538	https://doi.org/10.1016/j.compscitech.2019.107890	SCI	Q1	Elsevier	1161
22	Comparison of static and dynamic neural network models in predicting outlet temperature of shell and tube heat exchanger	Manikandan J, Naidu KY, Janardhan B, Kishore MR. Prabhakar K	International Journal of Vehicle Structures and Systems	2019	0975-3060	http://dx.doi.org/10.4273/ijvss.11.5.21	Scopus	Q4	MAFTREE	1174



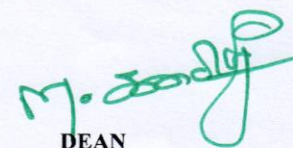
23	CFD analysis of aerodynamic drag reduction in heavy vehicles by changing its frontal area	Hasen D, Elangovan S, Sundararaj M, Parammasivam KM	International Journal of Vehicle Structures and Systems	2019	0975-3060	https://doi.org/10.4273/ijvss.11.5.10	Scopus	Q4	MAFTREE	1176
24	Influence of turbulence modelling on predicting the round jet flow field	Elangovan S, Sundararaj M, Hasen D, Parammasivam KM	International Journal of Vehicle Structures and Systems	2019	0975-3060	http://dx.doi.org/10.4273/ijvss.11.5.12	Scopus	Q4	MAFTREE	1177
25	Flow characteristics of parabolic nozzle by changing the shape of nozzle exit	Adaikalaraj A, Sundararaj M, Syedhaleem M	International Journal of Vehicle Structures and Systems	2019	0975-3060	https://doi.org/10.4273/ijvss.11.2.23	Scopus	Q4	MAFTREE	1179
26	Computational analysis of mixing in scramjet combustor using cross flow injection technique	Hasen D, Karthikeyan R, Sundararaj M, Parammasivam KM	International Journal of Vehicle Structures and Systems	2019	0975-3060	https://doi.org/10.4273/ijvss.11.2.22	Scopus	Q4	MAFTREE	1180
27	Computational analysis of flow over bluff bodies using aero spikes	Adaikalaraj A, Sundararaj M, Syedhaleem M	International Journal of Vehicle Structures and Systems	2019	0975-3060	http://dx.doi.org/10.4273/ijvss.11.2.21	Scopus	Q4	MAFTREE	1181
28	CFD analysis of controlling the airflow over airfoils using dimples	Elangovan S, Sundararaj M, Nallapan R	International Journal of Vehicle Structures and Systems	2019	0975-3060	http://dx.doi.org/10.4273/ijvss.11.5.11	Scopus	Q4	MAFTREE	1187
29	Non-linear vibration analysis of oleo pneumatic landing gear at touchdown impact.	Sivakumar S, Syedhaleem M.	Mathematical Models in Engineering	2018	2351-5279	https://doi.org/10.21595/mme.2018.19895	Scopus	Q4	Extrica	1188
30	Classification of damages in composite images using Zernike moments and support vector machines".	ARJ Fredo, RS Abilash, R Femi, A Mythili, C Suresh Kumar.	Composites Part B: Engineering	2018	1359-8368	http://dx.doi.org/10.1016/j.compositesb.2018.12.064	SCI	Q1	Elsevier	1197



31	Infra-red thermography based inspection of hybrid composite laminates under flexure loading	Bhoominathan R, Divyabarathi P, Manimegalai R, Nithya T, Shanmugapriya S	International Journal of Vehicle Structures and Systems	2018	0975-3060	https://doi.org/10.4273/ijvss.10.1.02	Scopus	Q4	MAFTREE	1207
32	Performance of circular to non circular shape scramjet isolators	Divyabarathi P, Anand D, Richards SP, Chand DS	International Journal of Vehicle Structures and Systems	2018	0975-3060	https://doi.org/10.4273/ijvss.10.1.04	Scopus	Q4	MAFTREE	1210
33	Flow characteristics over a missile at higher angle of attacks using experiments and simulation	Ramakrishna M, Syedhaleem M, Divya C, Gurunathan A	International Journal of Vehicle Structures and Systems	2018	0975-3060	https://doi.org/10.4273/ijvss.10.1.03	Scopus	Q4	MAFTREE	1211


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