Kazuo Shimizu

List of Publications by Year
in descending order

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78	644	516710 16	642732 23
papers	citations	h-index	g-index

80	80	80	464
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ozone Catalytic Oxidation for Gaseous Dimethyl Sulfide Removal by Using Vacuum-Ultra-Violet Lamp and Impregnated Activated Carbon. Energies, 2022, 15, 3314.	3.1	2
2	Effect of Plasma Discharge on Epidermal Layer Structure in Pig Skin. Plasma Medicine, 2021, 11, 1-13.	0.6	4
3	Direct and Indirect Bactericidal Effects of Cold Atmospheric-Pressure Microplasma and Plasma Jet. Molecules, 2021, 26, 2523.	3.8	19
4	Inactivation of Staphylococcus Aureus by Microplasma. , 2021, , .		2
5	Study on fine particle removal from the surface of a microplasma electrode by electrostatic force. Indoor Environment, 2020, 23, 141-150.	0.1	0
6	Activation of Water by Surface DBD Micro Plasma in Atmospheric Air. Lecture Notes in Networks and Systems, 2019, , 97-104.	0.7	2
7	Study of Induced EHD Flow by Microplasma Vortex Generator. IEEE Transactions on Plasma Science, 2019, 47, 5345-5354.	1.3	2
8	Analysis of Hexadecane Decomposition by Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2018, 54, 605-610.	4.9	3
9	Flow Control by Dielectric Barrier Discharge Microplasma. Advances in Intelligent Systems and Computing, 2018, , 169-175.	0.6	1
10	Dielectric Barrier Discharge Microplasma Actuator for Flow Control. , 2018, , .		2
11	Low-pressure N2 microplasma treatment for substrate surface cleaning prior to GaN selective growth. Japanese Journal of Applied Physics, 2018, 57, 085501.	1.5	0
12	Fundamental Study of Hexadecane Removal by Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2018, 54, 599-604.	4.9	0
13	Pharmacokinetics of Cyclosporine A of Transdermal Delivery Using Microplasma and Oral Administration. Advances in Intelligent Systems and Computing, 2018, , 161-168.	0.6	1
14	Effect of Plasma Treatment on Lipid Molecules in Stratum Corneum. , 2018, , .		0
15	Characteristics of an Atmospheric Nonthermal Microplasma Actuator. IEEE Transactions on Industry Applications, 2017, 53, 1452-1458.	4.9	7
16	Microplasma Actuator for EHD Induced Flow. IEEE Transactions on Industry Applications, 2017, 53, 2409-2415.	4.9	9
17	Feasibility of transdermal delivery of Cyclosporine A using plasma discharges. Biointerphases, 2017, 12, 02B402.	1.6	25
18	Surface Dielectric Barrier Discharge in Closed-Volume Air. Plasma Medicine, 2017, 7, 395-406.	0.6	3

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19	Basic study of fine particle removal using microplasma and its electrostatic effect. Japanese Journal of Applied Physics, 2017, 56, 01AC03.	1.5	2
20	Enhancement of Percutaneous Absorption on Skin by Plasma Drug Delivery Method. , 2017, , .		5
21	Effect of N2microplasma treatment on initial growth of GaN by metalâ€“organic molecular beam epitaxy. Japanese Journal of Applied Physics, 2016, 55, 081002.	1.5	0
22	Effect of microplasma irradiation on skin barrier function. Japanese Journal of Applied Physics, 2016, 55, 07LG01.	1.5	3
23	Influence of DBD Inlet Geometry on the Homogeneity of Plasmaâ€Polymerized Acrylic Acid Films: The Use of a Microplasmaâ€“Electrode Inlet Configuration. Plasma Processes and Polymers, 2015, 12, 1153-1163.	3.0	28
24	Biological Effects and Enhancement of Percutaneous Absorption on Skin by Atmospheric Microplasma Irradiation. Plasma Medicine, 2015, 5, 205-221.	0.6	9
25	Indoor air Quality Improvement Using Atmospheric Plasma. , 2015, , .		1
26	Study of VOC removal and E. Coli sterilization in six-mat space by atmospheric microplasma. , 2015, , .		3
27	Basic Study on Indoor air Quality improvement by Atmospheric plasma. IEEE Transactions on Industry Applications, 2015, , 1-1.	4.9	2
28	Microplasma actuator for EHD induced flow. , 2015, , .		1
29	Novel method to improve transdermal drug delivery by atmospheric microplasma irradiation. Biointerphases, 2015, 10, 029517.	1.6	40
30	Basic Study on Flow Control by Using Plasma Actuator. IEEE Transactions on Industry Applications, 2015, 51, 3472-3478.	4.9	5
31	Basic study on force induction using dielectric barrier microplasma array. Japanese Journal of Applied Physics, 2015, 54, 01AA07.	1.5	10
32	Effects of microplasma irradiation on human gingival fibroblasts. Odontology / the Society of the Nippon Dental University, 2015, 103, 194-202.	1.9	4
33	Surface modification of dye-sensitized solid-state solar cells by atmospheric-pressure plasma jet. Japanese Journal of Applied Physics, 2014, 53, 11RF02.	1.5	5
34	Characteristics of atmospheric non-thermal microplasma actuator. , 2014, , .		0
35	Basic study on indoor air quality improvement by atmospheric plasma. , 2014, , .		1
36	Study on Surface Modification of GaN by Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2013, 49, 2308-2313.	4.9	2

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37	Spatial and Temporal Distribution of Microplasma in Small Discharge Gaps. IEEE Transactions on Industry Applications, 2013, 49, 1787-1792.	4.9	1
38	Characteristics of dielectric barrier discharge microplasma. , 2013, , .		0
39	Surface Treatment of Glass by Microplasma. IEEE Transactions on Industry Applications, 2013, 49, 714-720.	4.9	20
40	Basic study on flow control by using plasma actuator. , 2013, , .		1
41	Study on Decomposition of Indoor Air Contaminants by Pulsed Atmospheric Microplasma. Sensors, 2012, 12, 14525-14536.	3.8	21
42	Study of Atmospheric Microplasma for Plasma-Life Science. Materials Research Society Symposia Proceedings, 2012, 1469, 15.	0.1	2
43	Surface Modification of GaN Substrate by Atmospheric Pressure Microplasma. Japanese Journal of Applied Physics, 2012, 51, 08HB05.	1.5	0
44	Basic Study of Remote Disinfection and Sterilization Effect by Using Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2012, 48, 1182-1188.	4.9	24
45	Spatial Distribution of Light Emission in Microplasma under 100 mum Gaps. Japanese Journal of Applied Physics, 2012, 51, 08HC03.	1.5	1
46	Atmospheric Microplasma Application for Surface Modification of Biomaterials. Japanese Journal of Applied Physics, 2012, 51, 11PJ01.	1.5	5
47	Temporal evolution of dielectric barrier discharge microplasma. Applied Physics Letters, 2012, 101, 104101.	3.3	16
48	Phenomena of Microdischarges in Microplasma. IEEE Transactions on Plasma Science, 2012, 40, 1730-1732.	1.3	7
49	Surface Modification of GaN Substrate by Atmospheric Pressure Microplasma. Japanese Journal of Applied Physics, 2012, 51, 08HB05.	1.5	2
50	Atmospheric Microplasma Application for Surface Modification of Biomaterials. Japanese Journal of Applied Physics, 2012, 51, 11PJ01.	1.5	19
51	Basic Study on Surface Treatment of GaN by Pulsed Atmospheric Microplasma. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 270-271.	0.2	0
52	Spatial Distribution of Light Emission in Microplasma under 100 Âµm Gaps. Japanese Journal of Applied Physics, 2012, 51, 08HC03.	1.5	1
53	Emission Spectroscopy of Pulsed Powered Microplasma for Surface Treatment of PEN Film. IEEE Transactions on Industry Applications, 2011, 47, 1100-1108.	4.9	24
54	Removal of Indoor Air Contaminant by Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2011, 47, 2351-2358.	4.9	25

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55	Study of Sterilization and Disinfection in Room Air by Using Atmospheric Microplasma. Pharmaceutica Analytica Acta, 2011, , .	0.2	5
56	Surface Treatment of Polymer Film by Atmospheric Pulsed Microplasma: Study on Gas Humidity Effect for Improving the Hydrophilic Property. Japanese Journal of Applied Physics, 2011, 50, 08KA03.	1.5	18
57	Surface treatment of glass by microplasma. , 2011, , .		0
58	Basic study of remote disinfection and sterilization effect by using atmospheric microplasma. , 2011, , .		2
59	Surface Treatment of Polymer Film by Atmospheric Pulsed Microplasma: Study on Gas Humidity Effect for Improving the Hydrophilic Property. Japanese Journal of Applied Physics, 2011, 50, 08KA03.	1.5	9
60	Emission Spectroscopy of Pulsed Powered Microplasma for Surface Treatment of PEN Film. , 2010, , .		2
61	Emission Spectroscopy of Pulsed Power Microplasma for Atmospheric Pollution Control. IEEE Transactions on Industry Applications, 2010, 46, 1125-1131.	4.9	48
62	Removal of Indoor Air Contaminant by Atmospheric Microplasma. , 2010, , .		1
63	Basic Study on Surface Treatment of Functional Resin Film by Pulsed Atmospheric Microplasma. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 858-864.	0.2	8
64	Study of Water Purification with Pulsed Power Supply using MOSFET Switches. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 531-537.	0.2	0
65	A Case Study of Engineering Ethics -A Questionnaire Survey for Ethics Value of Students, Practical Use of the Code of Ethics and Cases for Electrical Engineers-. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 110-116.	0.2	0
66	Identification of coumarin-enriched Japanese green teas and their particular flavor using electronic nose. Journal of Food Engineering, 2009, 92, 312-316.	5.2	44
67	Application of Microplasma for $hbox{NO}_{m x}$ Removal. IEEE Transactions on Industry Applications, 2009, 45, 1506-1512.	4.9	12
68	Study of Air Pollution Control by Using Micro Plasma Filter. IEEE Transactions on Industry Applications, 2008, 44, 506-511.	4.9	27
69	Basic Study of Sterilization at Low Discharge Voltage by Using Microplasma. , 2008, , .		2
70	Application of Micro Plasma for NOx Removal. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.0	2
71	Application of Micro Plasma for NOx Removal. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq1 1 0.784314 rgBT /Ove	0.0	0
72	Application of Micro Discharge for Air Purification. IEEJ Transactions on Power and Energy, 2007, 127, 1269-1274.	0.2	5

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73	Emission spectrometry for discharge plasma diagnosis. Science and Technology of Advanced Materials, 2001, 2, 577-585.	6.1	33
74	Nitric oxide decomposition in air by using non-thermal plasma processing - with additives and catalyst. Journal of Electrostatics, 1997, 42, 151-157.	1.9	41
75	Indoor Air Control by Microplasma. , 0, , .		4
76	Applications of Dielectric Barrier Discharge Microplasma. , 0, , .		4
77	Microplasma actuator for active flow control: Experiment and simulation. , 0, , .		3
78	Microplasma Drug Delivery. , 0, , .		0