

Carl B Schroeder

List of Publications by Year in descending order

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277
papers

13,742
citations

53794

45
h-index

21540

114
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281
all docs

281
docs citations

281
times ranked

3229
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics of laser-driven plasma-based electron accelerators. <i>Reviews of Modern Physics</i> , 2009, 81, 1229-1285.	45.6	1,989
2	High-quality electron beams from a laser wakefield accelerator using plasma-channel guiding. <i>Nature</i> , 2004, 431, 538-541.	27.8	1,773
3	GeV electron beams from a centimetre-scale accelerator. <i>Nature Physics</i> , 2006, 2, 696-699.	16.7	1,521
4	Multi-GeV Electron Beams from Capillary-Discharge-Guided Subpetawatt Laser Pulses in the Self-Trapping Regime. <i>Physical Review Letters</i> , 2014, 113, 245002.	7.8	767
5	Petawatt Laser Guiding and Electron Beam Acceleration to 8ÅGeV in a Laser-Heated Capillary Discharge Waveguide. <i>Physical Review Letters</i> , 2019, 122, 084801.	7.8	557
6	Observation of Terahertz Emission from a Laser-Plasma Accelerated Electron Bunch Crossing a Plasma-Vacuum Boundary. <i>Physical Review Letters</i> , 2003, 91, 074802.	7.8	327
7	Plasma-Density-Gradient Injection of Low Absolute-Momentum-Spread Electron Bunches. <i>Physical Review Letters</i> , 2008, 100, 215004.	7.8	315
8	Tunable laser plasma accelerator based on longitudinal density tailoring. <i>Nature Physics</i> , 2011, 7, 862-866.	16.7	291
9	Multistage coupling of independent laser-plasma accelerators. <i>Nature</i> , 2016, 530, 190-193.	27.8	250
10	Physics considerations for laser-plasma linear colliders. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2010, 13, .	1.8	242
11	Compact X-ray Free-Electron Laser from a Laser-Plasma Accelerator Using a Transverse-Gradient Undulator. <i>Physical Review Letters</i> , 2012, 109, 204801.	7.8	183
12	Temporal Characterization of Femtosecond Laser-Plasma-Accelerated Electron Bunches Using Terahertz Radiation. <i>Physical Review Letters</i> , 2006, 96, 014801.	7.8	160
13	Low-Emittance Electron Bunches from a Laser-Plasma Accelerator Measured using Single-Shot X-Ray Spectroscopy. <i>Physical Review Letters</i> , 2012, 109, 064802.	7.8	155
14	Electron-Yield Enhancement in a Laser-Wakefield Accelerator Driven by Asymmetric Laser Pulses. <i>Physical Review Letters</i> , 2002, 89, 174802.	7.8	152
15	Active Plasma Lensing for Relativistic Laser-Plasma-Accelerated Electron Beams. <i>Physical Review Letters</i> , 2015, 115, 184802.	7.8	147
16	Theory of coherent transition radiation generated at a plasma-vacuum interface. <i>Physical Review E</i> , 2004, 69, 016501.	2.1	136
17	Theory of ionization-induced trapping in laser-plasma accelerators. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	135
18	Demonstration Scheme for a Laser-Plasma-Driven Free-Electron Laser. <i>Physical Review X</i> , 2012, 2, .	8.9	129

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19	GeV electron beams from a centimeter-scale channel guided laser wakefield accelerator. <i>Physics of Plasmas</i> , 2007, 14, 056708.	1.9	118
20	Electromagnetic cascade in high-energy electron, positron, and photon interactions with intense laser pulses. <i>Physical Review A</i> , 2013, 87, .	2.5	110
21	Beat wave injection of electrons into plasma waves using two interfering laser pulses. <i>Physical Review E</i> , 2004, 70, 016402.	2.1	107
22	Terahertz radiation from laser accelerated electron bunches. <i>Physics of Plasmas</i> , 2004, 11, 2899-2906.	1.9	106
23	Two-Color Laser-Ionization Injection. <i>Physical Review Letters</i> , 2014, 112, 125001.	7.8	96
24	Nonlinear Theory of Nonparaxial Laser Pulse Propagation in Plasma Channels. <i>Physical Review Letters</i> , 2000, 84, 3081-3084.	7.8	88
25	Multimode Analysis of the Hollow Plasma Channel Wakefield Accelerator. <i>Physical Review Letters</i> , 1999, 82, 1177-1180.	7.8	75
26	Guiding of Relativistic Laser Pulses by Preformed Plasma Channels. <i>Physical Review Letters</i> , 2005, 95, 145002.	7.8	72
27	Quasi-monoenergetic femtosecond photon sources from Thomson Scattering using laser plasma accelerators and plasma channels. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 234013.	1.5	66
28	Growth and Phase Velocity of Self-Modulated Beam-Driven Plasma Waves. <i>Physical Review Letters</i> , 2011, 107, 145002.	7.8	65
29	EuPRAXIA Conceptual Design Report. <i>European Physical Journal: Special Topics</i> , 2020, 229, 3675-4284.	2.6	64
30	Multistage Coupling of Laser-Wakefield Accelerators with Curved Plasma Channels. <i>Physical Review Letters</i> , 2018, 120, 154801.	7.8	63
31	Nonlinear laser energy depletion in laser-plasma accelerators. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	62
32	Generation of ultrashort electron bunches by colliding laser pulses. <i>Physical Review E</i> , 1999, 59, 6037-6047.	2.1	60
33	Horizon 2020 EuPRAXIA design study. <i>Journal of Physics: Conference Series</i> , 2017, 874, 012029.	0.4	60
34	Radiative damping and electron beam dynamics in plasma-based accelerators. <i>Physical Review E</i> , 2006, 74, 026501.	2.1	59
35	Laser-driven plasma-based accelerators: Wakefield excitation, channel guiding, and laser triggered particle injection. <i>Physics of Plasmas</i> , 1998, 5, 1615-1623.	1.9	57
36	Production of high-quality electron bunches by dephasing and beam loading in channeled and unchanneled laser plasma accelerators. <i>Physics of Plasmas</i> , 2005, 12, 056709.	1.9	57

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37	Tapered plasma channels to phase-lock accelerating and focusing forces in laser-plasma accelerators. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	57
38	Numerical modeling of laser tunneling ionization in explicit particle-in-cell codes. <i>Journal of Computational Physics</i> , 2013, 236, 220-228.	3.8	56
39	Compact quasi-monoenergetic photon sources from laser-plasma accelerators for nuclear detection and characterization. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 350, 116-121.	1.4	56
40	Frequency chirp and pulse shape effects in self-modulated laser wakefield accelerators. <i>Physics of Plasmas</i> , 2003, 10, 2039-2046.	1.9	54
41	Modeling classical and quantum radiation from laser-plasma accelerators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	54
42	Numerical investigation of electron self-injection in the nonlinear bubble regime. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	53
43	Nonlinear Pulse Propagation and Phase Velocity of Laser-Driven Plasma Waves. <i>Physical Review Letters</i> , 2011, 106, 135002.	7.8	52
44	HiPACE: a quasi-static particle-in-cell code. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 084012.	2.1	52
45	Radiation pressure acceleration: The factors limiting maximum attainable ion energy. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	48
46	Measured Emittance Dependence on the Injection Method in Laser Plasma Accelerators. <i>Physical Review Letters</i> , 2017, 119, 104801.	7.8	46
47	Laser-induced electron trapping in plasma-based accelerators. <i>Physics of Plasmas</i> , 1999, 6, 2262-2268.	1.9	44
48	Control of focusing fields in laser-plasma accelerators using higher-order modes. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, .	1.8	44
49	Quasi-matched propagation of ultra-short, intense laser pulses in plasma channels. <i>Physics of Plasmas</i> , 2012, 19, 053101.	1.9	44
50	Plasma Undulator Based on Laser Excitation of Wakefields in a Plasma Channel. <i>Physical Review Letters</i> , 2015, 114, 145003.	7.8	44
51	Trapping, dark current, and wave breaking in nonlinear plasma waves. <i>Physics of Plasmas</i> , 2006, 13, 033103.	1.9	43
52	Controlling the spectral shape of nonlinear Thomson scattering with proper laser chirping. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	43
53	Warm wave breaking of nonlinear plasma waves with arbitrary phase velocities. <i>Physical Review E</i> , 2005, 72, 055401.	2.1	42
54	Laser-heater assisted plasma channel formation in capillary discharge waveguides. <i>Physics of Plasmas</i> , 2013, 20, 020703.	1.9	42

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55	Acceleration and evolution of a hollow electron beam in wakefields driven by a Laguerre-Gaussian laser pulse. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	42
56	Control of tunable, monoenergetic laser-plasma-accelerated electron beams using a shock-induced density downramp injector. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	42
57	Quantum effects in high-gain free-electron lasers. <i>Physical Review E</i> , 2001, 64, 056502.	2.1	41
58	Unphysical kinetic effects in particle-in-cell modeling of laser wakefield accelerators. <i>Physical Review E</i> , 2008, 78, 016404.	2.1	41
59	The BErkeley Lab Laser Accelerator (BELLA): A 10 GeV Laser Plasma Accelerator. , 2010, , .		41
60	Modeling of 10 GeV-1 TeV laser-plasma accelerators using Lorentz boosted simulations. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	41
61	Single-shot spatiotemporal measurements of high-field terahertz pulses. <i>Optics Letters</i> , 2007, 32, 313.	3.3	40
62	Betatron radiation from density tailored plasmas. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	40
63	Beamstrahlung considerations in laser-plasma-accelerator-based linear colliders. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	40
64	Control of focusing forces and emittances in plasma-based accelerators using near-hollow plasma channels. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	40
65	Nonuniform discharge currents in active plasma lenses. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	40
66	Radiation from laser accelerated electron bunches: coherent terahertz and femtosecond X-rays. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 8-22.	1.3	37
67	Thermal emittance from ionization-induced trapping in plasma accelerators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	37
68	Efficient Modeling of Laser-Plasma Accelerators with INF&RNO. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	36
69	Generation and pointing stabilization of multi-GeV electron beams from a laser plasma accelerator	1.9	36
70	Coupled beam hose and self-modulation instabilities in overdense plasma. <i>Physical Review E</i> , 2012, 86, 026402.	2.1	35
71	Ion acceleration from thin foil and extended plasma targets by slow electromagnetic wave and related ion-ion beam instability. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	32
72	Enhancement of Maximum Attainable Ion Energy in the Radiation Pressure Acceleration Regime Using a Guiding Structure. <i>Physical Review Letters</i> , 2015, 114, 105003.	7.8	32

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73	Ion acceleration in laser generated megatesla magnetic vortex. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	32
74	Positron transport and acceleration in beam-driven plasma wakefield accelerators using plasma columns. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	31
75	Improvement of electron beam quality in optical injection schemes using negative plasma density gradients. <i>Physical Review E</i> , 2006, 73, 026402.	2.1	30
76	Optimized laser pulse profile for efficient radiation pressure acceleration of ions. <i>Physics of Plasmas</i> , 2012, 19, 093112.	1.9	29
77	Laser red shifting based characterization of wakefield excitation in a laser-plasma accelerator. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	29
78	Electron injection and emittance control by transverse colliding pulses in a laser-plasma accelerator. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	29
79	Control of quasi-monoenergetic electron beams from laser-plasma accelerators with adjustable shock density profile. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	29
80	Helium-3 and helium-4 acceleration by high power laser pulses for hadron therapy. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015, 18, .	1.8	28
81	An accurate and efficient laser-envelope solver for the modeling of laser-plasma accelerators. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014002.	2.1	27
82	Plasma channel diagnostic based on laser centroid oscillations. <i>Physics of Plasmas</i> , 2010, 17, 056706.	1.9	26
83	Emittance preservation in plasma-based accelerators with ion motion. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	26
84	Raman forward scattering of chirped laser pulses. <i>Physics of Plasmas</i> , 2003, 10, 285-295.	1.9	24
85	Laser beam coupling with capillary discharge plasma for laser wakefield acceleration applications. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	24
86	Saturation of the Hosing Instability in Quasilinear Plasma Accelerators. <i>Physical Review Letters</i> , 2017, 119, 244801.	7.8	24
87	Suppression of Beam Hosing in Plasma Accelerators with Ion Motion. <i>Physical Review Letters</i> , 2018, 121, 264802.	7.8	24
88	Pulse shape and spectrum of coherent diffraction-limited transition radiation from electron beams. <i>Laser and Particle Beams</i> , 2004, 22, 415-422.	1.0	23
89	Relativistic spherical plasma waves. <i>Physics of Plasmas</i> , 2012, 19, 020702.	1.9	23
90	Plasma wakefields driven by an incoherent combination of laser pulses: A path towards high-average power laser-plasma accelerators. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	23

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91	A new platform for ultra-high dose rate radiobiological research using the BELLA PW laser proton beamline. <i>Scientific Reports</i> , 2022, 12, 1484.	3.3	23
92	Group velocity and pulse lengthening of mismatched laser pulses in plasma channels. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	22
93	On the breaking of a plasma wave in a thermal plasma. I. The structure of the density singularity. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	22
94	Beam loading in a laser-plasma accelerator using a near-hollow plasma channel. <i>Physics of Plasmas</i> , 2013, 20, 123115.	1.9	22
95	Staging of laser-plasma accelerators. <i>Physics of Plasmas</i> , 2016, 23, 056705.	1.9	22
96	Tuning of laser pulse shapes in grating-based compressors for optimal electron acceleration in plasmas. <i>Optics Letters</i> , 2003, 28, 1823.	3.3	21
97	Relativistic warm plasma theory of nonlinear laser-driven electron plasma waves. <i>Physical Review E</i> , 2010, 81, 056403.	2.1	21
98	Coherent seeding of self-modulated plasma wakefield accelerators. <i>Physics of Plasmas</i> , 2013, 20, 056704.	1.9	21
99	Pulse evolution and plasma-wave phase velocity in channel-guided laser-plasma accelerators. <i>Physical Review E</i> , 2015, 92, 023109.	2.1	21
100	Laser-heated capillary discharge plasma waveguides for electron acceleration to 8 GeV. <i>Physics of Plasmas</i> , 2020, 27, 053102.	1.9	21
101	Acceleration of high charge ion beams with achromatic divergence by petawatt laser pulses. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	21
102	Space-charge effects in ultrahigh current electron bunches generated by laser-plasma accelerators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009, 12, .	1.8	20
103	High-quality positron acceleration in beam-driven plasma accelerators. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	20
104	Terahertz radiation as a bunch diagnostic for laser-wakefield-accelerated electron bunches. <i>Physics of Plasmas</i> , 2006, 13, 056704.	1.9	19
105	Tunable polarization plasma channel undulator for narrow bandwidth photon emission. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	19
106	Long-Range Persistence of Femtosecond Modulations on Laser-Plasma-Accelerated Electron Beams. <i>Physical Review Letters</i> , 2012, 108, 094801.	7.8	18
107	Particle beam self-modulation instability in tapered and inhomogeneous plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	18
108	Fluid and Vlasov models of low-temperature, collisionless, relativistic plasma interactions. <i>Physics of Plasmas</i> , 2005, 12, 056710.	1.9	17

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109	Spectroscopy of betatron radiation emitted from laser-produced wakefield accelerated electrons. <i>Review of Scientific Instruments</i> , 2010, 81, 10E325.	1.3	17
110	On the breaking of a plasma wave in a thermal plasma. II. Electromagnetic wave interaction with the breaking plasma wave. <i>Physics of Plasmas</i> , 2012, 19, 113103.	1.9	17
111	Measurement of the laser-pulse group velocity in plasma waveguides. <i>Physical Review E</i> , 2014, 89, 063103.	2.1	17
112	Comparative study of active plasma lenses in high-quality electron accelerator transport lines. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	17
113	Simulation of electron postacceleration in a two-stage laser wakefield accelerator. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2002, 5, .	1.8	16
114	Thermal effects in plasma-based accelerators. <i>Physics of Plasmas</i> , 2007, 14, 056707.	1.9	16
115	High-peak-power surface high-harmonic generation at extreme ultra-violet wavelengths from a tape. <i>Journal of Applied Physics</i> , 2013, 114, 043106.	2.5	16
116	Control of focusing fields for positron acceleration in nonlinear plasma wakes using multiple laser modes. <i>Physics of Plasmas</i> , 2014, 21, 120702.	1.9	16
117	Free-electron lasers driven by laser plasma accelerators. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	16
118	Multiple colliding laser pulses as a basis for studying high-field high-energy physics. <i>Physical Review A</i> , 2019, 100, .	2.5	15
119	Laser guiding for GeV laser-plasma accelerators. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 585-600.	3.4	14
120	Passive and active plasma deceleration for the compact disposal of electron beams. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	14
121	Detecting radiation reaction at moderate laser intensities. <i>Physical Review E</i> , 2015, 91, 023207.	2.1	14
122	Plasma channel undulator excited by high-order laser modes. <i>Scientific Reports</i> , 2017, 7, 16884.	3.3	14
123	Plasma equilibrium inside various cross-section capillary discharges. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	14
124	Direct measurement of focusing fields in active plasma lenses. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	1.6	14
125	Electron-Beam Conditioning by Thomson Scattering. <i>Physical Review Letters</i> , 2004, 93, 194801.	7.8	13
126	Computational studies and optimization of wakefield accelerators. <i>Journal of Physics: Conference Series</i> , 2008, 125, 012002.	0.4	13

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127	Free electron lasers driven by plasma accelerators: status and near-term prospects. High Power Laser Science and Engineering, 2021, 9, .	4.6	13
128	GeV plasma accelerators driven in waveguides. Plasma Physics and Controlled Fusion, 2007, 49, B403-B410.	2.1	12
129	Plasma density diagnostic for capillary-discharge based plasma channels. Physics of Plasmas, 2015, 22, .	1.9	12
130	Accurate modeling of the hose instability in plasma wakefield accelerators. Physics of Plasmas, 2018, 25, 056703.	1.9	12
131	Density characterization of discharged gas-filled capillaries through common-path two-color spectral-domain interferometry. Optics Letters, 2018, 43, 2776.	3.3	12
132	Scaled simulations of a 10 GeV accelerator. , 2009, , .		11
133	Observation of the Self-Modulation Instability via Time-Resolved Measurements. Physical Review Letters, 2018, 120, 144802.	7.8	11
134	Status of the Horizon 2020 EuPRAXIA conceptual design study*. Journal of Physics: Conference Series, 2019, 1350, 012059.	0.4	11
135	Emittance growth due to misalignment in multistage laser-plasma accelerators. Physical Review Accelerators and Beams, 2019, 22, .	1.6	11
136	High-sensitivity plasma density retrieval in a common-path second-harmonic interferometer through simultaneous group and phase velocity measurement. Physics of Plasmas, 2019, 26, 023106.	1.9	10
137	Laser and electron deflection from transverse asymmetries in laser-plasma accelerators. Physical Review E, 2019, 100, 063208.	2.1	10
138	Nonlinear Pump Depletion and Electron Dephasing in Laser Wakefield Accelerators. AIP Conference Proceedings, 2004, , .	0.4	9
139	Efficient electron injection into plasma waves using higher-order laser modes. Physics of Plasmas, 2006, 13, 113112.	1.9	9
140	Dynamics of boundary layer electrons around a laser wakefield bubble. Physics of Plasmas, 2016, 23, .	1.9	9
141	Modeling of emittance growth due to Coulomb collisions in plasma-based accelerators. Physics of Plasmas, 2020, 27, 113105.	1.9	9
142	Laser-heated capillary discharge waveguides as tunable structures for laser-plasma acceleration. Physics of Plasmas, 2020, 27, .	1.9	9
143	Pulse front tilt steering in laser plasma accelerators. Physical Review Accelerators and Beams, 2019, 22, .	1.6	9
144	Eigenmode analysis of a high-gain free-electron laser based on a transverse gradient undulator. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	9

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145	High-harmonic generation in cavitated plasmas. <i>Physics of Plasmas</i> , 2008, 15, 056704.	1.9	8
146	Design considerations for a laser-plasma linear collider. , 2009, , .		8
147	Efficient modeling of laser-plasma accelerator staging experiments using INF&RNO. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	8
148	Radial density profile and stability of capillary discharge plasma waveguides of lengths up to 40 cm. <i>High Power Laser Science and Engineering</i> , 2021, 9, .	4.6	8
149	Stable electron beam propagation in a plasma column. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	8
150	Efficiency considerations for high-energy physics applications of laser-plasma accelerators. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	7
151	EuPRAXIA â€“ a compact, cost-efficient particle and radiation source. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	7
152	Free-electron laser driven by the LBNL laser-plasma accelerator. , 2009, , .		6
153	Simulation of free-electron lasers seeded with broadband radiation. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, .	1.8	6
154	Ultra-low emittance electron beams from two-color laser-ionization injection. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	6
155	On production and asymmetric focusing of flat electron beams using rectangular capillary discharge plasmas. <i>Physics of Plasmas</i> , 2017, 24, 123120.	1.9	6
156	A compact, high resolution energy, and emittance diagnostic for electron beams using active plasma lenses. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	6
157	Plasma-driven ultrashort bunch diagnostics. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	6
158	Powerful pulsed THz radiation from laser-accelerated relativistic electron bunches. , 2004, , .		5
159	Comment on â€œWave-breaking limits for relativistic electrostatic waves in a one-dimensional warm plasmaâ€•[<i>Phys. Plasmas</i> 13, 123102 (2006)]. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	5
160	Laser wakefield simulations towards development of compact particle accelerators. <i>Journal of Physics: Conference Series</i> , 2007, 78, 012021.	0.4	5
161	New Developments in the Simulation of Advanced Accelerator Concepts. , 2009, , .		5
162	On the design of experiments to study extreme field limits. , 2013, , .		5

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163	Transverse Space-Charge Field-Induced Plasma Dynamics for Ultraintense Electron-Beam Characterization. <i>Physical Review X</i> , 2018, 8, .	8.9	5
164	Adiabatic matching of particle bunches in a plasma-based accelerator in the presence of ion motion. <i>Physics of Plasmas</i> , 2021, 28, 053102.	1.9	5
165	Accuracy of the time-averaged ponderomotive approximation for laser-plasma accelerator modeling. <i>Physics of Plasmas</i> , 2021, 28, 063105.	1.9	5
166	Flexible x-ray source with tunable polarization and orbital angular momentum from Hermite-Gaussian laser modes driven plasma channel wakefield. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	5
167	Physical Fidelity in Particle-In-Cell Modeling of Small Debye-Length Plasmas. , 2009, , .		4
168	Laser wakefield simulation using a speed-of-light frame envelope model. , 2009, , .		4
169	Transport and phase-space manipulation of laser-plasma accelerated electron beams using active plasma lenses. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
170	Filtering higher-order laser modes using leaky plasma channels. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	4
171	Parametric emittance measurements of electron beams produced by a laser plasma accelerator. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054015.	2.1	4
172	Creation of an axially uniform plasma channel in a laser-assisted capillary discharge. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	4
173	THz-driven split ring resonator undulator. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	4
174	THz-driven surface plasmon undulator as a compact highly directional narrow band incoherent x-ray source. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	4
175	Emittance preserving thin film plasma mirrors for GeV scale laser plasma accelerators. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	4
176	Thomson scattering from laser wakefield accelerators. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	3
177	Staging Laser Plasma Accelerators for Increased Beam Energy. , 2009, , .		3
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