

# Mario Montes-Usategui

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

862  
citations

1163117

8  
h-index

1058476

14  
g-index

22  
all docs

22  
docs citations

22  
times ranked

536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vulnerability to chosen-cyphertext attacks of optical encryption schemes based on double random phase keys. Optics Letters, 2005, 30, 1644.	3.3	562
2	Fast generation of holographic optical tweezers by random mask encoding of Fourier components. Optics Express, 2006, 14, 2101.	3.4	76
3	Optimized back-focal-plane interferometry directly measures forces of optically trapped particles. Optics Express, 2012, 20, 12270.	3.4	68
4	A force detection technique for single-beam optical traps based on direct measurement of light momentum changes. Optics Express, 2010, 18, 11955.	3.4	64
5	Computation of arbitrarily constrained synthetic discriminant functions. Applied Optics, 1995, 34, 3904.	2.1	17
6	Extending calibration-free force measurements to optically-trapped rod-shaped samples. Scientific Reports, 2017, 7, 42960.	3.3	17
7	Positional stability of holographic optical traps. Optics Express, 2011, 19, 21370.	3.4	16
8	Holographic optical tweezers combined with back-focal-plane displacement detection. Optics Express, 2013, 21, 30282.	3.4	12
9	Adding functionalities to precomputed holograms with random mask multiplexing in holographic optical tweezers. Applied Optics, 2011, 50, 1417.	2.1	8
10	Analysis of the influence of aberrated convergent Fourier-transform setups in optical correlation. Optics Communications, 2000, 184, 345-355.	2.1	5
11	Beyond the Hookean Spring Model: Direct Measurement of Optical Forces Through Light Momentum Changes. Methods in Molecular Biology, 2017, 1486, 41-76.	0.9	4
12	Generalization of the Jared and Ennis method of complex transmittance objects for the generation of synthetic discriminant function filters. Applied Optics, 2004, 43, 5647.	2.1	3
13	Force measurements with optical tweezers inside living cells. , 2014, , .		3
14	Design of correlation filters invariant to degradations characterizable by an optical transfer function. Optics Communications, 1996, 129, 337-343.	2.1	3
15	Reduction of the effect of aberrations in a joint-transform correlator. Applied Optics, 2004, 43, 841.	2.1	2
16	Back-focal-plane interferometry: position or force detection?. , 2011, , .		1
17	Momentum measurements with holographic optical tweezers for exploring force detection capabilities on irregular samples. , 2014, , .		1
18	<title>Influence of the aberrations of optical Fourier-transform systems in a joint transform correlator</title>. , 2001, , .		0

#	ARTICLE	IF	CITATIONS
19	Variance of correlation peak heights in a JTC due to an aberrated optical Fourier-transform system. , 2003, , .		0
20	Algorithm for computing holographic optical tweezers at video rates. , 2006, , .		0
21	A force measurement instrument for optical tweezers based on the detection of light momentum changes. , 2014, , .		0
22	Analysis of the Transverse Force in the Rayleigh and Mie Approximations for a Capture Beam TEM00 and TEM*01. Respuestas, 2020, 25, 53-59.	0.2	0