

# Youbong Lim

## List of Publications by Year in descending order

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100  
papers

1,950  
citations

318942

23  
h-index

299063

42  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1934  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic field tailoring effects on ion beam properties in cylindrical Hall thrusters. Journal of Applied Physics, 2022, 131, .	1.1	4
2	Three-dimensional tomographically reconstructed optical emission profiles of Hall thruster plasmas. Plasma Sources Science and Technology, 2022, 31, 015013.	1.3	7
3	Neoclassical transport analysis of high rotational trace limit tungsten impurities in KSTAR tokamak. Physics of Plasmas, 2022, 29, 022504.	0.7	4
4	Structure of the ion acceleration region in cylindrical Hall thruster plasmas. Journal Physics D: Applied Physics, 2022, 55, 225204.	1.3	4
5	Stabilization of liquid instabilities with ionized gas jets. Nature, 2021, 592, 49-53.	13.7	37
6	Forced convective heating for low-temperature sterilization. Review of Scientific Instruments, 2021, 92, 064902.	0.6	0
7	Surface plasma with an inkjet-printed patterned electrode for low-temperature applications. Scientific Reports, 2021, 11, 12206.	1.6	4
8	Distinct discharge modes in micro Hall thruster plasmas. Plasma Sources Science and Technology, 2021, 30, 035004.	1.3	7
9	Development of a 700 W Class Laboratory Model Hall Thruster. Journal of the Korean Society of Propulsion Engineers, 2021, 25, 65-72.	0.1	1
10	Determination of the ionization region in Hall thruster plasmas with low perturbation. Journal of Applied Physics, 2021, 130, .	1.1	8
11	Local profiles of line emission of impurity ions in rotating fusion plasmas. Nuclear Fusion, 2020, 60, 036013.	1.6	2
12	Tailoring of Magnetic Field for Performance Improvement in a Small Hall Thruster Plasma. IEEE Transactions on Plasma Science, 2019, 47, 4670-4676.	0.6	1
13	Estimation of inactivation effects against <i>Escherichia coli</i> O157:H7 biofilm by different plasma-treated solutions and post-treatment storage. Applied Physics Letters, 2019, 114, .	1.5	19
14	Extreme UV spectrometers for the tungsten 40–70 Å... emission in the WEST tokamak. Journal of Instrumentation, 2019, 14, C10036-C10036.	0.5	9
15	Electron characterization in weakly ionized collisional plasmas: from principles to techniques. Advances in Physics: X, 2019, 4, 1526114.	1.5	27
16	The creation of electric wind due to the electrohydrodynamic force. Nature Communications, 2018, 9, 371.	5.8	73
17	An innovative curing process with plasma-treated water for production of loin ham and for its quality and safety. Plasma Processes and Polymers, 2018, 15, 1700050.	1.6	69
18	Signal to noise ratio of upgraded imaging bolometer for KSTAR. Review of Scientific Instruments, 2018, 89, 10E115.	0.6	6

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19	Forward projection matrix derivation through Monte-Carlo ray-tracing of KSTAR infra-red imaging video bolometer (IRVB). <i>Review of Scientific Instruments</i> , 2018, 89, 10E118.	0.6	1
20	Progress of the KSTAR Research Program Exploring the Advanced High Performance and Steady-State Plasma Operations. <i>Journal of the Korean Physical Society</i> , 2018, 73, 712-735.	0.3	22
21	Tomography-based spatial uniformity diagnostics for meter-sized plasmas. <i>Plasma Sources Science and Technology</i> , 2018, 27, 10LT01.	1.3	5
22	Reconstruction of radiation profiles near the plasma boundary using an infrared imaging video bolometer in KSTAR. <i>Review of Scientific Instruments</i> , 2018, 89, 10E111.	0.6	3
23	Electron Information in Single- and Dual-Frequency Capacitive Discharges at Atmospheric Pressure. <i>Scientific Reports</i> , 2018, 8, 7516.	1.6	10
24	Electron heating in rf capacitive discharges at atmospheric-to-subatmospheric pressures. <i>Scientific Reports</i> , 2018, 8, 10217.	1.6	6
25	What happens to full-f gyrokinetic transport and turbulence in a toroidal wedge simulation?. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	7
26	Magnetic field configurations on thruster performance in accordance with ion beam characteristics in cylindrical Hall thruster plasmas. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	19
27	Compact advanced extreme-ultraviolet imaging spectrometer for spatiotemporally varying tungsten spectra from fusion plasmas. <i>Review of Scientific Instruments</i> , 2017, 88, 093509.	0.6	6
28	Full-f XGC1 gyrokinetic study of improved ion energy confinement from impurity stabilization of ITC turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	14
29	VUV spectroscopy in impurity injection experiments at KSTAR using prototype ITER VUV spectrometer. <i>Review of Scientific Instruments</i> , 2017, 88, 083511.	0.6	5
30	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> , 2017, 123, 151-156.	2.7	89
31	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> , 2016, 25, 1189-1195.	1.2	81
32	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> , 2016, 605, 67-75.	1.4	4
33	Role of atmospheric pressure plasma (APP) in wound healing: APP-induced antifibrotic process in human dermal fibroblasts. <i>Experimental Dermatology</i> , 2016, 25, 159-161.	1.4	3
34	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> , 2015, 22, 122512.	0.7	11
35	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> , 2015, 35, 703-706.	1.5	42
36	Enhancement of antioxidant effects of naringin after atmospheric pressure dielectric barrier discharge plasma treatment. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1236-1239.	1.0	10

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37	Effect of atmospheric pressure plasma jet on the foodborne pathogens attached to commercial food containers. <i>Journal of Food Science and Technology</i> , 2015, 52, 8410-8415.	1.4	22
38	Electron properties of radio-frequency capacitive discharge at atmospheric pressure. , 2015, , .		0
39	Control of core argon impurity profile by ECH in KSTAR L-mode plasmas. <i>Nuclear Fusion</i> , 2015, 55, 063016.	1.6	33
40	The use of atmospheric pressure plasma-treated water as a source of nitrite for emulsion-type sausage. <i>Meat Science</i> , 2015, 108, 132-137.	2.7	109
41	Inactivation of murine norovirus-1 and hepatitis A virus on fresh meats by atmospheric pressure plasma jets. <i>Food Research International</i> , 2015, 76, 342-347.	2.9	58
42	Effect of magnetic field configuration on the multiply charged ion and plume characteristics in Hall thruster plasmas. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	23
43	Multiply charged ions in hall thruster plasmas. , 2015, , .		1
44	Evaluation of pathogen inactivation on sliced cheese induced by encapsulated atmospheric pressure dielectric barrier discharge plasma. <i>Food Microbiology</i> , 2015, 46, 46-50.	2.1	121
45	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> , 2015, 46, 51-57.	2.1	212
46	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> , 2014, 85, 11E827.	0.6	6
47	Development of a particle injection system for impurity transport study in KSTAR. <i>Review of Scientific Instruments</i> , 2014, 85, 11D862.	0.6	7
48	Test of prototype ITER vacuum ultraviolet spectrometer and its application to impurity study in KSTAR plasmas. <i>Review of Scientific Instruments</i> , 2014, 85, 11E403.	0.6	13
49	Effect of multiply charged ions on the performance and beam characteristics in annular and cylindrical type Hall thruster plasmas. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	27
50	Electron density and temperature measurement by continuum radiation emitted from weakly ionized atmospheric pressure plasmas. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	43
51	Enhancement of Surface Wettability by Intra-Helium Plasma for Liquid Core Fiber Lens. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 2097-2100.	1.3	1
52	Observation of a high-energy tail in ion energy distribution in the cylindrical Hall thruster plasma. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	18
53	Effect of atmospheric pressure dielectric barrier discharge plasma on the biological activity of naringin. <i>Food Chemistry</i> , 2014, 160, 241-245.	4.2	47
54	Multiple (eight) plasma bullets in helium atmospheric pressure plasma jet and the role of nitrogen. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	17

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55	Effect of the annular region on the performance of a cylindrical Hall plasma thruster. Physics of Plasmas, 2013, 20, 023507.	0.7	15
56	Radial scale effect on the performance of low-power cylindrical Hall plasma thrusters. Applied Physics Letters, 2013, 103, .	1.5	18
57	Helium plasma induced molecular-philicity in a hollow optical fiber. , 2013, , .		1
58	Visible emission enhancement in fiber optic atmospheric pressure helium plasma jet. , 2013, , .		0
59	Atmospheric pressure plasma induced cell cycle arrest in human aortic endothelial cells. FASEB Journal, 2013, 27, 916.8.	0.2	0
60	Bootstrap current for the edge pedestal plasma in a diverted tokamak geometry. Physics of Plasmas, 2012, 19, .	0.7	31
61	Design and fabrication of a multi-purpose soft x-ray array diagnostic system for KSTAR. Review of Scientific Instruments, 2012, 83, 10E512.	0.6	10
62	Sub-microsecond pulsed atmospheric glow discharges with and without dielectric barrier. Physics of Plasmas, 2012, 19, .	0.7	15
63	Effects of atmospheric pressure plasma on microorganisms and human cells. , 2012, , .		1
64	Role of ion density in growth, transport, and morphology of nanoparticles generated in plasmas. Applied Physics Letters, 2012, 101, 083103.	1.5	1
65	Differential responses of human liver cancer and normal cells to atmospheric pressure plasma. Applied Physics Letters, 2011, 99, .	1.5	66
66	Correlation between nanoparticle and plasma parameters with particle growth in dusty plasmas. Journal of Applied Physics, 2011, 109, 013312.	1.1	6
67	The driving frequency effects on the atmospheric pressure corona jet plasmas from low frequency to radio frequency. Physics of Plasmas, 2011, 18, .	0.7	27
68	A Simple Approach to Surface Modification Using Polytetrafluoroethylene (PTFE) with Laminar and Turbulent Flows of Micro Plasma Jets at Atmospheric Pressure. Plasma Processes and Polymers, 2011, 8, 535-541.	1.6	32
69	Performance characteristics according to the channel length and magnetic fields of cylindrical Hall thrusters. Applied Physics Letters, 2011, 99, 131505.	1.5	17
70	Modified Phillipsâ€™Tikhonov regularization for plasma tomography. Current Applied Physics, 2010, 10, 893-899.	1.1	24
71	Correlation between excitation temperature and electron temperature with two groups of electron energy distributions. Physics of Plasmas, 2010, 17, 103501.	0.7	32
72	Role of hydrogen in evolution of plasma parameters and dust growth in capacitively coupled dusty plasmas. Applied Physics Letters, 2010, 97, 201503.	1.5	3

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73	Measurement of rotational temperature using SiH(A <sup>2</sup> Π <sup>-</sup> X <sup>2</sup> Π) emission spectrum in SiH <sub>4</sub> -H <sub>2</sub> plasmas. Physics of Plasmas, 2010, 17, 083501.	0.7	5
74	Plasma effects on subcellular structures. Applied Physics Letters, 2010, 96, .	1.5	38
75	Plasma Parameter Dependence of Critical Particle Size at the Moment of Void Formation in RF Silane Plasmas. AIP Conference Proceedings, 2008, , .	0.3	0
76	Electron Temperature and Density Variation Due To Temporal Evolution of Nano Particle Growth in RF Silane Plasma. AIP Conference Proceedings, 2008, , .	0.3	0
77	Decontamination of chemical warfare agent simulator Dimethyl Methylphosphonate (DMMP) using RF large area non-thermal atmospheric pressure plasma. , 2008, , .		0
78	A two-dimensional particle-in-cell simulation of stationary plasma thruster discharges. , 2008, , .		0
79	Feasibility study of atmospheric pressure plasma treatments of HEPG-2 and SK-HEP-1 cancer cells. , 2008, , .		0
80	Multi Optical Passes Method for Measuring 2-D Particle Size Distribution in Plasmas. , 2007, , .		0
81	Comparative study of atmospheric pressure LF and RF micro jet plasmas produced in a single electrode system. , 2007, , .		0
82	Electron density measurement for microwave-induced atmospheric pressure plasmas using laser deflection method. , 2007, , .		0
83	Spectroscopic characterization of a- and .-mode in a capacitively-coupled plasma in the high pressure range up to atmospheric pressure. , 2006, , .		0
84	/spl alpha//spl gamma/ and normal, abnormal glow discharge modes in radio-frequency capacitively-coupled discharges at atmospheric pressure. , 2006, , .		0
85	Characteristics of an atmospheric pressure low temperature discharge produced for 3-d surface treatments. , 2006, , .		0
86	Comparison of the three tokamak plasma tomography methods for high spatial resolution and fast calculation. Review of Scientific Instruments, 2006, 77, 10F513.	0.6	10
87	Atmospheric pressure micro-plasma in a single pin-electrode configuration. , 2006, , .		0
88	Role of particle size and gas pressure on the nonlinear oscillatory behavior of a dust particle in a direct current discharge. Physics of Plasmas, 2004, 11, 5095-5101.	0.7	5
89	Preliminary design of the soft x-ray array tomographic diagnostic system for Korea Superconducting Tokamak Advanced Research (KSTAR) plasmas. Review of Scientific Instruments, 2004, 75, 3974-3976.	0.6	11
90	Multiple cavity modes in the helicon plasma generated at very high radio frequency. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 2079.	0.9	6

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91	Multichannel rf-compensated Langmuir probe array driven by a single bias supply. Review of Scientific Instruments, 2002, 73, 277-282.	0.6	11
92	KDAS: General-Purpose Data Acquisition System Developed for KAIST-Tokamak. Fusion Science and Technology, 2000, 37, 89-95.	0.6	2
93	Simple microwave preionization source for ohmic plasmas. Review of Scientific Instruments, 2000, 71, 2728-2732.	0.6	17
94	The KSTAR project: An advanced steady state superconducting tokamak experiment. Nuclear Fusion, 2000, 40, 575-582.	1.6	168
95	Effect of an AC-modulated cathode on particle trap in a dusty DC discharge. , 0, , .		0
96	Study of an atmospheric-pressure dielectric barrier discharge developed for large area material processing. , 0, , .		0
97	Design of magnetic nozzle for an advanced RF thruster. , 0, , .		0
98	Development of a tomographic reconstruction method and test for soft x-ray array diagnostics for KSTAR plasmas. , 0, , .		0
99	Spatial distribution of dust particles around the trapping region in a DC dusty plasma. , 0, , .		0
100	Simulation of plasma evolution in the initial phase of inductive tokamak startup. , 0, , .		0