

Brendan Dromey

List of Publications by Year in descending order

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79
papers

3,800
citations

147801

31
h-index

123424

61
g-index

80
all docs

80
docs citations

80
times ranked

2207
citing authors

#	ARTICLE	IF	CITATIONS
1	High harmonic generation in the relativistic limit. <i>Nature Physics</i> , 2006, 2, 456-459.	16.7	418
2	Bright Multi-keV Harmonic Generation from Relativistically Oscillating Plasma Surfaces. <i>Physical Review Letters</i> , 2007, 99, 085001.	7.8	201
3	The plasma mirror—A subpicosecond optical switch for ultrahigh power lasers. <i>Review of Scientific Instruments</i> , 2004, 75, 645-649.	1.3	200
4	Attosecond phase locking of harmonics emitted from laser-produced plasmas. <i>Nature Physics</i> , 2009, 5, 124-128.	16.7	179
5	Ion Acceleration Using Relativistic Pulse Shaping in Near-Critical-Density Plasmas. <i>Physical Review Letters</i> , 2015, 115, 064801.	7.8	168
6	Dynamics of relativistic transparency and optical shuttering in expanding overdense plasmas. <i>Nature Physics</i> , 2012, 8, 763-769.	16.7	155
7	Table-Top Laser-Based Source of Femtosecond, Collimated, Ultrarelativistic Positron Beams. <i>Physical Review Letters</i> , 2013, 110, 255002.	7.8	149
8	Diffraction-limited performance and focusing of high harmonics from relativistic plasmas. <i>Nature Physics</i> , 2009, 5, 146-152.	16.7	146
9	Coherent synchrotron emission from electron nanobunches formed in relativistic laser–plasma interactions. <i>Nature Physics</i> , 2012, 8, 804-808.	16.7	132
10	Direct Observation of Density-Gradient Effects in Harmonic Generation from Plasma Mirrors. <i>Physical Review Letters</i> , 2013, 110, 175001.	7.8	120
11	Radiation-Pressure Acceleration of Ion Beams from Nanofoil Targets: The Leaky Light-Sail Regime. <i>Physical Review Letters</i> , 2010, 105, 155002.	7.8	111
12	Bright Quasi-Phase-Matched Soft-X-Ray Harmonic Radiation from Argon Ions. <i>Physical Review Letters</i> , 2007, 99, 143901.	7.8	109
13	Harmonic Generation from Relativistic Plasma Surfaces in Ultrasteep Plasma Density Gradients. <i>Physical Review Letters</i> , 2012, 109, 125002.	7.8	99
14	Dynamic Control of Laser-Produced Proton Beams. <i>Physical Review Letters</i> , 2008, 100, 105004.	7.8	80
15	Picosecond metrology of laser-driven proton bursts. <i>Nature Communications</i> , 2016, 7, 10642.	12.8	80
16	Relativistic electron mirrors from nanoscale foils for coherent frequency upshift to the extreme ultraviolet. <i>Nature Communications</i> , 2013, 4, 1763.	12.8	75
17	Coherent Control of High Harmonic Generation via Dual-Gas Multijet Arrays. <i>Physical Review Letters</i> , 2011, 107, 175002.	7.8	73
18	Generation of a train of ultrashort pulses from a compact birefringent crystal array. <i>Applied Optics</i> , 2007, 46, 5142.	2.1	67

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19	Soft-X-Ray Harmonic Comb from Relativistic Electron Spikes. <i>Physical Review Letters</i> , 2012, 108, 135004.	7.8	66
20	Efficient carbon ion beam generation from laser-driven volume acceleration. <i>New Journal of Physics</i> , 2013, 15, 023007.	2.9	66
21	Laser-driven 1â€‰GeV carbon ions from preheated diamond targets in the break-out afterburner regime. <i>Physics of Plasmas</i> , 2013, 20, 083103.	1.9	65
22	Experimental demonstration of particle energy, conversion efficiency and spectral shape required for ion-based fast ignition. <i>Nuclear Fusion</i> , 2011, 51, 083011.	3.5	57
23	Dependence of Laser-Driven Coherent Synchrotron Emission Efficiency on Pulse Ellipticity and Implications for Polarization Gating. <i>Physical Review Letters</i> , 2014, 112, 123902.	7.8	45
24	Experimental observation of attosecond control over relativistic electron bunches with two-colour fields. <i>Nature Photonics</i> , 2017, 11, 32-35.	31.4	44
25	Beam profiles of proton and carbon ions in the relativistic transparency regime. <i>New Journal of Physics</i> , 2013, 15, 123035.	2.9	43
26	High contrast plasma mirror: spatial filtering and second harmonic generation at 10^{19} W/cm ² . <i>New Journal of Physics</i> , 2008, 10, 083002.	2.9	38
27	Noncollinear Polarization Gating of Attosecond Pulse Trains in the Relativistic Regime. <i>Physical Review Letters</i> , 2015, 115, 193903.	7.8	34
28	Diagnostic of laser contrast using target reflectivity. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	33
29	Laser-driven generation of collimated ultra-relativistic positron beams. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124017.	2.1	33
30	Temporal Structure of Attosecond Pulses from Laser-Driven Coherent Synchrotron Emission. <i>Physical Review Letters</i> , 2016, 116, 083901.	7.8	32
31	The TARANIS laser: A multi-Terawatt system for laser-plasma investigations. <i>Laser and Particle Beams</i> , 2010, 28, 451-461.	1.0	31
32	Measurements of high-energy radiation generation from laser-wakefield accelerated electron beams. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	31
33	Quasi-phasematching of harmonic generation via multimode beating in waveguides. <i>Optics Express</i> , 2007, 15, 7894.	3.4	29
34	Tunable Enhancement of High Harmonic Emission from Laser Solid Interactions. <i>Physical Review Letters</i> , 2009, 102, 225002.	7.8	29
35	Dependence of laser accelerated protons on laser energy following the interaction of defocused, intense laser pulses with ultra-thin targets. <i>Laser and Particle Beams</i> , 2011, 29, 345-351.	1.0	29
36	Coherent synchrotron emission in transmission from ultrathin relativistic laser plasmas. <i>New Journal of Physics</i> , 2013, 15, 015025.	2.9	29

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37	Relativistic plasma surfaces as an efficient second harmonic generator. <i>New Journal of Physics</i> , 2011, 13, 023041.	2.9	27
38	Conditions for efficient and stable ion acceleration by moderate circularly polarized laser pulses at intensities of 1020W/cm ² . <i>Physics of Plasmas</i> , 2011, 18, 043102.	1.9	27
39	Nuclear activation as a high dynamic range diagnostic of laser-plasma interactions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 585, 117-120.	1.6	26
40	High order harmonics from relativistic electron spikes. <i>New Journal of Physics</i> , 2014, 16, 093003.	2.9	26
41	Temporal characterization of attosecond pulses emitted from solid-density plasmas. <i>New Journal of Physics</i> , 2010, 12, 043020.	2.9	25
42	Older adults, falls and technologies for independent living: a life space approach. <i>Ageing and Society</i> , 2011, 31, 829-848.	1.7	24
43	Bright Subcycle Extreme Ultraviolet Bursts from a Single Dense Relativistic Electron Sheet. <i>Physical Review Letters</i> , 2014, 113, 235002.	7.8	22
44	Beaming of High-Order Harmonics Generated from Laser-Plasma Interactions. <i>Physical Review Letters</i> , 2013, 110, 165002.	7.8	21
45	Enhanced proton flux in the MeV range by defocused laser irradiation. <i>New Journal of Physics</i> , 2010, 12, 085012.	2.9	20
46	Generation of 10 ¹⁴ W relativistic surface high-harmonic radiation at a repetition rate of 10 Hz. <i>New Journal of Physics</i> , 2012, 14, 065005.	2.9	20
47	Third harmonic order imaging as a focal spot diagnostic for high intensity laser-solid interactions. <i>Laser and Particle Beams</i> , 2009, 27, 243-248.	1.0	19
48	Observation of ion temperatures exceeding background electron temperatures in petawatt laser-solid experiments. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, L49-L56.	2.1	17
49	Coherent x-ray production via pulse reflection from laser-driven dense electron sheets. <i>New Journal of Physics</i> , 2009, 11, 103042.	2.9	16
50	Experimental measurements of the collisional absorption of XUV radiation in warm dense aluminium. <i>Physical Review E</i> , 2016, 94, 023203.	2.1	16
51	Controlling the divergence of high harmonics from solid targets: a route toward coherent harmonic focusing. <i>European Physical Journal D</i> , 2009, 55, 475-481.	1.3	15
52	Scaling of ion energies in the relativistic-induced transparency regime. <i>Laser and Particle Beams</i> , 2015, 33, 695-703.	1.0	15
53	Efficient control of quantum paths via dual-gas high harmonic generation. <i>New Journal of Physics</i> , 2011, 13, 113001.	2.9	14
54	Simple technique for generating trains of ultrashort pulses. <i>Optics Letters</i> , 2007, 32, 2203.	3.3	13

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55	Spectral modification of laser-accelerated proton beams by self-generated magnetic fields. <i>New Journal of Physics</i> , 2009, 11, 083018.	2.9	13
56	Micron-scale fast electron filaments and recirculation determined from rear-side optical emission in high-intensity laser–solid interactions. <i>New Journal of Physics</i> , 2010, 12, 073016.	2.9	13
57	Near-monochromatic high-harmonic radiation from relativistic laser–plasma interactions with blazed grating surfaces. <i>New Journal of Physics</i> , 2013, 15, 025042.	2.9	13
58	Fast-electron refluxing effects on anisotropic hard-x-ray emission from intense laser-plasma interactions. <i>Physical Review E</i> , 2015, 91, 033107.	2.1	13
59	Fast electron propagation in Ti foils irradiated with sub-picosecond laser pulses at $1.018 \times 10^{18} \text{ W cm}^{-2}$. <i>Physics of Plasmas</i> , 2014, 21, 023113.	1.9	12
60	Experimental investigation of picosecond dynamics following interactions between laser accelerated protons and water. <i>Applied Physics Letters</i> , 2017, 110, 104102.	3.3	12
61	High harmonics from relativistically oscillating plasma surfaces—a high brightness attosecond source at keV photon energies. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B149-B162.	2.1	11
62	Comparison of parallel and perpendicular polarized counterpropagating light for suppressing high harmonic generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 2421.	2.1	11
63	Plasma surface dynamics and smoothing in the relativistic few-cycle regime. <i>New Journal of Physics</i> , 2011, 13, 023008.	2.9	11
64	First observation of SASE radiation using the compact wide-spectral-range XUV spectrometer at FLASH2. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 830, 170-175.	1.6	8
65	Fear of Falling and Older Adult Peer Production of Audio-Visual Discussion Material. <i>Educational Gerontology</i> , 2010, 36, 781-797.	1.3	4
66	On the analysis of inhomogeneous magnetic field spectrometer for laser-driven ion acceleration. <i>Review of Scientific Instruments</i> , 2015, 86, 033303.	1.3	4
67	Diagnostics for studies of novel laser ion acceleration mechanisms. <i>Review of Scientific Instruments</i> , 2014, 85, 113302.	1.3	3
68	Broadband XUV polarimetry of high harmonics from plasma surfaces using multiple Fresnel reflections. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 241-245.	2.2	3
69	Strong coupling of light goes nuclear. <i>Nature Photonics</i> , 2016, 10, 436-438.	31.4	3
70	Real-Time Electron Solvation Induced by Bursts of Laser-Accelerated Protons in Liquid Water. <i>Physical Review Letters</i> , 2021, 127, 186001.	7.8	3
71	A table-top laser-based source of short, collimated, ultra-relativistic positron beams. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
72	The TARANIS laser : A multi-terawatt system for laser plasma physics. <i>Journal of Physics: Conference Series</i> , 2012, 388, 152036.	0.4	1

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73	Relativistic high harmonic generation in gas jet targets. , 2012, , .		1
74	High brightness keV harmonics from relativistically oscillating plasma surfaces. European Physical Journal: Special Topics, 2009, 175, 57-60.	2.6	0
75	Ultrabright attosecond sources from relativistically oscillating mirrors. Proceedings of SPIE, 2009, , .	0.8	0
76	A new XUV-source for seeding a FEL at high repetition rates. Proceedings of SPIE, 2011, , .	0.8	0
77	High-order harmonics from bow wave caustics driven by a high-intensity laser. , 2012, , .		0
78	Design and results of a dual-gas quasi-phase matching (QPM) foil target. , 2015, , .		0
79	Polarization Gating in Relativistic Laser-Solid Interactions. Springer Proceedings in Physics, 2016, , 127-132.	0.2	0