

Journal Publication Details 2018 - 2019

Author	Title	Vol.No	Issue No	Page no	Journal name
Dr.K.Sundararaj Et al	Influence of dual heat sources on natural convection In a square enclosure	9	1	280-290	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD),
	Aerodynamics Design of high-speed hatchback cars for lucrative commercial application	13	2	236-243	International journal of Aerospace and Mechanical Engineering
Dr.V.R.Sanal Kumar Et al	Design of an Uninterrupted Propulsion System for Spinning Planet Landers for Soft Landing	-	-	-	AIAA SciTech Forum
	Boundary layer Blockage and Venturi Effect Causing Aerodynamic Choking and Shock Waves in Human Artery Leading to Heart Attack and Hemorrhage – A New Perspective	-	-	-	AIAA Aviation and Aeronautics Forum and Exposition
	Studies on 2D and 3D Boundary layer Blockage and External Flow Choking at Moving Wing in Ground Effect	-	-	-	AIAA Aviation and Aeronautics Forum and Exposition
	A Closed-form Analytical Model for Predicting 2D Boundary layer thickness for Verification, Calibration and Validation of Navier-Stokes Solvers	-	-	-	AIAA Aviation and Aeronautics Forum and Exposition
	Prediction of 3D Boundary Layer Blockage and the Grain Design Optimization of HVT Dual-thrust Hybrid Rockets	-	-	-	AIAA Propulsion and Energy Forum and Exposition

Modeling of Sanal Flow Choking Condition and Design Optimization of High Performance Dual-thrust SRMs	-	-	-	AIAA Propulsion and Energy Forum and Exposition
Prediction of Detonation Velocity and N-O Composition of High Energy C-H-O Explosives by Means of Artificial Neural Networks	44	5	579-587	International Journal of energetic materials
Recent Advancements in Study of Effects of Nano Micro Additives on Solid Propellants Combustion by Means of the Data Science Methods.	69	20-26		Defence Science Journal
High Heat Capacity of Blood Reduces Risk on Myocardial Infarction	1	-	18-19	BioGenesis :The Journal of Biology and Medicine
Optimization of a Pintle Nozzle for Augmented Thrust Vectoring and Steering using Expansion Waves	-	-	-	AIAA Aviation and Aeronautics Forum and Exposition
Studies on Thrust Vector Control in Supersonic Pintle Nozzle using Secondary Bypass Jets	-	-	-	AIAA Propulsion and Energy Forum and Exposition
Design Optimization of a Truncated Aero Spike Nozzle Facilitated with Convex-shaped Tip for Thrust Escalation using Expansion Waves	-	-	-	AIAA Propulsion and Energy Forum and Exposition
Radiation Effects on Ignition Delay and Flame Spread in Solid Propellant Rocket Motors	-	-	-	AIAA Propulsion and Energy Forum and Exposition
Exact Solution of Boundary Layer Displacement Thickness of Adiabatic and Diabatic Flows at the Sonic-Fluid Throat of Internal Flow Systems for the CFD Code Calibration	-	-	-	AIAA Propulsion and Energy Forum and Exposition
Liftoff Thrust Augmentation of Sounding Rockets using	-	-	-	AIAA Propulsion and Energy Forum and Exposition

	Externally Facilitated Pintle Induced Expansion Waves				
	Conceptual Design of a Pintle Nozzle for an Augmented Thrust Propulsion using Multiple Expansion Waves	-	-	-	
Dr.V.R.Sanal Kumar Et al	Analytical and Numerical Predictions of Boundary Layer Blockage in Dual Thrust Motors	-	-	-	AIAA Propulsion and Energy Forum and Exposition
	Development of the Multifactorial Computational Models of the Solid Propellants Combustion by Means of Data Science Methods – Phase II	-	-	-	AIAA Propulsion and Energy Forum and Exposition
	Conceptual Design of a Reversed Solar Sail for an Enhanced Passive Propulsion,	-	-	-	42nd COSPAR Scientific Assembly
	3D Numerical Studies and Design Optimization of a Swallowtail Butterfly with Twin Tail World Academy of Science	11	8	-	International Journal of Aerospace and Mechanical Engineering
	Conceptual Design of a Customer Friendly Variable Volume and Variable Spinning Speed Washing Machine	12	6		International Journal of Aerospace and Mechanical Engineering
Dr.S. Jayalakshmi Et al	Innovative approach for suppressing corrosion of SS304 stainless steel in saline water environment	65	5	484-491	Anti-Corrosion Methods and Materials
	Structure-property correlation of magnesium nanocomposites synthesized by disintegrated melt deposition technique	5	8	16280-16285	Materials Today: Proceedings
	Tribological characteristics of magnesium nanocomposites	5	8	16575-16579	Materials Today: Proceedings
Dr.P.S.Prem Kumar Et al	Drag reduction of Non-circular cylinder at subcritical Reynolds Number	12	1	187-194	Journal of Applied Fluid Mechanics

	Drag reduction study of a 2D metal projectile series using SU2 code	-	-	-	Applied Aerodynamics Conference ,AIAA 2018-4128
Mr. Senthil Kumar M Et al	Numerical and Experimental Investigation on the Aerodynamic performance of roller Airfoil	10	4	637-642	International Journal of Engineering and Technology
	Investigation of hardness and Surface roughness in end milling Glass fibre reinforced polymer composite	-	-	109-112	Metalurgija
	Acoustic Analysis and Comparison of Chevron Nozzle Using Numerical Simulation	8	7	1089-1103	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
	Numerical Investigation on Vibration Reduction In Helicopter Main Rotor Using Air Blown Blades	8	7	152-164	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
	Improved Reversible Data Hiding Through Image Using Different Hiding and Compression Techniques	8	2s2	327-330	International Journal of Innovative Technology and Exploring Engineering
	An experimental investigation on the influence of Bio-inspired tubercle in the unmanned aerial Vehicle propeller	8	7	404-409	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)

	Investigation of Energy harvesting in Aircraft seats using Bucky paper	4	-	9072-9080	Materials Today: Proceedings
Mr. Senthil Kumar S Et al	A Dynamic Response And Stability Analysis Of Hybrid UAV With The Linear Controllers	8	7	330-342	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
	Mathematical Modelling and Attitude Control of Quadcopter based on Classical Controller	10	5	318-323	International Journal of Vehicle Structures & Systems
Mr.R.Arul Prakash Et al	Design optimization of convergent - divergent nozzle Using computational fluid dynamics approach	9	Special Issue 1	220-232	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
Mr.K.Naveen Kumar Et al	Comparative approaches for fatigue life estimation of aluminium alloy for aerospace applications	10	4	-	International Journal of Vehicle Structures and Systems
	The Design And Fatigue Analysis Of Gas Turbine Annular Combustor Flame Tube	8	7	313-329	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
	A Study On The Forest Fire Detection Using Unmanned Aerial Vehicles	8	7	165-171	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)

	Comparative Computational Investigation of Aerofoil Performance with and without Vortex Generators	8	2	1-16	Journal of Instrumentation Technology & Innovations
Mr.R.Vijay Anandh Et al	Design Optimization of Advanced Multi-rotor Unmanned Aircraft System Using FSI	28	-	1-12	Lecture Notes in Mechanical Engineering, Springer Nature Singapore Pte Ltd.
	Material Optimization of High Speed Micro Aerial Vehicle using FSI Simulation	133	1	2-9	Procedia Computer Science,Elsevier
	The Conceptual Design Of The Tilt-Copter Based On The Speech Control (A Theoretical Approach)	8	7	423-439	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
	Numerical Study On Drag Effect Of Waste Collector Attachment In The Train	8	7	1060-1078	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
Mr.R.Vijay Anandh Et al	Design and Fabrication of Solar Powered Unmanned Aerial Vehicle for Border Surveillance			61-71	Springer International Publishing, Springer Series in Geomechanics and Geoengineering
	Comparative computational thermal analysis of gas Turbine engine turbine-blade coated with and Without lanthanum zirconate	8	7	1079-1088	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)

Mr.G.Raj Kumar Et al	The Design Optimization Of The Circular Piezoelectric Bimorph Actuators Using FEA	8	7	410-422	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
	The mechanical characterization of carbon fiber Reinforced epoxywith carbon nanotubes	9	Special Issue 1	243-255	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)

List of Books/Chapters published during the assessment years

Name of the Faculty	Title of the Book/Book Chapter	Year of Publishing	Publisher
Dr.S.Jayalakshmi	Bioinspired Solutions for MEMS Tribology	2018-2019	IGI Global