

Kiyoyuki Yambe

List of Publications by Year in descending order

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71
papers

553
citations

687363

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all docs

71
docs citations

71
times ranked

261
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement method of plasma current and density in atmospheric pressure plasma jet. IEEJ Transactions on Electrical and Electronic Engineering, 2015, 10, 614-618.	1.4	26
2	Relation between plasma plume density and gas flow velocity in atmospheric pressure plasma. Physics of Plasmas, 2014, 21, .	1.9	25
3	Study on Operation of Oversized Backward Wave Oscillator for Broadband Terahertz Radiation. IEEE Transactions on Plasma Science, 2018, 46, 530-538.	1.3	23
4	Experimental Study on Generation of Electron Beam Utilizing Cold Cathode in the Weakly Relativistic Energy Region. IEEE Transactions on Plasma Science, 2013, 41, 2781-2785.	1.3	19
5	Influence of flowing helium gas on plasma plume formation in atmospheric pressure plasma. Physics of Plasmas, 2015, 22, 053513.	1.9	19
6	Investigation of helium plasma temperature in atmospheric-pressure plasma plume using line pair method. Physics of Plasmas, 2016, 23, .	1.9	19
7	Normal Modes and Slow-Wave Instabilities in Oversized Coaxial Slow-Wave Structure With Rectangular Corrugations. IEEE Transactions on Plasma Science, 2013, 41, 2729-2734.	1.3	18
8	Relation between plasma plume charge and length in atmospheric pressure plasma. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, S13.	1.4	18
9	Experimental Study on G-Band Oversized Backward Wave Oscillator Driven by Weakly Relativistic Electron Beam. Plasma and Fusion Research, 2014, 9, 3406032-3406032.	0.7	17
10	Experimental study of intense radiation in terahertz region based on cylindrical surface wave resonator. Journal of Applied Physics, 2015, 118, 123101.	2.5	17
11	Estimation of excitation temperature by duty ratio of observed period in non-equilibrium plasma. Physics of Plasmas, 2017, 24, .	1.9	17
12	Experimental Study on Favorable Properties of Compound RF Discharge Plasmas with a Tapered Shape Hollow Cathode Compared with a Plane Cathode. Japanese Journal of Applied Physics, 2006, 45, 8883-8889.	1.5	13
13	Charge dependence of the plasma travel length in atmospheric-pressure plasma. Physics of Plasmas, 2016, 23, .	1.9	13
14	Study on Operation of a Surface-Wave Oscillator Around the π -Point Region. IEEE Transactions on Plasma Science, 2017, 45, 30-38.	1.3	13
15	Oscillation-Starting Conditions for Oversized G -Band (140~220 GHz) Backward Wave Oscillator Driven by Weakly Relativistic Electron Beam. IEEE Transactions on Plasma Science, 2015, 43, 3530-3536.	1.3	12
16	Experimental Study on W-Band (75 - 110 GHz) Oversized Surface Wave Oscillator Driven by Weakly Relativistic Electron Beams. Plasma and Fusion Research, 2016, 11, 2406085-2406085.	0.7	12
17	Quasi-single helicity state by a small positive pulse of toroidal magnetic field in TPE-RX reversed field pinch experiment. Physics of Plasmas, 2006, 13, 122511.	1.9	11
18	Influence of Gas Flow on Plasma Length in Atmospheric Pressure Plasma Jet. , 2014, , .		11

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19	Beam Interactions With Surface Waves and Higher Order Modes in Oversized G-band Slow-Wave Structure. IEEE Transactions on Plasma Science, 2016, 44, 201-210.	1.3	11
20	Cold pulse propagation in a reversed-field pinch. Nuclear Fusion, 2007, 47, 135-145.	3.5	10
21	Dependence of Plasma Plume Formation on Applied Voltage Waveform in Atmospheric-Pressure Plasma. IEEE Transactions on Plasma Science, 2016, 44, 107-112.	1.3	10
22	Relation between plasma velocity and power spectrum density in atmospheric-pressure plasma plume. Physics of Plasmas, 2016, 23, .	1.9	9
23	Deuterium Ice Pellet Injection during Pulsed Poloidal Current Drive Operation in Toroidal Pinch Experiment-RX Reversed-Field Pinch Device. Japanese Journal of Applied Physics, 2006, 45, L1124-L1126.	1.5	8
24	Effects of internal structure on equilibrium of field-reversed configuration plasma sustained by rotating magnetic field. Physics of Plasmas, 2008, 15, 092508.	1.9	8
25	Investigation of turbulence in reversed field pinch plasma by using microwave imaging reflectometry. Physics of Plasmas, 2011, 18, 102315.	1.9	8
26	Smith-Purcell Radiation Based on Cylindrical Surface Waves. Fusion Science and Technology, 2013, 63, 259-261.	1.1	8
27	Dependence of plasma current on object condition in atmospheric pressure non-thermal equilibrium argon plasma. AIP Advances, 2019, 9, .	1.3	8
28	Microwave Imaging Reflectometry Experiment in TPE-RX. Plasma and Fusion Research, 2008, 3, 053-053.	0.7	8
29	Numerical Study of Slow-wave Instabilities in an Oversized Coaxial Slow-wave Structure. Journal of the Korean Physical Society, 2011, 59, 3555-3559.	0.7	8
30	Contribution of the Electrostatic Fluctuation to the Particle and Energy Fluxes in the Edge Region of STP-3(M) Reversed Field Pinch Plasma. Journal of the Physical Society of Japan, 2004, 73, 907-913.	1.6	7
31	Turbulence and particle confinement in a reversed-field pinch plasma. Plasma Physics and Controlled Fusion, 2007, 49, 199-209.	2.1	7
32	Surface Waves in Oversized G-Band Slow-Wave Structures with Rectangular Corrugations. Plasma and Fusion Research, 2014, 9, 3406022-3406022.	0.7	7
33	Driving Force of Plasma Bullet in Atmospheric-Pressure Plasma. Journal of the Physical Society of Japan, 2018, 87, 064501.	1.6	7
34	Experimental Study on Backward Wave Oscillation Based on Cylindrical Surface Wave of Smith-Purcell Free Electron Laser. Plasma and Fusion Research, 2011, 6, 2401039-2401039.	0.7	7
35	Cylindrical Surface Wave on Periodically Corrugated Metal. Plasma and Fusion Research, 2012, 7, 2406022-2406022.	0.7	7
36	Generation of Highly Uniform Plasma on the Grounded Electrode Surface by Radio Frequency Discharge with the Use of Modified Multi Hollow Cathodes. Japanese Journal of Applied Physics, 2007, 46, 6032-6036.	1.5	6

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37	Estimation of Flow Channel Parameters for Flowing Gas Mixed with Air in Atmospheric-pressure Plasma Jets. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 124502.	1.6	6
38	Excitation Wavelength and Temperature at Irradiation of Metal by Atmospheric-Pressure Nonequilibrium Argon Plasma. <i>Plasma Medicine</i> , 2018, 8, 23-34.	0.6	6
39	The scale-to-scale energy transfers correlated with the development of turbulence in toroidal plasmas. <i>Nuclear Fusion</i> , 2019, 59, 044001.	3.5	6
40	Change of plasma propagation state due to force balance with collision. <i>AIP Advances</i> , 2020, 10, .	1.3	6
41	Plasma current regulated by balance between driving and restricting forces. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	6
42	Property of plasma by radio frequency discharge with the use of multi hollow cathodes. <i>Journal of Physics: Conference Series</i> , 2008, 106, 012018.	0.4	5
43	Beam interactions with surface waves and higher-order modes in oversized backward wave oscillators. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1209-1214.	0.7	5
44	Electrostatic Fluctuation Measurements in the Periphery of a Reversed Field Pinch Plasma. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2003, 123, 1094-1099.	0.2	5
45	High-Beta Plasma Confinement in TPE-RX During Pulsed Poloidal Current Drive Operation in Reversed-Field Pinch Plasma. <i>Plasma and Fusion Research</i> , 2007, 2, 050-050.	0.7	5
46	High Beta and High Density Operation in TPE-RX. <i>Plasma and Fusion Research</i> , 2009, 4, 022-022.	0.7	5
47	Maximum Entropy Analysis of the 2D Density Turbulence Measured by MIR in TPE-RX. <i>Plasma and Fusion Research</i> , 2010, 5, S1019-S1019.	0.7	5
48	Higher Order Mode Radiations of Weakly Relativistic Oversized Backward Wave Oscillator. <i>Plasma and Fusion Research</i> , 2013, 8, 2401085-2401085.	0.7	5
49	Measurement of Fast Magnetic Fluctuations in Edge Region of TPE-RX Reversed-Field Pinch Plasma. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 6831-6833.	1.5	4
50	Experimental conditions for generation of space-charge limitation in atmospheric pressure non-thermal-equilibrium argon plasma. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	4
51	Superthermal Electron Diffusion Processes in a Reversed Field Pinch. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 1680-1683.	1.6	3
52	Azimuthally non-uniform equilibrium of field-reversed configuration sustained by rotating magnetic field with spatial high-harmonic components. <i>Nuclear Fusion</i> , 2009, 49, 055010.	3.5	3
53	Correlation of electrostatic fluctuation and reversal of toroidal field in the reversed-field pinch plasma. <i>Physics of Plasmas</i> , 2011, 18, 064505.	1.9	3
54	Improved confinement region without large magnetohydrodynamic activity in TPE-RX reversed-field pinch plasma. <i>Physics of Plasmas</i> , 2014, 21, 114502.	1.9	3

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55	Repeated plasma current induced by potential fluctuation in atmospheric pressure non-thermal-equilibrium plasma jet. AIP Advances, 2021, 11, .	1.3	3
56	Frequency Dependence of Fast Magnetic Fluctuations in TPE-RX Reversed-Field Pinch Plasma. Plasma and Fusion Research, 2008, 3, 060-060.	0.7	3
57	Experimental study on measurements of plasma current and density in atmospheric pressure plasma jet. , 2013, , .		2
58	Cylindrical Surface Waves and Slow-Wave Instabilities of Periodically Corrugated Cylinder. Fusion Science and Technology, 2013, 63, 152-155.	1.1	2
59	Experimental study on Smith-Purcell radiations of weakly relativistic oversized backward wave oscillators. Journal of the Korean Physical Society, 2014, 65, 1196-1200.	0.7	2
60	The Effect of the Side Edge on the Plasma Current during Interactions between a Cold Plasma and a Metal Object. Journal of the Physical Society of Japan, 2021, 90, 084501.	1.6	2
61	Effect of Plasma Biasing on Suppression of Electrostatic Fluctuation in the Edge Region of STP-3(M) Reversed Field Pinch. Journal of the Physical Society of Japan, 2005, 74, 605-612.	1.6	2
62	Experimental Study on Weakly Relativistic Oversized Backward Wave Oscillator with Coaxial Rectangular Corrugations. Journal of the Korean Physical Society, 2011, 59, 3573-3577.	0.7	2
63	Electrostatic fluctuation measurements in the periphery of reversed field pinch plasma. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2005, 150, 1-7.	0.4	1
64	Influence of Bias Magnetic Field Configuration on Equilibrium of Field-Reversed Configuration Plasma Sustained by Rotating Magnetic Field. Fusion Science and Technology, 2013, 63, 147-151.	1.1	1
65	Variation of Magnetic Fluctuation due to Gas Puffing in Edge Region of Reversed-Field Pinch Plasma. Journal of the Physical Society of Japan, 2016, 85, 094501.	1.6	1
66	Start-up assist by magnetized plasma flow injection in TPE-RX reversed-field pinch. Fusion Engineering and Design, 2006, 81, 2859-2862.	1.9	0
67	High-Beta Steady-State FRC Plasma Sustained by Rotating Magnetic Field with Spatial High-Harmonic Components. Journal of Fusion Energy, 2009, 28, 162-164.	1.2	0
68	Magnetic fluctuation behavior during the transition between quasi-single helicity and multi helicity states in the reversed-field pinch plasma. Physics of Plasmas, 2016, 23, 112507.	1.9	0
69	Time Evolution Measurement of Ion Energy Spectrum in Reversed Field Pinch Plasmas. Journal of Plasma and Fusion Research, 2004, 80, 516-522.	0.4	0
70	Characteristic of Generation of Intense Microwave in Oversized W-band Surface Wave Oscillator Driven by Weakly Relativistic Electron Beam. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 165-170.	0.2	0
71	Experimental Study on Backward Wave Oscillators Using Dielectric Discharge Cold Cathodes. Plasma and Fusion Research, 2018, 13, 3406107-3406107.	0.7	0