

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	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
2	Experimental observation of attosecond control over relativistic electron bunches with two-colour fields. <i>Nature Photonics</i> , 2017, 11, 32-35.	31.4	44
3	Experimental investigation of picosecond dynamics following interactions between laser accelerated protons and water. <i>Applied Physics Letters</i> , 2017, 110, 104102.	3.3	12
4	Picosecond metrology of laser-driven proton bursts. <i>Nature Communications</i> , 2016, 7, 10642.	12.8	80
5	Experimental measurements of the collisional absorption of XUV radiation in warm dense aluminium. <i>Physical Review E</i> , 2016, 94, 023203.	2.1	16
6	Temporal Structure of Attosecond Pulses from Laser-Driven Coherent Synchrotron Emission. <i>Physical Review Letters</i> , 2016, 116, 083901.	7.8	32
7	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
8	Strong coupling of light goes nuclear. <i>Nature Photonics</i> , 2016, 10, 436-438.	31.4	3
9	Polarization Gating in Relativistic Laser-Solid Interactions. <i>Springer Proceedings in Physics</i> , 2016, , 127-132.	0.2	0
10	Scaling of ion energies in the relativistic-induced transparency regime. <i>Laser and Particle Beams</i> , 2015, 33, 695-703.	1.0	15
11	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
12	Noncollinear Polarization Gating of Attosecond Pulse Trains in the Relativistic Regime. <i>Physical Review Letters</i> , 2015, 115, 193903.	7.8	34
13	Ion Acceleration Using Relativistic Pulse Shaping in Near-Critical-Density Plasmas. <i>Physical Review Letters</i> , 2015, 115, 064801.	7.8	168
14	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
15	Design and results of a dual-gas quasi-phase matching (QPM) foil target. , 2015, , .		0
16	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
17	Fast electron propagation in Ti foils irradiated with sub-picosecond laser pulses at 10^{18} W/cm ² . <i>Physics of Plasmas</i> , 2014, 21, 023113.	1.9	12
18	Diagnostics for studies of novel laser ion acceleration mechanisms. <i>Review of Scientific Instruments</i> , 2014, 85, 113302.	1.3	3

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19	Bright Subcycle Extreme Ultraviolet Bursts from a Single Dense Relativistic Electron Sheet. <i>Physical Review Letters</i> , 2014, 113, 235002.	7.8	22
20	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
21	High order harmonics from relativistic electron spikes. <i>New Journal of Physics</i> , 2014, 16, 093003.	2.9	26
22	Measurements of high-energy radiation generation from laser-wakefield accelerated electron beams. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	31
23	Direct Observation of Density-Gradient Effects in Harmonic Generation from Plasma Mirrors. <i>Physical Review Letters</i> , 2013, 110, 175001.	7.8	120
24	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
25	Near-monochromatic high-harmonic radiation from relativistic laserâ€“plasma interactions with blazed grating surfaces. <i>New Journal of Physics</i> , 2013, 15, 025042.	2.9	13
26	Relativistic electron mirrors from nanoscale foils for coherent frequency upshift to the extreme ultraviolet. <i>Nature Communications</i> , 2013, 4, 1763.	12.8	75
27	Beam profiles of proton and carbon ions in the relativistic transparency regime. <i>New Journal of Physics</i> , 2013, 15, 123035.	2.9	43
28	Coherent synchrotron emission in transmission from ultrathin relativistic laser plasmas. <i>New Journal of Physics</i> , 2013, 15, 015025.	2.9	29
29	Table-Top Laser-Based Source of Femtosecond, Collimated, Ultrarelativistic Positron Beams. <i>Physical Review Letters</i> , 2013, 110, 255002.	7.8	149
30	Efficient carbon ion beam generation from laser-driven volume acceleration. <i>New Journal of Physics</i> , 2013, 15, 023007.	2.9	66
31	A table-top laser-based source of short, collimated, ultra-relativistic positron beams. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
32	Beaming of High-Order Harmonics Generated from Laser-Plasma Interactions. <i>Physical Review Letters</i> , 2013, 110, 165002.	7.8	21
33	Laser-driven generation of collimated ultra-relativistic positron beams. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124017.	2.1	33
34	Generation of 10<i>W</i> relativistic surface high-harmonic radiation at a repetition rate of 10 Hz. <i>New Journal of Physics</i> , 2012, 14, 065005.	2.9	20
35	High-order harmonics from bow wave caustics driven by a high-intensity laser. , 2012, , .		0
36	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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37	Relativistic high harmonic generation in gas jet targets. , 2012, , .		1
38	Coherent synchrotron emission from electron nanobunches formed in relativistic laser-plasma interactions. Nature Physics, 2012, 8, 804-808.	16.7	132
39	Dynamics of relativistic transparency and optical shuttering in expanding overdense plasmas. Nature Physics, 2012, 8, 763-769.	16.7	155
40	Harmonic Generation from Relativistic Plasma Surfaces in Ultrasteep Plasma Density Gradients. Physical Review Letters, 2012, 109, 125002.	7.8	99
41	Soft-X-Ray Harmonic Comb from Relativistic Electron Spikes. Physical Review Letters, 2012, 108, 135004.	7.8	66
42	Coherent Control of High Harmonic Generation via Dual-Gas Multijet Arrays. Physical Review Letters, 2011, 107, 175002.	7.8	73
43	Experimental demonstration of particle energy, conversion efficiency and spectral shape required for ion-based fast ignition. Nuclear Fusion, 2011, 51, 083011.	3.5	57
44	Relativistic plasma surfaces as an efficient second harmonic generator. New Journal of Physics, 2011, 13, 023041.	2.9	27
45	Dependence of laser accelerated protons on laser energy following the interaction of defocused, intense laser pulses with ultra-thin targets. Laser and Particle Beams, 2011, 29, 345-351.	1.0	29
46	Efficient control of quantum paths via dual-gas high harmonic generation. New Journal of Physics, 2011, 13, 113001.	2.9	14
47	A new XUV-source for seeding a FEL at high repetition rates. Proceedings of SPIE, 2011, , .	0.8	0
48	Older adults, falls and technologies for independent living: a life space approach. Ageing and Society, 2011, 31, 829-848.	1.7	24
49	Plasma surface dynamics and smoothing in the relativistic few-cycle regime. New Journal of Physics, 2011, 13, 023008.	2.9	11
50	Conditions for efficient and stable ion acceleration by moderate circularly polarized laser pulses at intensities of 1020W/cm ² . Physics of Plasmas, 2011, 18, 043102.	1.9	27
51	The TARANIS laser: A multi-Terawatt system for laser-plasma investigations. Laser and Particle Beams, 2010, 28, 451-461.	1.0	31
52	Temporal characterization of attosecond pulses emitted from solid-density plasmas. New Journal of Physics, 2010, 12, 043020.	2.9	25
53	Enhanced proton flux in the MeV range by defocused laser irradiation. New Journal of Physics, 2010, 12, 085012.	2.9	20
54	Micron-scale fast electron filaments and recirculation determined from rear-side optical emission in high-intensity laser-solid interactions. New Journal of Physics, 2010, 12, 073016.	2.9	13

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55	Fear of Falling and Older Adult Peer Production of Audio-Visual Discussion Material. Educational Gerontology, 2010, 36, 781-797.	1.3	4
56	Radiation-Pressure Acceleration of Ion Beams from Nanofoil Targets: The Leaky Light-Sail Regime. Physical Review Letters, 2010, 105, 155002.	7.8	111
57	Diagnostic of laser contrast using target reflectivity. Applied Physics Letters, 2009, 94, .	3.3	33
58	Tunable Enhancement of High Harmonic Emission from Laser Solid Interactions. Physical Review Letters, 2009, 102, 225002.	7.8	29
59	Third harmonic order imaging as a focal spot diagnostic for high intensity laser-solid interactions. Laser and Particle Beams, 2009, 27, 243-248.	1.0	19
60	Spectral modification of laser-accelerated proton beams by self-generated magnetic fields. New Journal of Physics, 2009, 11, 083018.	2.9	13
61	Coherent x-ray production via pulse reflection from laser-driven dense electron sheets. New Journal of Physics, 2009, 11, 103042.	2.9	16
62	Attosecond phase locking of harmonics emitted from laser-produced plasmas. Nature Physics, 2009, 5, 124-128.	16.7	179
63	Diffraction-limited performance and focusing of high harmonics from relativistic plasmas. Nature Physics, 2009, 5, 146-152.	16.7	146
64	Controlling the divergence of high harmonics from solid targets: a route toward coherent harmonic focusing. European Physical Journal D, 2009, 55, 475-481.	1.3	15
65	High brightness keV harmonics from relativistically oscillating plasma surfaces. European Physical Journal: Special Topics, 2009, 175, 57-60.	2.6	0
66	Ultrabright attosecond sources from relativistically oscillating mirrors. Proceedings of SPIE, 2009, , .	0.8	0
67	Nuclear activation as a high dynamic range diagnostic of laser-plasma interactions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 585, 117-120.	1.6	26
68	High contrast plasma mirror: spatial filtering and second harmonic generation at 10^{19} W/cm ² . New Journal of Physics, 2008, 10, 083002.	2.9	38
69	Dynamic Control of Laser-Produced Proton Beams. Physical Review Letters, 2008, 100, 105004.	7.8	80
70	High harmonics from relativistically oscillating plasma surfaces—a high brightness attosecond source at keV photon energies. Plasma Physics and Controlled Fusion, 2007, 49, B149-B162.	2.1	11
71	Bright Multi-keV Harmonic Generation from Relativistically Oscillating Plasma Surfaces. Physical Review Letters, 2007, 99, 085001.	7.8	201
72	Bright Quasi-Phase-Matched Soft-X-Ray Harmonic Radiation from Argon Ions. Physical Review Letters, 2007, 99, 143901.	7.8	109

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73	Simple technique for generating trains of ultrashort pulses. <i>Optics Letters</i> , 2007, 32, 2203.	3.3	13
74	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
75	Quasi-phasematching of harmonic generation via multimode beating in waveguides. <i>Optics Express</i> , 2007, 15, 7894.	3.4	29
76	Generation of a train of ultrashort pulses from a compact birefringent crystal array. <i>Applied Optics</i> , 2007, 46, 5142.	2.1	67
77	High harmonic generation in the relativistic limit. <i>Nature Physics</i> , 2006, 2, 456-459.	16.7	418
78	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
79	The plasma mirror – A subpicosecond optical switch for ultrahigh power lasers. <i>Review of Scientific Instruments</i> , 2004, 75, 645-649.	1.3	200