

# Shota Sasaki

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3103423/publications.pdf>

Version: 2024-02-01

20  
papers

345  
citations

933264

10  
h-index

839398

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient and minimally invasive transfection using time-controlled irradiation of atmospheric-pressure plasma. <i>Applied Physics Express</i> , 2014, 7, 026202.	1.1	50
2	Improvement of cell membrane permeability using a cell-solution electrode for generating atmospheric-pressure plasma. <i>Biointerphases</i> , 2015, 10, 029521.	0.6	50
3	Characterization of plasma-induced cell membrane permeabilization: focus on OH radical distribution. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 334002.	1.3	45
4	Gas-liquid interfacial plasmas producing reactive species for cell membrane permeabilization. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2017, 60, 3-11.	0.6	40
5	Calcium influx through TRP channels induced by short-lived reactive species in plasma-irradiated solution. <i>Scientific Reports</i> , 2016, 6, 25728.	1.6	38
6	Cold atmospheric plasma enhances osteoblast differentiation. <i>PLoS ONE</i> , 2017, 12, e0180507.	1.1	34
7	Direct plasma stimuli including electrostimulation and OH radical induce transient increase in intracellular $Ca^{2+}$ and uptake of a middle-size membrane-impermeable molecule. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700077.	1.6	20
8	Liquid spray transport of air plasma-generated reactive species toward plant disease management. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 354004.	1.3	13
9	Investigation on dinitrogen pentoxide roles on air plasma effluent exposure to liquid water solution. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 064003.	1.3	12
10	Roles of charged particles and reactive species on cell membrane permeabilization induced by atmospheric-pressure plasma irradiation. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 07LG04.	0.8	11
11	Portable Plasma Device for Electric $N_2O_5$ Production from Air. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 798-801.	1.8	7
12	Continuous release of $O_2^{\cdot-}/ONOO^{\cdot-}$ in plasma-exposed HEPES-buffered saline promotes TRP channel-mediated uptake of a large cation. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900257.	1.6	6
13	TRPA1 and TRPV1 channels participate in atmospheric-pressure plasma-induced $[Ca^{2+}]_i$ response. <i>Scientific Reports</i> , 2020, 10, 9687.	1.6	5
14	Experimental detection of liquid-phase OH radical decay originating from atmospheric-pressure plasma exposure. <i>Applied Physics Express</i> , 2021, 14, 056001.	1.1	4
15	Activation of plant immunity by exposure to dinitrogen pentoxide gas generated from air using plasma technology. <i>PLoS ONE</i> , 2022, 17, e0269863.	1.1	4
16	Quantitative evaluation of reactive oxygen and chlorine species generated by discharge in PBS. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 106002.	0.8	2
17	Characterization of middle-molecule introduction into cells using mm-scale discharge in saline. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 040904.	0.8	2
18	Apoptotic effects on cultured cells of atmospheric-pressure plasma produced using various gases. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 01AF03.	0.8	1

#	ARTICLE	IF	CITATIONS
19	Human coronavirus inactivation by atmospheric pressure helium plasma. Journal Physics D: Applied Physics, 2022, 55, 295203.	1.3	1
20	Control of Cell Function Using Gas-Liquid Interfacial Plasmas. Vacuum and Surface Science, 2018, 61, 143-149.	0.0	0