

# Kazuo Shimizu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2353626/publications.pdf>

Version: 2024-02-01

78  
papers

644  
citations

516710

16  
h-index

642732

23  
g-index

80  
all docs

80  
docs citations

80  
times ranked

464  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emission Spectroscopy of Pulsed Power Microplasma for Atmospheric Pollution Control. IEEE Transactions on Industry Applications, 2010, 46, 1125-1131.	4.9	48
2	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
3	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
4	Novel method to improve transdermal drug delivery by atmospheric microplasma irradiation. Biointerphases, 2015, 10, 029517.	1.6	40
5	Emission spectrometry for discharge plasma diagnosis. Science and Technology of Advanced Materials, 2001, 2, 577-585.	6.1	33
6	Influence of DBD Inlet Geometry on the Homogeneity of Plasma-Polymerized Acrylic Acid Films: The Use of a Microplasma Electrode Inlet Configuration. Plasma Processes and Polymers, 2015, 12, 1153-1163.	3.0	28
7	Study of Air Pollution Control by Using Micro Plasma Filter. IEEE Transactions on Industry Applications, 2008, 44, 506-511.	4.9	27
8	Removal of Indoor Air Contaminant by Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2011, 47, 2351-2358.	4.9	25
9	Feasibility of transdermal delivery of Cyclosporine A using plasma discharges. Biointerphases, 2017, 12, 02B402.	1.6	25
10	Emission Spectroscopy of Pulsed Powered Microplasma for Surface Treatment of PEN Film. IEEE Transactions on Industry Applications, 2011, 47, 1100-1108.	4.9	24
11	Basic Study of Remote Disinfection and Sterilization Effect by Using Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2012, 48, 1182-1188.	4.9	24
12	Study on Decomposition of Indoor Air Contaminants by Pulsed Atmospheric Microplasma. Sensors, 2012, 12, 14525-14536.	3.8	21
13	Surface Treatment of Glass by Microplasma. IEEE Transactions on Industry Applications, 2013, 49, 714-720.	4.9	20
14	Direct and Indirect Bactericidal Effects of Cold Atmospheric-Pressure Microplasma and Plasma Jet. Molecules, 2021, 26, 2523.	3.8	19
15	Atmospheric Microplasma Application for Surface Modification of Biomaterials. Japanese Journal of Applied Physics, 2012, 51, 11PJ01.	1.5	19
16	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
17	Temporal evolution of dielectric barrier discharge microplasma. Applied Physics Letters, 2012, 101, 104101.	3.3	16
18	Application of Microplasma for $\text{NO}_x$ Removal. IEEE Transactions on Industry Applications, 2009, 45, 1506-1512.	4.9	12

#	ARTICLE	IF	CITATIONS
19	Basic study on force induction using dielectric barrier microplasma array. Japanese Journal of Applied Physics, 2015, 54, 01AA07.	1.5	10
20	Biological Effects and Enhancement of Percutaneous Absorption on Skin by Atmospheric Microplasma Irradiation. Plasma Medicine, 2015, 5, 205-221.	0.6	9
21	Microplasma Actuator for EHD Induced Flow. IEEE Transactions on Industry Applications, 2017, 53, 2409-2415.	4.9	9
22	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
23	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
24	Phenomena of Microdischarges in Microplasma. IEEE Transactions on Plasma Science, 2012, 40, 1730-1732.	1.3	7
25	Characteristics of an Atmospheric Nonthermal Microplasma Actuator. IEEE Transactions on Industry Applications, 2017, 53, 1452-1458.	4.9	7
26	Application of Micro Discharge for Air Purification. IEEJ Transactions on Power and Energy, 2007, 127, 1269-1274.	0.2	5
27	Study of Sterilization and Disinfection in Room Air by Using Atmospheric Microplasma. Pharmaceutica Analytica Acta, 2011, , .	0.2	5
28	Atmospheric Microplasma Application for Surface Modification of Biomaterials. Japanese Journal of Applied Physics, 2012, 51, 11PJ01.	1.5	5
29	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
30	Basic Study on Flow Control by Using Plasma Actuator. IEEE Transactions on Industry Applications, 2015, 51, 3472-3478.	4.9	5
31	Enhancement of Percutaneous Absorption on Skin by Plasma Drug Delivery Method. , 2017, , .		5
32	Indoor Air Control by Microplasma. , 0, , .		4
33	Effects of microplasma irradiation on human gingival fibroblasts. Odontology / the Society of the Nippon Dental University, 2015, 103, 194-202.	1.9	4
34	Applications of Dielectric Barrier Discharge Microplasma. , 0, , .		4
35	Effect of Plasma Discharge on Epidermal Layer Structure in Pig Skin. Plasma Medicine, 2021, 11, 1-13.	0.6	4
36	Study of VOC removal and E. Coli sterilization in six-mat space by atmospheric microplasma. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
37	Effect of microplasma irradiation on skin barrier function. Japanese Journal of Applied Physics, 2016, 55, 07LG01.	1.5	3
38	Surface Dielectric Barrier Discharge in Closed-Volume Air. Plasma Medicine, 2017, 7, 395-406.	0.6	3
39	Analysis of Hexadecane Decomposition by Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2018, 54, 605-610.	4.9	3
40	Microplasma actuator for active flow control: Experiment and simulation. , 0, , .		3
41	Application of Micro Plasma for NOx Removal. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq1 1 0,784314, rgBT /Over	0.0	2
42	Basic Study of Sterilization at Low Discharge Voltage by Using Microplasma. , 2008, , .		2
43	Emission Spectroscopy of Pulsed Powered Microplasma for Surface Treatment of PEN Film. , 2010, , .		2
44	Basic study of remote disinfection and sterilization effect by using atmospheric microplasma. , 2011, , .		2
45	Study of Atmospheric Microplasma for Plasma-Life Science. Materials Research Society Symposia Proceedings, 2012, 1469, 15.	0.1	2
46	Study on Surface Modification of GaN by Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2013, 49, 2308-2313.	4.9	2
47	Basic Study on Indoor air Quality improvement by Atmospheric plasma. IEEE Transactions on Industry Applications, 2015, , 1-1.	4.9	2
48	Basic study of fine particle removal using microplasma and its electrostatic effect. Japanese Journal of Applied Physics, 2017, 56, 01AC03.	1.5	2
49	Dielectric Barrier Discharge Microplasma Actuator for Flow Control. , 2018, , .		2
50	Activation of Water by Surface DBD Micro Plasma in Atmospheric Air. Lecture Notes in Networks and Systems, 2019, , 97-104.	0.7	2
51	Study of Induced EHD Flow by Microplasma Vortex Generator. IEEE Transactions on Plasma Science, 2019, 47, 5345-5354.	1.3	2
52	Surface Modification of GaN Substrate by Atmospheric Pressure Microplasma. Japanese Journal of Applied Physics, 2012, 51, 08HB05.	1.5	2
53	Inactivation of Staphylococcus Aureus by Microplasma. , 2021, , .		2
54	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

#	ARTICLE	IF	CITATIONS
55	Removal of Indoor Air Contaminant by Atmospheric Microplasma. , 2010, , .		1
56	Spatial Distribution of Light Emission in Microplasma under 100 $\mu\text{m}$ Gaps. Japanese Journal of Applied Physics, 2012, 51, 08HC03.	1.5	1
57	Spatial and Temporal Distribution of Microplasma in Small Discharge Gaps. IEEE Transactions on Industry Applications, 2013, 49, 1787-1792.	4.9	1
58	Basic study on flow control by using plasma actuator. , 2013, , .		1
59	Basic study on indoor air quality improvement by atmospheric plasma. , 2014, , .		1
60	Indoor air Quality Improvement Using Atmospheric Plasma. , 2015, , .		1
61	Microplasma actuator for EHD induced flow. , 2015, , .		1
62	Flow Control by Dielectric Barrier Discharge Microplasma. Advances in Intelligent Systems and Computing, 2018, , 169-175.	0.6	1
63	Spatial Distribution of Light Emission in Microplasma under 100 $\mu\text{m}$ Gaps. Japanese Journal of Applied Physics, 2012, 51, 08HC03.	1.5	1
64	Pharmacokinetics of Cyclosporine A of Transdermal Delivery Using Microplasma and Oral Administration. Advances in Intelligent Systems and Computing, 2018, , 161-168.	0.6	1
65	Application of Micro Plasma for NOx Removal. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq1 1 0,784314 ggBT /Over	0.0	0
66	Surface treatment of glass by microplasma. , 2011, , .		0
67	Surface Modification of GaN Substrate by Atmospheric Pressure Microplasma. Japanese Journal of Applied Physics, 2012, 51, 08HB05.	1.5	0
68	Characteristics of dielectric barrier discharge microplasma. , 2013, , .		0
69	Characteristics of atmospheric non-thermal microplasma actuator. , 2014, , .		0
70	Effect of N <sub>2</sub> microplasma treatment on initial growth of GaN by metal-organic molecular beam epitaxy. Japanese Journal of Applied Physics, 2016, 55, 081002.	1.5	0
71	Low-pressure N <sub>2</sub> microplasma treatment for substrate surface cleaning prior to GaN selective growth. Japanese Journal of Applied Physics, 2018, 57, 085501.	1.5	0
72	Fundamental Study of Hexadecane Removal by Atmospheric Microplasma. IEEE Transactions on Industry Applications, 2018, 54, 599-604.	4.9	0

#	ARTICLE	IF	CITATIONS
73	Study of Water Purification with Pulsed Power Supply using MOSFET Switches. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 531-537.	0.2	0
74	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
75	Basic Study on Surface Treatment of GaN by Pulsed Atmospheric Microplasma. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 270-271.	0.2	0
76	Microplasma Drug Delivery. , 0, , .		0
77	Effect of Plasma Treatment on Lipid Molecules in Stratum Corneum. , 2018, , .		0
78	Study on fine particle removal from the surface of a microplasma electrode by electrostatic force. Indoor Environment, 2020, 23, 141-150.	0.1	0