

**Journal Publication Details (2017 – 2018)**

Author	Title	Vol. No	Issue No	Page no	Journal
Dr.K.Sundararaj Et al	Numerical Investigation of a Round Jet Normal to a Cross flow: Application to Pollutant Dispersion	24	4	164-168	Ecology, Environment and Conservation
Dr.V.R.Sanal Kumar Et al	A closed-form analytical model for predicting 3D boundary layer displacement thickness for the validation of viscous flow solver	8	2	-	American Institute of Physics
	Development of the Multifactorial Computational Models of the Solid Propellants Combustion by Means of Data Science Methods - Phase I	-	-	-	Joint Propulsion Conference, AIAA Propulsion and Energy Forum, (AIAA 2017-5078),
	Diagnostic Investigation of Reacting Flow Characteristics of a Cavity Based Scramjet with Multiple Bumps	-	-	-	AIAA Propulsion and Energy Forum, (AIAA 2017-4987),
	Diagnostic Investigation of Liftoff Jet Noise at Different Shapes of Mobile Rocket Launch Pads	-	-	-	AIAA Propulsion and Energy Forum, (AIAA 2017-4967
	3D Numerical Studies on Variable Thrust Propulsion of Rhinoceros Beetle at Creeping Flow Conditions	-	-	-	AIAA Propulsion and Energy Forum, (AIAA 2017-4968)
	Conceptual Studies on Thrust Vector Control Using Cascaded Arc Plasma Jet	-	-	-	Joint Propulsion Conference, AIAA Propulsion and Energy Forum(AIAA 2017-4869)
	Conceptual Design and Shape Optimization of a Pintle Nozzle for Controllable Thrust Propulsion and Steering	-	-	-	AIAA Propulsion and Energy Forum, (AIAA 2017-4870)

	Flame Spread Studies on Additive Manufactured Porous Propellant Grains	-	-	-	AIAA Propulsion and Energy Forum, (AIAA 2017-4704)
	Studies on Oscillating Boundarylayer During the Ignition Transient of Dual-thrust Solid Rocket Motors	-	-	-	AIAA Propulsion and Energy Forum, (AIAA 2017-4691)
	Comprehensive Studies on the Aerodynamic Characteristics of Subsonic Scarf Inlets	11	8	-	International Journal of Aerospace and Mechanical Engineering
	3D Numerical Studies and Design Optimization of a Swallowtail Butterfly with Twin Tail	11	8	-	International Journal of Aerospace and Mechanical Engineering
	Mechanical Characterization of a Thick-Walled Viscoelastic Hollow Cylinder under Multiaxial Stress Conditions	917	-	329-336	Trans Tech Publications
S. Jayalakshmi Et al	Metallic Glasses as Potential Reinforcements in Al and Mg Matrices: A Review	6	40	Jan-17	MDPI
	Structure-property correlation of magnesium nanocomposites synthesized by disintegrated melt deposition technique	5	8	16575-16579	Materials Today
	Tribological characteristics of magnesium nanocomposites	5	8	16280-16285	Materials Today
	Innovative approach for suppressing corrosion of SS304 stainless steel in saline water environment	65	5	484-491	Anti-Corrosion Methods and Materials
Dr.P.S.Prem Kumar Et al	Investigation of engine oil-cooling problem during idle conditions on pusher type turbo prop aircraft	34	4	333-340	International Journal of Turbo and Jet Engines
	Study on influence of operating wind turbine on upstream and downstream	9	14	844-856	Journal of Advanced Research in

	flow using k-epsilon turbulence model				Dynamical and Control Systems
	Numerical analysis of aerodynamic gust response using the open-source SU2 code	9	14	1151-1165	Journal of Advanced Research in Dynamical and Control Systems
	Experimental And Numerical Study To Estimate Drag Effect Due To Cone Fore-Body On A Bluff Body Model	9	14	1166-1188	Journal of Advanced Research in Dynamical and Control Systems
	Effect of tungsten (W) on structural and magnetic properties of electroplated NiFe thin films for MEMS applications	5	4	046414	Materials Research Express, IOP Publishing
Mr.M.Senthil Kumar Et al	Conceptual Design and Computational Investigation of the Secondary inlet of Rotary-wing Aircraft Engine	9	14	1189-1209	Journal of Advanced Research in Dynamical and Control Systems
	Vibrational Fatigue Analysis of NACA63215 Small Horizontal Axis Wind Turbine blade	5	1	6665-6674	Elsevier Materials Today: Proceedings
Mr.S.Senthil Kumar Et al	Stabilization of single-axis gimbal system with cascade PID controller using relay feedback approach	-	Special Issue 14	827-843	Journal of Advanced Research in Dynamical and Control Systems
Mr.J.Darshan Kumar Et al	Power Optimization Of Unmanned Aerial Vehicles Using Solar Energy	9	14	910-929	Special Issue On Environment, Engineering & Energy
Mr.R.Arul Prakash Et al	Experimental investigation of Diesel Engine for various compression ratios' using Calophyllum as blend with Diesel	17	-	256 – 262	Nano Hybrids and Composites
	Performance and Emission Characteristics Investigation of Oxygen Enrichment in Diesel Engines	10	1	-	International Journal of Vehicle Structures & Systems

	Experimental investigation of oxygen enrichment in supercharged Diesel engine	24	March Supply issue	5-9.	Ecology, Environment and Conservation
Mr.K.Naveen Kumar Et al	Design and Optimization of Aerospike nozzle using CFD	247	1	-	Materials Science and Engineering
	Design, Fabrication and Simulation of Hexacopter for Forest Surveillance	12	12	3879 – 3884	ARPJ Journal of Engineering and Applied Sciences
Mr.R.Vijay Anandh Et al	Numerical Study on Structural Health Monitoring for Unmanned Aerial Vehicle	9	Sp– 6	1937 - 1958	Journal of Advanced Research in Dynamical and Control Systems
	Design, fabrication of Tilt-Hexacopter with image processing for critical applications	118	9	935-945	International Journal of Pure and Applied Mathematics
	Material Optimization of High Speed Micro Aerial Vehicle using FSI Simulation	133	-	02-Sep	Procedia Computer Science
Mr.G.Raj Kumar Et al	Conceptual design and structural analysis of composite micro aerial	Vol. 9.	Sp– 14	857	Journal of Advanced Research in Dynamical and Control Systems
	Experimental Testing and Numerical simulation on Natural Composite for Aerospace Application	-	-	090045	AIP conference proceedings

#### List of Books/Chapters published

Name of the Faculty	Title of the Book/Book Chapter	Year of Publishing	Publisher
Dr.S.Jayalakshmi	Aluminum and Magnesium Metal Matrix Nano composites	2017-2018	Springer, Springer Singapore