

Taichi Sugai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Influence of a Circuit Parameter for Plasma Water Treatment by an Inductive Energy Storage Circuit Using Semiconductor Opening Switch. IEEE Transactions on Plasma Science, 2013, 41, 967-974.	1.3	35
2	Waveform Control of Pulsed-Power Generator Based on Solid-State LTD. IEEE Transactions on Plasma Science, 2017, 45, 247-251.	1.3	26
3	Study of Pulsed Atmospheric Discharge Using Solid-State LTD. IEEE Transactions on Plasma Science, 2017, 45, 2323-2327.	1.3	22
4	Effects of Pulsed Power Control on Plasma Water Treatment Using LTD. IEEE Transactions on Plasma Science, 2018, 46, 3566-3573.	1.3	17
5	Investigation for Optimization of an Inductive Energy Storage Circuit for Electrical Discharge Water Treatment. IEEE Transactions on Plasma Science, 2014, 42, 3101-3108.	1.3	12
6	The Effect of Scale-Up of Pulsed Corona Discharge for Treatment of Pollution Water Sprayed in Discharge Gap. IEEE Transactions on Plasma Science, 2016, 44, 2204-2210.	1.3	12
7	Pulsed Voltage Adder Topology Based on Inductive Blumlein Lines. IEEE Transactions on Plasma Science, 2018, 46, 1816-1820.	1.3	12
8	Solid-State Marx Generator Circuit With Inductive Booster. IEEE Transactions on Plasma Science, 2021, 49, 378-382.	1.3	11
9	On the limits of multipactor in rectangular waveguides. Physics of Plasmas, 2020, 27, .	1.9	10
10	Influence of Rise Rate of Applied Voltage for Water Treatment by Pulsed Streamer Discharge in Air-Sprayed Droplets. IEEE Transactions on Plasma Science, 2013, 41, 2327-2334.	1.3	8
11	Investigation of optimum applied voltage for water treatment by pulsed streamer discharge in air-sprayed water droplets. Electrical Engineering in Japan (English Translation of Denki Gakkai) Tj ETQq1 1 0.784314 rgBT /@verlock	1.3	8
12	Influence of forward pumping current on current interruption by semiconductor opening switch. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1971-1975.	2.9	6
13	The Effect of Flow Rate and Size of Water Droplets on the Water Treatment by Pulsed Discharge in Air. IEEE Transactions on Plasma Science, 2015, 43, 3493-3499.	1.3	6
14	Solid-State Bipolar Linear Transformer Driver Using Inductive Energy Storage. IEEE Transactions on Plasma Science, 2021, 49, 2887-2892.	1.3	6
15	High-power microwave generation by double-anode virtual cathode oscillator. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2020, 210, 11-18.	0.4	5
16	Solid-State Marx Generator for Application to Dielectric Barrier Discharge. IEEJ Transactions on Fundamentals and Materials, 2020, 140, 36-39.	0.2	5
17	Marx Generators Based on MOS-Gated Switches With Magnetic Assist for Accelerator Applications. IEEE Transactions on Plasma Science, 2018, 46, 2114-2119.	1.3	4
18	The Effect of Oxygen and Argon Gas Flow Rate on OH Radical Production and Dye Decolorization by Pulsed Discharge in Spray Droplet Reactor. IEEE Transactions on Plasma Science, 2019, 47, 4560-4566.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Solid-State Linear Transformer Driver Using Inductive Energy Storage. IEEE Transactions on Plasma Science, 2020, 48, 3188-3192.	1.3	4
20	Analysis of multipactor in a rectangular waveguide using Spark3D software. Physics of Plasmas, 2020, 27, .	1.9	4
21	Solid-State Pulsed Power Generator Based on Blumlein PFN Using Saturable Pulse Transformer. IEEE Transactions on Plasma Science, 2021, 49, 3189-3192.	1.3	4
22	Voltage adding of pulse forming lines using inductive energy storage. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2211-2215.	2.9	3
23	Development of Solid-State LTD Module Using Silicon Carbide MOSFETs. IEEE Transactions on Plasma Science, 2019, 47, 5037-5041.	1.3	3
24	Measurement and Behavior Analysis of Beam Current Modulation in a Virtual Cathode Oscillator. IEEE Transactions on Plasma Science, 2021, 49, 3365-3370.	1.3	3
25	Application to water treatment of pulsed high-voltage generator using semiconductor opening switch. , 2012, , .		2
26	Amplification of Nanosecond Pulsed Power by Synchronization of Double Inductive Energy Storage Circuit. IEEE Transactions on Plasma Science, 2019, 47, 4506-4511.	1.3	2
27	Feedback control of pulsed-power generator based on solid-state linear transformer driver. Review of Scientific Instruments, 2021, 92, 084704.	1.3	2
28	Solid-State Marx Generator Circuit Based on Inductive Energy Storage. IEEE Transactions on Plasma Science, 2021, 49, 3377-3382.	1.3	2
29	Solid-State Marx Generator With Sharpening Capacitor. IEEE Transactions on Plasma Science, 2022, 50, 103-108.	1.3	2
30	The Effect of Pulse Discharge Control on Ozone Production. IEEE Transactions on Plasma Science, 2022, 50, 936-941.	1.3	2
31	Experimental characteristics of semiconductor opening switch diode. , 2014, , .		1
32	High Power Microwave Generation by Double-Anode Virtual Cathode Oscillator. IEEJ Transactions on Fundamentals and Materials, 2019, 139, 421-427.	0.2	1
33	Direct-Drive Oscillation of KrF Excimer Laser Using Pulsed Power Generator Based on LTD. IEEE Transactions on Plasma Science, 2021, 49, 3892-3896.	1.3	1
34	Investigation for development of high efficiency water treatment system using pulsed streamer discharge. , 2013, , .		0
35	Step-Down DC-DC Converter for Solid-State Marx Generator. IEEE Transactions on Plasma Science, 2021, 49, 3149-3153.	1.3	0
36	Solid State Marx Generator Using Both Capacitive and Inductive Energy Storage. , 2020, , .		0