

Sergey Golubev

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

673

citations

15

h-index

21

g-index

93

ext. papers

762

ext. citations

1.4

avg, IF

3.57

L-index

#	Paper	IF	Citations
83	A point-like source of extreme ultraviolet radiation based on a discharge in a non-uniform gas flow, sustained by powerful gyrotron radiation of terahertz frequency band. <i>Applied Physics Letters</i> , 2014 , 105, 174101	3.4	54
82	Formation of multi-charged ions and plasma stability at quasigasdynamic plasma confinement in a mirror magnetic trap. <i>Review of Scientific Instruments</i> , 2000 , 71, 669-671	1.7	35
81	Kinetic instabilities in a mirror-confined plasma sustained by high-power microwave radiation. <i>Physics of Plasmas</i> , 2017 , 24, 032111	2.1	27
80	Multiple ionization of metal ions by ECR heating of electrons in vacuum arc plasmas. <i>Review of Scientific Instruments</i> , 2004 , 75, 1888-1890	1.7	27
79	Observation of pulsed fast electron precipitations and the cyclotron generation mechanism of burst activity in a decaying ECR discharge plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 104, 296-306	1	22
78	Cyclotron-resonance maser driven by magnetic compression of rarefied plasma. <i>Physical Review Letters</i> , 2007 , 99, 205002	7.4	21
77	Experimental investigations of silicon tetrafluoride decomposition in ECR discharge plasma. <i>Review of Scientific Instruments</i> , 2011 , 82, 063503	1.7	20
76	Maser based on cyclotron resonance in a decaying plasma. <i>JETP Letters</i> , 2006 , 84, 314-319	1.2	20
75	Interpretation of complex patterns observed in the electron-cyclotron instability of a mirror confined plasma produced by an ECR discharge. <i>Plasma Physics and Controlled Fusion</i> , 2012 , 54, 085023	2	18
74	On the possibility of terahertz wave generation upon dense gas optical breakdown. <i>JETP Letters</i> , 2004 , 79, 361-364	1.2	18
73	Laboratory modeling of nonstationary processes in space cyclotron masers: First results and prospects. <i>Plasma Physics Reports</i> , 2005 , 31, 927-937	1.2	18
72	Features of plasma glow in low pressure terahertz gas discharge. <i>Physics of Plasmas</i> , 2013 , 20, 123512	2.1	17
71	Generating high-energy highly charged ion beams from petawatt-class laser interactions with compound targets. <i>Physical Review Letters</i> , 2012 , 109, 245008	7.4	17
70	Plasma parameters of an electron cyclotron resonance discharge in a magnetic mirror in a quasi-gasdynamic confinement regime. <i>Technical Physics Letters</i> , 1999 , 25, 588-589	0.7	17
69	Measurement of plasma density in the discharge maintained in a nonuniform gas flow by a high-power terahertz-wave gyrotron. <i>Physics of Plasmas</i> , 2016 , 23, 043511	2.1	16
68	Experimental electron energy distribution function investigation at initial stage of electron cyclotron resonance discharge. <i>Review of Scientific Instruments</i> , 2012 , 83, 02B504	1.7	15
67	Cyclotron-resonance maser with adiabatic magnetic pumping in a low-density plasma. <i>JETP Letters</i> , 2007 , 86, 91-97	1.2	15

66	Observation of extreme ultraviolet light emission from an expanding plasma jet with multiply charged argon or xenon ions. <i>Applied Physics Letters</i> , 2018 , 113, 153502	3.4	15
65	Generation of multiply charged refractory metals in an electron-cyclotron resonant discharge in a direct magnetic trap. <i>Technical Physics</i> , 2005 , 50, 1207-1211	0.5	14
64	High current density production of multicharged ions with ECR plasma heated by gyrotron transmitter. <i>Review of Scientific Instruments</i> , 2002 , 73, 528-530	1.7	14
63	Gas discharge powered by the focused beam of the high-intensive electromagnetic waves of the terahertz frequency band. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 464002	3	13
62	The Discharge Maintained by High-Power Terahertz Radiation in a Nonuniform Gas Flow. <i>Radiophysics and Quantum Electronics</i> , 2014 , 56, 561-565	0.7	13
61	On the Mechanism of Energetic Electron Losses from the Magnetic Mirror Trap at the ECR Discharge Startup. <i>Radiophysics and Quantum Electronics</i> , 2013 , 56, 216-227	0.7	13
60	Microwave discharge on a dielectric surface in vacuum. <i>Journal of Experimental and Theoretical Physics</i> , 2001 , 92, 986-990	1	13
59	Extreme-ultraviolet source based on the electron-cyclotron-resonance discharge. <i>JETP Letters</i> , 2008 , 88, 95-98	1.2	11
58	Plasma density in discharge sustained in inhomogeneous gas flow by high-power radiation in the terahertz frequency range. <i>Technical Physics Letters</i> , 2017 , 43, 186-189	0.7	10
57	A study of silicon tetrafluoride reduction with hydrogen in radiofrequency discharge. <i>High Energy Chemistry</i> , 2014 , 48, 49-53	0.9	10
56	Generation of Electromagnetic Bursts in the Plasma Cyclotron Maser. <i>Radiophysics and Quantum Electronics</i> , 2013 , 56, 12-19	0.7	10
55	Study of hydrogen ECR plasma in a simple mirror magnetic trap heated by 75 GHz pulsed gyrotron radiation. <i>Review of Scientific Instruments</i> , 2017 , 88, 033503	1.7	9
54	Pulse-Periodic Regime of Kinetic Instability of the ECR Discharge Plasma Under the Conditions of Double Plasma Resonance. <i>Radiophysics and Quantum Electronics</i> , 2015 , 57, 849-856	0.7	9
53	Multiple ionization of vacuum-arc-generated metal ions in a magnetic trap heated by high-power microwave radiation. <i>Technical Physics Letters</i> , 2007 , 33, 872-874	0.7	9
52	Soft X-rays generated by the electron-cyclotron resonance discharge in heavy gases sustained by a high-power microwave beam in a magnetic trap. <i>Technical Physics Letters</i> , 2000 , 26, 1075-1077	0.7	9
51	Ion charge state distribution in plasma of electron cyclotron resonance discharge sustained by powerful millimeter wave radiation. <i>Review of Scientific Instruments</i> , 1998 , 69, 634-636	1.7	8
50	Observation of quasi-periodic frequency sweeping in electron cyclotron emission of nonequilibrium mirror-confined plasma. <i>Europhysics Letters</i> , 2016 , 116, 55001	1.6	8
49	Status of the gasdynamic ion source for multipurpose operation (GISMO) development at IAP RAS. <i>Review of Scientific Instruments</i> , 2019 , 90, 123308	1.7	8

48	Theory of a stationary microwave discharge with multiply charged ions in an expanding gas jet. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 123, 219-230	1	7
47	Generation of high charge state platinum ions on vacuum arc plasma heated by gyrotron radiation. <i>Review of Scientific Instruments</i> , 2014 , 85, 02B902	1.7	6
46	PECVD preparation of silicon and germanium with different isotopic composition via their tetrafluorides. <i>Journal of Physics: Conference Series</i> , 2014 , 514, 012002	0.3	6
45	An experimental setup for studying the interaction of dense supersonic plasma flows with an arched magnetic field. <i>Technical Physics Letters</i> , 2015 , 41, 901-904	0.7	5
44	Zebra-like patterns in whistler wave emission spectra from nonequilibrium mirror-confined laboratory plasma. <i>Physics of Plasmas</i> , 2020 , 27, 062104	2.1	5
43	An extreme ultraviolet radiation source based on plasma heated by millimeter range radiation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 64-66	0.4	5
42	Observation of plasma microwave emission during the injection of supersonic plasma flows into magnetic arch. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 075001	2	4
41	A powerful pulsed "point-like" neutron source based on the high-current ECR ion source. <i>Review of Scientific Instruments</i> , 2020 , 91, 013331	1.7	4
40	Fabrication of nanocrystalline silicon layers by plasma enhanced chemical vapor deposition from silicon tetrafluoride. <i>Semiconductors</i> , 2009 , 43, 968-972	0.7	4
39	High current multicharged metal ion source using high power gyrotron heating of vacuum arc plasma. <i>Review of Scientific Instruments</i> , 2008 , 79, 02B304	1.7	4
38	Excitation of electromagnetic waves in dense plasma during the injection of supersonic plasma flows into magnetic arch 2016 ,		4
37	Monocrystalline InN Films Grown at High Rate by Organometallic Vapor Phase Epitaxy with Nitrogen Plasma Activation Supported by Gyrotron Radiation. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 110201	1.4	3
36	Formation of UV-radiating strongly non-equilibrium plasma with multiply charged ions in the expanding high-pressure gas jet 2016 ,		3
35	On the Possibility of Creating a Point-Like Neutron Source. <i>Radiophysics and Quantum Electronics</i> , 2018 , 60, 779-785	0.7	3
34	Gasdynamic electron cyclotron ion sources: Basic physics, applications, and diagnostic techniques.. <i>Review of Scientific Instruments</i> , 2022 , 93, 033502	1.7	3
33	Experimental investigation of powerful THz gyrotrons for initiation of localized gas discharge 2015 ,		2
32	A point-like plasma, sustained by powerful radiation of terahertz gyrotrons, as a source of ultraviolet light 2017 ,		2
31	Growing InN films by plasma-assisted metalorganic vapor-phase epitaxy on Al ₂ O ₃ and YSZ substrates in plasma generated by gyrotron radiation under electron cyclotron resonance conditions. <i>Technical Physics Letters</i> , 2013 , 39, 51-54	0.7	2

30	Glow plasma trigger for electron cyclotron resonance ion sources. <i>Review of Scientific Instruments</i> , 2010 , 81, 02A305	1.7	2
29	Production of nanocrystalline silicon layers using the plasma enhanced chemical vapor deposition from the gas phase of silicon tetrafluoride. <i>JETP Letters</i> , 2009 , 89, 73-75	1.2	2
28	Effect of Vacuum-Chamber Wall Gassing on the Evolution of an ECR Discharge in a Magnetic Trap. <i>Radiophysics and Quantum Electronics</i> , 2003 , 46, 744-748	0.7	2
27	Resonant increase of x-ray emission in a microwave discharge at half-gyrofrequency. <i>Physics of Plasmas</i> , 2002 , 9, 2781-2785	2.1	2
26	Kinetic instabilities in a mirror-confined plasma sustained by high-power microwave radiation 2016 ,		2
25	Gas breakdown by a focused CW 263 GHz beam 2016 ,		2
24	Applications of the gas discharge sustained by the powerful radiation of THz gyrotrons. <i>Journal of Physics: Conference Series</i> , 2019 , 1400, 077032	0.3	2
23	The dynamics of supersonic plasma flow interaction with the magnetic arch. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 035001	2	2
22	High-rate growth of InN films on fianite and sapphire substrates by metalorganic vapor phase epitaxy with plasma-assisted nitrogen activation. <i>Technical Physics Letters</i> , 2015 , 41, 266-269	0.7	1
21	High-Current Pulsed ECR Ion Sources. <i>Plasma Physics Reports</i> , 2019 , 45, 984-989	1.2	1
20	On the feasibility of electron cyclotron heating of overcritical plasma in a magnetic mirror trap. <i>Plasma Physics Reports</i> , 2012 , 38, 443-449	1.2	1
19	Gas breakdown by a focused beam of CW THz radiation 2017 ,		1
18	Indium Nitride Film Growth by Metal Organic Chemical Vapor Deposition with Nitrogen Activation in Electron Cyclotron Resonance Discharge Sustained by 24 GHz Gyrotron Radiation. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JD07	1.4	1
17	He ²⁺ -source based on Penning-type discharge with electron cyclotron resonant heating by millimeter waves. <i>Plasma Sources Science and Technology</i> , 2011 , 20, 035014	3.5	1
16	On the Possibility of ECR-Discharge with Overcritical Plasma Density in Axisymmetrical Magnetic Trap. <i>Fusion Science and Technology</i> , 2011 , 59, 223-225	1.1	1
15	Short-pulse ECR: A source of multiply charged ions. <i>Technical Physics</i> , 2010 , 55, 1797-1801	0.5	1
14	Multiple Ionization Of Metal Ions By ECR Heating Of Electrons In Vacuum Arc Plasmas. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
13	Point-like neutron source based on D-D fusion reaction. <i>Journal of Physics: Conference Series</i> , 2019 , 1370, 012008	0.3	1

12	Wide-aperture dense plasma fluxes production based on ECR discharge in a single solenoid magnetic field. <i>Review of Scientific Instruments</i> , 2019 , 90, 123511	1.7	1
11	A Compact Neutron Source for Boron Neutron Capture Therapy. <i>Radiophysics and Quantum Electronics</i> , 2017 , 59, 682-689	0.7	0
10	Ion charge-state distribution in a high-power pulsed electron cyclotron resonance discharge sustained by millimeter-wavelength radiation. <i>Technical Physics Letters</i> , 1997 , 23, 319-320	0.7	0
9	Emission Measurements of a Gasdynamic Electron Cyclotron Resonant Ion Source. <i>Technical Physics Letters</i> , 2021 , 47, 485-489	0.7	0
8	Deuterium ion beam focusing for the point neutron source development. <i>Journal of Physics: Conference Series</i> , 2020 , 1647, 012009	0.3	
7	Point-like neutron source based on high-current electron cyclotron resonance ion source with powerful millimeter wave plasma heating. <i>Journal of Physics: Conference Series</i> , 2018 , 946, 012024	0.3	
6	Isotope-modified silicon layers obtained by plasma enhanced chemical vapor deposition from gaseous silicon tetrafluoride. <i>Technical Physics Letters</i> , 2009 , 35, 948-950	0.7	
5	Soft x-ray emission from millimeter-wave electron cyclotron resonance discharge. <i>Journal of X-Ray Science and Technology</i> , 1996 , 6, 244-8	2.1	
4	A slit-based method of a high-current ion beam transversal distribution diagnostic. <i>Journal of Physics: Conference Series</i> , 2020 , 1683, 032005	0.3	
3	Supersonic plasma flow injection across the magnetic arch in a table-top laboratory setup. <i>Journal of Physics: Conference Series</i> , 2019 , 1400, 077034	0.3	
2	ECR Discharge Sustained by Millimeter Waves as a Source of Dense Plasma Flux. <i>Plasma Physics Reports</i> , 2022 , 48, 200-204	1.2	
1	High power vacuum ultraviolet source based on gasdynamic ECR plasma. <i>Journal of Applied Physics</i> , 2022 , 131, 093301	2.5	