

# Warren B Mori

## List of Publications by Year in descending order

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152  
papers

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36303

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153  
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153  
docs citations

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times ranked

3181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of topologically complex three-dimensional electron beams in a plasma photocathode. <i>Physical Review Accelerators and Beams</i> , 2022, 25, .	1.6	1
2	Ultrabright Electron Bunch Injection in a Plasma Wakefield Driven by a Superluminal Flying Focus Electron Beam. <i>Physical Review Letters</i> , 2022, 128, 174803.	7.8	8
3	The optimal beam-loading in two-bunch nonlinear plasma wakefield accelerators. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 065007.	2.1	0
4	Electron Weibel instability induced magnetic fields in optical-field ionized plasmas. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	3
5	Generation of ultrahigh-brightness pre-bunched beams from a plasma cathode for X-ray free-electron lasers. <i>Nature Communications</i> , 2022, 13, .	12.8	11
6	Highly spin-polarized multi-GeV electron beams generated by single-species plasma photocathodes. <i>Physical Review Research</i> , 2022, 4, .	3.6	1
7	A new field solver for modeling of relativistic particle-laser interactions using the particle-in-cell algorithm. <i>Computer Physics Communications</i> , 2021, 258, 107580.	7.5	14
8	Dynamic load balancing with enhanced shared-memory parallelism for particle-in-cell codes. <i>Computer Physics Communications</i> , 2021, 259, 107633.	7.5	14
9	A quasi-static particle-in-cell algorithm based on an azimuthal Fourier decomposition for highly efficient simulations of plasma-based acceleration: QPAD. <i>Computer Physics Communications</i> , 2021, 261, 107784.	7.5	10
10	Numerical heating in particle-in-cell simulations with Monte Carlo binary collisions. <i>Physical Review E</i> , 2021, 103, 013306.	2.1	7
11	Ultra-short pulse generation from mid-IR to THz range using plasma wakes and relativistic ionization fronts. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	8
12	Electron acceleration at oblique angles via stimulated Raman scattering at laser irradiance $\lesssim 10^{10}$ W/cm <sup>2</sup> . <i>Physical Review E</i> , 2021, 103, 033203.	2.1	2
13	Generation of Terawatt Attosecond Pulses from Relativistic Transition Radiation. <i>Physical Review Letters</i> , 2021, 126, 094801.	7.8	4
14	A multi-sheath model for highly nonlinear plasma wakefields. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	12
15	Accurately simulating nine-dimensional phase space of relativistic particles in strong fields. <i>Journal of Computational Physics</i> , 2021, 438, 110367.	3.8	13
16	Stopping-power enhancement from discrete particle-wake correlations in high-energy-density plasmas. <i>Physical Review E</i> , 2021, 104, 035203.	2.1	0
17	Generation of High-Energy Spin-Polarized Electrons in a Beam-Driven Plasma Wakefield Accelerator. <i>Physical Review Letters</i> , 2021, 126, 054801.	7.8	28
18	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.	7.8	22

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19	Extended particle absorber for efficient modeling of intense laser–solid interactions. <i>Physics of Plasmas</i> , 2021, 28, 112702.	1.9	2
20	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, .	1.9	50
21	On numerical errors to the fields surrounding a relativistically moving particle in PIC codes. <i>Journal of Computational Physics</i> , 2020, 413, 109451.	3.8	14
22	Emittance preservation through density ramp matching sections in a plasma wakefield accelerator. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	13
23	Generating high quality ultrarelativistic electron beams using an evolving electron beam driver. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	10
24	Measurements of the Growth and Saturation of Electron Weibel Instability in Optical-Field Ionized Plasmas. <i>Physical Review Letters</i> , 2020, 125, 255001.	7.8	18
25	Ultrafast optical field–ionized gases–A laboratory platform for studying kinetic plasma instabilities. <i>Science Advances</i> , 2019, 5, eaax4545.	10.3	21
26	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.	3.3	16
27	Bright $\gamma$ rays source and nonlinear Breit-Wheeler pairs in the collision of high density particle beams. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	24
28	Plasma wakefield acceleration experiments at FACET II. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 034001.	2.1	63
29	Measurement of Transverse Wakefields Induced by a Misaligned Positron Bunch in a Hollow Channel Plasma Accelerator. <i>Physical Review Letters</i> , 2018, 120, 124802.	7.8	38
30	Mitigation Techniques for Witness Beam Hosing in Plasma - Based Acceleration. , 2018, , .		1
31	Investigating Instabilities of Long, Intense Laser Pulses in Plasma Wakefield Accelerators. , 2018, , .		0
32	Reduced fast electron transport in shock-heated plasma in multilayer targets due to self-generated magnetic fields. <i>Physical Review E</i> , 2018, 98, .	2.1	0
33	Relativistic single-cycle tunable infrared pulses generated from a tailored plasma density structure. <i>Nature Photonics</i> , 2018, 12, 489-494.	31.4	59
34	Role of Direct Laser Acceleration of Electrons in a Laser Wakefield Accelerator with Ionization Injection. <i>Physical Review Letters</i> , 2017, 118, 064801.	7.8	57
35	Controlling the numerical Cerenkov instability in PIC simulations using a customized finite difference Maxwell solver and a local FFT based current correction. <i>Computer Physics Communications</i> , 2017, 214, 6-17.	7.5	35
36	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.	7.8	44

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37	Acceleration of a trailing positron bunch in a plasma wakefield accelerator. <i>Scientific Reports</i> , 2017, 7, 14180.	3.3	32
38	Ion Motion Induced Emittance Growth of Matched Electron Beams in Plasma Wakefields. <i>Physical Review Letters</i> , 2017, 118, 244801.	7.8	30
39	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, .	1.6	53
40	9 GeV energy gain in a beam-driven plasma wakefield accelerator. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 034017.	2.1	35
41	Plasma optical modulators for intense lasers. <i>Nature Communications</i> , 2016, 7, 11893.	12.8	29
42	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.	7.8	73
43	Nanoscale Electron Bunching in Laser-Triggered Ionization Injection in Plasma Accelerators. <i>Physical Review Letters</i> , 2016, 117, 034801.	7.8	20
44	Demonstration of a positron beam-driven hollow channel plasma wakefield accelerator. <i>Nature Communications</i> , 2016, 7, 11785.	12.8	93
45	High-field plasma acceleration in a high-ionization-potential gas. <i>Nature Communications</i> , 2016, 7, 11898.	12.8	18
46	Self-mapping the longitudinal field structure of a nonlinear plasma accelerator cavity. <i>Nature Communications</i> , 2016, 7, 12483.	12.8	18
47	Attosecond electron sheets and attosecond light pulses from relativistic laser wakefields in underdense plasmas. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
48	Modeling of laser wakefield acceleration in Lorentz boosted frame using a Quasi-3D OSIRIS algorithm. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
49	Enabling Lorentz boosted frame particle-in-cell simulations of laser wakefield acceleration in quasi-3D geometry. <i>Journal of Computational Physics</i> , 2016, 316, 747-759.	3.8	8
50	Elimination of the numerical Cerenkov instability for spectral EM-PIC codes. <i>Computer Physics Communications</i> , 2015, 192, 32-47.	7.5	27
51	Formation of Ultrarelativistic Electron Rings from a Laser-Wakefield Accelerator. <i>Physical Review Letters</i> , 2015, 115, 055004.	7.8	17
52	Mitigation of numerical Cerenkov radiation and instability using a hybrid finite difference-FFT Maxwell solver and a local charge conserving current deposit. <i>Computer Physics Communications</i> , 2015, 197, 144-152.	7.5	21
53	Multi-gigaelectronvolt acceleration of positrons in a self-loaded plasma wakefield. <i>Nature</i> , 2015, 524, 442-445.	27.8	133
54	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.	2.1	42

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55	Ion motion in the wake driven by long particle bunches in plasmas. <i>Physics of Plasmas</i> , 2014, 21, 056705.	1.9	21
56	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, .	1.8	46
57	Enhanced stopping of macro-particles in particle-in-cell simulations. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	12
58	Hosing Instability Suppression in Self-Modulated Plasma Wakefields. <i>Physical Review Letters</i> , 2014, 112, .	7.8	37
59	Phase-Space Dynamics of Ionization Injection in Plasma-Based Accelerators. <i>Physical Review Letters</i> , 2014, 112, 035003.	7.8	49
60	Beam Loading by Distributed Injection of Electrons in a Plasma Wakefield Accelerator. <i>Physical Review Letters</i> , 2014, 112, 025001.	7.8	25
61	High-efficiency acceleration of an electron beam in a plasma wakefield accelerator. <i>Nature</i> , 2014, 515, 92-95.	27.8	403
62	Numerical instability due to relativistic plasma drift in EM-PIC simulations. <i>Computer Physics Communications</i> , 2013, 184, 2503-2514.	7.5	53
63	Hot-electron generation from laser-pre-plasma interactions in cone-guided fast ignition. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	7
64	An improved iteration loop for the three dimensional quasi-static particle-in-cell algorithm: QuickPIC. <i>Journal of Computational Physics</i> , 2013, 250, 165-177.	3.8	50
65	A multi-dimensional Vlasov-Fokker-Planck code for arbitrarily anisotropic high-energy-density plasmas. <i>Physics of Plasmas</i> , 2013, 20, 056303.	1.9	17
66	Ion acceleration from laser-driven electrostatic shocks. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	85
67	Laser Hosing in Relativistically Hot Plasmas. <i>Physical Review Letters</i> , 2013, 110, 155002.	7.8	11
68	Exploiting multi-scale parallelism for large scale numerical modelling of laser wakefield accelerators. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124011.	2.1	98
69	Stable laser-produced quasimonoenergetic proton beams from interactive laser and target shaping. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	3
70	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, .	1.8	17
71	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.	7.8	80
72	3D simulations of pre-ionized and two-stage ionization injected laser wakefield accelerators. , 2013, , .		0

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73	Coherent transition radiation from a self-modulated charged particle beam. , 2013, , .		0
74	Some observations on trapping in nonlinear multi-dimensional wakes. AIP Conference Proceedings, 2013, , .	0.4	4
75	Modeling of laser wakefield acceleration in the Lorentz boosted frame using OSIRIS and UPIC framework. , 2013, , .		1
76	Upper limit power for self-guided propagation of intense lasers in plasma. Applied Physics Letters, 2012, 101, .	3.3	9
77	Controlled ionization-induced injection by tailoring the gas-density profile in laser wakefield acceleration. Journal of Plasma Physics, 2012, 78, 363-371.	2.1	15
78	CO <sub>2</sub> Laser acceleration of forward directed MeV proton beams in a gas target at critical plasma density. Journal of Plasma Physics, 2012, 78, 373-382.	2.1	6
79	Two-stage acceleration of protons from relativistic laser-solid interaction. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	6
80	Simulations of efficient laser wakefield accelerators from 1 to 100GeV. Journal of Plasma Physics, 2012, 78, 401-412.	2.1	8
81	Weibel-Instability-Mediated Collisionless Shocks in the Laboratory with Ultraintense Lasers. Physical Review Letters, 2012, 108, 235004.	7.8	119
82	Mechanism of generating fast electrons by an intense laser at a steep overdense interface. Physical Review E, 2011, 84, 025401.	2.1	42
83	Polarized beam conditioning in plasma based acceleration. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	38
84	Three-dimensional particle-in-cell simulations of laser channeling in fast ignition. Physics of Plasmas, 2011, 18, 042703.	1.9	19
85	Summary Report of Working Group 2: Computation. , 2010, , .		0
86	Exploring laser-wakefield-accelerator regimes for near-term lasers using particle-in-cell simulation in Lorentz-boosted frames. Nature Physics, 2010, 6, 311-316.	16.7	134
87	Laser wakefield acceleration at reduced density in the self-guided regime. Physics of Plasmas, 2010, 17, 056709.	1.9	28
88	Energy gain scaling with plasma length and density in the plasma wakefield accelerator. New Journal of Physics, 2010, 12, 045022.	2.9	10
89	Self-Guided Laser Wakefield Acceleration beyond 1ÅGeV Using Ionization-Induced Injection. Physical Review Letters, 2010, 105, 105003.	7.8	338
90	Injection and Trapping of Tunnel-Ionized Electrons into Laser-Produced Wakes. Physical Review Letters, 2010, 104, 025003.	7.8	434

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91	Self-Guiding of Ultrashort, Relativistically Intense Laser Pulses through Underdense Plasmas in the Blowout Regime. <i>Physical Review Letters</i> , 2009, 102, 175003.	7.8	63
92	Beam loading by electrons in nonlinear plasma wakes. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	96
93	ION DYNAMICS AND ACCELERATION IN RELATIVISTIC SHOCKS. <i>Astrophysical Journal</i> , 2009, 695, L189-L193.	4.5	143
94	A simulation study of fast ignition with ultrahigh intensity lasers. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	23
95	Longitudinal Ion Acceleration From High-Intensity Laser Interactions With Underdense Plasma. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1825-1832.	1.3	15
96	One-to-one direct modeling of experiments and astrophysical scenarios: pushing the envelope on kinetic plasma simulations. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124034.	2.1	180
97	Studies of Zonal Flows Driven by Drift Mode Turbulence in Laboratory and Space Plasmas. , 2008, , .		1
98	Beam Loading in the Nonlinear Regime of Plasma-Based Acceleration. <i>Physical Review Letters</i> , 2008, 101, 145002.	7.8	228
99	SHEET CROSSING AND WAVE BREAKING IN THE LASER WAKEFIELD ACCELERATOR. <i>International Journal of Modern Physics B</i> , 2007, 21, 439-446.	2.0	1
100	The relative importance of fluid and kinetic frequency shifts of an electron plasma wave. <i>Physics of Plasmas</i> , 2007, 14, 102104.	1.9	29
101	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, .	1.8	710
102	PLASMA WAKES DRIVEN BY NEUTRINOS, PHOTONS AND ELECTRON BEAMS. <i>International Journal of Modern Physics B</i> , 2007, 21, 343-350.	2.0	0
103	Ionization-Induced Electron Trapping in Ultrarelativistic Plasma Wakes. <i>Physical Review Letters</i> , 2007, 98, 084801.	7.8	138
104	Energy doubling of 42â€™%GeV electrons in a metre-scale plasma wakefield accelerator. <i>Nature</i> , 2007, 445, 741-744.	27.8	604
105	Hosing Instability in the Blow-Out Regime for Plasma-Wakefield Acceleration. <i>Physical Review Letters</i> , 2007, 99, 255001.	7.8	67
106	Nonlinear Theory for Relativistic Plasma Wakefields in the Blowout Regime. <i>Physical Review Letters</i> , 2006, 96, 165002.	7.8	419
107	A nonlinear theory for multidimensional relativistic plasma wave wakefields. <i>Physics of Plasmas</i> , 2006, 13, 056709.	1.9	225
108	Positron Production by X Rays Emitted by Betatron Motion in a Plasma Wiggler. <i>Physical Review Letters</i> , 2006, 97, 175003.	7.8	28

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109	The effect of laser focusing conditions in laser wakefield acceleration experiments. , 2006, , .		0
110	Advanced accelerator simulation research: miniaturizing accelerators from kilometers to meters. Journal of Physics: Conference Series, 2005, 16, 184-194.	0.4	2
111	Multi-GeV Energy Gain in a Plasma-Wakefield Accelerator. Physical Review Letters, 2005, 95, 054802.	7.8	160
112	Electron Acceleration in Cavitated Channels Formed by a Petawatt Laser in Low-Density Plasma. Physical Review Letters, 2005, 94, .	7.8	147
113	Limits of linear plasma wakefield theory for electron or positron beams. Physics of Plasmas, 2005, 12, 063101.	1.9	105
114	Observation of mono-energetic structures in the spectrum of laser wakefield accelerated electrons. AIP Conference Proceedings, 2004, , .	0.4	0
115	Near-GeV-Energy Laser-Wakefield Acceleration of Self-Injected Electrons in a Centimeter-Scale Plasma Channel. Physical Review Letters, 2004, 93, 185002.	7.8	168
116	Monoenergetic beams of relativistic electrons from intense laser-plasma interactions. Nature, 2004, 431, 535-538.	27.8	1,731
117	Nonlinear and three-dimensional theory for cross-magnetic field propagation of short-pulse lasers in underdense plasmas. Physics of Plasmas, 2004, 11, 1978-1986.	1.9	21
118	Proton Shock Acceleration in Laser-Plasma Interactions. Physical Review Letters, 2004, 92, 015002.	7.8	431
119	Three-dimensional Weibel instability in astrophysical scenarios. Physics of Plasmas, 2003, 10, 1979-1984.	1.9	115
120	Ultrarelativistic-Positron-Beam Transport through Meter-Scale Plasmas. Physical Review Letters, 2003, 90, 205002.	7.8	59
121	Energy doubler for a linear collider. Physical Review Special Topics: Accelerators and Beams, 2002, 5, .	1.8	60
122	On the mutual interaction between laser beams in plasmas. Physics of Plasmas, 2002, 9, 2354-2363.	1.9	26
123	Generation of ultra-intense single-cycle laser pulses by using photon deceleration. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 29-32.	7.1	67
124	X-Ray Emission from Betatron Motion in a Plasma Wiggler. Physical Review Letters, 2002, 88, 135004.	7.8	107
125	On the role of the purely transverse Weibel instability in fast ignitor scenarios. Physics of Plasmas, 2002, 9, 2458-2461.	1.9	219
126	OSIRIS: A Three-Dimensional, Fully Relativistic Particle in Cell Code for Modeling Plasma Based Accelerators. Lecture Notes in Computer Science, 2002, , 342-351.	1.3	413



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127	High-Energy Electron Beam Generation by a Laser Pulse Propagating in a Plasma. AIP Conference Proceedings, 2002, , .	0.4	1
128	Recent Advances and Some Results in Plasma-Based Accelerator Modeling. AIP Conference Proceedings, 2002, , .	0.4	5
129	Simulations of Cerenkov wake radiation sources. Physics of Plasmas, 2001, 8, 4995-5005.	1.9	36
130	Physical picture for the laser hosing instability in a plasma. Physics of Plasmas, 2001, 8, 3118-3119.	1.9	27
131	Plasma-wakefield acceleration of a positron beam. Physical Review E, 2001, 64, 045501.	2.1	58
132	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. Physics of Plasmas, 2000, 7, 2241-2248.	1.9	57
133	Self-trapped electron acceleration from the nonlinear interplay between Raman forward scattering, self-focusing, and hosing. Physics of Plasmas, 1999, 6, 2105-2116.	1.9	27
134	Ponderomotive force of quasiparticles in a plasma. Physical Review E, 1999, 59, 2273-2280.	2.1	37
135	Transformer ratio and pulse shaping in laser wakefield accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 410, 488-492.	1.6	7
136	Electron Beam Characteristics from Laser-Driven Wave Breaking. Physical Review Letters, 1997, 79, 5258-5261.	7.8	64
137	The evolution of ultra-intense, short-pulse lasers in underdense plasmas. Physics of Plasmas, 1996, 3, 2047-2056.	1.9	186
138	Laser wakefield acceleration and optical guiding in a hollow plasma channel. Physics of Plasmas, 1995, 2, 310-318.	1.9	101
139	Laser acceleration. AIP Conference Proceedings, 1995, , .	0.4	3
140	Propagation of Intense Subpicosecond Laser Pulses through Underdense Plasmas. Physical Review Letters, 1995, 74, 4659-4662.	7.8	166
141	Nonlinear collisional absorption in laser-driven plasmas. Physics of Plasmas, 1994, 1, 4043-4049.	1.9	89
142	Group velocity of large amplitude electromagnetic waves in a plasma. Physical Review Letters, 1994, 72, 490-493.	7.8	86
143	Raman forward scattering of short-pulse high-intensity lasers. Physical Review Letters, 1994, 72, 1482-1485.	7.8	223
144	Acceleration of injected electrons by the plasma beat wave accelerator. AIP Conference Proceedings, 1992, , .	0.4	4

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145	Wavebreaking of longitudinal plasma oscillations. <i>Physica Scripta</i> , 1990, T30, 127-133.	2.5	47
146	Studies of relativistic wave-particle interactions in plasma-based collective accelerators. <i>Laser and Particle Beams</i> , 1990, 8, 427-449.	1.0	22
147	Photon accelerator. <i>Physical Review Letters</i> , 1989, 62, 2600-2603.	7.8	272
148	On Beat Wave Excitation of Relativistic Plasma Waves. <i>IEEE Transactions on Plasma Science</i> , 1987, 15, 88-106.	1.3	51
149	Electrostatic Mode Coupling of Beat-Excited Electron Plasma Waves. <i>IEEE Transactions on Plasma Science</i> , 1987, 15, 107-130.	1.3	22
150	Saturation of Beat-Excited Plasma Waves by Electrostatic Mode Coupling. <i>Physical Review Letters</i> , 1986, 56, 2629-2632.	7.8	69
151	Ultrahigh gradient particle acceleration by intense laser-driven plasma density waves. <i>Nature</i> , 1984, 311, 525-529.	27.8	256
152	Kinetics of Particles in Relativistic Collisionless Shocks. <i>Geophysical Monograph Series</i> , 0, , 65-70.	0.1	0