

Chan Joshi

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.

167
papers

8,583
citations

46
h-index

90
g-index

219
ext. papers

9,792
ext. citations

6.9
avg, IF

5.44
L-index

#	Paper	IF	Citations
167	Ultrabright Electron Bunch Injection in a Plasma Wakefield Driven by a Superluminal Flying Focus Electron Beam.. <i>Physical Review Letters</i> , 2022 , 128, 174803	7.4	0
166	Observation of breakdown wave mechanism in avalanche ionization produced atmospheric plasma generated by a picosecond CO2 laser. <i>Physics of Plasmas</i> , 2022 , 29, 053504	2.1	0
165	The optimal beam-loading in two-bunch nonlinear plasma wakefield accelerators. <i>Plasma Physics and Controlled Fusion</i> , 2022 , 64, 065007	2	
164	In Situ Generation of High-Energy Spin-Polarized Electrons in a Beam-Driven Plasma Wakefield Accelerator. <i>Physical Review Letters</i> , 2021 , 126, 054801	7.4	4
163	High Efficiency Uniform Wakefield Acceleration of a Positron Beam Using Stable Asymmetric Mode in a Hollow Channel Plasma. <i>Physical Review Letters</i> , 2021 , 127, 174801	7.4	6
162	2020 roadmap on plasma accelerators. <i>New Journal of Physics</i> , 2021 , 23, 031101	2.9	24
161	Generation of Terawatt Attosecond Pulses from Relativistic Transition Radiation. <i>Physical Review Letters</i> , 2021 , 126, 094801	7.4	0
160	Predominant contribution of direct laser acceleration to high-energy electron spectra in a low-density self-modulated laser wakefield accelerator. <i>Physical Review Accelerators and Beams</i> , 2021 , 24,	1.8	2
159	Ultra-short pulse generation from mid-IR to THz range using plasma wakes and relativistic ionization fronts. <i>Physics of Plasmas</i> , 2021 , 28, 023106	2.1	2
158	Lasing in 15 atm CO cell optically pumped by a Fe:ZnSe laser. <i>Optics Express</i> , 2021 , 29, 31455-31464	3.3	2
157	Photon deceleration in plasma wakes generates single-cycle relativistic tunable infrared pulses. <i>Nature Communications</i> , 2020 , 11, 2787	17.4	10
156	Initializing anisotropic electron velocity distribution functions in optical-field ionized plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2020 , 62, 024011	2	1
155	Emittance preservation through density ramp matching sections in a plasma wakefield accelerator. <i>Physical Review Accelerators and Beams</i> , 2020 , 23,	1.8	5
154	Measurements of the Growth and Saturation of Electron Weibel Instability in Optical-Field Ionized Plasmas. <i>Physical Review Letters</i> , 2020 , 125, 255001	7.4	2
153	Probing thermal Weibel instability in optical-field-ionized plasmas using relativistic electron bunches. <i>Plasma Physics and Controlled Fusion</i> , 2020 , 62, 024010	2	1
152	Perspectives on the generation of electron beams from plasma-based accelerators and their near and long term applications. <i>Physics of Plasmas</i> , 2020 , 27, 070602	2.1	23
151	Gain dynamics in a CO2 active medium optically pumped at 4.3 μ m. <i>Journal of Applied Physics</i> , 2020 , 128, 103103	2.5	2

150	Laser-driven collisionless shock acceleration of ions from near-critical plasmas. <i>Physics of Plasmas</i> , 2020 , 27, 083102	2.1	4
149	Resonant nonlinear refraction of 4.3- μ m light in CO ₂ gas. <i>Physical Review A</i> , 2019 , 100,	2.6	6
148	X-ray sources using a picosecond laser driven plasma accelerator. <i>Physics of Plasmas</i> , 2019 , 26, 083110	2.1	10
147	Ultrafast optical field-ionized gases-A laboratory platform for studying kinetic plasma instabilities. <i>Science Advances</i> , 2019 , 5, eaax4545	14.3	10
146	Phase Space Dynamics of a Plasma Wakefield Dechirper for Energy Spread Reduction. <i>Physical Review Letters</i> , 2019 , 122, 204804	7.4	17
145	High-resolution phase-contrast imaging of biological specimens using a stable betatron X-ray source in the multiple-exposure mode. <i>Scientific Reports</i> , 2019 , 9, 7796	4.9	8
144	X-ray analysis methods for sources from self-modulated laser wakefield acceleration driven by picosecond lasers. <i>Review of Scientific Instruments</i> , 2019 , 90, 033503	1.7	5
143	Plasma-based accelerators: then and now. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 104001	2	4
142	Betatron radiation and emittance growth in plasma wakefield accelerators. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180173	3	3
141	Positron beam extraction from an electron-beam-driven plasma wakefield accelerator. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	1
140	Laser-ionized, beam-driven, underdense, passive thin plasma lens. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	10
139	Effect of fluctuations in the down ramp plasma source profile on the emittance and current profile of the self-injected beam in a plasma wakefield accelerator. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	4
138	Multi-atmosphere picosecond CO amplifier optically pumped at 4.3 μ m. <i>Applied Optics</i> , 2019 , 58, 5756-5763	1.7	7
137	Control of the nonlinear response of bulk GaAs induced by long-wavelength infrared pulses. <i>Optics Express</i> , 2019 , 27, 30462-30472	3.3	4
136	Shaping trailing beams for beam loading via beam-induced-ionization injection at FACET. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	1
135	Near-Ideal Dechirper for Plasma-Based Electron and Positron Acceleration Using a Hollow Channel Plasma. <i>Physical Review Applied</i> , 2019 , 12,	4.3	3
134	Megafilament in air formed by self-guided terawatt long-wavelength infrared laser. <i>Nature Photonics</i> , 2019 , 13, 41-46	33.9	46
133	Bremsstrahlung hard x-ray source driven by an electron beam from a self-modulated laser wakefield accelerator. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 054008	2	17

132	Plasma wakefield acceleration experiments at FACET II. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 034001	2	44
131	Measurement of Transverse Wakefields Induced by a Misaligned Positron Bunch in a Hollow Channel Plasma Accelerator. <i>Physical Review Letters</i> , 2018 , 120, 124802	7.4	21
130	Betatron x-ray radiation from laser-plasma accelerators driven by femtosecond and picosecond laser systems. <i>Physics of Plasmas</i> , 2018 , 25, 056706	2.1	8
129	Relativistic single-cycle tunable infrared pulses generated from a tailored plasma density structure. <i>Nature Photonics</i> , 2018 , 12, 489-494	33.9	32
128	Collisionless shock acceleration of narrow energy spread ion beams from mixed species plasmas using 1 μ m lasers. <i>Physical Review Accelerators and Beams</i> , 2018 , 21,	1.8	22
127	Mitigation Techniques for Witness Beam Hosing in Plasma - Based Acceleration 2018 ,		1
126	Generating Quasi-Single Multi - Terawatt Picosecond Pulses in the Neptune CO2 Laser System 2018 ,		1
125	Role of Direct Laser Acceleration of Electrons in a Laser Wakefield Accelerator with Ionization Injection. <i>Physical Review Letters</i> , 2017 , 118, 064801	7.4	46
124	Observation of Betatron X-Ray Radiation in a Self-Modulated Laser Wakefield Accelerator Driven with Picosecond Laser Pulses. <i>Physical Review Letters</i> , 2017 , 118, 134801	7.4	30
123	Femtosecond Probing of Plasma Wakefields and Observation of the Plasma Wake Reversal Using a Relativistic Electron Bunch. <i>Physical Review Letters</i> , 2017 , 119, 064801	7.4	32
122	Acceleration of a trailing positron bunch in a plasma wakefield accelerator. <i>Scientific Reports</i> , 2017 , 7, 14180	4.9	19
121	Ion Motion Induced Emittance Growth of Matched Electron Beams in Plasma Wakefields. <i>Physical Review Letters</i> , 2017 , 118, 244801	7.4	23
120	. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 3134-3146	1.3	15
119	High quality electron bunch generation using a longitudinal density-tailored plasma-based accelerator in the three-dimensional blowout regime. <i>Physical Review Accelerators and Beams</i> , 2017 , 20,	1.8	35
118	Plasma dynamics near critical density inferred from direct measurements of laser hole boring. <i>Physical Review E</i> , 2016 , 93, 061202	2.4	4
117	Physics of Phase Space Matching for Staging Plasma and Traditional Accelerator Components Using Longitudinally Tailored Plasma Profiles. <i>Physical Review Letters</i> , 2016 , 116, 124801	7.4	54
116	Nanoscale Electron Bunching in Laser-Triggered Ionization Injection in Plasma Accelerators. <i>Physical Review Letters</i> , 2016 , 117, 034801	7.4	12
115	Colliding ionization injection in a plasma wakefield accelerator. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 034015	2	4

114	Demonstration of a positron beam-driven hollow channel plasma wakefield accelerator. <i>Nature Communications</i> , 2016 , 7, 11785	17.4	56
113	High-field plasma acceleration in a high-ionization-potential gas. <i>Nature Communications</i> , 2016 , 7, 11898	17.4	10
112	Self-mapping the longitudinal field structure of a nonlinear plasma accelerator cavity. <i>Nature Communications</i> , 2016 , 7, 12483	17.4	16
111	Low-energy-spread laser wakefield acceleration using ionization injection with a tightly focused laser in a mismatched plasma channel. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 034004	2	5
110	9 GeV energy gain in a beam-driven plasma wakefield accelerator. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 034017	2	24
109	Self-modulated laser wakefield accelerators as x-ray sources. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 034018	2	28
108	Prospects and directions of CO ₂ laser-driven accelerators 2016 ,		10
107	Generation of high power, sub-picosecond, 10 μ m pulses via self-phase modulation followed by compression 2016 ,		2
106	Multi-gigaelectronvolt acceleration of positrons in a self-loaded plasma wakefield. <i>Nature</i> , 2015 , 524, 442-5	50.4	100
105	Phase-space dynamics of ionization injection in plasma-based accelerators. <i>Physical Review Letters</i> , 2014 , 112, 035003	7.4	41
104	High-efficiency acceleration of an electron beam in a plasma wakefield accelerator. <i>Nature</i> , 2014 , 515, 92-5	50.4	313
103	Laser wakefield accelerator based light sources: potential applications and requirements. <i>Plasma Physics and Controlled Fusion</i> , 2014 , 56, 084015	2	53
102	Role of direct laser acceleration in energy gained by electrons in a laser wakefield accelerator with ionization injection. <i>Plasma Physics and Controlled Fusion</i> , 2014 , 56, 084006	2	33
101	Low emittance electron beam generation from a laser wakefield accelerator using two laser pulses with different wavelengths. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014 , 17,		33
100	Angular dependence of betatron x-ray spectra from a laser-wakefield accelerator. <i>Physical Review Letters</i> , 2013 , 111, 235004	7.4	51
99	Ion acceleration from laser-driven electrostatic shocks. <i>Physics of Plasmas</i> , 2013 , 20, 056304	2.1	72
98	Strategies for mitigating the ionization-induced beam head erosion problem in an electron-beam-driven plasma wakefield accelerator. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013 , 16,		14
97	Generating high-brightness electron beams via ionization injection by transverse colliding lasers in a plasma-wakefield accelerator. <i>Physical Review Letters</i> , 2013 , 111, 015003	7.4	67

96	Laser-driven shock acceleration of monoenergetic ion beams. <i>Physical Review Letters</i> , 2012 , 109, 215001	7.4	155
95	Collisionless shocks in laser-produced plasma generate monoenergetic high-energy proton beams. <i>Nature Physics</i> , 2012 , 8, 95-99	16.2	295
94	Amplification of multi-gigawatt 3 ps pulses in an atmospheric CO2 laser using ac Stark effect. <i>Optics Express</i> , 2012 , 20, 13762-8	3.3	26
93	CO2 Laser acceleration of forward directed MeV proton beams in a gas target at critical plasma density. <i>Journal of Plasma Physics</i> , 2012 , 78, 373-382	2.7	4
92	Forward directed ion acceleration in a LWFA with ionization-induced injection. <i>Journal of Plasma Physics</i> , 2012 , 78, 327-331	2.7	6
91	Demonstration of a narrow energy spread, ~0.5 GeV electron beam from a two-stage laser wakefield accelerator. <i>Physical Review Letters</i> , 2011 , 107, 045001	7.4	185
90	Multi-beam effects on backscatter and its saturation in experiments with conditions relevant to ignition). <i>Physics of Plasmas</i> , 2011 , 18, 056311	2.1	33
89	Scaling of the longitudinal electric field and transformer ratio in a nonlinear plasma wakefield accelerator. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2010 , 13,		7
88	High-brilliance synchrotron radiation induced by the plasma magnetostatic mode. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2010 , 13,		4
87	Laser wakefield acceleration at reduced density in the self-guided regime). <i>Physics of Plasmas</i> , 2010 , 17, 056709	2.1	25
86	Energy gain scaling with plasma length and density in the plasma wakefield accelerator. <i>New Journal of Physics</i> , 2010 , 12, 045022	2.9	9
85	Plasma wakefield acceleration experiments at FACET. <i>New Journal of Physics</i> , 2010 , 12, 055030	2.9	91
84	Fifteen terawatt picosecond CO2 laser system. <i>Optics Express</i> , 2010 , 18, 17865-75	3.3	103
83	Self-guided laser wakefield acceleration beyond 1 GeV using ionization-induced injection. <i>Physical Review Letters</i> , 2010 , 105, 105003	7.4	283
82	Injection and trapping of tunnel-ionized electrons into laser-produced wakes. <i>Physical Review Letters</i> , 2010 , 104, 025003	7.4	352
81	Production of Multi-Terawatt Time-Structured CO2 Laser Pulses for Ion Acceleration 2010 ,		2
80	Development of a nanosecond-laser-pumped Raman amplifier for short laser pulses in plasma. <i>Physics of Plasmas</i> , 2009 , 16, 123113	2.1	52
79	Self-guiding of ultrashort, relativistically intense laser pulses through underdense plasmas in the blowout regime. <i>Physical Review Letters</i> , 2009 , 102, 175003	7.4	56

78	Efficient harmonic microbunching in a 7th-order inverse-free-electron laser interaction. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009 , 12,		10
77	Surfing Plasma Waves: A New Paradigm for Particle Accelerators. <i>Plasma and Fusion Research</i> , 2009 , 4, 045-045	0.5	1
76	Positron injection and acceleration on the wake driven by an electron beam in a foil-and-gas plasma. <i>Physical Review Letters</i> , 2008 , 101, 124801	7.4	23
75	Halo formation and emittance growth of positron beams in plasmas. <i>Physical Review Letters</i> , 2008 , 101, 055001	7.4	38
74	Ionization-induced electron trapping in ultrarelativistic plasma wakes. <i>Physical Review Letters</i> , 2007 , 98, 084801	7.4	110
73	Energy doubling of 42 GeV electrons in a metre-scale plasma wakefield accelerator. <i>Nature</i> , 2007 , 445, 741-4	50.4	494
72	Hosing instability in the blow-out regime for plasma-wakefield acceleration. <i>Physical Review Letters</i> , 2007 , 99, 255001	7.4	56
71	STATUS OF THE POLARIZED NONLINEAR INVERSE COMPTON SCATTERING EXPERIMENT AT UCLA. <i>International Journal of Modern Physics A</i> , 2007 , 22, 4355-4362	1.2	
70	The development of laser- and beam-driven plasma accelerators as an experimental fielda). <i>Physics of Plasmas</i> , 2007 , 14, 055501	2.1	97
69	Generating multi-GeV electron bunches using single stage laser wakefield acceleration in a 3D nonlinear regime. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2007 , 10,		562
68	A Plasma Lens for High Intensity Laser Focusing. <i>AIP Conference Proceedings</i> , 2006 ,	0	5
67	Positron production by x rays emitted by betatron motion in a plasma wiggler. <i>Physical Review Letters</i> , 2006 , 97, 175003	7.4	24
66	Plasma production via field ionization. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2006 , 9,		28
65	The status and evolution of plasma Wakefield particle accelerators. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 577-84	3	3
64	Plasma accelerators. <i>Scientific American</i> , 2006 , 294, 40-7	0.5	40
63	Multi-GeV energy gain in a plasma-wakefield accelerator. <i>Physical Review Letters</i> , 2005 , 95, 054802	7.4	125
62	High energy gain of trapped electrons in a tapered, diffraction-dominated inverse-free-electron laser. <i>Physical Review Letters</i> , 2005 , 94, 154801	7.4	44
61	Experiments on laser driven beatwave acceleration in a ponderomotively formed plasma channel. <i>Physics of Plasmas</i> , 2004 , 11, 2875-2881	2.1	27

60	Enhanced acceleration of injected electrons in a laser-beat-wave-induced plasma channel. <i>Physical Review Letters</i> , 2004 , 92, 095004	7.4	50
59	Near-GeV-energy laser-wakefield acceleration of self-injected electrons in a centimeter-scale plasma channel. <i>Physical Review Letters</i> , 2004 , 93, 185002	7.4	153
58	Meter-Scale Plasma-Wakefield Accelerator Driven by a Matched Electron Beam. <i>Physical Review Letters</i> , 2004 , 93,	7.4	79
57	Collinear Thomson scattering diagnostic system for the detection of relativistic waves in low-density plasmas. <i>Review of Scientific Instruments</i> , 2003 , 74, 3576-3578	1.7	6
56	Plasma Accelerators at the Energy Frontier and on Tabletops. <i>Physics Today</i> , 2003 , 56, 47-53	0.9	106
55	Plasma-wakefield acceleration of an intense positron beam. <i>Physical Review Letters</i> , 2003 , 90, 214801	7.4	83
54	Ultrarelativistic-positron-beam transport through meter-scale plasmas. <i>Physical Review Letters</i> , 2003 , 90, 205002	7.4	45
53	Parametric exploration of intense positron beam-plasma interactions. <i>Laser and Particle Beams</i> , 2003 , 21, 497-504	0.9	4
52	Energy doubler for a linear collider. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2002 , 5,		49
51	Interpretation of Resonant and Non-Resonant Beat-Wave Excitation: Experiments and Simulations. <i>AIP Conference Proceedings</i> , 2002 ,	0	2
50	X-ray emission from betatron motion in a plasma wiggler. <i>Physical Review Letters</i> , 2002 , 88, 135004	7.4	92
49	Transverse envelope dynamics of a 28.5-GeV electron beam in a long plasma. <i>Physical Review Letters</i> , 2002 , 88, 154801	7.4	70
48	Optical Kerr switching technique for the production of a picosecond, multiwavelength CO ₂ laser pulse. <i>Applied Optics</i> , 2002 , 41, 3743-7	1.7	25
47	High energy density plasma science with an ultrarelativistic electron beam. <i>Physics of Plasmas</i> , 2002 , 9, 1845-1855	2.1	76
46	Boundary effects. Refraction of a particle beam. <i>Nature</i> , 2001 , 411, 43	50.4	20
45	Plasma source test and simulation results for the underdense plasma lens experiment at the UCLA Neptune Laboratory. <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 271-277	1.3	4
44	Measurement of forward Raman scattering and electron acceleration from high-intensity laser-plasma interactions at 527 nm. <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 1122-1127	1.3	11
43	Growth and nonlinear evolution of the modified Simon-Hoh instability in an electron beam-produced plasma. <i>Physics of Plasmas</i> , 2000 , 7, 1774-1780	2.1	12

42	E-157: A 1.4-m-long plasma wake field acceleration experiment using a 30 GeV electron beam from the Stanford Linear Accelerator Center Linac. <i>Physics of Plasmas</i> , 2000 , 7, 2241-2248	2.1	48
41	Nanocomposite of semiconducting ferroelectric antimony sulphiodide dots-doped glasses. <i>Ferroelectrics</i> , 1999 , 230, 11-20	0.6	13
40	Photo-ionized lithium source for plasma accelerator applications. <i>IEEE Transactions on Plasma Science</i> , 1999 , 27, 791-799	1.3	59
39	Observation of the Nonlinear Saturation of Langmuir Waves Driven by Ponderomotive Force in a Large Scale Plasma. <i>Physical Review Letters</i> , 1999 , 83, 2965-2968	7.4	22
38	Generation of 160-ps terawatt-power CO(2) laser pulses. <i>Optics Letters</i> , 1999 , 24, 1717-9	3	27
37	Experimental Measurements of Hot Electrons Generated by Ultraintense ($>10^{19}$ W/cm ²) Laser-Plasma Interactions on Solid-Density Targets. <i>Physical Review Letters</i> , 1998 , 81, 822-825	7.4	248
36	Generation of microwave pulses from the static electric field of a capacitor array by an underdense, relativistic ionization front. <i>Physics of Plasmas</i> , 1998 , 5, 2112-2119	2.1	18
35	Exact forward scattering of a CO2 laser beam from a relativistic plasma wave by time resolved frequency mixing in AgGaS ₂ . <i>Review of Scientific Instruments</i> , 1997 , 68, 690-693	1.7	1
34	Transient Filamentation of a Laser Beam in a Thermal Force Dominated Plasma. <i>Physical Review Letters</i> , 1997 , 78, 670-673	7.4	23
33	Two-dimensional Cherenkov emission array for studies of relativistic electron dynamics in a laser plasma. <i>Review of Scientific Instruments</i> , 1997 , 68, 358-360	1.7	
32	Photoemission from diamond and fullerene films for advanced accelerator applications. <i>IEEE Transactions on Plasma Science</i> , 1996 , 24, 428-438	1.3	4
31	Demonstration of Microwave Generation from a Static Field by a Relativistic Ionization Front in a Capacitor Array. <i>Physical Review Letters</i> , 1996 , 77, 4764-4767	7.4	36
30	Electron acceleration from the breaking of relativistic plasma waves. <i>Nature</i> , 1995 , 377, 606-608	50.4	656
29	Coupling between high-frequency plasma waves in laser-plasma interactions. <i>Physical Review Letters</i> , 1995 , 74, 2236-2239	7.4	22
28	Propagation of intense subpicosecond laser pulses through underdense plasmas. <i>Physical Review Letters</i> , 1995 , 74, 4659-4662	7.4	150
27	Acceleration and scattering of injected electrons in plasma beat wave accelerator experiments*. <i>Physics of Plasmas</i> , 1994 , 1, 1753-1760	2.1	58
26	Trapped electron acceleration by a laser-driven relativistic plasma wave. <i>Nature</i> , 1994 , 368, 527-529	50.4	100
25	Ultrahigh-gradient acceleration of injected electrons by laser-excited relativistic electron plasma waves. <i>Physical Review Letters</i> , 1993 , 70, 37-40	7.4	267

24	Excitation of the modified Simon-Bloch instability in an electron beam produced plasma. <i>Physics of Fluids B</i> , 1993 , 5, 1681-1694		37
23	DEGENERATE AND RESONANT FOUR-WAVE MIXING IN PLASMAS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 1992 , 01, 1-24	0.8	4
22	Frequency upconversion of electromagnetic radiation upon transmission into an ionization front. <i>Physical Review Letters</i> , 1992 , 68, 946-949	7.4	98
21	Acceleration of injected electrons by the plasma beat wave accelerator. <i>AIP Conference Proceedings</i> , 1992 ,	0	4
20	Population Inversion in a Stationary Recombining Plasma.. <i>The Review of Laser Engineering</i> , 1991 , 19, 508-519	0	1
19	Demonstration of Degenerate Four Wave Mixing and Phase Conjugation of CO2 Laser in a Plasma.. <i>The Review of Laser Engineering</i> , 1991 , 19, 451-460	0	
18	Motion of relativistic electrons through transverse relativistic plasma waves. <i>Review of Scientific Instruments</i> , 1990 , 61, 3037-3039	1.7	4
17	Studies of relativistic wave-particle interactions in plasma-based collective accelerators. <i>Laser and Particle Beams</i> , 1990 , 8, 427-449	0.9	20
16	Detection of trapped magnetic fields in a theta pinch using a relativistic electron beam. <i>Review of Scientific Instruments</i> , 1988 , 59, 1641-1643	1.7	1
15	Plasma wave wigglers for free-electron lasers. <i>IEEE Journal of Quantum Electronics</i> , 1987 , 23, 1571-1577	2	91
14	Electrostatic Mode Coupling of Beat-Excited Electron Plasma Waves. <i>IEEE Transactions on Plasma Science</i> , 1987 , 15, 107-130	1.3	19
13	Backward Compton scattering for probing electric fields in a plasma. <i>Review of Scientific Instruments</i> , 1986 , 57, 1840-1842	1.7	2
12	Saturation of beat-excited plasma waves by electrostatic mode coupling. <i>Physical Review Letters</i> , 1986 , 56, 2629-2632	7.4	60
11	Experimental study of beat wave excitation of high phase velocity space charge waves in a plasma for particle acceleration. <i>AIP Conference Proceedings</i> , 1985 ,	0	6
10	Relativistic plasma-wave excitation by collinear optical mixing. <i>Physical Review Letters</i> , 1985 , 54, 2343-2346	7.4	158
9	Ultrahigh gradient particle acceleration by intense laser-driven plasma density waves. <i>Nature</i> , 1984 , 311, 525-529	50.4	219
8	A Plasma Wave Accelerator - Surfatron II. <i>IEEE Transactions on Nuclear Science</i> , 1983 , 30, 3244-3246	1.7	9
7	Resonant Self-Focusing of Laser Light in a Plasma. <i>Physical Review Letters</i> , 1982 , 48, 874-877	7.4	46

6	Forward Raman Instability and Electron Acceleration. <i>Physical Review Letters</i> , 1981 , 47, 1285-1288	7.4	150
5	Electron acceleration in relativistic plasma waves generated by a single frequency short-pulse laser		2
4	Studies of linear and nonlinear photoelectric emission for advanced accelerator applications		3
3	A broadband electron spectrometer and electron detectors for laser accelerator experiments		1
2	Initial operation of the UCLA plane wave transformer (PWT) linac		3
1	A Beam Driven Plasma-Wakefield Linear Collider: From Higgs Factory to Multi-TeV		13