Mario Montes-Usategui

List of Publications by Year
in descending order

22	862	1163117 8	1058476 14
papers	citations	h-index	g-index

22	22	22	536
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Extending calibration-free force measurements to optically-trapped rod-shaped samples. Scientific Reports, 2017, 7, 42960.	3.3	17
3	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
4	Momentum measurements with holographic optical tweezers for exploring force detection capabilities on irregular samples. , 2014, , .		1
5	Force measurements with optical tweezers inside living cells. , 2014, , .		3
6	A force measurement instrument for optical tweezers based on the detection of light momentum changes. , 2014, , .		0
7	Holographic optical tweezers combined with back-focal-plane displacement detection. Optics Express, 2013, 21, 30282.	3.4	12
8	Optimized back-focal-plane interferometry directly measures forces of optically trapped particles. Optics Express, 2012, 20, 12270.	3.4	68
9	Adding functionalities to precomputed holograms with random mask multiplexing in holographic optical tweezers. Applied Optics, 2011, 50, 1417.	2.1	8
10	Positional stability of holographic optical traps. Optics Express, 2011, 19, 21370.	3.4	16
11	Back-focal-plane interferometry: position or force detection?. , 2011, , .		1
12	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
13	Fast generation of holographic optical tweezers by random mask encoding of Fourier components. Optics Express, 2006, 14, 2101.	3.4	76
14	Algorithm for computing holographic optical tweezers at video rates. , 2006, , .		0
15	Vulnerability to chosen-cyphertext attacks of optical encryption schemes based on double random phase keys. Optics Letters, 2005, 30, 1644.	3.3	562
16	Reduction of the effect of aberrations in a joint-transform correlator. Applied Optics, 2004, 43, 841.	2.1	2
17	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
18	Variance of correlation peak heights in a JTC due to an aberrated optical Fourier-transform system. , 2003, , .		0

#	Article	IF	Citations
19	<title>Influence of the aberrations of optical Fourier-transform systems in a joint transform correlator</title>. , 2001, , .		0
20	Analysis of the influence of aberrated convergent Fourier-transform setups in optical correlation. Optics Communications, 2000, 184, 345-355.	2.1	5
21	Design of correlation filters invariant to degradations characterizable by an optical transfer function. Optics Communications, 1996, 129, 337-343.	2.1	3
22	Computation of arbitrarily constrained synthetic discriminant functions. Applied Optics, 1995, 34, 3904.	2.1	17