

# Russell Wilcox

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10540816/publications.pdf>

Version: 2024-02-01

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

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Jitter Reduction in Digitally Synchronized Lasers. , 2014, , .   |     | 0         |
| 20 | Stable transmission of radio frequency signals on fiber links using interferometric delay sensing. Optics Letters, 2009, 34, 3050. | 3.3 | 58        |