

**Hindustan Institute of Technology & Science**  
**Department of Aerospace and Aeronautical Engineering**  
**Noteworthy Publication In High Impact Journals**

S. No	Indexed	Pub. Year	Author	Title	Journal Name	Vol. No	Issue No	Page No	Impact Factor
1	Scopus and WoS	2023	Surya Praba, RP; Ramajeyathilagam, K;	Microstructural damage and response of stiffened composite submersible pressure hull subjected to underwater explosion	Ships and Offshore Structures	18	8	1116-1131	1.93
2	Scopus and WoS	2023	John, Jerin; Sharma, Janmejai; Miglani, Ankur; Nandagopalan, Purushothaman; Shaikh, Javed; Baek, Seung Wook;	Structural characterization and regression rate of solidified ethanol fuels for hybrid rocket applications	Fuel	336	-	127152	8.035
3	Scopus and WoS	2023	Chandrasekar et al.	Novel cellulosic natural fibers from Abelmoschus ficulneus weed: Extraction and characterization for potential application in polymer composites	Journal of Polymers and the Environment	31	4	1323-1334	4.705
4	Scopus and WoS	2023	Sharma, Janmejai; Nandagopalan, Purushothaman; John, Jerin; Miglani, Ankur;	The characterization of disruptive combustion of organic gellant-laden ethanol fuel droplets	Combustion and Flame	257	-	113018	<b>5.34</b>
5	Scopus and WoS	2023	Pal, Yash; Palateerdham, Sasi Kiran;	Combustion performance of hybrid rocket fuels loaded with MgB <sub>2</sub> and carbon black additives	Propulsion and Power Research Mahottamananda, Sri Nithya; Sivakumar, Subha; Ingenito, Antonella;	12	2	212-226	<b>5.55</b>
6	Scopus and WoS	2023	Debnath, Arijit; Pal, Yash; Mahottamananda, Sri Nithya; Trache, Djalal;	Unraveling the role of dual Ti/Mg metals on the ignition and combustion behavior of HTPB-boron-based fuel	Defence Technology	Article in Press			4.035
7	Scopus and WoS	2023	Panigrahi, Puspamitra; Pal, Yash; Kaewmaraya, Thanayut; Bae, Hyeonhu; Nasiri, Noushin; Hussain, Tanveer;	Molybdenum Carbide MXenes as Efficient Nanosensors toward Selected Chemical Warfare Agents	ACS Applied Nano Materials	6	10	8404-8415	6.14

8	Scopus and WoS	2023	P.Saravanan et. al	Effect of zircon and anatase titanium dioxide nanoparticles on glass fibre reinforced epoxy with mechanical and morphological studies	Ceramics International	49	13	21667-21677	5.53
9	Scopus and WoS	2023	Zeeshan Asghar, Muhammad Waris Saeed Khan, Amjad Ali Pasha, Mustafa Mutiur Rahman, L. Sankaralingam; Mohammad Irfan Alam.	On non-Newtonian fluid flow generated via complex metachronal waves of cilia with magnetic, hall, and porous effects	Physics of Fluids	35	9	-	4
10	Scopus and WoS	2023	Joshua, J.J.; Singh, D.; Vennelakanti, S.H.K.; Sivaprakasam, P.; Joseph, D.R.; Venkatanarayanan, P.S.	Fabrication and Experimental Estimation of Mechanical Properties of Kevlar-Glass/Epoxy Interwoven Composite Laminate	Journal of Nanomaterials	2023	1	1055071	5.1
11	Scopus and WoS	2022	Ng, Lin Feng; Yahya, Mohd Yazid; Muthukumar, Chandrasekar;	Mechanical characterization and water absorption behaviors of pineapple leaf/glass fiber-reinforced polypropylene hybrid composites	Polymer Composites	43	1	203-214	3.171
12	Scopus and WoS	2022	Samlal, Stanley; Santhanakrishnan, R;	Low-Velocity Impact Behavior of Foam Core Sandwich Panels with Inter-Ply and Intra-Ply Carbon/Kevlar/Epoxy Hybrid Face Sheets	Polymers	14	5	1060	4.329
13	Scopus and WoS	2022	Jesuarockiam Naveen, Mohammad Jawaid, Kheng Lim Goh, Degalhal Mallikarjuna Reddy, Chandrasekar Muthukumar, Tamil Moli Loganathan and Koduri Naga Ganapathy Lakshmi Reshwanth	Advancement in Graphene-Based Materials and Their Nacre Inspired Composites for Armour Applications—A Review	Nanomaterials	11	5	1239	5.1
14	Scopus and WoS	2022	Ng, Lin Feng; Yahya, Mohd Yazid; Muthukumar, Chandrasekar	Mechanical characterization and water absorption behaviors of pineapple leaf/glass fiber-reinforced polypropylene hybrid composites	Polymer Composites	43	1	203-214	3.171
15	Scopus and WoS	2021	Ms Nisha, Kv Ravali, F Khan, P Vinay, K Jairam	Efficient Electrophoretic Deposition Of An Intensification Process To Enhance The Mechanical Properties Of Glass Fibre Reinforced Polymer	Chemical Engineering And Processing-Process Intensification	160	-	108298	3.731

16	Scopus and WoS	2021	K.Senthilkumar, N.Saba, M.Chandrasekar, M.Jawaid,	Compressive, Dynamic And Thermo-Mechanical Properties Of Cellulosic Pineapple Leaf Fibre/Polyester Composites: Influence Of Alkali Treatment On Adhesion	International Journal Of Adhesion And Adhesives	106	-	102823	2.671
17	Scopus and WoS	2021	Ms Nisha, S Ramprabhu	Process Intensified Microwave Absorption Nanocomposite For Stealth Application	Chemical Engineering And Processing-Process Intensification	163	-	108333	3.731
18	Scopus and WoS	2021	Puspamitra Panigraha, Yash Pal, Tanveer Hussain And Rajeev Ahuja	Application Of Germanene Monolayers As Efficient Anchoring Material To Immobilize Lithium Polysulfides In Li-S Batteries	Applied Surface Science	558	-	149850	6.183
19	Scopus and WoS	2021	Puspamitra Panigraha, Yash Pal, Tanveer Hussain And Rajeev Ahuja	Exploring The Full Potential Of Functional Si <sub>2</sub> bn Nanoribbons As Highly Reversible Anode Materials For Mg Ion Battery	Energy Fuels	35	15	12688-12699	3.605
20	Scopus and WoS	2021	Jesuarockiam Naveen, Mohammad Jawaid, Kheng Lim Goh, Degalhal Mallikarjuna Reddy, Chandrasekar Muthukumar	Advancement In Graphene-Based Materials And Their Nacre Inspired Composites For Armour Applications—A Review	Nanomaterials	11	5	1239	5.1
21	Scopus and WoS	2021	C Suresh, K. Ramajeyathilagam	Large Deformation Behaviour Of Thin Mild Steel Rectangular Plates Subjected To Underwater Explosion Loading Under Air And Water Backed Conditions	Applied Ocean Research	114	-	102780	2.979
22	Scopus and WoS	2021	M. Chandrasekar, T. Senthil Muthu Kumar Et Al.	Performance Of Sisal/Hemp Bio-Based Epoxy Composites Under Accelerated Weathering	J Polym Environ	29	-	624–636	3.667
23	Scopus and WoS	2021	Sivakumar Subha, Vadapalli Naga Venkata Sairam And Yash Pal	Effect Of Zr/Gnp Hybrid Filler On Thermal And Ablation Properties Of Carbon-Epoxy Composites	Polymer Composites	42	2	642-651	3.171
24	Scopus and WoS	2020	Jerin John, Purushothaman N, Sw Baek, Sj Cho	Hypergolic Ignition Delay Studies Of Solidified Ethanol Fuel With Hydrogen Peroxide For Hybrid Rockets	Combustion And Flame	212	-	205-215	4.57
25	Scopus and WoS	2020	S. N. Mahottamananda, N. P. Kadiresh, Y. Pal,	Regression Rate Characterization Of Htpb-Paraffin Based Solid Fuels For Hybrid Rocket	Propellants, Explosives, Pyrotechnics	45	-	1755	2.979

26	Scopus and WoS	2020	Rp Suryaprabha And K. Ramajeyathilagam	Numerical Investigations On The Large Deformation Behaviour Of Ring Stiffened Cylindrical Shell Subjected To Underwater Explosion	Applied Ocean Research	101	-	102262	2.979
27	Scopus and WoS	2020	Yash Pal Nikita A, Neethu A, Madhumitha	Fabrication And Characterization Of Gallium Nitride Thin Film Deposited On A Sapphire Substrate For Photoelectrochemical Water Splitting Applications	Optik	226	1	165410	2.443
28	Scopus and WoS	2019	Jjerin John, K Ardhianto, Purushothaman Nandagopalan And Seung Wook Baek	Thermoreversible Gelation And Self-Assembly Behavior Of Dibenzylidene Sorbitol In Ternary Solvent Mixtures	Colloid And Polymer Science	297	-	493–502	1.536
29	Scopus and WoS	2018	S Subha, D Singh, Ps Venkatanarayanan, N Kavitha	Experimental Investigation Of Mechanical, Thermal And Ablation Performance Of Zro <sub>2</sub> /Sic Modified C-Ph Composites	International Journal Of Applied Ceramic Technology	16	-	61– 771	1.762
30	Scopus and WoS	2018	C Ganesan, Ps Joanna	Modeling The Residual Strength And Fatigue Life Of Carbon Fiber Composites Under Constant Amplitude Loading	Mechanics Of Advanced Materials And Structures	27	21	1-14	2.645
31	Scopus and WoS	2018	J Jefferson Andrew, V Arumugam, C Ramesh,	Acoustic Emission Characterization Of Local Bending Behavior For Adhesively Bonded Hybrid External Patch Repaired Glass/Epoxy Composite Laminates	Structural Health Monitoring	18	3	739-756	4.870
32	Scopus and WoS	2018	R. Santhanakrishnan, Stanley Samlal, A. Joseph Stanley & J. Jayalatha	Impact Study On Sandwich Panels With And Without Stitching	Advanced Composite Materials	27	2	163-182	1.71
33	Scopus and WoS	2018	C Ganesan And Ps Joanna,	Fatigue Life And Residual Strength Prediction Of Gfrp Composites: An Experimental And Theoretical Approach	Latin American Journal Of Solids And Structures	15	7	1-16	1.158
34	Scopus and WoS	2018	Subha S And D. Singh	Thermal, Mechanical And Ablation Properties Of Carbon-Epoxy Based Composites Reinforced By Zirconia Coated Graphene Nanoplatelets	Materials Research Express	5	1	14008	1.151
35	Scopus and WoS	2017	Sankar A., Natarajan S., Merzouki T., Ganapathi M.	Nonlinear Dynamic Thermal Buckling Of Sandwich Spherical And Conical Shells With Cnt Reinforced Face Sheets	International Journal Of Structural Stability And Dynamics	17	9	1750100	1.61
36	Scopus and WoS	2017	Yash Pal And V Ravikumar	Physical And Ballistic Characterization Of Aluminum Loaded Paraffin Hybrid Rocket Fuels	Energy & Fuels	31	9	10133-10143	3.021
37	Scopus and WoS	2017	Yash Pal And V Ravikumar	Thermal Decomposition Study Of Paraffin-Based Hybrid Rocket Fuel Containing Metallic	Thermochimica Acta	655	1	63-75	2.091

				Aluminium And Boron Additives					
38	Scopus and WoS	2017	G. C. Vishnu Kumar And D. A. Shah	Aerodynamics of Flapping Wings For Vertical Takeoff	Journal Of Applied Fluid Mechanics	10	6	1689-1697	1.09
39	Scopus and WoS	2017	Anish S And N. Sitaram	Computational Study Of Radial Gap Effect Between Impeller And Diffuser On The Unsteadiness Of Vaned Diffuser In A Centrifugal Compressor	Journal Of Mechanical Science And Technology	31	11	5291-5298	1.194