

# Valery Godyak

## List of Publications by Year in descending order

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43  
papers

4,278  
citations

186209

28  
h-index

254106

43  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1426  
citing authors

#	ARTICLE	IF	CITATIONS
1	RF discharge diagnostics: Some problems and their resolution. Journal of Applied Physics, 2021, 129, .	1.1	25
2	Etching of Si3N4 induced by electron beam plasma from hollow cathode plasma in a downstream reactive environment. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, 032208.	0.6	3
3	Electron beam injection from a hollow cathode plasma into a downstream reactive environment: Characterization of secondary plasma production and Si3N4 and Si etching. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, 033001.	0.9	5
4	On helicon thrusters: Will they ever fly?. Journal of Applied Physics, 2020, 127, 103301.	1.1	10
5	On volt-ampere characteristic of symmetric CCP. Physics of Plasmas, 2020, 27, .	0.7	1
6	Electron kinetics in low-temperature plasmas. Physics of Plasmas, 2019, 26, .	0.7	45
7	Measurement of the electron energy distribution in moving striations at low gas pressures. Physics of Plasmas, 2019, 26, 033504.	0.7	13
8	Comments on plasma diagnostics with microwave probes. Physics of Plasmas, 2017, 24, .	0.7	19
9	Power measurements and coupler optimization in inductive discharges. Review of Scientific Instruments, 2017, 88, 083512.	0.6	6
10	Plasma density perturbation caused by probes at low gas pressure. Physics of Plasmas, 2017, 24, 093504.	0.7	7
11	Integral electrical characteristics and local plasma parameters of a RF ion thruster. Review of Scientific Instruments, 2016, 87, 02B926.	0.6	13
12	Comparative analyses of plasma probe diagnostics techniques. Journal of Applied Physics, 2015, 118, .	1.1	107
13	Langmuir paradox revisited. Plasma Sources Science and Technology, 2015, 24, 052001.	1.3	16
14	Effect of surface derived hydrocarbon impurities on Ar plasma properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	10
15	Ferromagnetic enhanced inductive plasma sources. Journal Physics D: Applied Physics, 2013, 46, 283001.	1.3	70
16	Electrical and plasma parameters of ICP with high coupling efficiency. Plasma Sources Science and Technology, 2011, 20, 025004.	1.3	74
17	Probe measurements of electron-energy distributions in plasmas: what can we measure and how can we achieve reliable results?. Journal Physics D: Applied Physics, 2011, 44, 233001.	1.3	269
18	Hot plasma effects in gas discharge plasma. Physics of Plasmas, 2005, 12, 055501.	0.7	40

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19	The hairpin resonator: A plasma density measuring technique revisited. <i>Journal of Applied Physics</i> , 2004, 95, 3785-3791.	1.1	207
20	Plasma and electrical characteristics of inductive discharge in a magnetic field. <i>Physics of Plasmas</i> , 2004, 11, 3553-3560.	0.7	26
21	Radio frequency potential of inductive plasma immersed in a weak magnetic field. <i>Applied Physics Letters</i> , 2004, 84, 1468-1470.	1.5	13
22	On the consistency of the collisionless sheath model. <i>Physics of Plasmas</i> , 2002, 9, 4427-4430.	0.7	67
23	Electron energy distribution function measurements and plasma parameters in inductively coupled argon plasma. <i>Plasma Sources Science and Technology</i> , 2002, 11, 525-543.	1.3	304
24	Lorentz force effects on the electron energy distribution in inductively coupled plasmas. <i>Physical Review E</i> , 2001, 64, 026406.	0.8	38
25	Observation of Second Harmonic Currents in Inductively Coupled Plasmas. <i>Physical Review Letters</i> , 1999, 83, 1610-1612.	2.9	35
26	Effective electron collision frequency and electrical conductivity of radio frequency plasmas. <i>Journal of Applied Physics</i> , 1999, 85, 3081-3083.	1.1	38
27	Experimental setup and electrical characteristics of an inductively coupled plasma. <i>Journal of Applied Physics</i> , 1999, 85, 703-712.	1.1	96
28	Experimental Evidence of Collisionless Power Absorption in Inductively Coupled Plasmas. <i>Physical Review Letters</i> , 1998, 80, 3264-3267.	2.9	83
29	ICP diagnostics with magnetic probes. <i>European Physical Journal Special Topics</i> , 1998, 08, Pr7-241-Pr7-256.	0.2	8
30	Negative Power Absorption in Inductively Coupled Plasma. <i>Physical Review Letters</i> , 1997, 79, 4589-4592.	2.9	97
31	Electromagnetic field structure in a weakly collisional inductively coupled plasma. <i>Journal of Applied Physics</i> , 1997, 82, 5944-5947.	1.1	56
32	Electrical conductivity in high-frequency plasmas. <i>Journal of Applied Physics</i> , 1996, 79, 8993-8997.	1.1	72
33	Paradoxical spatial distribution of the electron temperature in a low pressure rf discharge. <i>Applied Physics Letters</i> , 1993, 63, 3137-3139.	1.5	96
34	Probe diagnostics of non-Maxwellian plasmas. <i>Journal of Applied Physics</i> , 1993, 73, 3657-3663.	1.1	283
35	Evolution of the electron-energy-distribution function during rf discharge transition to the high-voltage mode. <i>Physical Review Letters</i> , 1992, 68, 40-43.	2.9	179
36	A simple analysis of an inductive RF discharge. <i>Plasma Sources Science and Technology</i> , 1992, 1, 179-186.	1.3	244

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37	Measurement of electron energy distribution in low-pressure RF discharges. Plasma Sources Science and Technology, 1992, 1, 36-58.	1.3	686
38	Ion flux and ion power losses at the electrode sheaths in a symmetrical rf discharge. Journal of Applied Physics, 1991, 69, 3455-3460.	1.1	61
39	An experimental system for symmetric capacitive rf discharge studies. Review of Scientific Instruments, 1990, 61, 2401-2406.	0.6	30
40	Abnormally low electron energy and heating-mode transition in a low-pressure argon rf discharge at 13.56 MHz. Physical Review Letters, 1990, 65, 996-999.	2.9	508
41	Probe measurements of the space potential in a radio frequency discharge. Journal of Applied Physics, 1990, 68, 3157-3162.	1.1	73
42	In situ simultaneous radio frequency discharge power measurements. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 3833-3837.	0.9	118
43	Power dissipated in low-pressure radio-frequency discharge plasmas. Journal of Applied Physics, 1985, 57, 53-58.	1.1	127