

Matthew A Stott

List of Publications by Year in descending order

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14
papers

234
citations

1163117

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1281871

11
g-index

14
all docs

14
docs citations

14
times ranked

211
citing authors

#	ARTICLE	IF	CITATIONS
1	Optofluidic wavelength division multiplexing for single-virus detection. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12933-12937.	7.1	83
2	Optofluidic multiplex detection of single SARS-CoV-2 and influenza A antigens using a novel bright fluorescent probe assay. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
3	Scalable Spatial-Spectral Multiplexing of Single-Virus Detection Using Multimode Interference Waveguides. Scientific Reports, 2017, 7, 12199.	3.3	26
4	Optofluidic detection of Zika nucleic acid and protein biomarkers using multimode interference multiplexing. Biomedical Optics Express, 2018, 9, 3725.	2.9	26
5	Signal-to-Noise Enhancement in Optical Detection of Single Viruses With Multispot Excitation. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 6-11.	2.9	19
6	Optical trapping assisted label-free and amplification-free detection of SARS-CoV-2 RNAs with an optofluidic nanopore sensor. Biosensors and Bioelectronics, 2021, 194, 113588.	10.1	18
7	Fast custom wavelet analysis technique for single molecule detection and identification. Nature Communications, 2022, 13, 1035.	12.8	13
8	Optimized ARROW-Based MMI Waveguides for High Fidelity Excitation Patterns for Optofluidic Multiplexing. IEEE Journal of Quantum Electronics, 2018, 54, 1-7.	1.9	10
9	Optofluidic Amplification-Free Multiplex Detection of Viral Hemorrhagic Fevers. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-6.	2.9	5
10	Buried Rib SiO ₂ Multimode Interference Waveguides for Optofluidic Multiplexing. IEEE Photonics Technology Letters, 2018, 30, 1487-1490.	2.5	2
11	Silicate overcoat layers for the improvement of PECVD SiO ₂ optofluidic waveguides. , 2015, , .		1
12	Optimization of Y-splitting antiresonant reflecting optical waveguides-based rib waveguides. Optical Engineering, 2016, 55, 100505.	1.0	1
13	Electro-Optical Detection of Single Nanoparticles on a Nanopore-Optofluidic Chip. Materials Research Society Symposia Proceedings, 2014, 1720, 17.	0.1	0
14	High fidelity MMI-based multi-spot excitation for optofluidic multiplexing. , 2017, , .		0