Qiang Du

List of Publications by Year
in descending order

35 papers	593 citations	687363 13 h-index	642732 23 g-index
35 all docs	35 docs citations	35 times ranked	670 citing authors

#	Article	IF	Citations
1	Generation of first hard X-ray pulse at Tsinghua Thomson Scattering X-ray Source. Review of Scientific Instruments, 2013, 84, 053301.	1.3	81
2	Introduction to the CDEX experiment. Frontiers of Physics, 2013, 8, 412-437.	5.0	80
3	Experimental demonstration of high quality MeV ultrafast electron diffraction. Review of Scientific Instruments, 2009, 80, 083303.	1.3	78
4	Note: Single-shot continuously time-resolved MeV ultrafast electron diffraction. Review of Scientific Instruments, 2010, 81, 036110.	1.3	58
5	Tsinghua Thomson scattering X-ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, S70-S74.	1.6	47
6	Stabilization of the 81-channel coherent beam combination using machine learning. Optics Express, 2021, 29, 5694.	3.4	41
7	81-beam coherent combination using a programmable array generator. Optics Express, 2021, 29, 5407.	3.4	22
8	Two-dimensional combination of eight ultrashort pulsed beams using a diffractive optic pair. Optics Letters, 2018, 43, 3269.	3.3	20
9	A 350MHz Ti:sapphire laser comb based on monolithic scheme and absolute frequency measurement of 729nm laser. Optics Express, 2009, 17, 6059.	3.4	19
10	Deterministic stabilization of eight-way 2D diffractive beam combining using pattern recognition. Optics Letters, 2019, 44, 4554.	3.3	19
11	A packet-based precise timing and synchronous DAQ network for the LHAASO project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 488-492.	1.6	18
12	Temperature Effect on White Rabbit Timing Link. IEEE Transactions on Nuclear Science, 2015, 62, 1021-1026.	2.0	17
13	Development of sub-100 femtosecond timing and synchronization system. Review of Scientific Instruments, 2018, 89, 014701.	1.3	14
14	High resolution distributed time-to-digital converter (TDC) in a White Rabbit network. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 738, 13-19.	1.6	13
15	High time resolution beam-based measurement of the rf-to-laser jitter in a photocathode rf gun. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	9
16	Precise control and measurement of Laser–RF synchronization for Thomson-scattering X-ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S137-S140.	1.6	8
17	Soft X-ray generation experiment at the Tsinghua Thomson scattering X-ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S168-S171.	1.6	8
18	UV pulse shaping for the photocathode RF gun. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S127-S129.	1.6	7

#	Article	IF	Citations
19	Development of a White Rabbit interface for synchronous data acquisition and timing control. , 2012, , .		6
20	Laser–RF synchronization based on digital phase detector. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	6
21	Experimental beam combining stabilization using machine learning trained while phases drift. Optics Express, 2022, 30, 12639.	3.4	6
22	FPGA-Based Optical Cavity Phase Stabilization for Coherent Pulse Stacking. IEEE Journal of Quantum Electronics, 2018, 54, 1-11.	1.9	3
23	Optical phase control of coherent pulse stacking via modulated impulse response. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2081.	2.1	3
24	Sum-frequency generation between an actively synchronized ultrashort Ti:sapphire laser and a Nd:YVO_4 laser. Journal of the Optical Society of America B: Optical Physics, 2008, 25, B39.	2.1	2
25	LLRF control system for TTX. , 2012, , .		2
26	CALIPR: Coherent Addition using Learned Interference Pattern Recognition. , 2021, , .		2
27	Stabilizing Coherently Combined Beam Power using a Robust Learning Algorithm. , 2021, , .		2
28	Measurement and Control of Carrier-Envelope Phase in Femtosecond Ti:sapphire Laser. , 2010, , .		1
29	Characterization and Control of 81-beam Diffractive Coherent Combining. , 2020, , .		1
30	Design and development of laser-RF Synchronization system for Thomson-scattering X-ray source at Tsinghua University. , 2009, , .		0
31	Stabilization of Diffractive Beam Combining Using Pattern Recognition. , 2019, , .		0
32	Deep Reinforcement Learning based Control for two-dimensional Coherent Combining. , 2020, , .		0
33	Artificial Neural Networks Applied to Stabilization of 81-beam Coherent Combining. , 2020, , .		0
34	Controlling Laser Beam Combining via an Active Reinforcement Learning Algorithm. , 2021, , .		0
35	Diffractive combining and control of femtosecond pulse beam arrays. , 2022, , .		0