

Katherine Creath

List of Publications by Year in descending order

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29
papers

2,555
citations

686830

13
h-index

839053

18
g-index

29
all docs

29
docs citations

29
times ranked

1105
citing authors

#	ARTICLE	IF	CITATIONS
1	V Phase-Measurement Interferometry Techniques. Progress in Optics, 1988, 26, 349-393.	0.4	809
2	Phase-shifting speckle interferometry. Applied Optics, 1985, 24, 3053.	2.1	547
3	Extended averaging technique for derivation of error-compensating algorithms in phase-shifting interferometry. Applied Optics, 1995, 34, 3610.	2.1	288
4	Step height measurement using two-wavelength phase-shifting interferometry. Applied Optics, 1987, 26, 2810.	2.1	229
5	Window function influence on phase error in phase-shifting algorithms. Applied Optics, 1996, 35, 5642.	2.1	95
6	Contouring Aspheric Surfaces Using Two-wavelength Phase-shifting Interferometry. Optica Acta, 1985, 32, 1455-1464.	0.7	91
7	Absolute measurement of surface roughness. Applied Optics, 1990, 29, 3823.	2.1	78
8	Dynamic quantitative phase imaging for biological objects using a pixelated phase mask. Biomedical Optics Express, 2012, 3, 2866.	1.5	77
9	Liquid-crystal point-diffraction interferometer. Optics Letters, 1994, 19, 916.	1.7	65
10	Advances in interferometric optical profiling. International Journal of Machine Tools and Manufacture, 1992, 32, 5-10.	6.2	63
11	Liquid-crystal point-diffraction interferometer for wave-front measurements. Applied Optics, 1996, 35, 1633.	2.1	53
12	N-point spatial phase-measurement techniques for non-destructive testing. Optics and Lasers in Engineering, 1996, 24, 365-379.	2.0	53
13	Comparison Of Phase-Measurement Algorithms. Proceedings of SPIE, 1987, , .	0.8	45
14	Quantitative phase microscopy: automated background leveling techniques and smart temporal phase unwrapping. Applied Optics, 2015, 54, 5175.	2.1	13
15	Direct Phase Measurement Of Aspheric Surface Contours. , 1986, , .		11
16	Dynamic quantitative phase images of pond life, insect wings, and in vitro cell cultures. , 2010, 7782, .		8
17	Dynamic phase imaging for in vitro process monitoring and cell tracking. , 2011, 2011, 5977-80.		7
18	Dynamic phase imaging and processing of moving biological organisms. Proceedings of SPIE, 2012, , .	0.8	7

#	ARTICLE	IF	CITATIONS
19	Dynamic phase imaging utilizing a 4-dimensional microscope system. Proceedings of SPIE, 2011, 7904, .	0.8	6
20	Measuring Step Heights Using An Optical Profiler. Proceedings of SPIE, 1986, , .	0.8	5
21	Processing and improvements in dynamic quantitative phase microscope. , 2013, , .		2
22	<title>Phase measurement using a liquid crystal point diffraction interferometer</title>. , 1995, , .		1
23	Performance enhancement and background removal to improve dynamic phase imaging of biological organisms. , 2012, 2012, 3163-6.		1
24	Quantitative phase microscopy: how to make phase data meaningful. Proceedings of SPIE, 2014, 8949, 89491C.	0.8	1
25	Performance Characterization of Unwrapping Methods for Complex Objects. , 2013, , .		0
26	Optical metrology at the Optical Sciences Center: an historical review. Proceedings of SPIE, 2014, , .	0.8	0
27	Utilizing Quantitative Phase Microscopy to Observe Cellular Response to Treatment and Dynamic Behaviors. Microscopy and Microanalysis, 2014, 20, 1380-1381.	0.2	0
28	Seeing fringes everywhere: impact of James C. Wyant's contributions to optical metrology. , 2021, , .		0
29	Quantifying Cellular Response to Treatment and Dynamic Behaviors Using Quantitative Phase Microscopy (QPM). , 2014, , .		0