

LIST OF PUBLICATIONS BY FACULTY IN 2019 -20

1. RASHICKHA D.S ET AL. AND V.R.SANAL KUMAR "HARVESTING ELECTROMAGNETIC WAVES USING COPPER COIL FOR DEEP SPACE PROPULSION." AIAA PROPULSION AND ENERGY 2020 FORUM, AUGUST 24-28, 2020, AIAA 2020-3657, <https://doi.org/10.2514/6.2020-3657>
2. AMRITH MARIAPPAN ET AL. AND V.R.SANAL KUMAR "THE APPLICATION OF THE ENERGETIC MATERIALS GENOME APPROACH FOR DEVELOPMENT OF THE SOLID PROPELLANTS THROUGH THE SPACE DEBRIS RECYCLING AT THE SPACE PLATFORM." AIAA 2020-3898, AIAA PROPULSION AND ENERGY 2020 FORUM, AUGUST 24-28, 2020, <https://doi.org/10.2514/6.2020-3898>
3. RAHUL PRADEEP AND THIANESH U.K ET.AL. AND V.R.SANAL KUMAR "CONCEPTUAL DESIGN AND CONTOUR OPTIMIZATION OF ALTITUDE COMPENSATION NOZZLES FOR SSTO VEHICLES."AIAA 2020-3922, AIAA PROPULSION AND ENERGY 2020 FORUM, AUGUST 24-28, 2020, <https://doi.org/10.2514/6.2020-3922>
4. VICTOR S ABRUKOV ET AL., THIANESH U.K AND AMRITH MARIAPPAN AND V.R.SANAL KUMAR, "GENOME APPROACH AND DATA SCIENCE METHODS FOR ACCELERATED DISCOVERY OF NEW SOLID PROPELLANTS WITH DESIRED PROPERTIES."AIAA 2020-3929, AIAA PROPULSION AND ENERGY 2020 FORUM, AUGUST 24-28, 2020, <https://doi.org/10.2514/6.2020-3929>
5. V.R.SANAL KUMAR ET AL., ANANDMOORTHY AND MOHAN E ET AL., DEFLAGRATION TO DETONATION TRANSITION IN CHEMICAL ROCKETS WITH SUDDEN EXPANSION / DIVERGENCE REGIONS."AIAA 2020-3520, AIAA PROPULSION AND ENERGY 2020 FORUM, AUGUST 24-28, 2020, [HTTPS://DOI.ORG/10.2514/6.2020-3520](https://doi.org/10.2514/6.2020-3520)
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7. DR PREMKUMAR PS ER.AL "INVESTIGATION OF COMPUTATIONAL FLOW FIELD OVER A RE-ENTRY CAPSULE AT HIGH SPEED" FME TRANSACTIONS 48 (3), 551-556, 2020.
8. PS PREMKUMAR, S MANO, M SUBHAS, L NARASHIMAN, SN PILLAI AERODYNAMIC CHARACTERISTICS OF ADVANCED AIRSHIP SHAPE—A COMPUTATIONAL INVESTIGATION AIP CONFERENCE PROCEEDINGS 2270 (1), 040016, 2020.
9. PS PREMKUMAR, KR ARANGANAYAGAM, G MEENA, R ARULPRIYA, D NANDHINI ,STRUCTURAL, OPTICAL AND THERMAL ANALYSIS OF ZINC BASED AEROGEL COMPOSITE MATERIALS , AIP CONFERENCE PROCEEDINGS 2270 (1), 030010, 2020.
- 10.DR PREMKUMAR PS, N.ANITHA, C.VIJAYALAKSHMI ,A NEW PARADIGM IN MISSION PLANNING WITH UNMANNED AERIAL VEHICLES USING FUZZY OPTIMIZATION TECHNIQUES , INTERNATIONAL JOURNAL OF ADVANCED SCIENCE AND TECHNOLOGY 29 (7), 8108-8114, 2020.
- 11.PS PREMKUMAR, M SURESHMOHAN, K SIYULY, S VASANTHAKUMAR, R NAVEEN KUMAR, S DENIELAGRENE, S SANJAYKUMAR, EXPERIMENTAL STUDY ON THE PERFORMANCE OF MICRO-AERIAL

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 13. M. SENTHIL KUMAR, R. VIJAYANANDH, G. RAJ KUMAR, B. SANJEEV KUMAR, B. NISHANTH, M. RAMESH, AND S. BALAJI, NUMERICAL AND EXPERIMENTAL PERFORMANCE ESTIMATIONS OF THE PASSENGER TRAIN WITH WASTE COLLECTOR NEAR WINDOWS, 3RD INTERNATIONAL CONFERENCE ON “ADVANCEMENTS IN AEROMECHANICAL MATERIALS FOR MANUFACTURING”, AIP CONFERENCE PROCEEDINGS 2317, 050007 (2021), <https://doi.org/10.1063/5.0036183>.
 14. S. SENTHIL KUMAR AND G. ANITHA (2021). A NOVEL SELF-TUNING FUZZY LOGIC-BASED PID CONTROLLERS FOR TWO-AXIS GIMBAL STABILIZATION IN A MISSILE SEEKER. INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, VOL.2021, PP.1-12. [HTTPS://DOI.ORG/10.1155/2021/8897556](https://doi.org/10.1155/2021/8897556)
 15. SENTHIL KUMAR, S & ANITHA, G (2021), ‘FUZZY LOGIC-BASED SELF-TUNING PID CONTROLLERS USING PARAMETERS ADAPTIVE METHOD FOR STABILIZATION OF A TWO-AXIS SEEKER GIMBAL’, IETE JOURNAL OF RESEARCH, PUBLISHED ONLINE: 27 OCTOBER 2021, PP. 1-10.
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 17. J DARSHAN KUMAR, RANI THOTTUNGAL, R VIJAYANANDH, EFFECTIVE MONITORING BY DRONE USING ADVANCED DEEP MACHINE LEARNING STRATEGIES WITH IOT, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, VOLUME 22, PAGES 1246-1258, 2021.
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 19. ARUL PRAKASH, VIJAYANANDH RAJA, G. RAMESH, INVESTIGATION OF AUTOMOTIVE DISC BRAKE'S MATERIAL BASED ON TRIBOLOGICAL PARAMETERS BY USING COMPUTATIONAL STRUCTURAL ANALYSIS, DOI: 10.1002/9781119818878.ch10 IN BOOK: TRIBOLOGY AND CHARACTERIZATION OF SURFACE COATINGS. JANUARY 2022.
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