

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	Metrology applications using off-axis digital holography microscopy. JPhys Photonics, 2021, 3, 034016.	2.2	20
2	Full field vertical scanning in short coherence digital holographic microscope. Optics Express, 2013, 21, 12643.	1.7	7
3	High speed 3D surface inspection with digital holography. Proceedings of SPIE, 2013, , .	0.8	2
4	Digital holographic reflectometry. Optics Express, 2010, 18, 3719.	1.7	36
5	Extended depth-of-focus by digital holographic microscopy. Optics Letters, 2010, 35, 1840.	1.7	102
6	Real-time dual-wavelength digital holographic microscopy for extended measurement range with enhanced axial resolution. Proceedings of SPIE, 2008, , .	0.8	8
7	Dual-wavelength digital holographic microscopy with sub-nanometer axial accuracy. , 2008, , .		0
8	Digital holographic microscopy for nanometric quality control of micro-optical components. , 2007, , .		6
9	Sub-cellular quantitative optical diffraction tomography with digital holographic microscopy. , 2007, , .		4
10	Multi-wavelength digital holographic microscopy for sub-micron topography of reflecting specimens. , 2007, , .		2
11	Real-time dual-wavelength digital holographic microscopy for MEMS characterization. , 2007, , .		4
12	Real-time dual-wavelength digital holographic microscopy with a single hologram acquisition. Optics Express, 2007, 15, 7231.	1.7	393
13	DHM (Digital Holography Microscope) for imaging cells. Journal of Physics: Conference Series, 2007, 61, 1317-1321.	0.3	11
14	Tomography using multiple wavelengths in digital holography: method, simulations, and experiments. , 2006, , .		1
15	Cell refractive index tomography by digital holographic microscopy. Optics Letters, 2006, 31, 178.	1.7	567
16	Purely numerical compensation for microscope objective phase curvature in digital holographic microscopy: influence of digital phase mask position. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 2944.	0.8	67
17	Numerical parametric lens for shifting, magnification, and complete aberration compensation in digital holographic microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 3177.	0.8	290
18	Characterization of microlenses by digital holographic microscopy. Applied Optics, 2006, 45, 829.	2.1	191

#	ARTICLE	IF	CITATIONS
19	Automatic procedure for aberration compensation in digital holographic microscopy and applications to specimen shape compensation. Applied Optics, 2006, 45, 851.	2.1	337
20	Shot-noise influence on the reconstructed phase image signal-to-noise ratio in digital holographic microscopy. Applied Optics, 2006, 45, 7667.	2.1	71
21	Submicrometer optical tomography by multiple-wavelength digital holographic microscopy. Applied Optics, 2006, 45, 8209.	2.1	77
22	Digital holographic microscopy: a new optical imaging technique to investigate cellular dynamics. , 2006, , .		3
23	Use of digital holographic microscopy in tomography. , 2006, 6191, 183.		1
24	Digital Holographic Microscopy (DHM). Imaging & Microscopy, 2006, 8, 46-48.	0.1	0
25	Automatic procedure for aberrations compensation in digital holographic microscopy. , 2006, 6188, 31.		0
26	<title>Shot noise perturbations in digital holographic microscopy phase images</title>. , 2006, 6252, 333.		1
27	Measurements of corner cubes microstructures by high-magnification digital holographic microscopy. , 2006, 6188, 20.		11
28	Digital holographic microscopy (DHM) for metrology and dynamic characterization of MEMS and MOEMS. , 2006, , .		12
29	Biological cell (pollen grain) refractive index tomography with digital holographic microscopy. , 2006, , .		5
30	Digital Holographic Microscopy Applied to Diffraction Tomography of a Cell Refractive Index. , 2006, , .		4
31	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
32	Digital holography microscopy (DHM): fast and robust systems for industrial inspection with interferometer resolution. , 2005, 5856, 930.		10
33	Digital holographic microscopy applied to pollen cells analysis and recognition. , 2005, , .		2
34	Digital holographic microscopy for study cellular dynamics. , 2005, 5864, 85.		0
35	Digital Holographic Microscopy for Study Cellular Dynamics. , 2005, , MD6.		0
36	Microlenses metrology with digital holographic microscopy. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
37	Time-domain optical coherence tomography with digital holographic microscopy. Applied Optics, 2005, 44, 1806.	2.1	85
38	Measurement of the integral refractive index and dynamic cell morphometry of living cells with digital holographic microscopy. Optics Express, 2005, 13, 9361.	1.7	641
39	Digital holographic microscopy: a noninvasive contrast imaging technique allowing quantitative visualization of living cells with subwavelength axial accuracy. Optics Letters, 2005, 30, 468.	1.7	1,209
40	Optical coherence tomography with digital holographic microscopy. , 2004, , SC1.		0
41	Digital holographic microscopy applied to metrology. , 2004, , .		0
42	Cells and tissue imaging with digital holographic microscopy. , 2003, , .		1
43	Low-coherence digital holographic tomography. , 2003, , .		1
44	Local amplitude and phase retrieval method for digital holography applied to microscopy. , 2003, 5143, 210.		4
45	Jones vector imaging by use of digital holography: simulation results. , 2003, , .		0
46	<title>Digital holography applied to microscopy</title>. , 2002, , .		9
47	Polarization imaging by use of digital holography. Applied Optics, 2002, 41, 27.	2.1	141
48	Aperture apodization using cubic spline interpolation: application in digital holographic microscopy. Optics Communications, 2000, 182, 59-69.	1.0	102
49	Spatial filtering for zero-order and twin-image elimination in digital off-axis holography. Applied Optics, 2000, 39, 4070.	2.1	814
50	Digital Holographic Microscopy, a new Method for Simultaneous Amplitude- and Quantitative Phase-Contrast Imaging. , 2000, , 213-218.		4
51	Simultaneous amplitude-contrast and quantitative phase-contrast microscopy by numerical reconstruction of Fresnel off-axis holograms. Applied Optics, 1999, 38, 6994.	2.1	955
52	Digital holography for quantitative phase-contrast imaging. Optics Letters, 1999, 24, 291.	1.7	1,146
53	<title>Optical tomography at the microscopic scale by means of a numerical low-coherence holographic technique</title>. , 1996, , .		12