

Bernhard Hidding

List of Publications by Year in descending order

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papers

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687363

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580821

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26
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632
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultracold Electron Bunch Generation via Plasma Photocathode Emission and Acceleration in a Beam-Driven Plasma Blowout. <i>Physical Review Letters</i> , 2012, 108, 035001.	7.8	146
2	Multichromatic Narrow-Energy-Spread Electron Bunches from Laser-Wakefield Acceleration with Dual-Color Lasers. <i>Physical Review Letters</i> , 2015, 114, 084801.	7.8	69
3	EuPRAXIA Conceptual Design Report. <i>European Physical Journal: Special Topics</i> , 2020, 229, 3675-4284.	2.6	64
4	Monoenergetic Energy Doubling in a Hybrid Laser-Plasma Wakefield Accelerator. <i>Physical Review Letters</i> , 2010, 104, 195002.	7.8	58
5	Single-stage plasma-based correlated energy spread compensation for ultrahigh 6D brightness electron beams. <i>Nature Communications</i> , 2017, 8, 15705.	12.8	57
6	Generation and acceleration of electron bunches from a plasma photocathode. <i>Nature Physics</i> , 2019, 15, 1156-1160.	16.7	45
7	Laser-plasma-based Space Radiation Reproduction in the Laboratory. <i>Scientific Reports</i> , 2017, 7, 42354.	3.3	34
8	Demonstration of a compact plasma accelerator powered by laser-accelerated electron beams. <i>Nature Communications</i> , 2021, 12, 2895.	12.8	31
9	Laser-ionized, beam-driven, underdense, passive thin plasma lens. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	26
10	Demonstration of passive plasma lensing of a laser wakefield accelerated electron bunch. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	23
11	Optical plasma torch electron bunch generation in plasma wakefield accelerators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015, 18, .	1.8	23
12	Direct Observation of Plasma Waves and Dynamics Induced by Laser-Accelerated Electron Beams. <i>Physical Review X</i> , 2019, 9, .	8.9	19
13	Probing ultrafast magnetic-field generation by current filamentation instability in femtosecond relativistic laser-matter interactions. <i>Physical Review Research</i> , 2020, 2, .	3.6	19
14	Free electron lasers driven by plasma accelerators: status and near-term prospects. <i>High Power Laser Science and Engineering</i> , 2021, 9, .	4.6	13
15	Fundamentals and Applications of Hybrid LWFA-PWFA. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2626.	2.5	12
16	Hybrid LWFA-PWFA staging as a beam energy and brightness transformer: conceptual design and simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180175.	3.4	11
17	Hot spots and dark current in advanced plasma wakefield accelerators. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	11
18	Gas-dynamic density downramp injection in a beam-driven plasma wakefield accelerator. <i>Physical Review Research</i> , 2021, 3, .	3.6	11

#	ARTICLE	IF	CITATIONS
19	Simulation study of a passive plasma beam dump using varying plasma density. <i>Physics of Plasmas</i> , 2017, 24, 023120.	1.9	6
20	Directions in plasma wakefield acceleration. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190215.	3.4	6
21	Visualization of relativistic laser pulses in underdense plasma. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	6
22	Advanced schemes for underdense plasma photocathode wakefield accelerators: pathways towards ultrahigh brightness electron beams. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180182.	3.4	5
23	Stable witness-beam formation in a beam-driven plasma cathode. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	4
24	All-optical density downramp injection in electron-driven plasma wakefield accelerators. <i>Physical Review Research</i> , 2021, 3, .	3.6	4
25	Plasma photonic spatiotemporal synchronization of relativistic electron and laser beams. <i>Physical Review Accelerators and Beams</i> , 2022, 25, .	1.6	3
26	Plasma accelerator-based ultrabright x-ray beams from ultrabright electron beams. , 2019, , .		1