

Name	Paper No.	Paper Title	Poster ID (on-site)
Yao-Chung Hsu	0205	An on-orbit operation analysis of the hydrogen peroxide propulsion system in the remote sensing satellite: long-term storage and compatibility aspect	001
Thomas Clayson	0202	Magdrive next generation electric propulsion, to address the rapidly changing space environment and market	002
Chih-Yu Chiang	0194	Testing and verification equipment in NCKU D4 space laboratory	003
Po-Ming Lin	0192	Design and Implementation of a Three-Mirror Anastigmat Telescope for CubeSat with Simplified Alignment	004
Wan-Ting Huang	0184	Implementation of a recursively lossless compression method for star-tracker images	005
Tzu-En Yen	0181	Simulation of a Multiple Space Particle Energy Spectrum Analyzer	006
Ya-Chu Tsai	0178	Space Weather Ionosphere Probe	007
Sheng-Cheng Tsai	0177	Simulation of the all-sky electrostatic analyzer	008
Po-Yuan Tung	0174	A correlation study of satellite structure using finite element method	009
Kai-Sheng Chen	0172	tray Light Analysis and Suppression for the Optical Telescope System of Remote Sensing Instrument (RSI) in the FORMOSAT-8 Satellite	010
Chen-Hao Wang	0167	Numerical Study on the Influence of MLI for High Aspect Ratio Component	011
Wei-Chung Huang	0166	Verification of DVB-S2 System Receiver Demodulator Design Using SDR Platform	012
Sheng-An Wei	0162	Research on Bolt Friction Coefficients in Satellite Structures: A Study of Material Friction Coefficients	013
Yi-Yun Lai	0161	Increase Precision of GNSS Data Collection during CIP Operation on PEARL-1C	014
Bo-Shiun Shen	0160	Thermal Simulation of an On-Orbit Satellite with Verification Using STK	015
Wei-Rong Huang	0159	Integration and In-Orbit Operations of PEARL CubeSats	016
Chien-Liang Lai	0156	Total Ionizing Dose Effects in COTS H-bridge Driver	017
ZhaoYu Huang	0149	Preliminary Thermal Analysis of the All-Sky Type ESA (Electrostatic Analyzer) for the Lunar Daytime Environment Using Finite Element Method	018
Yun-Ru Chen	0147	Comparing Ground Testing and In-Orbit Performance of the Attitude Determination and Control Subsystem (ADCS) in PEARL CubeSats	019
You-Jun Chen	0145	Mitigating File Transfer Failures in CubeSat OBC-ADCS Communication	020
Yu-An Tsai	0144	Thermal Analysis of Optical-Mechanical System of the CubeSat Liliu II	021
Tzu-Hsin Lin	0142	The Measurement and Verification of High-Speed Image Transmission Paths Between Subsystems of FORMOSAT-8 Satellite	022
Yi-Chen Li	0141	Digital Pre-distortion (DPD) for Satellite Communications	023
Chen-Hao Wang	0139	Vanadium Dioxide Based Thermochromic Thin Film with Tuned Transition Temperature	024
Chung-En Hsiao	0138	Development of a High-Reliability 3U CubeSat Electrical Power System	025
Kuan-Chieh Wu	0132	Analysis and Implementation of S3R and SiC N-MOSFET Latching Current Limiter for Satellite Power Systems	026
Chen-Joe Fong	0131	Beyond 5G Satellite Commercial-Off-The-Shelf Component Environmental Verification Process and Challenges	027
Tzu-Huan Cheng	0129	Development and Performance of Indigenous CubeSat Solar Panels in Taiwan	028
Tzu-Huan Cheng	0128	Defect Identification in Space Solar Cells Using Photoluminescence and Electroluminescence Imaging	029

Yi-Gui Chen	0127	Design and Safety Optimization of EGSE Power Test Rack	<b>030</b>
Chi-Teng Chen	0126	Design and Implementation of a Novel Integrated Power Topology for Cathode Circuit of Hall Thruster	<b>031</b>
Chen-Yu Wang	0125	Verification and Future Functional Optimization of the Compact Ionospheric Probe on CubeSat	<b>032</b>
Yi-Gui Chen	0124	XPSOC: An Independent Development Solution for Multi-Satellite Test Control System	<b>033</b>
Wei-Hsun Cheng	0122	The Baffle Design Analysis for Stray Light Inspection of Monolithic Telescope by using Non-Sequential Optical Software	<b>034</b>
Jhen-Syuan Huang	0119	Design and Theoretical Model of a Rotary-Split Stirling Cryocooler Used for Thermal Control Subsystem of Satellite	<b>035</b>
Feng-Jui Yang	0116	A Lesson Learned from Star Tracker Development to Establish Blueprint for Independent Design of Space Components	<b>036</b>
Yi-Jie Su	0113	Design of a Double-Sided Rotor Axial Flux Motor with PCB-Integrated Stator and Redundant Hall Sensor for Satellite ADCS	<b>037</b>
Tan-Ying Yu	0111	Automatic Stray Light Measurement System for Space Telescopes	<b>038</b>
Yao-Wen Hsu	0107	Simulation of Impact from Deployed Accuracies to a Three-Panel Phased Array	<b>039</b>
Wang-Chuan Lu	0106	Space Verification and Validation of the Self-designed Star Tracker for Satellites	<b>040</b>
Shih-Tse Chang	0103	A study of the active degaussing scheme for the remanence in a magnetic torquer	<b>041</b>
Chung-Lin Yang	0102	Verify the Dynamic Characteristics of Structural Parts by Using Impact Hammer Modal Testing	<b>042</b>
Eric Huang	0100	An Efficient Function Test and Certification of Image Data Stream Downlink for Optical Remote Sensing	<b>043</b>
Tzu-Huan Cheng	0098	A Study on Reducing Surface Reflectivity of Satellite Imaging System Reflective Surfaces Using 3D Laser Microstructures and Aerospace-Grade Black Paint	<b>044</b>
Chi-Yun Chen	0097	Receiver Module of Stray Light Measurement System for Space Telescopes	<b>045</b>
Chen-Yu Chan	0096	AOCS Design Considerations for Sun-Synchronous Orbits with Various Local Time of the Descending Node: A Case Study	<b>046</b>
Yen-Ting Chen	0090	B5G Experimental S-band Transceiver Thermal Analysis	<b>047</b>
Tzu-Hui Yu	0088	The thermal influence of surface treatment on satellite components.	<b>048</b>
Yu-Shun Wang	0084	Very Basic Operating System (VERBOS) for SCION-X 12 U CubeSat Flight Software	<b>049</b>
Yu-Shun Wang	0083	Mission Concept and System Integration of Kinetic Optical Yaw Observer (Koyo)	<b>050</b>
Cheng-En Ho	0079	FORMOSAT-8 Satellite Thermal Vacuum and Thermal Balance Test Plan	<b>051</b>
Jhe-Wei Lin	0077	High Vacuum Test Facility for Satellite Propulsion Development in TASA	<b>052</b>
Liang-Tang Chen	0075	Demonstration of acquisition and tracking test in laser communication under jitter environment	<b>053</b>
Roger Lien	0073	Comparison between PST and collimation beam stray light analysis	<b>054</b>
Chih-Hsuan Shih	0070	The Importance of Computer-Generated Holograms and Null Techniques in Future Ultra-Precision Targeting Imaging Systems	<b>055</b>
Chang-Shiu Jiang	0068	Analysis of Sensitivity for an 800mm Aperture Space Telescope in LEO Environments	<b>056</b>
Li-Siang Shen	0065	Performance Standards and Testing for High-Reflectance Optical Thin Films in Space Applications	<b>057</b>
Shih-Yu Chen	0064	Verification of Satellite Attitude Determination and Control System using Hardware-in-the-Loop Simulation	<b>058</b>
Chien-Hsien Lin	0058	Initial Application of Model-Based System Engineering to FORMOSAT-9 Mission	<b>059</b>

Liu-Yen Ting	0057	Modal Testing and Simulation Verification for Shock Test	<b>060</b>
Jen-Sheng Liu	0055	FORMOSAT-8B RCS Pressure Transducer Vibration Test	<b>061</b>
Chien-Hsien Lin	0049	FORMOSAT-9A Updated Mission and System Analysis Results Since System Design Review	<b>062</b>
Chia-Ling Hsu	0046	Structural Analysis and Vibration Testing of XPAA Component Brackets	<b>063</b>
Feng-Ming Tsai	0044	The Low Noise Fiber Optic Gyroscope (FOG) Inertial Reference Unit (IRU) Verified in Low Earth Orbit (LEO) Environment	<b>064</b>
Huang, Zi-Cheng	0042	Research on the development of second-order computer generate hologram diverging lens for aspherical surface interference measurement	<b>065</b>
Huang, Zi-Cheng	0041	Study of the Binary Computer-generated Hologram as the Wavefront Compensator on the Interferometric Metrology of High-precision Aspheric Optics	<b>066</b>
Yi-Chen Tseng	0039	Algorithm Development for Angular Velocity Estimation in Star Trackers Using Smeared Star-based Images	<b>067</b>
Yung-Chieh Hsu	0034	A study of vibration response suppression of damping pad	<b>068</b>
Yuwen Chang	0033	Development of a Simple Multi-Panel Deployment Mechanism for Solar Panels on 3U CubeSats	<b>069</b>
Chi-Hao Chan	0027	Orbit Maintenance for LEO Satellite	<b>070</b>
Shu-Chao Hsieh	0016	K and Ka-Band Scalable Phased-Array Transceiver for SATCOM Applications	<b>081</b>
Li-Yan Chen	0015	Overview of Mechanical Design Integration in FORMOSAT-9 Satellite Program	<b>082</b>
Cheng-Wei Huang	0014	The UAV verification platform for high-payload airborne tests	<b>083</b>
Huan Yung Liao	0011	Development of High Strength Aluminum Alloy for Aerospace Applications	<b>084</b>
Chia-Wen Hsu	0010	High-reliability MOSFETs Validation of the space environment	<b>085</b>
Sheng-feng Lin	0007	Compact multi-channel free space optics for intersatellite communication	<b>086</b>
Wei-Chuan Wu	0006	Formosat-8A Satellite Condensed Model Description-Stiffness matrices, Mass matrices, ATM, DTM and LTM for Coupled Load Analysis (CLA)	<b>087</b>
Casey Yi-Cheng Chen	0001	Maeden Innovation (Manufacturer of cables, Dynamic Conductors and Tinsel wires)	<b>088</b>
Shiang-Yan Peng	0110	Light Trapper designed for Korsch-Type Telescope Stray Light Inspection	<b>089</b>
Jui-Che Tsai	0104	The evaluation of solar cells degradation by space radiation	<b>090</b>
Ting-Ming Huang	0051	Opto-Mechanical Design and Analysis of Formosa Lunar Ultraviolet Telescope Experiment (FLUTE)	<b>091</b>
Yu-Yao Cheng	0037	Experimental Observation of Ethylene/Nitrous Oxide Nontoxic Oxidizer-Fuel Blend Flame Structure	<b>092</b>
Ko-lun Chang	0197	Optimizing Hypergolic Solid Fuels Based on Paraffin Wax for High-Performance Hybrid Propulsion	<b>093</b>
Wang RenyuRenyu Wang	0189	Analysis of Design Conditions for Liquid Engine Injectors	<b>094</b>
Dong-Yuan Li	0158	Testing and Validation of Long-Distance High-Speed Rocket TT&C Communication Systems	<b>095</b>
Fan-Yu Lin	0146	Enhancing Efficiency and Cost Reduction in Sounding Rocket Development: Modularization, Standardization, and Empowering Young Talents	<b>096</b>
Chiao-Yi Tsai	0120	Design and Analysis of a 2500 N Monopropellant Thruster System	<b>097</b>
Yen-Ting Hou	0114	Transfer and Pre-flight Initial Alignment for HTTP-4 Rocket Navigation System	<b>098</b>
Jan, Cho	0099	Analysis of Sloshing Issue in Ascent-Phase Launch Vehicle Attitude Control	<b>099</b>

Guan-Yu Pan	0095	Three-dimensional CFD simulation of a hybrid rocket with swirl injection	<b>100</b>
Gary Hung	0089	High Availability Computation Management Unit - UltraScale+ PMU -Development & Groundworks	<b>101</b>
Lin-Yi Mei	0087	Hybrid Rockets: Development of Engine Fuel	<b>102</b>
Wen-Hau Shiu	0078	Development and Application of Lithium Battery Systems for Space	<b>103</b>
Cheng-Chih Ching	0076	Hybrid Rockets : Development of New Catalyst	<b>104</b>
Guan-Wei Fang	0072	Data Relay Based on Overseas Ground Stations for Long-Range Launch Vehicles	<b>105</b>
Sih-Shian Chiou	0069	Development of a Software Inertial Measurement Simulator for Testing Navigation Algorithms in Launch Vehicles	<b>116</b>
Shao-Hua Chang	0040	Investigation the Enhancement of Inertial Navigation Systems by Deep Learning	<b>117</b>
Kun-Hsiu Lee	0038	Research on Improving Catalyst Bed Performance for Hydrogen Peroxide Hybrid Rocket Engines	<b>118</b>
Chi-Yu Chung	0031	Performance Evaluation of Phased Array Antenna Systems Using a Sounding Rocket Platform	<b>119</b>
Jui-Chuan Tang	0021	Analyze the impact of component parameters on sounding rocket stability through sensitivity analysis	<b>120</b>
PO-SHUAN LAI	0190	Optimization of Efficiency for Vertical Axis Wind Turbines with Resistance-Type Systems	<b>121</b>
Heng-Ming Hu	0204	Building the Next Generation of SATCOM User Terminals: Insights from Design and Development	<b>122</b>
Chiun-Lang Cheng	0198	Virtual Synchronous Generator Solution for Smart Energy Storage System	<b>123</b>
Ming-Yen Wei	0188	Five Programming Techniques to Significantly Improve LabVIEW High-Speed Module Verification System for Electrical Ground Support Equipment (EGSE)	<b>124</b>
Hsiang-Wen Cheng	0165	Satellite Flight Dynamics Analysis Under Frequent Solar Activities	<b>126</b>
Yung-Chun Chiang	0154	Feasibility and Efficiency of Microgrid Systems for Power Supply at Remote Antenna Base Stations: A Case Study of Integrating Diesel Generators with Energy Storage Systems	<b>071</b>
Chiao-Ying Chou	0130	Enhancing Global Access to TASA's Satellite Imagery and Applications	<b>072</b>
Yu-Lin Kuo	0123	A feasibility test of Low-cost Software-Defined Radio (SDR) for receiving and processing signals from a satellite antenna	<b>073</b>
Michael Ting-Chang Yang	0105	Enhancing Software Development at SOCC with Virtual Machines	<b>074</b>
Chien-Ying Yang	0080	The System Architecture of the FORMOSAT-9 Image Processing System Using Docker and Kubernetes	<b>075</b>
John Wang	0153	Microservice Design Study of SAR Data Management System	<b>0127</b>
Yi-Hsuan Hsieh	0135	Timing Correction Using GNSS Position Data and TLE Orbit Predictions for PEARL-1C CubeSat's Telemetry	<b>0128</b>
Hsing-Dung Gung	0108	Nomadic ground station data receiving software and operation integrated management system	<b>0129</b>
Yi-Shan Chu	0094	Improvement of EVAP for Disaster Analysis Using Transformer-based AI Models	<b>0130</b>
Hsing-Yu Wu	0091	Establishing an Intelligent Automated Data Collection Facility for Large-Aperture Optical Components	<b>0131</b>
Sing-Wun Fang	0036	Impact of Solar Activity on FORMOSAT-5 Satellite Orbital Accuracy: The Necessity of Frequent TLE Updates (2020-2024)	<b>0132</b>
Yu-Lin Tsai	0026	Software Architecture Design for Formosat-9 Data Processing System	<b>0133</b>
Peng-Yu Chen	0023	Simulation of Source and Channel Coding in Software for Satellite Synthetic Aperture Radar Data	<b>0134</b>

Peng-Chun Peng	0020	Study of the Millimeter-Wave Beamforming Module for Fiber-Wireless Communication System	<b>0135</b>
Peng-Chun Peng	0019	Performance Study on the Integration of Open Radio Access Network and Terrestrial Optical Wireless Communication	<b>0136</b>
Peng-Chun Peng	0018	Feasibility Study of Terrestrial Optical Wireless Communication System in Various Weather Conditions	<b>0137</b>
Tzu-Yu Lin	0207	Launching the Youth into Space — Taiwan Space Generation's Endeavor in Boosting the Taiwan's International Visibility	<b>0138</b>
Jie-Yun Hung	0203	Space Insurance: Key Clauses to Improve Risk Assessment Framework	<b>076</b>
Fan Su	0196	Space Exploration: The New Frontier of International Competition and Cooperation	<b>077</b>
Ya-Chi Yang	0163	Legal Aspect of Satellite Frequency Coordination	<b>078</b>
Jiun-Ru Chiang	0152	Lunar Ambitions and National Security: Why Taiwan Must Look to the Moon in the Age of Space Rivalry	<b>079</b>
Feng-Tai Hwang	0093	A study on satellite light pollution issues of mega-constellation - origins, mitigation mechanisms and regulations	<b>080</b>
Lei Wang	0134	Taiwan's Opportunity in Collaborating with France in Space	<b>0139</b>