

Mengu Cho

List of Publications by Year in descending order

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54
papers

762
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567144

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54
docs citations

54
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Multi-Utility Spacecraft Charging Analysis Tool (MUSCAT). IEEE Transactions on Plasma Science, 2008, 36, 2336-2349.	0.6	91
2	Dielectric charging processes and arcing rates of high voltage solararrays. Journal of Spacecraft and Rockets, 1991, 28, 698-706.	1.3	66
3	Accomplishment of multi-utility spacecraft charging analysis tool (MUSCAT) and its future evolution. Acta Astronautica, 2009, 64, 495-500.	1.7	66
4	Charge transport properties of dielectrics revealed by isothermal surface potential decay. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1465-1473.	1.8	66
5	Ultra-Wideband (UWB) Antenna Sensor Based Microwave Breast Imaging: A Review. Sensors, 2018, 18, 2951.	2.1	46
6	Flexible Radio-Frequency Identification (RFID) Tag Antenna for Sensor Applications. Sensors, 2018, 18, 4212.	2.1	34
7	Metamaterial array based meander line planar antenna for cube satellite communication. Scientific Reports, 2021, 11, 14087.	1.6	34
8	Solar-Array Arcing Due to Plasma Created by Space-Debris Impact. IEEE Transactions on Plasma Science, 2008, 36, 2434-2439.	0.6	26
9	Surface and volume charge transport properties of polyimide revealed by surface potential decay with genetic algorithm. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 600-608.	1.8	23
10	Effects of Ultraviolet Irradiation and Atomic Oxygen Erosion on Total Electron Emission Yield of Polyimide. IEEE Transactions on Plasma Science, 2014, 42, 191-198.	0.6	20
11	Near-zero metamaterial inspired UHF antenna for nanosatellite communication system. Scientific Reports, 2019, 9, 3441.	1.6	20
12	Investigation Into Surface Potential Decay of Polyimide by Unipolar Charge Transport Model. IEEE Transactions on Plasma Science, 2013, 41, 3349-3358.	0.6	18
13	BIRDS-1 CubeSat Constellation Using Compact UHF Patch Antenna. IEEE Access, 2018, 6, 54282-54294.	2.6	18
14	Power Reduction of Solar Arrays by Arcing Under Simulated Geosynchronous Orbit Environment. Journal of Spacecraft and Rockets, 2004, 41, 854-861.	1.3	17
15	Laboratory Experiments for Code Validation of Multiutility Spacecraft Charging Analysis Tool (MUSCAT). IEEE Transactions on Plasma Science, 2008, 36, 2350-2359.	0.6	15
16	Spacecraft Charging Analysis of Large GEO Satellites Using MUSCAT. IEEE Transactions on Plasma Science, 2012, 40, 1248-1256.	0.6	14
17	Design and compatibility analysis of a solar panel integrated UHF antenna for nanosatellite space mission. PLoS ONE, 2018, 13, e0205587.	1.1	14
18	Earth Observation Mission of a 6U CubeSat with a 5-Meter Resolution for Wildfire Image Classification Using Convolution Neural Network Approach. Remote Sensing, 2022, 14, 1874.	1.8	14

#	ARTICLE	IF	CITATIONS
19	Space Station Freedom structure floating potential and the probability of arcing. Journal of Spacecraft and Rockets, 1992, 29, 830-834.	1.3	13
20	Evaluation of SRAM based FPGA performance by simulating SEU through fault injection. , 2013, , .		13
21	Development of a Direct Drive Vacuum Arc Thruster Passively Ignited for Nanosatellite. IEEE Transactions on Plasma Science, 2016, 44, 100-106.	0.6	9
22	Failure mechanisms and protection methods of spacecraft power system. , 2005, , .		8
23	Charge transport properties of insulators revealed by surface potential decay experiment and bipolar charge transport model with genetic algorithm. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 2206-2215.	1.8	8
24	Development of Flashover Current Simulator for ESD Ground Testing Simulating GEO Environment. IEEE Transactions on Plasma Science, 2012, 40, 321-323.	0.6	8
25	Development of Mission Payloads Onboard High Voltage Technology Demonstration Satellite HORYU-II. IEEE Transactions on Plasma Science, 2013, 41, 3477-3486.	0.6	8
26	A Solar Panel-Integrated Modified Planner Inverted F Antenna for Low Earth Orbit Remote Sensing Nanosatellite Communication System. Sensors, 2018, 18, 2480.	2.1	8
27	Electrostatic Discharge Tests of Solar Array Coupons With Different String-to-String Gaps Without RTV Adhesive Grout. IEEE Transactions on Plasma Science, 2012, 40, 351-358.	0.6	7
28	Development of an In-Orbit High-Voltage Experimental Platform: HORYU-4. IEEE Transactions on Plasma Science, 2015, 43, 3027-3040.	0.6	7
29	Microwave Imaging Sensor Using Low Profile Modified Stacked Type Planar Inverted F Antenna. Sensors, 2018, 18, 2949.	2.1	7
30	A Lean Satellite Electrical Power System with Direct Energy Transfer and Bus Voltage Regulation Based on a Bi-Directional Buck Converter. Aerospace, 2020, 7, 94.	1.1	7
31	Universal Verification Platform and Star Simulator for Fast Star Tracker Design. Sensors, 2021, 21, 907.	2.1	7
32	Charging and Discharge in Vacuum and Space. , 2007, , .		6
33	Effect of Atomic Oxygen Exposure on Surface Resistivity Change of Spacecraft Insulator Material. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2011, 9, 1-8.	0.1	6
34	Environment Exposure Tests of Electron-Emitting Film for Spacecraft Charging Mitigation. IEEE Transactions on Plasma Science, 2012, 40, 380-387.	0.6	6
35	Ground Experiments and Computer Simulations of Interaction Between Bare Tether and Plasma. IEEE Transactions on Plasma Science, 2008, 36, 2324-2335.	0.6	4
36	Investigation on Space Environmental Degradation Effects of Solar Cell Coverglass. IEEE Transactions on Plasma Science, 2013, 41, 3471-3476.	0.6	4

#	ARTICLE	IF	CITATIONS
37	Quantitative Evaluation of SRS Similarity for Aerospace Testing Applications. Shock and Vibration, 2021, 2021, 1-10.	0.3	4
38	Development of Low Cost Double Probe Plasma Measurement System for a Lean Satellite HORYU-IV. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pr_39-Pr_46.	0.1	3
39	Electrostatic Discharge Threshold on Coverglass Used to Protect Solar Cells in the Low Earth Orbit. IEEE Transactions on Plasma Science, 2019, 47, 1445-1452.	0.6	3
40	Total electron emission yields of typical polymers. , 2013, , .		2
41	Discharge Observation on Antenna Surface Radiating High-power Microwaves in Simulated Space Environment. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, 11-19.	0.1	2
42	Activity and strategy for lean satellite in Kyushu Institute of Technology. , 2015, , .		2
43	Initial Results From an In-Orbit High-Voltage Experimental Platform: HORYU-IV. IEEE Transactions on Plasma Science, 2017, 45, 1853-1863.	0.6	2
44	Application of Small Satellites for Low-Cost Remote Data Collection Using LoRa Transmitters. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2021, 19, 224-230.	0.1	2
45	Probability Distribution of Secondary Arc Duration on Solar Array. , 2008, , .		1
46	Classification of Countries Worldwide according to Satellite Activity Level. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pv_7-Pv_16.	0.1	1
47	Analysis of Charging of the HTV-4 Based on On-Orbit Data. IEEE Transactions on Plasma Science, 2019, 47, 3905-3914.	0.6	1
48	Implementation of Adaptive Antenna Array for Ground Station Tracking System. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2020, 18, 199-208.	0.1	1
49	Thermal vacuum test results for Virtex-5 FPGA based multi-core On-Board Computer. , 2014, , .		0
50	Performance analysis of an S-band antenna for nanosatellite payloads communication system. Microwave and Optical Technology Letters, 2018, 60, 2817-2820.	0.9	0
51	Guest Editorial Spacecraft Charging Technology. IEEE Transactions on Plasma Science, 2019, 47, 3629-3630.	0.6	0
52	Investigation of Sustained Arc under Solar Cell. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Tr_2_67-Tr_2_70.	0.2	0
53	Spectroscopic Measurement of Secondary Arc Plasma on Solar Array. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Pr_2_41-Pr_2_46.	0.2	0
54	Solar Array Panel Equivalent Circuit Model for Transient Analysis of Electrostatic Discharge. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Pr_2_41-Pr_2_47.	0.1	0