

Etienne Cuche

List of Publications by Year in descending order

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53
papers

7,369
citations

430442

18
h-index

642321

23
g-index

53
all docs

53
docs citations

53
times ranked

2627
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital holographic microscopy: a noninvasive contrast imaging technique allowing quantitative visualization of living cells with subwavelength axial accuracy. <i>Optics Letters</i> , 2005, 30, 468.	1.7	1,209
2	Digital holography for quantitative phase-contrast imaging. <i>Optics Letters</i> , 1999, 24, 291.	1.7	1,146
3	Simultaneous amplitude-contrast and quantitative phase-contrast microscopy by numerical reconstruction of Fresnel off-axis holograms. <i>Applied Optics</i> , 1999, 38, 6994.	2.1	955
4	Spatial filtering for zero-order and twin-image elimination in digital off-axis holography. <i>Applied Optics</i> , 2000, 39, 4070.	2.1	814
5	Measurement of the integral refractive index and dynamic cell morphometry of living cells with digital holographic microscopy. <i>Optics Express</i> , 2005, 13, 9361.	1.7	641
6	Cell refractive index tomography by digital holographic microscopy. <i>Optics Letters</i> , 2006, 31, 178.	1.7	567
7	Real-time dual-wavelength digital holographic microscopy with a single hologram acquisition. <i>Optics Express</i> , 2007, 15, 7231.	1.7	393
8	Automatic procedure for aberration compensation in digital holographic microscopy and applications to specimen shape compensation. <i>Applied Optics</i> , 2006, 45, 851.	2.1	337
9	Numerical parametric lens for shifting, magnification, and complete aberration compensation in digital holographic microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 3177.	0.8	290
10	Characterization of microlenses by digital holographic microscopy. <i>Applied Optics</i> , 2006, 45, 829.	2.1	191
11	Polarization imaging by use of digital holography. <i>Applied Optics</i> , 2002, 41, 27.	2.1	141
12	Aperture apodization using cubic spline interpolation: application in digital holographic microscopy. <i>Optics Communications</i> , 2000, 182, 59-69.	1.0	102
13	Extended depth-of-focus by digital holographic microscopy. <i>Optics Letters</i> , 2010, 35, 1840.	1.7	102
14	Time-domain optical coherence tomography with digital holographic microscopy. <i>Applied Optics</i> , 2005, 44, 1806.	2.1	85
15	Submicrometer optical tomography by multiple-wavelength digital holographic microscopy. <i>Applied Optics</i> , 2006, 45, 8209.	2.1	77
16	Shot-noise influence on the reconstructed phase image signal-to-noise ratio in digital holographic microscopy. <i>Applied Optics</i> , 2006, 45, 7667.	2.1	71
17	Purely numerical compensation for microscope objective phase curvature in digital holographic microscopy: influence of digital phase mask position. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2944.	0.8	67
18	Digital holographic reflectometry. <i>Optics Express</i> , 2010, 18, 3719.	1.7	36

#	ARTICLE	IF	CITATIONS
19	Metrology applications using off-axis digital holography microscopy. JPhys Photonics, 2021, 3, 034016.	2.2	20
20	<title>Optical tomography at the microscopic scale by means of a numerical low-coherence holographic technique</title>. , 1996, , .		12
21	Digital holographic microscopy (DHM) for metrology and dynamic characterization of MEMS and MOEMS. , 2006, , .		12
22	Measurements of corner cubes microstructures by high-magnification digital holographic microscopy. , 2006, 6188, 20.		11
23	DHM (Digital Holography Microscope) for imaging cells. Journal of Physics: Conference Series, 2007, 61, 1317-1321.	0.3	11
24	Digital holography microscopy (DHM): fast and robust systems for industrial inspection with interferometer resolution. , 2005, 5856, 930.		10
25	<title>Digital holography applied to microscopy</title>. , 2002, , .		9
26	Real-time dual-wavelength digital holographic microscopy for extended measurement range with enhanced axial resolution. Proceedings of SPIE, 2008, , .	0.8	8
27	Full field vertical scanning in short coherence digital holographic microscope. Optics Express, 2013, 21, 12643.	1.7	7
28	Digital holographic microscopy for nanometric quality control of micro-optical components. , 2007, , .		6
29	Biological cell (pollen grain) refractive index tomography with digital holographic microscopy. , 2006, , .		5
30	Local amplitude and phase retrieval method for digital holography applied to microscopy. , 2003, 5143, 210.		4
31	Sub-cellular quantitative optical diffraction tomography with digital holographic microscopy. , 2007, , .		4
32	Real-time dual-wavelength digital holographic microscopy for MEMS characterization. , 2007, , .		4
33	Digital Holographic Microscopy, a new Method for Simultaneous Amplitude- and Quantitative Phase-Contrast Imaging. , 2000, , 213-218.		4
34	Digital Holographic Microscopy Applied to Diffraction Tomography of a Cell Refractive Index. , 2006, , .		4
35	Digital holographic microscopy: a new optical imaging technique to investigate cellular dynamics. , 2006, , .		3
36	Digital holographic microscopy applied to pollen cells analysis and recognition. , 2005, , .		2

#	ARTICLE	IF	CITATIONS
37	Multi-wavelength digital holographic microscopy for sub-micron topography of reflecting specimens. , 2007, , .		2
38	High speed 3D surface inspection with digital holography. Proceedings of SPIE, 2013, , .	0.8	2
39	Cells and tissue imaging with digital holographic microscopy. , 2003, , .		1
40	Low-coherence digital holographic tomography. , 2003, , .		1
41	Tomography using multiple wavelengths in digital holography: method, simulations, and experiments. , 2006, , .		1
42	Use of digital holographic microscopy in tomography. , 2006, 6191, 183.		1
43	<title>Shot noise perturbations in digital holographic microscopy phase images</title>. , 2006, 6252, 333.		1
44	Jones vector imaging by use of digital holography: simulation results. , 2003, , .		0
45	Optical coherence tomography with digital holographic microscopy. , 2004, , SC1.		0
46	Digital holographic microscopy applied to metrology. , 2004, , .		0
47	Digital holographic microscopy for study cellular dynamics. , 2005, 5864, 85.		0
48	Digital Holographic Microscopy for Study Cellular Dynamics. , 2005, , MD6.		0
49	Microlenses metrology with digital holographic microscopy. , 2005, , .		0
50	Digital Holographic Microscopy (DHM). Imaging & Microscopy, 2006, 8, 46-48.	0.1	0
51	Automatic procedure for aberrations compensation in digital holographic microscopy. , 2006, 6188, 31.		0
52	Dual-wavelength digital holographic microscopy with sub-nanometer axial accuracy. , 2008, , .		0
53	Digital Holographic Microscopy (DHM) applied to Optical Metrology: A resolution enhanced imaging technology applied to inspection of microscopic devices with subwavelength resolution. , 2006, , 308-314.		0