

# Youbong Lim

## List of Publications by Citations

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77  
papers

1,434  
citations

20  
h-index

35  
g-index

100  
ext. papers

1,695  
ext. citations

3.6  
avg, IF

4.47  
L-index

#	Paper	IF	Citations
77	Flexible thin-layer dielectric barrier discharge plasma treatment of pork butt and beef loin: effects on pathogen inactivation and meat-quality attributes. <i>Food Microbiology</i> , <b>2015</b> , 46, 51-57	6	154
76	The KSTAR project: An advanced steady state superconducting tokamak experiment. <i>Nuclear Fusion</i> , <b>2000</b> , 40, 575-582	3.3	140
75	Evaluation of pathogen inactivation on sliced cheese induced by encapsulated atmospheric pressure dielectric barrier discharge plasma. <i>Food Microbiology</i> , <b>2015</b> , 46, 46-50	6	93
74	The use of atmospheric pressure plasma-treated water as a source of nitrite for emulsion-type sausage. <i>Meat Science</i> , <b>2015</b> , 108, 132-7	6.4	89
73	Flexible thin-layer plasma inactivation of bacteria and mold survival in beef jerky packaging and its effects on the meat's physicochemical properties. <i>Meat Science</i> , <b>2017</b> , 123, 151-156	6.4	61
72	Differential responses of human liver cancer and normal cells to atmospheric pressure plasma. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 063701	3.4	60
71	Evaluation of the microbiological safety, quality changes, and genotoxicity of chicken breast treated with flexible thin-layer dielectric barrier discharge plasma. <i>Food Science and Biotechnology</i> , <b>2016</b> , 25, 1189-1195	3	58
70	The creation of electric wind due to the electrohydrodynamic force. <i>Nature Communications</i> , <b>2018</b> , 9, 371	17.4	54
69	An innovative curing process with plasma-treated water for production of loin ham and for its quality and safety. <i>Plasma Processes and Polymers</i> , <b>2018</b> , 15, 1700050	3.4	45
68	Inactivation of murine norovirus-1 and hepatitis A virus on fresh meats by atmospheric pressure plasma jets. <i>Food Research International</i> , <b>2015</b> , 76, 342-347	7	42
67	Plasma effects on subcellular structures. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 101501	3.4	34
66	Effect of atmospheric pressure dielectric barrier discharge plasma on the biological activity of naringin. <i>Food Chemistry</i> , <b>2014</b> , 160, 241-5	8.5	33
65	Color Developing Capacity of Plasma-treated Water as a Source of Nitrite for Meat Curing. <i>Korean Journal for Food Science of Animal Resources</i> , <b>2015</b> , 35, 703-6		31
64	Electron density and temperature measurement by continuum radiation emitted from weakly ionized atmospheric pressure plasmas. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 084103	3.4	29
63	Control of core argon impurity profile by ECH in KSTAR L-mode plasmas. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 063016	3.3	28
62	Bootstrap current for the edge pedestal plasma in a diverted tokamak geometry. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 072505	2.1	28
61	Correlation between excitation temperature and electron temperature with two groups of electron energy distributions. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 103501	2.1	26

60	A Simple Approach to Surface Modification Using Polytetrafluoroethylene (PTFE) with Laminar and Turbulent Flows of Micro Plasma Jets at Atmospheric Pressure. <i>Plasma Processes and Polymers</i> , <b>2011</b> , 8, 535-541	3.4	25
59	Modified Phillips-Mikhailov regularization for plasma tomography. <i>Current Applied Physics</i> , <b>2010</b> , 10, 893-899	2.6	23
58	The driving frequency effects on the atmospheric pressure corona jet plasmas from low frequency to radio frequency. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 043503	2.1	20
57	Effect of multiply charged ions on the performance and beam characteristics in annular and cylindrical type Hall thruster plasmas. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 144104	3.4	18
56	Progress of the KSTAR Research Program Exploring the Advanced High Performance and Steady-State Plasma Operations. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 73, 712-735	0.6	17
55	Effect of magnetic field configuration on the multiply charged ion and plume characteristics in Hall thruster plasmas. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 154103	3.4	16
54	Effect of atmospheric pressure plasma jet on the foodborne pathogens attached to commercial food containers. <i>Journal of Food Science and Technology</i> , <b>2015</b> , 52, 8410-5	3.3	16
53	Performance characteristics according to the channel length and magnetic fields of cylindrical Hall thrusters. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 131505	3.4	15
52	Magnetic field configurations on thruster performance in accordance with ion beam characteristics in cylindrical Hall thruster plasmas. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 114101	3.4	14
51	Effect of the annular region on the performance of a cylindrical Hall plasma thruster. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 023507	2.1	14
50	Multiple (eight) plasma bullets in helium atmospheric pressure plasma jet and the role of nitrogen. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 224105	3.4	13
49	Radial scale effect on the performance of low-power cylindrical Hall plasma thrusters. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 133501	3.4	13
48	Observation of a high-energy tail in ion energy distribution in the cylindrical Hall thruster plasma. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 103502	2.1	11
47	Test of prototype ITER vacuum ultraviolet spectrometer and its application to impurity study in KSTAR plasmas. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 11E403	1.7	11
46	Multichannel rf-compensated Langmuir probe array driven by a single bias supply. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 277-282	1.7	11
45	Simple microwave preionization source for ohmic plasmas. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 2728-2732	1.7	11
44	Stabilization of liquid instabilities with ionized gas jets. <i>Nature</i> , <b>2021</b> , 592, 49-53	50.4	11
43	Estimation of inactivation effects against Escherichia coli O157:H7 biofilm by different plasma-treated solutions and post-treatment storage. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 073703	3.4	11

42	Electron characterization in weakly ionized collisional plasmas: from principles to techniques. <i>Advances in Physics: X</i> , <b>2019</b> , 4, 1526114	5.1	11
41	Edge localized mode characteristics during edge localized mode mitigation by supersonic molecular beam injection in Korea Superconducting Tokamak Advanced Research. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 122512	2.1	10
40	Comparison of the three tokamak plasma tomography methods for high spatial resolution and fast calculation. <i>Review of Scientific Instruments</i> , <b>2006</b> , 77, 10F513	1.7	10
39	Design and fabrication of a multi-purpose soft x-ray array diagnostic system for KSTAR. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 10E512	1.7	9
38	Preliminary design of the soft x-ray array tomographic diagnostic system for Korea Superconducting Tokamak Advanced Research (KSTAR) plasmas. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 3974-3976	1.7	9
37	Full-f XGC1 gyrokinetic study of improved ion energy confinement from impurity stabilization of ITG turbulence. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 062302	2.1	8
36	Enhancement of antioxidant effects of naringin after atmospheric pressure dielectric barrier discharge plasma treatment. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2015</b> , 25, 1236-9	2.9	8
35	What happens to full-f gyrokinetic transport and turbulence in a toroidal wedge simulation?. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 012306	2.1	6
34	Sub-microsecond pulsed atmospheric glow discharges with and without dielectric barrier. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 123508	2.1	6
33	VUV spectroscopy in impurity injection experiments at KSTAR using prototype ITER VUV spectrometer. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 083511	1.7	5
32	Development of a particle injection system for impurity transport study in KSTAR. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 11D862	1.7	5
31	Correlation between nanoparticle and plasma parameters with particle growth in dusty plasmas. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 013312	2.5	5
30	Measurement of rotational temperature using SiH(A <sup>2</sup> Σ <sup>+</sup> ) emission spectrum in SiH <sub>4</sub> plasmas. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 083501	2.1	5
29	Role of particle size and gas pressure on the nonlinear oscillatory behavior of a dust particle in a direct current discharge. <i>Physics of Plasmas</i> , <b>2004</b> , 11, 5095-5101	2.1	5
28	Multiple cavity modes in the helicon plasma generated at very high radio frequency. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2002</b> , 20, 2079	2.9	5
27	Electron Information in Single- and Dual-Frequency Capacitive Discharges at Atmospheric Pressure. <i>Scientific Reports</i> , <b>2018</b> , 8, 7516	4.9	5
26	Compact advanced extreme-ultraviolet imaging spectrometer for spatiotemporally varying tungsten spectra from fusion plasmas. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 093509	1.7	4
25	Installation of soft X-ray array diagnostics and its application to tomography reconstruction using synthetic KSTAR X-ray images. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 11E827	1.7	4

24	Determination of the ionization region in Hall thruster plasmas with low perturbation. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 193301	2.5	4
23	Extreme UV spectrometers for the tungsten 4070 Å emission in the WEST tokamak. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C10036-C10036	1	4
22	Role of hydrogen in evolution of plasma parameters and dust growth in capacitively coupled dusty plasmas. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 201503	3.4	3
21	Surface plasma with an inkjet-printed patterned electrode for low-temperature applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 12206	4.9	3
20	Tomography-based spatial uniformity diagnostics for meter-sized plasmas. <i>Plasma Sources Science and Technology</i> , <b>2018</b> , 27, 10LT01	3.5	3
19	Role of atmospheric pressure plasma (APP) in wound healing: APP-induced antifibrotic process in human dermal fibroblasts. <i>Experimental Dermatology</i> , <b>2016</b> , 25, 159-61	4	2
18	KDAS: General-Purpose Data Acquisition System Developed for KAIST-Tokamak. <i>Fusion Science and Technology</i> , <b>2000</b> , 37, 89-95		2
17	Effects of minimal exposures to atmospheric pressure plasma on the activity of Salmonella Typhimurium: Deactivation of bacterial motility and suppression of host-cell invasion. <i>Archives of Biochemistry and Biophysics</i> , <b>2016</b> , 605, 67-75	4.1	2
16	Signal to noise ratio of upgraded imaging bolometer for KSTAR. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 10E115	1.7	2
15	Reconstruction of radiation profiles near the plasma boundary using an infrared imaging video bolometer in KSTAR. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 10E111	1.7	2
14	Electron heating in rf capacitive discharges at atmospheric-to-subatmospheric pressures. <i>Scientific Reports</i> , <b>2018</b> , 8, 10217	4.9	2
13	. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 4670-4676	1.3	1
12	Local profiles of line emission of impurity ions in rotating fusion plasmas. <i>Nuclear Fusion</i> , <b>2020</b> , 60, 036013	3.3	1
11	Helium plasma induced molecular-philocity in a hollow optical fiber <b>2013</b> ,		1
10	Magnetic field tailoring effects on ion beam properties in cylindrical Hall thrusters. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 033303	2.5	1
9	Development of a 700 W Class Laboratory Model Hall Thruster. <i>Journal of the Korean Society of Propulsion Engineers</i> , <b>2021</b> , 25, 65-72	0.2	1
8	Distinct discharge modes in micro Hall thruster plasmas. <i>Plasma Sources Science and Technology</i> , <b>2020</b> , 30, 035004	3.5	1
7	Forward projection matrix derivation through Monte-Carlo ray-tracing of KSTAR infra-red imaging video bolometer (IRVB). <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 10E118	1.7	1

6	Enhancement of Surface Wettability by Intra-Helium Plasma for Liquid Core Fiber Lens. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 2097-2100	2.2	○
5	Three-dimensional tomographically reconstructed optical emission profiles of Hall thruster plasmas. <i>Plasma Sources Science and Technology</i> , <b>2022</b> , 31, 015013	3.5	○
4	Role of ion density in growth, transport, and morphology of nanoparticles generated in plasmas. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 083103	3.4	
3	Atmospheric pressure plasma induced cell cycle arrest in human aortic endothelial cells. <i>FASEB Journal</i> , <b>2013</b> , 27, 916.8	0.9	
2	Forced convective heating for low-temperature sterilization. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 064902	1.7	
1	Structure of the ion acceleration region in cylindrical Hall thruster plasmas. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 225204	3	