Russell Wilcox

List of Publications by Year
in descending order

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20 papers	219 citations	1307594 7 h-index	1372567 10 g-index
20 all docs	20 docs citations	20 times ranked	170 citing authors

#	Article	IF	Citations
1	Stable transmission of radio frequency signals on fiber links using interferometric delay sensing. Optics Letters, 2009, 34, 3050.	3.3	58
2	Stabilization of the 81-channel coherent beam combination using machine learning. Optics Express, 2021, 29, 5694.	3.4	41
3	Coherent combination of ultrashort pulse beams using two diffractive optics. Optics Letters, 2017, 42, 4422.	3.3	22
4	81-beam coherent combination using a programmable array generator. Optics Express, 2021, 29, 5407.	3.4	22
5	Two-dimensional combination of eight ultrashort pulsed beams using a diffractive optic pair. Optics Letters, 2018, 43, 3269.	3.3	20
6	Deterministic stabilization of eight-way 2D diffractive beam combining using pattern recognition. Optics Letters, 2019, 44, 4554.	3.3	19
7	Development of sub-100 femtosecond timing and synchronization system. Review of Scientific Instruments, 2018, 89, 014701.	1.3	14
8	Experimental beam combining stabilization using machine learning trained while phases drift. Optics Express, 2022, 30, 12639.	3.4	6
9	High-precision phase detection in femtosecond timing and synchronization system for TXGLS. Measurement Science and Technology, 2018, 29, 065011.	2.6	5
10	FPGA-Based Optical Cavity Phase Stabilization for Coherent Pulse Stacking. IEEE Journal of Quantum Electronics, 2018, 54, 1-11.	1.9	3
11	Femtosecond Beam Combination Using Diffractive Optic Pairs. , 2017, , .		3
12	CALIPR: Coherent Addition using Learned Interference Pattern Recognition. , 2021, , .		2
13	Stabilizing Coherently Combined Beam Power using a Robust Learning Algorithm. , 2021, , .		2
14	Characterization and Control of 81-beam Diffractive Coherent Combining. , 2020, , .		1
15	Phase Control of Two-dimensional Diffractive Pulse Combination Based on Beam Array Detection. , 2018, , .		1
16	Jitter Reduction in Digitally Synchronized Lasers. , 2014, , .		0
17	Stabilization of Diffractive Beam Combining Using Pattern Recognition. , 2019, , .		0
18	Deep Reinforcement Learning based Control for two-dimensional Coherent Combining. , 2020, , .		0

#	Article	IF	Citations
19	Artificial Neural Networks Applied to Stabilization of 81-beam Coherent Combining. , 2020, , .		0
20	Controlling Laser Beam Combining via an Active Reinforcement Learning Algorithm. , 2021, , .		0