

# Tetsuji Shimizu

## List of Publications by Year in descending order

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73  
papers

3,929  
citations

201674

27  
h-index

118850

62  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Albumin aggregation using low-temperature atmospheric pressure helium plasma jet in argon and air atmosphere. Japanese Journal of Applied Physics, 2022, 61, SI1016.	1.5	1
2	Potential formation on floating metal plate treated by low-temperature atmospheric pressure plasma jet. Journal of Electrostatics, 2022, 117, 103715.	1.9	1
3	Transparent Conductive Oxide (TCO) Gated Ingaas Mosfets for Front-Side Illuminated Short-Wave Infrared Detection. ECS Meeting Abstracts, 2022, MA2022-01, 1282-1282.	0.0	0
4	Reviews of low-temperature atmospheric pressure plasma for studying hemostasis and international standardization. Japanese Journal of Applied Physics, 2021, 60, 020502.	1.5	8
5	Growth inhibition effect on Trypanosoma brucei gambiense by the oxidative stress supplied from low-temperature plasma at atmospheric pressure. Japanese Journal of Applied Physics, 2021, 60, 020601.	1.5	0
6	Electrical characteristics of a low-temperature, atmospheric-pressure helium plasma jet. AIP Advances, 2021, 11, .	1.3	7
7	Effects of electric charges on serum protein aggregation induced by a low temperature atmospheric pressure plasma. Journal Physics D: Applied Physics, 2021, 54, 215201.	2.8	3
8	High and broadband sensitivity front-side illuminated InGaAs photo field-effect transistors (photoFETs) with SWIR transparent conductive oxide (TCO) gate. Applied Physics Letters, 2021, 119, .	3.3	7
9	Non-contact measurement of electric charges on water surface supplied with plasma. Journal of Electrostatics, 2020, 103, 103414.	1.9	4
10	InGaAs photo field-effect-transistors (PhotoFETs) on half-inch Si wafer using layer transfer technology. Japanese Journal of Applied Physics, 2020, 59, SGGE03.	1.5	6
11	Plasma-on-Chip : device for non-thermal atmospheric pressure plasma irradiation to single cells. Electronics and Communications in Japan, 2020, 103, 43-48.	0.5	3
12	Measurements of nitrogen atom density in a microwave-excited plasma jet produced under moderate pressures. IEEE Transactions on Electrical and Electronic Engineering, 2020, 15, 1281-1287.	1.4	3
13	Effect of electrical conductivity of water on plasma-driven gas flow by needle-water discharge at atmospheric pressure. Journal of Electrostatics, 2020, 104, 103422.	1.9	5
14	Striation phenomena in a low temperature atmospheric pressure neon plasma jet by optical emission spectroscopy. Physics of Plasmas, 2020, 27, .	1.9	9
15	Dynamics of flow in albumin solution treated by low-temperature atmospheric pressure helium plasma jet. AIP Advances, 2020, 10, 125216.	1.3	3
16	Wound treatment by low-temperature atmospheric plasmas and issues in plasma engineering for plasma medicine. Japanese Journal of Applied Physics, 2020, 59, 120501.	1.5	16
17	&lt;i>&gt;Plasma-on-Chip&lt;/i>; Device for Non-thermal Atmospheric Pressure Plasma Irradiation to Single Cells. IEEE Transactions on Electronics, Information and Systems, 2020, 140, 452-456.	0.2	0
18	Effects of cold atmospheric plasma (CAP) on bacteria and mucosa of the upper aerodigestive tract. Auris Nasus Larynx, 2019, 46, 294-301.	1.2	11

#	ARTICLE	IF	CITATIONS
19	Potential formation on dielectric surface by an atmospheric pressure helium plasma jet. Japanese Journal of Applied Physics, 2019, 58, 090906.	1.5	7
20	Progress and perspectives in dry processes for emerging multidisciplinary applications: how can we improve our use of dry processes?. Japanese Journal of Applied Physics, 2019, 58, SE0803.	1.5	4
21	Progress and perspectives in dry processes for leading-edge manufacturing of devices: toward intelligent processes and virtual product development. Japanese Journal of Applied Physics, 2019, 58, SE0804.	1.5	7
22	Progress and perspectives in dry processes for nanoscale feature fabrication: fine pattern transfer and high-aspect-ratio feature formation. Japanese Journal of Applied Physics, 2019, 58, SE0802.	1.5	24
23	Measurements of emission-propagation phenomena in low-energy atmospheric-pressure helium plasma. Plasma Sources Science and Technology, 2018, 27, 05LT02.	3.1	10
24	Electric potential developed by single-pulse needle-water discharge. Applied Physics Express, 2018, 11, 016201.	2.4	2
25	Plasma afterglow circulation apparatus for decontamination of spacecraft equipment. AIP Advances, 2018, 8, .	1.3	10
26	Benefits of applying low-temperature plasma treatment to wound care and hemostasis from the viewpoints of physics and pathology. Journal Physics D: Applied Physics, 2017, 50, 503001.	2.8	25
27	Surface Microdischarge Plasma for Disinfection. Plasma Medicine, 2017, 7, 175-185.	0.6	7
28	Development of plasma-on-chip: Plasma treatment for individual cells cultured in media. Japanese Journal of Applied Physics, 2016, 55, 01AF01.	1.5	14
29	Red blood cell coagulation induced by low-temperature plasma treatment. Archives of Biochemistry and Biophysics, 2016, 605, 95-101.	3.0	93
30	Plasma-on-chip device for stable irradiation of cells cultured in media with a low-temperature atmospheric pressure plasma. Archives of Biochemistry and Biophysics, 2016, 605, 11-18.	3.0	12
31	Plasmabehandlung von Ulzera. , 2016, , 63-71.		5
32	Effects of Cold Atmospheric Plasma (CAP) on $\gamma$ -Defensins, Inflammatory Cytokines, and Apoptosis-Related Molecules in Keratinocytes In Vitro and In Vivo. PLoS ONE, 2015, 10, e0120041.	2.5	98
33	Cold Atmospheric Plasma: A Promising Complementary Therapy for Squamous Head and Neck Cancer. PLoS ONE, 2015, 10, e0141827.	2.5	54
34	Cold atmospheric plasma "A new technology for spacecraft component decontamination. Planetary and Space Science, 2014, 90, 60-71.	1.7	29
35	Decontamination of Nosocomial Bacteria Including Clostridium difficile Spores on Dry Inanimate Surface by Cold Atmospheric Plasma. Plasma Processes and Polymers, 2014, 11, 974-984.	3.0	17
36	Bactericidal Agents Produced by Surface Micro-Discharge (SMD) Plasma by Controlling Gas Compositions. Plasma Processes and Polymers, 2014, 11, 426-436.	3.0	30

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37	Inactivation of Surface-Borne Microorganisms and Increased Germination of Seed Specimen by Cold Atmospheric Plasma. <i>Food and Bioprocess Technology</i> , 2014, 7, 645-653.	4.7	160
38	Cold atmospheric plasma, a new strategy to induce senescence in melanoma cells. <i>Experimental Dermatology</i> , 2013, 22, 284-289.	2.9	174
39	Effects of cold atmospheric plasma on mucosal tissue culture. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 045401.	2.8	22
40	Contact-free inactivation of <i>Trichophyton rubrum</i> and <i>Microsporum canis</i> by cold atmospheric plasma treatment. <i>Future Microbiology</i> , 2013, 8, 1097-1106.	2.0	38
41	Cold atmospheric plasma devices for medical issues. <i>Expert Review of Medical Devices</i> , 2013, 10, 367-377.	2.8	166
42	Randomized placebo-controlled human pilot study of cold atmospheric argon plasma on skin graft donor sites. <i>Wound Repair and Regeneration</i> , 2013, 21, 800-807.	3.0	126
43	Restoration of Sensitivity in Chemo Resistant Glioma Cells by Cold Atmospheric Plasma. <i>PLoS ONE</i> , 2013, 8, e64498.	2.5	182
44	Cold Atmospheric Plasma (CAP) Changes Gene Expression of Key Molecules of the Wound Healing Machinery and Improves Wound Healing In Vitro and In Vivo. <i>PLoS ONE</i> , 2013, 8, e79325.	2.5	265
45	S052012 Driving mechanism of gas flow by gaseous-liquid plasma. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2013, 2013, _S052012-1-_S052012-2.	0.0	0
46	The dynamics of ozone generation and mode transition in air surface micro-discharge plasma at atmospheric pressure. <i>New Journal of Physics</i> , 2012, 14, 103028.	2.9	161
47	Bactericidal effect in different gas compositions using Surface Micro-Discharge (SMD) plasma. , 2012, , .		0
48	Contact-free cold atmospheric plasma treatment of <i>Deinococcus radiodurans</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1367-1375.	3.0	33
49	Cold Atmospheric Air Plasma Sterilization against Spores and Other Microorganisms of Clinical Interest. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5077-5082.	3.1	303
50	Applications in plasma medicine: a SWOT approach. <i>Composite Interfaces</i> , 2012, 19, 231-238.	2.3	11
51	Low Temperature Atmospheric Argon Plasma: Diagnostics and Medical Applications. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2012, , 163-178.	0.5	3
52	Plasma chemistry model of surface microdischarge in humid air and dynamics of reactive neutral species. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 425201.	2.8	412
53	Contact-Free Inactivation of <i>Candida albicans</i> Biofilms by Cold Atmospheric Air Plasma. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4242-4247.	3.1	96
54	Decolonisation of MRSA, <i>S. aureus</i> and <i>E. coli</i> by Cold-Atmospheric Plasma Using a Porcine Skin Model In Vitro. <i>PLoS ONE</i> , 2012, 7, e34610.	2.5	148

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55	Reasons Why We Need Cold Atmospheric Plasmas in Bacteria-Related Diseases in Medicine. <i>Plasma Medicine</i> , 2012, 2, 85-96.	0.6	6
56	Cold Atmospheric Plasma for Surface Disinfection. <i>Plasma Processes and Polymers</i> , 2012, 9, 585-589.	3.0	37
57	Disinfection Through Different Textiles Using Low-Temperature Atmospheric Pressure Plasma. <i>Plasma Processes and Polymers</i> , 2012, 9, 792-798.	3.0	14
58	Bactericidal effects of non-thermal argon plasma in vitro, in biofilms and in the animal model of infected wounds. <i>Journal of Medical Microbiology</i> , 2011, 60, 75-83.	1.8	293
59	Transport Mechanism of Chemical Species in a Pin-water Atmospheric Discharge driven by Negative Voltage. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2011, 24, 421-427.	0.3	11
60	Formation of thermal flow fields and chemical transport in air and water by atmospheric plasma. <i>New Journal of Physics</i> , 2011, 13, 053025.	2.9	52
61	Cold Atmospheric Plasma. <i>Archives of Dermatology</i> , 2011, 147, 388.	1.4	88
62	313 Thermal flow analysis of a plasma flow at atmospheric pressure in air and water. <i>The Proceedings of the Symposium on Environmental Engineering</i> , 2011, 2011.21, 206-207.	0.0	0
63	Characterization of Low-Temperature Microwave Plasma Treatment With and Without UV Light for Disinfection. <i>Plasma Processes and Polymers</i> , 2010, 7, 288-293.	3.0	33
64	Plasma medicine: possible applications in dermatology. <i>JDDG - Journal of the German Society of Dermatology</i> , 2010, 8, 968-976.	0.8	165
65	Plasma-Medizin: Anwendungsmöglichkeiten in der Dermatologie. <i>JDDG - Journal of the German Society of Dermatology</i> , 2010, 8, 968-977.	0.8	76
66	215 Flow field analysis of a plasma flow at atmospheric pressure in the vicinity of water surface. <i>The Proceedings of Conference of Tohoku Branch</i> , 2010, 2010.45, 230-231.	0.0	0
67	The effect of low-temperature plasma on bacteria as observed by repeated AFM imaging. <i>New Journal of Physics</i> , 2009, 11, 115023.	2.9	62
68	Characterization of Microwave Plasma Torch for Decontamination. <i>Plasma Processes and Polymers</i> , 2008, 5, 577-582.	3.0	174
69	The approach to diamond growth on levitating seed particles. <i>Applied Surface Science</i> , 2007, 254, 177-180.	6.1	2
70	Diamond-particles levitated in a reactive plasma. <i>Diamond and Related Materials</i> , 2003, 12, 374-377.	3.9	8
71	High quality diamond formation by electron temperature control in methane-hydrogen plasma. <i>Plasma Sources Science and Technology</i> , 2003, 12, S21-S25.	3.1	19
72	Effects of electron temperature on the quality of a-Si:H and $\frac{1}{4}$ c-Si film. <i>Thin Solid Films</i> , 2002, 407, 7-11.	1.8	7

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73	Electron temperature control by varying size of slits made in a grid. Applied Physics Letters, 2000, 76, 547-549.	3.3	47