

# Yakov E Krasik

## List of Publications by Year in Descending Order

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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.

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	Energy density balance during shock wave implosion in water. <i>Physics of Fluids</i> , <b>2022</b> , 34, 016112	4.4	0
184	Limitation in velocity of converging shock wave. <i>Physics of Fluids</i> , <b>2022</b> , 34, 016101	4.4	1
183	An advanced relativistic magnetron operating with a split cathode and separated anode segments. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 023301	2.5	5
182	Target acceleration by sub-microsecond underwater electrical explosions of wire arrays. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 074902	2.5	1
181	Supersonic jet generation by underwater sub-microsecond electrical explosions of wire arrays. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 032705	2.1	2
180	Peculiarities of planar shockwave interaction with air-water interface and solid target. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 063502	2.1	4
179	Addressing the symmetry of a converging cylindrical shock wave in water close to implosion. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 174103	3.4	5
178	Nonlinear absorption of high-power microwave pulses in a plasma filled waveguide. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 062307	2.1	
177	Generation of supersonic jets from underwater electrical explosions of wire arrays. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 063509	2.1	4
176	Efficient target acceleration using underwater electrical explosion of wire array. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 034901	2.5	10
175	Compact high-current pulse generator for laboratory studies of high energy density matter. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 023510	1.7	2
174	Squeezed state of an electron cloud as a quasi-neutral one-component plasma. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 072106	2.1	2
173	Experimental and numerical study of a split cathode fed relativistic magnetron. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 034501	2.5	6
172	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> , <b>2021</b> , 68, 5227-5231	2.9	2
171	Wake excitation by a powerful microwave pulse and its evolution in a plasma-filled waveguide. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 053103	2.1	1
170	A self-oscillating electron beam experiment. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 023104	2.1	1
169	A fast avalanche Si diode with a 517 th low-doped region. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 013501	3.4	3

168	Shockwave generation by electrical explosion of cylindrical wire arrays in hydrogen peroxide/water solutions. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 243702	3.4	6
167	The Interaction of a High-Power Sub-Nanosecond Microwave Pulse With Plasma. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 792-801	1.3	1
166	Producing a magnetized low energy, high electron charge density state using a split cathode. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 103102	2.1	10
165	Periodic bunches produced by electron beam squeezed states in a resonant cavity. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 083103	2.1	5
164	Microsecond timescale combustion of aluminum initiated by an underwater electrical wire explosion. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 053510	2.1	8
163	X-ray radiography of the overheating instability in underwater electrical explosions of wires. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 050703	2.1	10
162	Evolution of a shock wave generated by underwater electrical explosion of a single wire. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 042302	2.1	13
161	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> , <b>2019</b> , 125, 093301	2.5	10
160	Experiments Designed to Study the Non-Linear Transition of High-Power Microwaves through Plasmas and Gases. <i>Plasma</i> , <b>2019</b> , 2, 51-64	1.7	1
159	Self-oscillations in an over-injected electron diode [Experiment and analysis]. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 033113	2.1	5
158	Wakefield excitation by a powerful sub-nanosecond 28.6 GHz microwave pulse propagating in a plasma filled waveguide. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 023102	2.1	4
157	Particularities of shocks generated by underwater electrical explosions of a single wire and wire arrays. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 074101	3.4	14
156	A Relativistic Magnetron Operated With Permanent Magnets. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 3997-4005	1.3	11
155	Generation of high-current pulses by a magnetized squeezed electron beam. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 093107	2.1	11
154	Use of synchrotron-based radiography to diagnose pulsed power driven wire explosion experiments. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 013504	1.7	10
153	The interaction of intense, ultra-short microwave beams with the plasma generated by gas ionization. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 032308	2.1	6
152	Particle-in-cell modeling of the nanosecond field emission driven discharge in pressurized hydrogen. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 083303	2.5	20
151	Ionization-Induced Self-Channeling of an Ultrahigh-Power Subnanosecond Microwave Beam in a Neutral Gas. <i>Physical Review Letters</i> , <b>2018</b> , 120, 135003	7.4	9

150	Self-channeling of a powerful microwave beam in a preliminarily formed plasma. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 103101	2.1	3
149	Density evolution of a copper wire during nanosecond timescale underwater explosions. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 092709	2.1	
148	Multi frame synchrotron radiography of pulsed power driven underwater single wire explosions. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 153301	2.5	17
147	Phase transitions of copper, aluminum, and tungsten wires during underwater electrical explosions. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 102709	2.1	17
146	Quasi-isentropic compression using compressed water flow generated by underwater electrical explosion of a wire array. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 185902	2.5	5
145	Comparison of electrical explosions of spherical wire arrays in water and glycerol on different timescales. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 062709	2.1	8
144	High power microwave source for a plasma wakefield experiment. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 033301	2.5	15
143	\$\$\$ -Band Relativistic Magnetron Operation With Multichannel Radial Outputs of the Microwave Power. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 229-234	1.3	11
142	Characterization of inductively coupled plasma generated by a quadruple antenna. <i>Plasma Sources Science and Technology</i> , <b>2017</b> , 26, 025005	3.5	6
141	Comparison of electrical explosions of Cu and Al wires in water and glycerol. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 053512	2.1	18
140	Electrical model of cold atmospheric plasma gun. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 103510	2.1	4
139	Generation of underwater discharges inside gas bubbles using a 30-needles-to-plate electrode. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 153303	2.5	12
138	Over-injection and self-oscillations in an electron vacuum diode. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 073116	2.1	3
137	Generation of highly symmetric, cylindrically convergent shockwaves in water. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 082702	2.1	21
136	Wakefield in a waveguide. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 063112	2.1	6
135	Spherical wire arrays electrical explosion in water and glycerol. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 122705	2.1	13
134	Radial density distribution of a warm dense plasma formed by underwater electrical explosion of a copper wire. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 122703	2.1	5
133	S-band microwave radiation by a high-impedance diode with an A6 anode block. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 233503	3.4	2

132	Uniformity of cylindrical imploding underwater shockwaves at very small radii. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 214103	3.4	15
131	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> , <b>2017</b> , 12, e0169457	3.7	47
130	Pulse-Shortening in a Relativistic Magnetron: The Role of Anode Block Axial Endcaps. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 1375-1385	1.3	5
129	Converging shock wave focusing and interaction with a target. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 042705	2.1	4
128	Underwater Electrical Explosion of Wires and Wire Arrays and Generation of Converging Shock Waves. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 412-431	1.3	40
127	Convergence of shock waves between conical and parabolic boundaries. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 072704	2.1	3
126	Efficient and Selectable Production of Reactive Species Using a Nanosecond Pulsed Discharge in Gas Bubbles in Liquid. <i>Plasma Processes and Polymers</i> , <b>2016</b> , 13, 306-310	3.4	26
125	Generation of strong pulsed magnetic fields using a compact, short pulse generator. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 144901	2.5	3
124	Improved operation of a microwave pulse compressor with a laser-triggered high-pressure gas plasma switch. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 080702	2.1	
123	Time-resolved spectroscopy of light emission from plasma generated by a converging strong shock wave in water. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 244101	3.4	13
122	Addressing the problem of uniform converging spherical shock wave in water. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 103507	2.1	3
121	Commissioning of the PRIOR proton microscope. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 023303	1.7	16
120	Addressing optimal underwater electrical explosion of a wire. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 092708	2.1	11
119	Plasma density temporal evolution in a high-power microwave pulse compressor switch. <i>Europhysics Letters</i> , <b>2015</b> , 109, 25001	1.6	8
118	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> , <b>2015</b> , 22, 053507	2.1	7
117	A six vane, single radial output slot relativistic magnetron revisited <b>2015</b> ,		1
116	Generation of fast cumulative water jets by underwater electrical explosion of conical wire arrays. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 015901	2.5	7
115	Evaluating the Performance of a Carbon-Epoxy Capillary Cathode and Carbon Fiber Cathode in a Sealed-Tube Vircator Under UHV Conditions. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 2670-2675	1.3	10

114	Operation of a Microwave Pulse Compressor With a Laser-Triggered Plasma Switch at Different Laser Beam Directions. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 2140-2145	1.3	3
113	Revisiting Power Flow and Pulse Shortening in a Relativistic Magnetron. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 3168-3175	1.3	8
112	Initiation of vacuum insulator surface high-voltage flashover with electrons produced by laser illumination. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 083109	2.1	5
111	Experimental research of different plasma cathodes for generation of high-current electron beams. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 193302	2.5	33
110	Generation of ultra-fast cumulative water jets by sub-microsecond underwater electrical explosion of conical wire arrays. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 122703	2.1	1
109	Self-consistent evolution of plasma discharge and electromagnetic fields in a microwave pulse compressor. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 073111	2.1	7
108	Operation of a Six-Cavity S-Band Relativistic Magnetron at Frequencies in the Range of Its Resonant Response. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 3827-3832	1.3	5
107	High-Current Carbon-Epoxy Capillary Cathode. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 1224-1236	1.3	7
106	Vacuum surface flashover: experiments and simulations. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 2394-2404	2.3	17
105	Numerical simulations of output pulse extraction from a high-power microwave compressor with a plasma switch. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 173302	2.5	3
104	Diagnostics of a converging strong shock wave generated by underwater explosion of spherical wire array. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 223303	2.5	13
103	Plasma density evolution during nanosecond discharge in hydrogen gas at (1B) 105Pa pressure. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 215202	3	19
102	Influence of Xe <sup>2+</sup> ions on the micro-hollow cathode discharge driven by thermionic emission. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 043503	2.1	7
101	Shockwave generation by a semiconductor bridge operation in water. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 203301	2.5	6
100	Stabilized Operation of a Microwave Compressor Driven by Relativistic S-Band Magnetron. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 3961-3967	1.3	2
99	Resonant microwave pulse compressor operating in two frequencies. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 034503	2.5	4
98	Spectroscopic study of plasma evolution in runaway nanosecond atmospheric-pressure He discharges. <i>Physical Review E</i> , <b>2013</b> , 88, 013107	2.4	14
97	Two-dimensional model of orificed micro-hollow cathode discharge for space application. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 083512	2.1	27

96	Charging of the Traveling Wave Resonator of the Microwave Compressor by a Relativistic S-Band Magnetron. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 2506-2509	1.3	3
95	Bohm velocity in the presence of a hot cathode. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 083510	2.1	6
94	Stabilization of the Frequency of Relativistic S-Band Magnetron With Radial Output. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 3001-3004	1.3	6
93	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> , <b>2013</b> , 111, 255001	7.4	18
92	High-current long-duration uniform electron beam generation in a diode with multicapillary carbon-epoxy cathode. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 123303	2.5	11
91	Unified one-dimensional model of bounded plasma with nonzero ion temperature in a broad pressure range. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 032116	2.1	4
90	Generation of converging strong shock wave formed by microsecond timescale underwater electrical explosion of spherical wire array. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 124104	3.4	39
89	Numerical simulation of the plasma generated by the interaction high-current electron beam with Al target. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 123302	2.5	6
88	Peculiarity of convergence of shock wave generated by underwater electrical explosion of ring-shaped wire. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 052702	2.1	13
87	Stability of imploding shocks generated by underwater electrical explosion of cylindrical wire array. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 112701	2.1	21
86	Generation of cumulative jets during underwater explosion of copper wires in the X-pinch configuration. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 203301	2.5	5
85	The physical phenomena accompanying the sub-nanosecond high-voltage pulsed discharge in nitrogen. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 073304	2.5	9
84	Secondary-electrons-induced cathode plasma in a relativistic magnetron. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 214101	3.4	3
83	Generation of extreme state of water by spherical wire array underwater electrical explosion. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 102702	2.1	25
82	Particle-in-cell simulations of the runaway breakdown of nitrogen. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 113302	2.5	11
81	High-current carbon-epoxy capillary cathode. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 023303	2.5	17
80	Numerical simulations of runaway electron generation in pressurized gases. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 013303	2.5	52
79	Conductivity of nanosecond discharges in nitrogen and sulfur hexafluoride studied by particle-in-cell simulations. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 123303	2.5	10



78	Aluminum micro-particles combustion ignited by underwater electrical wire explosion. <i>Shock Waves</i> , <b>2012</b> , 22, 207-214	1.6	8
77	Time evolution of nanosecond runaway discharges in air and helium at atmospheric pressure. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 123507	2.1	17
76	Evaluation of electrical conductivity of Cu and Al through sub microsecond underwater electrical wire explosion. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 034501	2.1	14
75	Electron emission mechanism during the nanosecond high-voltage pulsed discharge in pressurized air. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 084105	3.4	10
74	Effect of explosive emission on runaway electron generation. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 013304	3.4	21
73	Diagnostics of underwater electrical wire explosion through a time- and space-resolved hard x-ray source. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 103505	1.7	9
72	X-ray diagnostics of runaway electrons generated during nanosecond discharge in gas at elevated pressures. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 024101	3.4	12
71	Modified wire array underwater electrical explosion. <i>Laser and Particle Beams</i> , <b>2012</b> , 30, 215-224	0.9	17
70	Space- and time-resolved characterization of nanosecond time scale discharge at pressurized gas. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 073312	2.5	52
69	Generation of a 400 GPa pressure in water using converging strong shock waves. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 062701	2.1	38
68	Simulation of converging cylindrical GPa-range shock waves generated by wire array underwater electrical explosions. <i>Shock Waves</i> , <b>2011</b> , 21, 321-329	1.6	19
67	Numerical simulation of anomalous electrons generation in a vacuum diode. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 043302	2.5	9
66	Low-energy electron beam source. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 389-398	0.9	2
65	Evaluation of electrical conductivity and equations of state of non-ideal plasma through microsecond timescale underwater electrical wire explosion. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 092704	2.1	27
64	Underwater electrical wire explosion. <i>Plasma Sources Science and Technology</i> , <b>2010</b> , 19, 034020	3.5	37
63	High-current diode with ferroelectric plasma source-assisted hollow anode. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 093303	2.5	2
62	Investigation of electrical conductivity and equations of state of non-ideal plasma through underwater electrical wire explosion. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 112702	2.1	38
61	Plasma formation in a double-gap vircator. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 103302	2.5	6



60	Extreme water state produced by underwater wire-array electrical explosion. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 221502	3.4	16
59	Multicapillary and carbon fiber cathodes for high-current electron beam generation <b>2009</b> ,		2
58	Electron beam and plasma modes of a channel spark discharge operation. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 073301	2.5	11
57	Self-pulsing 104 A cm <sup>-2</sup> current density discharges in dielectric barrier Al/Al <sub>2</sub> O <sub>3</sub> microplasma devices. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 011501	3.4	9
56	Addressing the plasma formation on the surface of a ferroelectric sample. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 053301	2.5	5
55	Plasma parameters of an active cathode during relativistic magnetron operation. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 063306	2.5	6
54	S-band relativistic magnetron operation with an active plasma cathode. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 083307	2.5	11
53	Addressing the efficiency of the energy transfer to the water flow by underwater electrical wire explosion. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 073308	2.5	50
52	Drastic improvement in the S-band relativistic magnetron operation. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 074101	3.4	15
51	Characterization of Different Wire Configurations in Underwater Electrical Explosion. <i>IEEE Transactions on Plasma Science</i> , <b>2009</b> , 37, 88-98	1.3	21
50	Energetic Particles and Radiation Intense Emission During Ferroelectric Surface Discharge. <i>IEEE Transactions on Plasma Science</i> , <b>2009</b> , 37, 1261-1266	1.3	
49	Laser induced fluorescence of the ferroelectric plasma source assisted hollow anode discharge. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 113504	2.1	2
48	Underwater Electrical Wire Explosion and Its Applications. <i>IEEE Transactions on Plasma Science</i> , <b>2008</b> , 36, 423-434	1.3	100
47	Plasma Emission Sources for High-Current Electron Beam Generation. <i>IEEE Transactions on Plasma Science</i> , <b>2008</b> , 36, 768-777	1.3	20
46	Comment on Properties of ceramic honeycomb cathodes[Appl. Phys. Lett. 92, 141501 (2008)]. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 036103	3.4	4
45	Spectroscopic research of underwater electrical wire explosion. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 082704	2.1	29
44	Plasma dynamics during relativistic S-band magnetron operation. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 064125	2.5	21
43	High-current electron beam generation in a diode with a multicapillary dielectric cathode. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 043302	2.5	10

42	Characterization of converging shock waves generated by underwater electrical wire array explosion. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 112703	2.1	31
41	Micron-scale width multislotted plasma cathode. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 123507	2.1	6
40	Passive and Active Plasma Emission Sources for High-current Electron Beam Generation. <i>IEEE Transactions on Fundamentals and Materials</i> , <b>2007</b> , 127, 697-703	0.2	5
39	Pressure and electron energy measurements in a channel spark discharge. <i>Plasma Devices and Operations</i> , <b>2007</b> , 15, 107-114		6
38	Implosion in water medium and its possible application for the inertial confinement fusion target ignition. <i>Physics of Plasmas</i> , <b>2007</b> , 14, 012701	2.1	27
37	Generation of cylindrically symmetric converging shock waves by underwater electrical explosion of wire array. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 201502	3.4	28
36	Non-disturbing measurements of hollow-anode plasma parameters. <i>Plasma Devices and Operations</i> , <b>2007</b> , 15, 115-125		3
35	Water bath effect during the electrical underwater wire explosion. <i>Physics of Plasmas</i> , <b>2007</b> , 14, 102703	2.1	32
34	Microparticle flow generation by a ferroelectric plasma source. <i>Plasma Devices and Operations</i> , <b>2006</b> , 14, 293-302		10
33	Potential distribution in an ion sheath of non-Maxwellian plasma. <i>Physics of Plasmas</i> , <b>2006</b> , 13, 073506	2.1	11
32	Efficiency of the shock wave generation caused by underwater electrical wire explosion. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 113509	2.5	55
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