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	Diffractive combining and control of femtosecond pulse beam arrays. , 2022, , .		0
2	Experimental beam combining stabilization using machine learning trained while phases drift. Optics Express, 2022, 30, 12639.	3.4	6
3	Stabilization of the 81-channel coherent beam combination using machine learning. Optics Express, 2021, 29, 5694.	3.4	41
4	81-beam coherent combination using a programmable array generator. Optics Express, 2021, 29, 5407.	3.4	22
5	CALIPR: Coherent Addition using Learned Interference Pattern Recognition. , 2021, , .		2
6	Stabilizing Coherently Combined Beam Power using a Robust Learning Algorithm. , 2021, , .		2
7	Controlling Laser Beam Combining via an Active Reinforcement Learning Algorithm. , 2021, , .		0
8	Characterization and Control of 81-beam Diffractive Coherent Combining. , 2020, , .		1
9	Deep Reinforcement Learning based Control for two-dimensional Coherent Combining. , 2020, , .		0
10	Artificial Neural Networks Applied to Stabilization of 81-beam Coherent Combining. , 2020, , .		0
11	Deterministic stabilization of eight-way 2D diffractive beam combining using pattern recognition. Optics Letters, 2019, 44, 4554.	3.3	19
12	Stabilization of Diffractive Beam Combining Using Pattern Recognition. , 2019, , .		0
13	Development of sub-100 femtosecond timing and synchronization system. Review of Scientific Instruments, 2018, 89, 014701.	1.3	14
14	FPGA-Based Optical Cavity Phase Stabilization for Coherent Pulse Stacking. IEEE Journal of Quantum Electronics, 2018, 54, 1-11.	1.9	3
15	Two-dimensional combination of eight ultrashort pulsed beams using a diffractive optic pair. Optics Letters, 2018, 43, 3269.	3.3	20
16	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
17	Laserâ€“RF synchronization based on digital phase detector. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	6
18	Temperature Effect on White Rabbit Timing Link. IEEE Transactions on Nuclear Science, 2015, 62, 1021-1026.	2.0	17

#	Article	IF	Citations
19	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
20	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
21	Introduction to the CDEX experiment. Frontiers of Physics, 2013, 8, 412-437.	5.0	80
22	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
23	Generation of first hard X-ray pulse at Tsinghua Thomson Scattering X-ray Source. Review of Scientific Instruments, 2013, 84, 053301.	1.3	81
24	Development of a White Rabbit interface for synchronous data acquisition and timing control. , 2012, , .		6
25	LLRF control system for TTX. , 2012, , .		2
26	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
27	Precise control and measurement of Laserâ€“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
28	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
29	Measurement and Control of Carrier-Envelope Phase in Femtosecond Ti:sapphire Laser. , 2010, , .		1
30	Note: Single-shot continuously time-resolved MeV ultrafast electron diffraction. Review of Scientific Instruments, 2010, 81, 036110.	1.3	58
31	Experimental demonstration of high quality MeV ultrafast electron diffraction. Review of Scientific Instruments, 2009, 80, 083303.	1.3	78
32	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
33	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
34	Design and development of laser-RF Synchronization system for Thomson-scattering X-ray source at Tsinghua University. , 2009, , .		0
35	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