

Yakov E Krasik

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8276676/yakov-e-krasik-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

185
papers

3,090
citations

29
h-index

45
g-index

238
ext. papers

3,425
ext. citations

2.3
avg, IF

5.17
L-index

#	Paper	IF	Citations
185	Electron emission from ferroelectrics. <i>Journal of Applied Physics</i> , 2000 , 88, 6109-6161	2.5	257
184	Emission properties of different cathodes at $E \approx 10^5$ V/cm. <i>Journal of Applied Physics</i> , 2001 , 89, 2379-2399	2.5	142
183	Underwater Electrical Wire Explosion and Its Applications. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 423-434	1.3	100
182	Nanosecond time scale, high power electrical wire explosion in water. <i>Physics of Plasmas</i> , 2006 , 13, 042701	2.1	79
181	Underwater electrical explosion of a Cu wire. <i>Journal of Applied Physics</i> , 2005 , 97, 023303	2.5	69
180	Electron/ion emission from the plasma formed on the surface of ferroelectrics. I. Studies of plasma parameters without applying an extracting voltage. <i>Journal of Applied Physics</i> , 1999 , 85, 8464-8473	2.5	67
179	Polarization switching in ferroelectric cathodes. <i>Journal of Applied Physics</i> , 1997 , 82, 772-778	2.5	58
178	Efficiency of the shock wave generation caused by underwater electrical wire explosion. <i>Journal of Applied Physics</i> , 2006 , 100, 113509	2.5	55
177	Strongly coupled copper plasma generated by underwater electrical wire explosion. <i>Physical Review E</i> , 2005 , 72, 066401	2.4	54
176	Numerical simulations of runaway electron generation in pressurized gases. <i>Journal of Applied Physics</i> , 2012 , 111, 013303	2.5	52
175	Space- and time-resolved characterization of nanosecond time scale discharge at pressurized gas. <i>Journal of Applied Physics</i> , 2011 , 109, 073312	2.5	52
174	Formation of discharge plasma on the surface of cathodes with different dielectric constants. <i>Journal of Applied Physics</i> , 1999 , 85, 7946-7951	2.5	51
173	Addressing the efficiency of the energy transfer to the water flow by underwater electrical wire explosion. <i>Journal of Applied Physics</i> , 2009 , 106, 073308	2.5	50
172	Cold Atmospheric Plasma, Created at the Tip of an Elongated Flexible Capillary Using Low Electric Current, Can Slow the Progression of Melanoma. <i>PLoS ONE</i> , 2017 , 12, e0169457	3.7	47
171	Plasma sources for high-current electron beam generation. <i>Physics of Plasmas</i> , 2001 , 8, 2466-2472	2.1	42
170	Underwater Electrical Explosion of Wires and Wire Arrays and Generation of Converging Shock Waves. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 412-431	1.3	40
169	Generation of converging strong shock wave formed by microsecond timescale underwater electrical explosion of spherical wire array. <i>Applied Physics Letters</i> , 2013 , 102, 124104	3.4	39

168	Generation of a 400 GPa pressure in water using converging strong shock waves. <i>Physics of Plasmas</i> , 2011 , 18, 062701	2.1	38
167	Investigation of electrical conductivity and equations of state of non-ideal plasma through underwater electrical wire explosion. <i>Physics of Plasmas</i> , 2010 , 17, 112702	2.1	38
166	Underwater electrical wire explosion. <i>Plasma Sources Science and Technology</i> , 2010 , 19, 034020	3.5	37
165	Electron/ion emission from the plasma formed on the surface of ferroelectrics. II. Studies of electron diode operation with a ferroelectric plasma cathode. <i>Journal of Applied Physics</i> , 1999 , 85, 8474-8484	2.5	37
164	Analysis of shock wave measurements in water by a piezoelectric pressure probe. <i>Review of Scientific Instruments</i> , 2004 , 75, 240-244	1.7	34
163	Experimental research of different plasma cathodes for generation of high-current electron beams. <i>Journal of Applied Physics</i> , 2015 , 118, 193302	2.5	33
162	Water bath effect during the electrical underwater wire explosion. <i>Physics of Plasmas</i> , 2007 , 14, 102703	2.1	32
161	Characterization of converging shock waves generated by underwater electrical wire array explosion. <i>Physics of Plasmas</i> , 2008 , 15, 112703	2.1	31
160	Comparison of different methods of measurement of pressure of underwater shock waves generated by electrical discharge. <i>Shock Waves</i> , 2006 , 15, 73-80	1.6	31
159	Spectroscopic research of underwater electrical wire explosion. <i>Physics of Plasmas</i> , 2008 , 15, 082704	2.1	29
158	Addressing the problem of plasma shell formation around an exploding wire in water. <i>Physics of Plasmas</i> , 2006 , 13, 052703	2.1	29
157	Simplified model of underwater electrical discharge. <i>Physical Review E</i> , 2004 , 69, 036402	2.4	29
156	Generation of cylindrically symmetric converging shock waves by underwater electrical explosion of wire array. <i>Applied Physics Letters</i> , 2007 , 90, 201502	3.4	28
155	Generation of sub-Mbar pressure by converging shock waves produced by the underwater electrical explosion of a wire array. <i>Physical Review E</i> , 2006 , 73, 057301	2.4	28
154	Two-dimensional model of orificed micro-hollow cathode discharge for space application. <i>Physics of Plasmas</i> , 2013 , 20, 083512	2.1	27
153	Evaluation of electrical conductivity and equations of state of non-ideal plasma through microsecond timescale underwater electrical wire explosion. <i>Physics of Plasmas</i> , 2011 , 18, 092704	2.1	27
152	Implosion in water medium and its possible application for the inertial confinement fusion target ignition. <i>Physics of Plasmas</i> , 2007 , 14, 012701	2.1	27
151	Efficient and Selectable Production of Reactive Species Using a Nanosecond Pulsed Discharge in Gas Bubbles in Liquid. <i>Plasma Processes and Polymers</i> , 2016 , 13, 306-310	3.4	26

150	Generation of extreme state of water by spherical wire array underwater electrical explosion. <i>Physics of Plasmas</i> , 2012 , 19, 102702	2.1	25
149	Generation of highly symmetric, cylindrically convergent shockwaves in water. <i>Physics of Plasmas</i> , 2017 , 24, 082702	2.1	21
148	Stability of imploding shocks generated by underwater electrical explosion of cylindrical wire array. <i>Physics of Plasmas</i> , 2013 , 20, 112701	2.1	21
147	Characterization of Different Wire Configurations in Underwater Electrical Explosion. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 88-98	1.3	21
146	Effect of explosive emission on runaway electron generation. <i>Journal of Applied Physics</i> , 2012 , 111, 013304	2.4	21
145	Plasma dynamics during relativistic S-band magnetron operation. <i>Journal of Applied Physics</i> , 2008 , 104, 064125	2.5	21
144	Particle-in-cell modeling of the nanosecond field emission driven discharge in pressurized hydrogen. <i>Journal of Applied Physics</i> , 2018 , 123, 083303	2.5	20
143	Plasma Emission Sources for High-Current Electron Beam Generation. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 768-777	1.3	20
142	Electron beam generation in a diode with a gaseous plasma electron source I: Plasma source based on a hollow anode ignited by a multi-arc system. <i>Journal of Applied Physics</i> , 2003 , 94, 44-54	2.5	20
141	Electron energy and potential distribution in a diode with a ferroelectric cathode. <i>Journal of Applied Physics</i> , 2000 , 87, 3270-3278	2.5	20
140	Plasma density evolution during nanosecond discharge in hydrogen gas at (1B) 0.05Pa pressure. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 215202	3	19
139	Simulation of converging cylindrical GPa-range shock waves generated by wire array underwater electrical explosions. <i>Shock Waves</i> , 2011 , 21, 321-329	1.6	19
138	Comparison of electrical explosions of Cu and Al wires in water and glycerol. <i>Physics of Plasmas</i> , 2017 , 24, 053512	2.1	18
137	Electric field in a plasma channel in a high-pressure nanosecond discharge in hydrogen: a coherent anti-stokes Raman scattering study. <i>Physical Review Letters</i> , 2013 , 111, 255001	7.4	18
136	Investigation of a hollow anode with an incorporated ferroelectric plasma source for generation of high-current electron beams. <i>Journal of Applied Physics</i> , 2003 , 94, 6319-6327	2.5	18
135	Vacuum surface flashover: experiments and simulations. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014 , 21, 2394-2404	2.3	17
134	High-current carbon-epoxy capillary cathode. <i>Journal of Applied Physics</i> , 2012 , 112, 023303	2.5	17
133	Time evolution of nanosecond runaway discharges in air and helium at atmospheric pressure. <i>Physics of Plasmas</i> , 2012 , 19, 123507	2.1	17

132	Modified wire array underwater electrical explosion. <i>Laser and Particle Beams</i> , 2012 , 30, 215-224	0.9	17
131	Multi frame synchrotron radiography of pulsed power driven underwater single wire explosions. <i>Journal of Applied Physics</i> , 2018 , 124, 153301	2.5	17
130	Phase transitions of copper, aluminum, and tungsten wires during underwater electrical explosions. <i>Physics of Plasmas</i> , 2018 , 25, 102709	2.1	17
129	Extreme water state produced by underwater wire-array electrical explosion. <i>Applied Physics Letters</i> , 2010 , 96, 221502	3.4	16
128	Commissioning of the PRIOR proton microscope. <i>Review of Scientific Instruments</i> , 2016 , 87, 023303	1.7	16
127	High power microwave source for a plasma wakefield experiment. <i>Journal of Applied Physics</i> , 2017 , 121, 033301	2.5	15
126	Uniformity of cylindrical imploding underwater shockwaves at very small radii. <i>Applied Physics Letters</i> , 2017 , 111, 214103	3.4	15
125	Drastic improvement in the S-band relativistic magnetron operation. <i>Applied Physics Letters</i> , 2009 , 95, 074101	3.4	15
124	Particularities of shocks generated by underwater electrical explosions of a single wire and wire arrays. <i>Applied Physics Letters</i> , 2019 , 115, 074101	3.4	14
123	Spectroscopic study of plasma evolution in runaway nanosecond atmospheric-pressure He discharges. <i>Physical Review E</i> , 2013 , 88, 013107	2.4	14
122	Evaluation of electrical conductivity of Cu and Al through sub microsecond underwater electrical wire explosion. <i>Physics of Plasmas</i> , 2012 , 19, 034501	2.1	14
121	Evolution of a shock wave generated by underwater electrical explosion of a single wire. <i>Physics of Plasmas</i> , 2019 , 26, 042302	2.1	13
120	Diagnostics of a converging strong shock wave generated by underwater explosion of spherical wire array. <i>Journal of Applied Physics</i> , 2014 , 115, 223303	2.5	13
119	Spherical wire arrays electrical explosion in water and glycerol. <i>Physics of Plasmas</i> , 2017 , 24, 122705	2.1	13
118	Peculiarity of convergence of shock wave generated by underwater electrical explosion of ring-shaped wire. <i>Physics of Plasmas</i> , 2013 , 20, 052702	2.1	13
117	Time-resolved spectroscopy of light emission from plasma generated by a converging strong shock wave in water. <i>Applied Physics Letters</i> , 2016 , 109, 244101	3.4	13
116	Generation of underwater discharges inside gas bubbles using a 30-needles-to-plate electrode. <i>Journal of Applied Physics</i> , 2017 , 122, 153303	2.5	12
115	X-ray diagnostics of runaway electrons generated during nanosecond discharge in gas at elevated pressures. <i>Applied Physics Letters</i> , 2012 , 100, 024101	3.4	12

114	High-current large-area uniform electron beam generation by a grid-controlled hollow anode with multiple-ferroelectric-plasma-source ignition. <i>Plasma Devices and Operations</i> , 2006 , 14, 223-235		12
113	SSS -Band Relativistic Magnetron Operation With Multichannel Radial Outputs of the Microwave Power. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 229-234	1.3	11
112	A Relativistic Magnetron Operated With Permanent Magnets. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 3997-4005	1.3	11
111	High-current long-duration uniform electron beam generation in a diode with multicapillary carbon-epoxy cathode. <i>Journal of Applied Physics</i> , 2013 , 114, 123303	2.5	11
110	Particle-in-cell simulations of the runaway breakdown of nitrogen. <i>Journal of Applied Physics</i> , 2012 , 112, 113302	2.5	11
109	Electron beam and plasma modes of a channel spark discharge operation. <i>Journal of Applied Physics</i> , 2009 , 106, 073301	2.5	11
108	S-band relativistic magnetron operation with an active plasma cathode. <i>Journal of Applied Physics</i> , 2009 , 105, 083307	2.5	11
107	Potential distribution in an ion sheath of non-Maxwellian plasma. <i>Physics of Plasmas</i> , 2006 , 13, 073506	2.1	11
106	Addressing optimal underwater electrical explosion of a wire. <i>Physics of Plasmas</i> , 2016 , 23, 092708	2.1	11
105	Generation of high-current pulses by a magnetized squeezed electron beam. <i>Physics of Plasmas</i> , 2019 , 26, 093107	2.1	11
104	X-ray radiography of the overheating instability in underwater electrical explosions of wires. <i>Physics of Plasmas</i> , 2019 , 26, 050703	2.1	10
103	Synchrotron based X-ray radiography of convergent shock waves driven by underwater electrical explosion of a cylindrical wire array. <i>Journal of Applied Physics</i> , 2019 , 125, 093301	2.5	10
102	Evaluating the Performance of a Carbon-Epoxy Capillary Cathode and Carbon Fiber Cathode in a Sealed-Tube Viricator Under UHV Conditions. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 2670-2675	1.3	10
101	Conductivity of nanosecond discharges in nitrogen and sulfur hexafluoride studied by particle-in-cell simulations. <i>Journal of Applied Physics</i> , 2012 , 111, 123303	2.5	10
100	Electron emission mechanism during the nanosecond high-voltage pulsed discharge in pressurized air. <i>Applied Physics Letters</i> , 2012 , 100, 084105	3.4	10
99	High-current electron beam generation in a diode with a multicapillary dielectric cathode. <i>Journal of Applied Physics</i> , 2008 , 103, 043302	2.5	10
98	Microparticle flow generation by a ferroelectric plasma source. <i>Plasma Devices and Operations</i> , 2006 , 14, 293-302		10
97	Grid-controlled electron emission from a hollow-anode electron source. <i>Journal of Applied Physics</i> , 2004 , 95, 3304-3310	2.5	10

96	Application of a ferroelectric plasma cathode as a high-current switch. <i>European Physical Journal D</i> , 2002 , 19, 89-95	1.3	10
95	High-frequency electron beam modulation in a diode with an active plasma cathode. <i>Applied Physics Letters</i> , 1998 , 73, 453-455	3.4	10
94	Producing a magnetized low energy, high electron charge density state using a split cathode. <i>Physics of Plasmas</i> , 2020 , 27, 103102	2.1	10
93	Use of synchrotron-based radiography to diagnose pulsed power driven wire explosion experiments. <i>Review of Scientific Instruments</i> , 2019 , 90, 013504	1.7	10
92	Efficient target acceleration using underwater electrical explosion of wire array. <i>Journal of Applied Physics</i> , 2021 , 129, 034901	2.5	10
91	Ionization-Induced Self-Channeling of an Ultrahigh-Power Subnanosecond Microwave Beam in a Neutral Gas. <i>Physical Review Letters</i> , 2018 , 120, 135003	7.4	9
90	The physical phenomena accompanying the sub-nanosecond high-voltage pulsed discharge in nitrogen. <i>Journal of Applied Physics</i> , 2012 , 112, 073304	2.5	9
89	Self-pulsing 104 A cm ² current density discharges in dielectric barrier Al/Al ₂ O ₃ microplasma devices. <i>Applied Physics Letters</i> , 2009 , 94, 011501	3.4	9
88	Numerical simulation of anomalous electrons generation in a vacuum diode. <i>Journal of Applied Physics</i> , 2011 , 110, 043302	2.5	9
87	Diagnostics of underwater electrical wire explosion through a time- and space-resolved hard x-ray source. <i>Review of Scientific Instruments</i> , 2012 , 83, 103505	1.7	9
86	Electron beam generation in a diode with a gaseous plasma electron source II: Plasma source based on a hollow anode ignited by a hollow-cathode source. <i>Journal of Applied Physics</i> , 2003 , 94, 55-61	2.5	9
85	Low-pressure, high-current hollow cathode with a ferroelectric plasma source. <i>Applied Physics Letters</i> , 2002 , 81, 4341-4343	3.4	9
84	Microsecond timescale combustion of aluminum initiated by an underwater electrical wire explosion. <i>Physics of Plasmas</i> , 2019 , 26, 053510	2.1	8
83	Plasma density temporal evolution in a high-power microwave pulse compressor switch. <i>Europhysics Letters</i> , 2015 , 109, 25001	1.6	8
82	Revisiting Power Flow and Pulse Shortening in a Relativistic Magnetron. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 3168-3175	1.3	8
81	Aluminum micro-particles combustion ignited by underwater electrical wire explosion. <i>Shock Waves</i> , 2012 , 22, 207-214	1.6	8
80	Comparison of electrical explosions of spherical wire arrays in water and glycerol on different timescales. <i>Physics of Plasmas</i> , 2018 , 25, 062709	2.1	8
79	Spectroscopy of a plasma formed in the vicinity of implosion of the shock wave generated by underwater electrical explosion of spherical wire array. <i>Physics of Plasmas</i> , 2015 , 22, 053507	2.1	7

78	Generation of fast cumulative water jets by underwater electrical explosion of conical wire arrays. <i>Journal of Applied Physics</i> , 2015 , 117, 015901	2.5	7
77	High-Current Carbon-Epoxy Capillary Cathode. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 1224-1236	1.3	7
76	Self-consistent evolution of plasma discharge and electromagnetic fields in a microwave pulse compressor. <i>Physics of Plasmas</i> , 2015 , 22, 073111	2.1	7
75	Influence of Xe ²⁺ ions on the micro-hollow cathode discharge driven by thermionic emission. <i>Physics of Plasmas</i> , 2014 , 21, 043503	2.1	7
74	High-current electron beam generation by a pulsed hollow cathode. <i>Journal of Applied Physics</i> , 2002 , 91, 3431-3443	2.5	7
73	High-frequency modulation of an electron beam produced by a plasma cathode. <i>Journal of Applied Physics</i> , 1999 , 86, 4107-4117	2.5	7
72	Characterization of inductively coupled plasma generated by a quadruple antenna. <i>Plasma Sources Science and Technology</i> , 2017 , 26, 025005	3.5	6
71	The interaction of intense, ultra-short microwave beams with the plasma generated by gas ionization. <i>Physics of Plasmas</i> , 2018 , 25, 032308	2.1	6
70	Bohm velocity in the presence of a hot cathode. <i>Physics of Plasmas</i> , 2013 , 20, 083510	2.1	6
69	Stabilization of the Frequency of Relativistic S-Band Magnetron With Radial Output. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 3001-3004	1.3	6
68	Wakefield in a waveguide. <i>Physics of Plasmas</i> , 2017 , 24, 063112	2.1	6
67	Shockwave generation by a semiconductor bridge operation in water. <i>Journal of Applied Physics</i> , 2014 , 115, 203301	2.5	6
66	Numerical simulation of the plasma generated by the interaction high-current electron beam with Al target. <i>Journal of Applied Physics</i> , 2013 , 113, 123302	2.5	6
65	Plasma formation in a double-gap vircator. <i>Journal of Applied Physics</i> , 2010 , 108, 103302	2.5	6
64	Plasma parameters of an active cathode during relativistic magnetron operation. <i>Journal of Applied Physics</i> , 2009 , 106, 063306	2.5	6
63	Micron-scale width multislotted plasma cathode. <i>Physics of Plasmas</i> , 2008 , 15, 123507	2.1	6
62	Pressure and electron energy measurements in a channel spark discharge. <i>Plasma Devices and Operations</i> , 2007 , 15, 107-114		6
61	Comment on Mixed electron emission from lead zirconate-titanate ceramics [J. Appl. Phys. 83, 6055 (1998)]. <i>Journal of Applied Physics</i> , 1999 , 85, 8495-8496	2.5	6

60	Shockwave generation by electrical explosion of cylindrical wire arrays in hydrogen peroxide/water solutions. <i>Applied Physics Letters</i> , 2020 , 116, 243702	3.4	6
59	Experimental and numerical study of a split cathode fed relativistic magnetron. <i>Journal of Applied Physics</i> , 2021 , 130, 034501	2.5	6
58	Self-oscillations in an over-injected electron diode [Experiment and analysis. <i>Physics of Plasmas</i> , 2019 , 26, 033113	2.1	5
57	Initiation of vacuum insulator surface high-voltage flashover with electrons produced by laser illumination. <i>Physics of Plasmas</i> , 2015 , 22, 083109	2.1	5
56	Pulse-Shortening in a Relativistic Magnetron: The Role of Anode Block Axial Endcaps. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 1375-1385	1.3	5
55	Radial density distribution of a warm dense plasma formed by underwater electrical explosion of a copper wire. <i>Physics of Plasmas</i> , 2017 , 24, 122703	2.1	5
54	Operation of a Six-Cavity S-S-Band Relativistic Magnetron at Frequencies in the Range of Its Resonant Response. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 3827-3832	1.3	5
53	Generation of cumulative jets during underwater explosion of copper wires in the X-pinch configuration. <i>Journal of Applied Physics</i> , 2013 , 114, 203301	2.5	5
52	Addressing the plasma formation on the surface of a ferroelectric sample. <i>Journal of Applied Physics</i> , 2009 , 106, 053301	2.5	5
51	Passive and Active Plasma Emission Sources for High-current Electron Beam Generation. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2007 , 127, 697-703	0.2	5
50	An advanced relativistic magnetron operating with a split cathode and separated anode segments. <i>Journal of Applied Physics</i> , 2022 , 131, 023301	2.5	5
49	Periodic bunches produced by electron beam squeezed states in a resonant cavity. <i>Physics of Plasmas</i> , 2020 , 27, 083103	2.1	5
48	Addressing the symmetry of a converging cylindrical shock wave in water close to implosion. <i>Applied Physics Letters</i> , 2021 , 118, 174103	3.4	5
47	Quasi-isentropic compression using compressed water flow generated by underwater electrical explosion of a wire array. <i>Journal of Applied Physics</i> , 2018 , 123, 185902	2.5	5
46	Electrical model of cold atmospheric plasma gun. <i>Physics of Plasmas</i> , 2017 , 24, 103510	2.1	4
45	Wakefield excitation by a powerful sub-nanosecond 28.6 GHz microwave pulse propagating in a plasma filled waveguide. <i>Physics of Plasmas</i> , 2019 , 26, 023102	2.1	4
44	Converging shock wave focusing and interaction with a target. <i>Physics of Plasmas</i> , 2016 , 23, 042705	2.1	4
43	Resonant microwave pulse compressor operating in two frequencies. <i>Journal of Applied Physics</i> , 2013 , 114, 034503	2.5	4

42	Unified one-dimensional model of bounded plasma with nonzero ion temperature in a broad pressure range. <i>Physics of Plasmas</i> , 2013 , 20, 032116	2.1	4
41	Comment on Properties of ceramic honeycomb cathodes[Appl. Phys. Lett. 92, 141501 (2008)]. <i>Applied Physics Letters</i> , 2008 , 93, 036103	3-4	4
40	Generation of high-current electron beams by a hollow cathode with a ferroelectric plasma source. <i>European Physical Journal D</i> , 2003 , 26, 285-295	1-3	4
39	Generation of supersonic jets from underwater electrical explosions of wire arrays. <i>Physics of Plasmas</i> , 2021 , 28, 063509	2.1	4
38	Peculiarities of planar shockwave interaction with air/water interface and solid target. <i>Physics of Plasmas</i> , 2022 , 29, 063502	2.1	4
37	Operation of a Microwave Pulse Compressor With a Laser-Triggered Plasma Switch at Different Laser Beam Directions. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 2140-2145	1-3	3
36	A fast avalanche Si diode with a 517 nm low-doped region. <i>Applied Physics Letters</i> , 2020 , 117, 013501	3-4	3
35	Numerical simulations of output pulse extraction from a high-power microwave compressor with a plasma switch. <i>Journal of Applied Physics</i> , 2014 , 115, 173302	2.5	3
34	Charging of the Traveling Wave Resonator of the Microwave Compressor by a Relativistic S-Band Magnetron. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 2506-2509	1-3	3
33	Over-injection and self-oscillations in an electron vacuum diode. <i>Physics of Plasmas</i> , 2017 , 24, 073116	2.1	3
32	Secondary-electrons-induced cathode plasma in a relativistic magnetron. <i>Applied Physics Letters</i> , 2012 , 101, 214101	3-4	3
31	Non-disturbing measurements of hollow-anode plasma parameters. <i>Plasma Devices and Operations</i> , 2007 , 15, 115-125		3
30	Comment on Low level plasma formation in a carbon velvet cesium iodide coated cathode[Phys. Plasmas 11, 1680 (2004)]. <i>Physics of Plasmas</i> , 2004 , 11, 5730-5731	2.1	3
29	Investigation of a density modulated electron beam emitted by a ferroelectric plasma cathode. <i>Journal of Applied Physics</i> , 2002 , 91, 3369-3376	2.5	3
28	Convergence of shock waves between conical and parabolic boundaries. <i>Physics of Plasmas</i> , 2016 , 23, 072704	2.1	3
27	Generation of strong pulsed magnetic fields using a compact, short pulse generator. <i>Journal of Applied Physics</i> , 2016 , 119, 144901	2.5	3
26	Addressing the problem of uniform converging spherical shock wave in water. <i>Physics of Plasmas</i> , 2016 , 23, 103507	2.1	3
25	Self-channeling of a powerful microwave beam in a preliminarily formed plasma. <i>Physics of Plasmas</i> , 2018 , 25, 103101	2.1	3

24	S-band microwave radiation by a high-impedance diode with an A6 anode block. <i>Applied Physics Letters</i> , 2017 , 111, 233503	3.4	2
23	Stabilized Operation of a Microwave Compressor Driven by Relativistic S-Band Magnetron. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 3961-3967	1.3	2
22	High-current diode with ferroelectric plasma source-assisted hollow anode. <i>Journal of Applied Physics</i> , 2010 , 108, 093303	2.5	2
21	Multicapillary and carbon fiber cathodes for high-current electron beam generation 2009 ,		2
20	Low-energy electron beam source. <i>Radiation Effects and Defects in Solids</i> , 2011 , 166, 389-398	0.9	2
19	Laser induced fluorescence of the ferroelectric plasma source assisted hollow anode discharge. <i>Physics of Plasmas</i> , 2009 , 16, 113504	2.1	2
18	Low-pressure hollow-anode plasma sources. <i>Plasma Devices and Operations</i> , 2005 , 13, 19-24		2
17	Compact high-current pulse generator for laboratory studies of high energy density matter. <i>Review of Scientific Instruments</i> , 2021 , 92, 023510	1.7	2
16	Squeezed state of an electron cloud as a quasi-neutral one-component plasma. <i>Physics of Plasmas</i> , 2021 , 28, 072106	2.1	2
15	An Axial Output Relativistic Magnetron Fed by a Split Cathode and Magnetically Insulated by a Low-Power Solenoid. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 5227-5231	2.9	2
14	Supersonic jet generation by underwater sub-microsecond electrical explosions of wire arrays. <i>Physics of Plasmas</i> , 2022 , 29, 032705	2.1	2
13	Experiments Designed to Study the Non-Linear Transition of High-Power Microwaves through Plasmas and Gases. <i>Plasma</i> , 2019 , 2, 51-64	1.7	1
12	A six vane, single radial output slot relativistic magnetron revisited 2015 ,		1
11	Wake excitation by a powerful microwave pulse and its evolution in a plasma-filled waveguide. <i>Physics of Plasmas</i> , 2020 , 27, 053103	2.1	1
10	A self-oscillating electron beam experiment. <i>Physics of Plasmas</i> , 2020 , 27, 023104	2.1	1
9	Generation of ultra-fast cumulative water jets by sub-microsecond underwater electrical explosion of conical wire arrays. <i>Physics of Plasmas</i> , 2015 , 22, 122703	2.1	1
8	Limitation in velocity of converging shock wave. <i>Physics of Fluids</i> , 2022 , 34, 016101	4.4	1
7	The Interaction of a High-Power Sub-Nanosecond Microwave Pulse With Plasma. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 792-801	1.3	1

6	Target acceleration by sub-microsecond underwater electrical explosions of wire arrays. <i>Journal of Applied Physics</i> , 2022 , 131, 074902	2.5	1
5	Energy density balance during shock wave implosion in water. <i>Physics of Fluids</i> , 2022 , 34, 016112	4.4	0
4	Energetic Particles and Radiation Intense Emission During Ferroelectric Surface Discharge. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 1261-1266	1.3	
3	Nonlinear absorption of high-power microwave pulses in a plasma filled waveguide. <i>Physics of Plasmas</i> , 2021 , 28, 062307	2.1	
2	Improved operation of a microwave pulse compressor with a laser-triggered high-pressure gas plasma switch. <i>Physics of Plasmas</i> , 2016 , 23, 080702	2.1	
1	Density evolution of a copper wire during nanosecond timescale underwater explosions. <i>Physics of Plasmas</i> , 2018 , 25, 092709	2.1	