

ASET 2018

List of Accepted Papers for POSTER Presentation

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Solid Propulsion			
1	Start-up transient characteristics of solid motor with wet propellant surface – A numerical study	Khadar Voli. K, Deepak sharma, Prasanth. C, Kiran. P, Jeenu. R and Jayaprakash. J, VSSC	025
2	Grain Design and Performance Prediction of High Thrust Motors for Crew Escape System	Prasanth C, Kiran Pinumalla, Khadar Voli. Kalluru, Deepak Sharma, Jeenu R, Jayaprakash J, VSSC	026
3	Nozzle flow separation studies through subscale solid motor tests	Mansu N, Harikrishnan R, Ajith M, Dileep KN, Jasperlal C, Levin G, VSSC	031
4	Design, Development and Performance Evaluation of an Acrylic based Hybrid Rocket Motor	Hrisheekesh K, Sujithkumar R, Aravindakshan Pillai L, G. Levin, VSSC	038
5	An Experimental Study On The Coupled Heat Source And Heat Sink Effects On Solid Rocket Motors	Samanyu Raina, Ajinkya, Vinayak Malhotra, SRMIST	040
6	Propulsive Performance of Aluminum Water Gelled Composite Propellant	M. G. Gautham and P. A. Ramakrishna, IITM	043
7	Development Of Low Altitude Escape Motor – A Reverse Flow Multiple Nozzle Solid Rocket Motor	K Sreejith, Shailesh Prasad, R.Bagavathiappan, V Eswaran, VSSC	055

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8	Geometrical effects and optimization of heat source assisted combustion on solid rocket motors	Minal Jain, Vinayak Malhotra, SRMIST	091
9	Secondary defenses for enhanced reliability of solid motor segment joints	Arun Krishnan, R Jayachandran, Thomson M Jacob, Eswaran V, VSSC	123
10	Development of cork phenolic thermal protection system for solid rocket boosters	S Kartheekeyan, Dr. SK Manu, Samir Kumar Das, KP Vijayalakshmi, N.Sreenivas, S.Jayarajan, SA Ilangovan, Nitish Kumar, V.Eswaran, VSSC	124
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1	Experimental and analytical correlation for Discharge coefficients of Choked Orifices for elements of Liquid Propulsion Systems	S.Ganesh, ICET, G.Sai Vedachalam, CMEST IPRC	009
2	Twin engine liquid propellant stage propellant loading estimation - A simulation study	Jagadeesh Peddiraju, C. Suresh Kumar, LPSC(V)	023
3	Design and Analysis of a High Pressure Ratio and High Mass Flow Centrifugal Compressor	Lakshya Kumar, R. Senthil Kumaran, NAL BLR	058
4	Failure Detection and Rectification of Feedback Temperature Sensor for Propulsion Control Systems using Intelligence Systems	Ezhilrajan.E , S.Rajapandian, L.S.Titus, S.Pandian, IPRC	061

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5	Numerical and Experimental Study on Pressure-Flow transients across a Control valve in a Fluid Transfer Line	Nikhil Suri, Wasim Ahmed, Venkateswaran K.S., Dr. Ramesh T. , IPRC	062
6	Experimental Investigation of Liquid Jet in Cross-flow Atomization	Anusai R , Muthukumaran C. K., K. Nandakumar, GireeshkumaranThampi B.S., CUSAT	064
7	Planar Laser-Induced Fluorescence (PLIF) Visualization of Two Phase Annular Flow	Shashidhar W, Vinil Kumar R R, Pradeep Kumar P, Aravind Vaidyanathan, IIST	071
8	Effects of subcavity in supersonic flow over a cavity	Chintan Panigrahi, Aravind Vaidyanathan, Manoj T.Nair, IIST	075
9	Development of 1-D code in MATLAB for design of Piston-less Pump for pumping Liquid propellants in Rockets	Anoop R, Dipak Prasad, Jithesh Sivadas, Sajin M R, LPSCV	082
10	Experimental Study Of Mixing Characteristics On Circular And Non – Circular Jets	Surya.S, Swetha Sri.S, Garima Namdeo, Suresh Chandra Khandai, RECT, CHENNAI	117
11	Numerical simulation of liquid propellant outflow from a tank through a wire-mesh filter.	Sourabh Karmarkar, V. Nandakumar, G.Vijayakumar*, S.Joseph, LPSCV	120
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2	Effect of Aluminum Nano Particles on burning rate of Isrosene	Amit Kumar Yadav, Subhash P. B., Shibu Mathew, Nandakumar K, LPSCV	024
3	LH2 Flowmeter For Closed Loop Propellant Utilisation System In Cryogenic Upper Stage (C25) For GSLV MkIII Vehicle	Ravisankar K C, Anup Antony, Rijin. K V, M.Xavier, Jose Paul, M S Suresh, LPSCV	048
4	Flow Calibration Studies On The Gas-Liquid Injector Element And Development Of A Numerical Model For The Same	Rajakumaran Nair R, Chaithanya Kota, Kanthasamy M, Suresh M.S, Jayan N, LPSCV	078
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