Victor F Tarasenko

List of Publications by Year
in descending order

706	6,255	109321 35	168389 53
papers	citations	h-index	g-index

708	708	708	1332
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Applications of capacitive and barrier discharge excilamps in photoscience. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2006, 7, 145-163.	11.6	185
2	Diffuse discharge, runaway electron, and x-ray in atmospheric pressure air in an inhomogeneous electrical field in repetitive pulsed modes. Applied Physics Letters, 2011, 98, .	3.3	128
3	Generation of supershort avalanche electron beams and formation of diffuse discharges in different gases at high pressure. Plasma Devices and Operations, 2008, 16, 267-298.	0.6	123
4	Supershort electron beam from air filled diode at atmospheric pressure. Laser and Particle Beams, 2005, 23, 545-551.	1.0	104
5	Diffuse discharge produced by repetitive nanosecond pulses in open air, nitrogen, and helium. Journal of Applied Physics, 2013, 113, .	2.5	84
6	Runaway-electron-preionized diffuse discharge at atmospheric pressure and its application. Journal Physics D: Applied Physics, 2009, 42, 185201.	2.8	83
7	Runaway electrons in diffuse gas discharges. Plasma Sources Science and Technology, 2020, 29, 034001.	3.1	79
8	Subnanosecond breakdown in high-pressure gases. Plasma Sources Science and Technology, 2018, 27, 013001.	3.1	72
9	High-power subnanosecond beams of runaway electrons and volume discharge formation in gases at atmospheric pressure. Plasma Devices and Operations, 2005, 13, 231-279.	0.6	71
10	High-Power Subnanosecond Beams of Runaway Electrons Generated in Dense Gases. Physica Scripta, 2005, 72, 41-67.	2.5	61
11	Spark discharge formation in an inhomogeneous electric field under conditions of runaway electron generation. Journal of Applied Physics, 2012, 111, .	2.5	60
12	Parameters of a supershort avalanche electron beam generated in atmospheric-pressure air. Plasma Physics Reports, 2011, 37, 409-421.	0.9	59
13	Time behaviour of discharge current in case of nanosecond-pulse surface dielectric barrier discharge. Europhysics Letters, 2013, 101, 45002.	2.0	57
14	Capacitive and barrier discharge excilamps and their applications (Review). Instruments and Experimental Techniques, 2006, 49, 595-616.	0.5	56
15	Nanosecond discharge in air at atmospheric pressure as an x-ray source with high pulse repetition rates. Applied Physics Letters, 2006, 88, 081501.	3.3	55
16	Pulsed volume discharge in a nonuniform electric field at a high pressure and the short leading edge of a voltage pulse. Quantum Electronics, 2004, 34, 1007-1010.	1.0	54
17	Study of emission of a volume nanosecond discharge plasma in xenon, krypton and argon at high pressures. Quantum Electronics, 2006, 36, 576-580.	1.0	52
18	Experimental study on conduction current of positive nanosecond-pulse diffuse discharge at atmospheric pressure. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1304-1314.	2.9	52

#	ARTICLE	IF	CITATIONS
19	On formation of subnanosecond electron beams in air under atmospheric pressure. Laser and Particle Beams, 2004, 22, 75-82.	1.0	51
20	Spectrum of fast electrons in a subnanosecond breakdown of air-filled diodes at atmospheric pressure. Journal Physics D: Applied Physics, 2010, 43, 305201.	2.8	51
21	Application of dynamic displacement current for diagnostics of subnanosecond breakdowns in an inhomogeneous electric field. Review of Scientific Instruments, 2013, 84, 053506.	1.3	51
22	A critical review on ozone and co-species, generation and reaction mechanisms in plasma induced by dielectric barrier discharge technologies for wastewater remediation. Journal of Environmental Chemical Engineering, 2021, 9, 105758.	6.7	50
23	Forming of an Electron Beam and a Volume Discharge in Air at Atmospheric Pressure. Russian Physics Journal, 2003, 46, 325-327.	0.4	48
24	The role of fast electrons in diffuse discharge formation: Monte Carlo simulation. Plasma Sources Science and Technology, 2017, 26, 085008.	3.1	48
25	Runaway electron preionized diffuse discharges in atmospheric pressure air with a point-to-plane gap in repetitive pulsed mode. Journal of Applied Physics, 2011, 109, .	2.5	45
26	The amplitude and current pulse duration of a supershort avalanche electron beam in air at atmospheric pressure. Instruments and Experimental Techniques, 2012, 55, 72-77.	0.5	45
27	Removal of Pharmaceutical Residues from Water and Wastewater Using Dielectric Barrier Discharge Methodsâ€"A Review. International Journal of Environmental Research and Public Health, 2021, 18, 1683.	2.6	45
28	Supershort avalanche electron beam generation in gases. Laser and Particle Beams, 2008, 26, 605-617.	1.0	43
29	Excilamps and their applications. Progress in Quantum Electronics, 2012, 36, 51-97.	7.0	43
30	Soft X-ray generation and its role in breakdown of air gap at elevated pressures. Technical Physics Letters, 2011, 37, 1054-1057.	0.7	42
31	Note: Measurement of extreme-short current pulse duration of runaway electron beam in atmospheric pressure air. Review of Scientific Instruments, 2012, 83, 086106.	1.3	42
32	XeCl-, KrCl-, XeBr- and KrBr-excilamps of the barrier discharge with the nanosecond pulse duration of radiation. Journal Physics D: Applied Physics, 2006, 39, 3609-3614.	2.8	41
33	Runaway electrons and x-rays from a corona discharge in atmospheric pressure air. New Journal of Physics, 2011, 13, 113035.	2.9	41
34	Repetitive nanosecond-pulse discharge in a highly nonuniform electric field in atmospheric air: X-ray emission and runaway electron generation. Laser and Particle Beams, 2012, 30, 369-378.	1.0	41
35	Modes of Generation of Runaway Electron Beams in He, $ hbox{H}_{2}$, Ne, and $hbox{N}_{2}$ at a Pressure of 1â€"760 Torr. IEEE Transactions on Plasma Science, 2010, 38, 2583-2587.	1.3	39
36	Dynamics of ionization processes in high-pressure nitrogen, air, and SF6 during a subnanosecond breakdown initiated by runaway electrons. Plasma Physics Reports, 2015, 41, 832-846.	0.9	35

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37	Supershort Avalanche Electron Beams and X-rays in Atmospheric-Pressure Air. IEEE Transactions on Plasma Science, 2010, 38, 741-750.	1.3	34
38	Effect of cathode materials on the generation of runaway electron beams and X-rays in atmospheric pressure air. Laser and Particle Beams, 2013, 31, 353-364.	1.0	34
39	Reconstruction of electron beam energy spectra for vacuum and gas diodes. Laser and Particle Beams, 2015, 33, 183-192.	1.0	34
40	Radiative characteristics of nitrogen upon excitation by volume discharge initiated by runaway electron beam. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 107, 33-40.	0.6	33
41	SLEP-150m compact supershort avalanche electron beam accelerator. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1250-1255.	2.9	33
42	Electron beams formed in a diode filled with air or nitrogen at atmospheric pressure. Technical Physics Letters, 2003, 29, 411-413.	0.7	32
43	High-pressure runaway-electron-preionized diffuse discharges in a nonuniform electric field. Technical Physics, 2010, 55, 210-218.	0.7	32
44	Atmospheric-pressure CO2laser with an electron-beam-initiated discharge produced in a working mixture. Quantum Electronics, 2003, 33, 1059-1061.	1.0	31
45	An efficient cathode for generating an supershort avalanche electron beam in air at atmospheric pressure. Instruments and Experimental Techniques, 2010, 53, 545-548.	0.5	31
46	Formation of Wide Streamers during a Subnanosecond Discharge in Atmospheric-Pressure Air. Plasma Physics Reports, 2018, 44, 746-753.	0.9	31
47	Subnanosecond electron beams formed in a gas-filled diode. Technical Physics Letters, 2003, 29, 879-881.	0.7	30
48	XeI barrier discharge excilamp. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (S	0.6	30
49	High-power short-pulse xenon dimer spontaneous radiation source. Quantum Electronics, 2007, 37, 595-596.	1.0	29
50	Luminescence of crystals excited by a runaway electron beam and by excilamp radiation with a peak wavelength of 222â€‰nm. Journal of Applied Physics, 2017, 122, 154902.	2.5	29
51	Features of streamer formation in a sharply non-uniform electric field. Journal of Applied Physics, 2019, 125, .	2.5	29
52	Efficiency of a nitrogen UV laser pumped by a self-sustained discharge. Quantum Electronics, 2001, 31, 489-494.	1.0	28
53	Phenomenon of apokamp discharge. JETP Letters, 2016, 103, 761-764.	1.4	28
54	Formation of ball streamers at a subnanosecond breakdown of gases at a high pressure in a nonuniform electric field. JETP Letters, 2017, 106, 653-658.	1.4	28

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55	Generation and measurement of subnanosecond electron beams in gas-filled diodes. Instruments and Experimental Techniques, 2008, 51, 213-219.	0.5	27
56	KrCl barrier-discharge excilamps: Energy characteristics and applications (Review). Instruments and Experimental Techniques, 2015, 58, 309-318.	0.5	27
57	Theoretical simulation of the picosecond runaway-electron beam in coaxial diode filled with SF ₆ at atmospheric pressure. Europhysics Letters, 2016, 114, 45001.	2.0	27
58	Xe(He)-I 2 glow and capacitive discharge excilamps. , 2002, , .		26
59	X-ray radiation due to nanosecond volume discharges in air under atmospheric pressure. Technical Physics, 2006, 51, 356-361.	0.7	26
60	Modification of the near-surface layers of a copper foil under the action of a volume gas discharge in air at atmospheric pressure. Technical Physics Letters, 2008, 34, 296-299.	0.7	26
61	Breakdown features of a high-voltage nanosecond discharge initiated with runaway electrons at subnanosecond voltage pulse rise time. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1833-1840.	2.9	26
62	Titanium alloy surface modification by excimer laser irradiation. Optics and Laser Technology, 2013, 54, 419-427.	4.6	25
63	Production of powerful electron beams in dense gases. JETP Letters, 2003, 77, 611-615.	1.4	24
64	Effect of gas pressure on amplitude and duration of electron beam current in a gas-filled diode. Technical Physics, 2008, 53, 1560-1564.	0.7	24
65	Generation of runaway electron subnanosecond pulses in nitrogen and helium at a voltage of 25 kV across the gap. Technical Physics, 2008, 53, 93-98.	0.7	23
66	Formation of an Apokampic Discharge Under Atmospheric Pressure Conditions. Russian Physics Journal, 2016, 59, 707-711.	0.4	23
67	Dynamics of apokamp-type atmospheric pressure plasma jets. European Physical Journal D, 2017, 71, 1.	1.3	23
68	Long-Pulse-Discharge XeF and KrF Lasers Pumped by a Generator with Inductive Energy Storage. Japanese Journal of Applied Physics, 2002, 41, 3701-3703.	1.5	22
69	Methods for recording the time profile of single ultrashort pulses of electron beams and discharge currents in realâ€time mode. High Voltage, 2016, 1, 43-51.	4.7	22
70	Measurement of the Dynamic Displacement Current as a New Method of Study of the Dynamics of Formation of a Streamer at a Breakdown of Gases at a High Pressure. JETP Letters, 2018, 107, 606-611.	1.4	22
71	Displacement current during the formation of positive streamers in atmospheric pressure air with a highly inhomogeneous electric field. Physics of Plasmas, 2018, 25, .	1.9	22
72	Effective regimes of runaway electron beam generation in helium, hydrogen, and nitrogen. Technical Physics Letters, 2010, 36, 375-378.	0.7	21

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73	Pulsed cathodoluminescence of diamond, calcite, spodumene, and fluorite under the action of subnanosecond electron beam. Technical Physics Letters, 2010, 36, 1020-1023.	0.7	21
74	Spots on electrodes and images of a gap during pulsed discharges in an inhomogeneous electric field at elevated pressures of air, nitrogen and argon. Plasma Sources Science and Technology, 2014, 23, 054018.	3.1	21
75	Surface modifications of TiN coating by pulsed TEA CO2 and XeCl lasers. Applied Surface Science, 2005, 252, 474-482.	6.1	20
76	Capacitive discharge exciplex lamps. Journal Physics D: Applied Physics, 2005, 38, 3194-3201.	2.8	20
77	X-ray radiation from the volume discharge in atmospheric-pressure air. Technical Physics, 2007, 52, 856-864.	0.7	20
78	Nanosecond discharge in sulfur hexafluoride and the generation of an ultrashort avalanche electron beam. Laser Physics, 2008, 18, 732-737.	1.2	20
79	Generation of super-short avalanche electron beams in SF6. Laser and Particle Beams, 2014, 32, 331-341.	1.0	20
80	Radially convergent 30â€“100-Î¼s e-beam-pumped Xe and Ne lasers. Laser and Particle Beams, 1994, 12, 633-646.	1.0	19
81	UV and VUV excilamps excited by glow, barrier and capacitive discharges. Applied Physics A: Materials Science and Processing, 1999, 69, S327-S329.	2.3	19
82	Surface modifications of TiN coating by the pulsed TEA CO2 and KrCl laser. Applied Surface Science, 2004, 225, 362-371.	6.1	19
83	Luminescence of Crystals under the Action of a Subnanosecond Electron Beam. Technical Physics Letters, 2005, 31, 231.	0.7	19
84	On the mechanism of subnanosecond electron beam formation in gas-filled diodes. Laser Physics, 2006, 16, 526-533.	1.2	19
85	Ultrashort electron beams generated on the flat part of a voltage pulse in nitrogen and helium. Technical Physics Letters, 2007, 33, 373-376.	0.7	19
86	Dynamics of apokamp-type atmospheric pressure plasma jets initiated in air by a repetitive pulsed discharge. Physics of Plasmas, 2017, 24, .	1.9	19
87	Characteristic radiation of nitrogen under subnanosecond breakdown in a highly nonuniform electric field near the positive-polarity electrode. Plasma Physics Reports, 2017, 43, 792-795.	0.9	19
88	Excilamps as efficient UVÂVUV light sources. Pure and Applied Chemistry, 2002, 74, 465-469.	1.9	18
89	Electric-discharge high-peak-power CO₂laser. Quantum Electronics, 2010, 40, 192-194.	1.0	18
90	Temporal and spatial structure of a runaway electron beam in air at atmospheric pressure. Journal of Applied Physics, 2013, 113, 196101.	2.5	18

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91	Determination of the electron concentration and temperature, as well as the reduced electric field strength, in the plasma of a high-voltage nanosecond discharge initiated in atmospheric-pressure nitrogen by a runaway electron beam. Technical Physics, 2014, 59, 1119-1126.	0.7	18
92	Luminescence of Polymethyl Methacrylate Excited by a Runaway Electron Beam and by a KrCl Excilamp. IEEE Transactions on Plasma Science, 2017, 45, 76-84.	1.3	18
93	Electron beam formation in helium at elevated pressures. Technical Physics Letters, 2003, 29, 679-682.	0.7	17
94	Atmospheric pressure volume discharge without external preionization. Technical Physics Letters, 2005, 31, 457-460.	0.7	17
95	Luminescence of crystals excited by a KrCl laser and a subnanosecond electron beam. Quantum Electronics, 2005, 35, 745-748.	1.0	17
96	Energy distribution of runaway and fast electrons upon nanosecond volume discharge in atmospheric-pressure air. Laser Physics, 2006, 16, 1039-1049.	1.2	17
97	Pulsed discharge in nitrogen and argon under an elevated pressure in a nonuniform electric field. Technical Physics, 2007, 52, 1291-1297.	0.7	17
98	Soft X-ray radiation due to a nanosecond diffuse discharge in atmospheric-pressure air. Technical Physics, 2010, 55, 270-276.	0.7	17
99	Modification of surface layers of copper under the action of the volumetric discharge initiated by an avalanche electron beam in nitrogen and CO2 at atmospheric pressure. Russian Physics Journal, 2011, 53, 1290-1294.	0.4	17
100	Transition of a diffuse discharge to a spark at nanosecond breakdown of high-pressure nitrogen and air in a nonuniform electric field. Technical Physics, 2013, 58, 1115-1121.	0.7	17
101	Abnormal polarity effect in nanosecond-pulse breakdown of SF6 and nitrogen. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1828-1833.	2.1	17
102	Improvement of output parameters of glow discharge UV excilamps. Optics Communications, 1999, 161, 249-252.	2.1	16
103	High-current-density subnanosecond electron beams formed in a gas-filled diode at low pressures. Technical Physics Letters, 2006, 32, 948-950.	0.7	16
104	Study of a volume discharge in inert-gas halides without preionisation. Quantum Electronics, 2008, 38, 401-403.	1.0	16
105	Point-like pulse-periodic UV radiation source with a short pulse duration. Quantum Electronics, 2012, 42, 153-156.	1.0	16
106	Runaway electrons during subnanosecond breakdowns in highâ€pressure gases. High Voltage, 2016, 1, 181-191.	4.7	16
107	On the physical nature of apokampic discharge. Journal of Experimental and Theoretical Physics, 2017, 125, 920-925.	0.9	16
108	Computational and Experimental Study of Time-Averaged Characteristics of Positive and Negative DC Corona Discharges in Point-Plane Gaps in Atmospheric Air. IEEE Transactions on Plasma Science, 2020, 48, 4080-4088.	1.3	16

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109	Enhancement of hydrogen radical density in atmospheric pressure plasma jet by a burst of nanosecond pulses at 1 MHz. Plasma Sources Science and Technology, 2022, 31, 025019.	3.1	16
110	Excilamp producing up to 130 W of output power and possibility of its applications. Laser and Particle Beams, 1997, 15, 339-345.	1.0	15
111	A 2-kJ wide-aperture XeCl laser. Quantum Electronics, 2004, 34, 801-804.	1.0	15
112	Barrier-discharge excilamp on a mixture of krypton and molecular bromine and chlorine. Laser Physics, 2007, 17, 1119-1123.	1.2	15
113	Energy distribution of runaway electrons generated by a nanosecond discharge in atmospheric-pressure air. Plasma Physics Reports, 2008, 34, 1028-1036.	0.9	15
114	Laser on nitrogen-electronegative gas mixtures, pumped by inductive energy storage generator: Experiment and theoretical model. Physics of Wave Phenomena, 2009, 17, 251-276.	1.1	15
115	Generation of subnanosecond electron beams in air at atmospheric pressure. Technical Physics Letters, 2009, 35, 1012-1015.	0.7	15
116	Miniature UV lamp excited by subnanosecond voltage pulses. Quantum Electronics, 2010, 40, 561-564.	1.0	15
117	Corona discharge in atmospheric pressure air under a modulated voltage pulse of 10 ms. Atmospheric and Oceanic Optics, 2013, 26, 449-453.	1.3	15
118	Excilamps and their Applications. Chemical Engineering and Technology, 2016, 39, 39-50.	1.5	15
119	Source of an atmospheric-pressure plasma jet formed in air or nitrogen under barrier discharge excitation. Technical Physics, 2016, 61, 789-792.	0.7	15
120	Characteristics of a Pulse-Periodic Corona Discharge in Atmospheric Air. Plasma Physics Reports, 2018, 44, 520-532.	0.9	15
121	Generation of runaway electrons in plasma after a breakdown of a gap with a sharply non-uniform electric field strength distribution. Journal Physics D: Applied Physics, 2021, 54, 304001.	2.8	15
122	Electron beam-excited Xe excilamp's optimal characteristics. Laser and Particle Beams, 2000, 18, 655-660.	1.0	14
123	Formation of coniform microdischarges in KrCl and XeCl excimer lamps. Technical Physics, 2004, 49, 790-794.	0.7	14
124	Optical characteristics of the plasma of a nanosecond atmospheric-pressure volume discharge in a nonuniform electric field. Technical Physics, 2004, 49, 987-992.	0.7	14
125	Spectra of electrons and X-ray photons in a diffusive nanosecond discharge in air under atmospheric pressure. Technical Physics, 2009, 54, 47-55.	0.7	14
126	Compact dielectric barrier discharge excilamps. Physica Scripta, 2010, 82, 045403.	2.5	14

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127	The temporal structure of a runaway electron beam generated in air at atmospheric pressure. Technical Physics Letters, 2012, 38, 657-660.	0.7	14
128	X-ray emission from a nanosecond-pulse discharge in an inhomogeneous electric field at atmospheric pressure. Physics of Plasmas, 2012, 19, 123516.	1.9	14
129	Energy of electrons generated during a subnanosecond breakdown in atmospheric-pressure air. Plasma Physics Reports, 2013, 39, 592-599.	0.9	14
130	Generation of runaway electrons in a nonuniform electric field by applying nanosecond voltage pulses with a frequency of 100â€“1000 Hz. Technical Physics, 2013, 58, 200-206.	0.7	14
131	On the dynamics of a subnanosecond breakdown in nitrogen below atmospheric pressures. Journal of Applied Physics, 2015, 118, .	2.5	14
132	Inverted Polarity Effect at the Subnanosecond High-Voltage Breakdown of Air. IEEE Transactions on Plasma Science, 2015, 43, 3808-3814.	1.3	14
133	Apokamps produced by repetitive discharges in air. Physics of Plasmas, 2018, 25, 083513.	1.9	14
134	Supershort avalanche electron beam in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SF</mml:mi></mml:mrow><mml:mn>6</mml:mn></mml:msub></mr krypton. Physical Review Accelerators and Beams, 2016, 19, .	1.6	14
135	Efficient long-pulse XeCl laser with a prepulse formed by an inductive energy storage device. Quantum Electronics, 2000, 30, 506-508.	1.0	13
136	An effective high-power KrCl excimer barrier-discharge lamp. Technical Physics Letters, 2002, 28, 33-35.	0.7	13
137	Efficient oscillation regimes of an HF laser pumped by a nonchain chemical reaction initiated by a self-sustained discharge. Quantum Electronics, 2003, 33, 401-407.	1.0	13
138	Spectral characteristics of nonchain HF and DF electric-discharge lasers in efficient excitation modes. Quantum Electronics, 2004, 34, 320-324.	1.0	13
139	Generation of X-ray Radiation with a High Pulse Repetition Rate by Means of a Volume Discharge in an Open Gas Diode. Technical Physics, 2005, 50, 1462.	0.7	13
140	An ultraviolet barrier-discharge OH molecular lamp. Quantum Electronics, 2006, 36, 981-983.	1.0	13
141	Energy and Spectral Characteristics of Radiation during Filtration Combustion of Natural Gas. Combustion, Explosion and Shock Waves, 2010, 46, 523-527.	0.8	13
142	The radiative and thermodynamic processes in DBD driven XeBr and KrBr exciplex lamps. European Physical Journal D, 2011, 62, 405-411.	1.3	13
143	Carbon dioxide laser with an e-beam-initiated discharge produced in the working gas mixture at a pressure up to 5 atm. Quantum Electronics, 2011, 41, 1033-1036.	1.0	13
144	Two-component structure of the current pulse of a ranaway electron beam generated during electric breakdown of elevated-pressure nitrogen. Plasma Physics Reports, 2012, 38, 922-929.	0.9	13

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145	Lasing in the UV, IR and visible spectral ranges in a runaway-electron-preionised diffuse dischrage. Quantum Electronics, 2013, 43, 605-609.	1.0	13
146	Dynamics of the spatial structure of pulsed discharges in dense gases in point cathodeâ"plane anode gaps and their erosion effect on the plane electrode surface. Plasma Physics Reports, 2016, 42, 876-886.	0.9	13
147	Emission properties of apokamp discharge at atmospheric pressure in air, argon, and helium. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 122, 168-174.	0.6	13
148	Ionization Waves During the Subnanosecond Breakdown Initiated by Runaway Electrons in High-Pressure Nitrogen and Air. Russian Physics Journal, 2017, 60, 1308-1313.	0.4	13
149	Simulation of NPL in experiments with e-beam pumping. Laser and Particle Beams, 1998, 16, 327-380.	1.0	12
150	Glow discharge in low-pressure excilamps. Russian Physics Journal, 1999, 42, 557-573.	0.4	12
151	Discharge lasers pumped by generators with inductive energy storage. IEEE Journal of Quantum Electronics, 1999, 35, 261-266.	1.9	12
152	Measuring the Parameters of an Electron Beam. Instruments and Experimental Techniques, 2003, 46, 505-507.	0.5	12
153	Electron Beam Formation in a Gas Diode at High Pressures. Technical Physics, 2005, 50, 1623.	0.7	12
154	Planar excilamp on rare gas chlorides pumped by a transverse self-sustained discharge. Quantum Electronics, 2006, 36, 169-173.	1.0	12
155	Wide-aperture electric-discharge nitrogen laser. Quantum Electronics, 2007, 37, 623-627.	1.0	12
156	A collector assembly for measuring a subnanosecond-duration electron beam current. Instruments and Experimental Techniques, 2007, 50, 811-814.	0.5	12
157	Generation regimes for the runaway-electron beam in gas. Laser Physics, 2007, 17, 1124-1128.	1.2	12
158	On the initiation of a spark discharge upon the breakdown of nitrogen and air in a nonuniform electric field. Technical Physics, 2010, 55, 904-907.	0.7	12
159	Effect of nitrogen pressure on the energy of runaway electrons generated in a gas diode. Technical Physics Letters, 2010, 36, 1158-1161.	0.7	12
160	Diffuse Discharges in Atmospheric Pressure Air in Repetitive Pulsed Mode With Point-to-Plane and Point-to-Point Gaps. IEEE Transactions on Plasma Science, 2011, 39, 2096-2097.	1.3	12
161	Generation of Runaway Electrons and X-rays in Repetitive Nanosecond Pulse Corona Discharge in Atmospheric Pressure Air. Applied Physics Express, 2011, 4, 066001.	2.4	12
162	On the parameters of runaway electron beams and on electrons with an â€œanomalousâ€•energy at a subnanosecond breakdown of gases at atmospheric pressure. JETP Letters, 2015, 102, 350-354.	1.4	12

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163	Blue and green jets in laboratory discharges initiated by runaway electrons. Journal of Physics: Conference Series, 2015, 652, 012012.	0.4	12
164	Repetitively pulsed UV radiation source based on a run-away electron preionised diffuse discharge in nitrogen. Quantum Electronics, 2015, 45, 366-370.	1.0	12
165	Temporal response of silicon EUV and soft X-ray detectors. Instruments and Experimental Techniques, 2015, 58, 102-106.	0.5	12
166	Generation of runaway electrons and X-ray emission during breakdown of atmospheric-pressure air by voltage pulses with an âˆ¼0.5-Î¼s front duration. Plasma Physics Reports, 2015, 41, 269-273.	0.9	12
167	Generation of runaway electrons and X rays in an inhomogeneous electric field at high gas pressures. Laser and Particle Beams, 2016, 34, 748-763.	1.0	12
168	Ministarters and mini blue jets in air and nitrogen at a pulse-periodic discharge in a laboratory experiment. JETP Letters, 2017, 105, 641-645.	1.4	12
169	Diffuse discharges in SF ₆ and mixtures of SF ₆ with H ₂ , formed by nanosecond voltage pulses in nonâ€uniform electric field. High Voltage, 2018, 3, 316-322.	4.7	12
170	X-ray radiation and runaway electron beams generated during discharges in atmospheric-pressure air at rise times of voltage pulse of 500 and 50 ns. Laser and Particle Beams, 2018, 36, 186-194.	1.0	12
171	Emission of diamonds, leucosapphire, and KU-1 quartz in the range of 200â€“800â€‰nm excited by electron beams with a pulse duration of 0.5 and 12â€‰ns. Journal of Applied Physics, 2019, 125, .	2.5	12
172	Role of Streamers in the Formation of a Corona Discharge in a Highly Nonuniform Electric Field. JETP Letters, 2019, 110, 85-89.	1.4	12
173	RF plasma heating in the Uragan stellarator. I. Wave launching and plasma heating. Plasma Physics, 1976, 18, 577-585.	0.9	11
174	Maximum performance of discharge-pumped exciplex laser at Î»=222 nm. IEEE Journal of Quantum Electronics, 1995, 31, 1231-1236.	1.9	11
175	<title>New bactericidal UV light sources: excilamps</title>. , 2004, , .		11
176	Formation of a volume discharge in air at atmospheric pressure upon application of nanosecond high-voltage pulses. Russian Physics Journal, 2004, 47, 1314-1316.	0.4	11
177	Spectral and kinetic characteristics of the pulsed cathodoluminescence of a natural IIa-type diamond. Russian Physics Journal, 2007, 50, 52-57.	0.4	11
178	Photoluminescence and optical transmission of diamond and its imitators. Journal of Luminescence, 2010, 130, 2106-2112.	3.1	11
179	X-ray and runaway electron generation in repetitive pulsed discharges in atmospheric pressure air with a point-to-plane gap. Physics of Plasmas, 2011, 18, 053502.	1.9	11
180	Pulse-periodic generation of supershort avalanche electron beams and X-ray emission. Plasma Physics Reports, 2014, 40, 404-411.	0.9	11

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