

Serge Monneret

List of Publications by Year in descending order

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99
papers

2,854
citations

279487

23
h-index

182168

51
g-index

100
all docs

100
docs citations

100
times ranked

3376
citing authors

#	ARTICLE	IF	CITATIONS
1	Quadriwave lateral shearing interferometry for quantitative phase microscopy of living cells. Optics Express, 2009, 17, 13080.	1.7	425
2	Photoinduced Heating of Nanoparticle Arrays. ACS Nano, 2013, 7, 6478-6488.	7.3	351
3	Super-Heating and Micro-Bubble Generation around Plasmonic Nanoparticles under cw Illumination. Journal of Physical Chemistry C, 2014, 118, 4890-4898.	1.5	273
4	Thermal Imaging of Nanostructures by Quantitative Optical Phase Analysis. ACS Nano, 2012, 6, 2452-2458.	7.3	188
5	Quantitative nanoscale imaging of orientational order in biological filaments by polarized superresolution microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E820-8.	3.3	110
6	Modal analysis of spontaneous emission in a planar microcavity. Physical Review A, 1996, 54, 2356-2368.	1.0	86
7	Living cell dry mass measurement using quantitative phase imaging with quadriwave lateral shearing interferometry: an accuracy and sensitivity discussion. Journal of Biomedical Optics, 2015, 20, 126009.	1.4	80
8	Toward endoscopes with no distal optics: video-rate scanning microscopy through a fiber bundle. Optics Letters, 2013, 38, 609.	1.7	73
9	Three-dimensional nanometre localization of nanoparticles to enhance super-resolution microscopy. Nature Communications, 2015, 6, 7764.	5.8	73
10	Noniterative boundary-artifact-free wavefront reconstruction from its derivatives. Applied Optics, 2012, 51, 5698.	0.9	71
11	Two-photon lensless endoscope. Optics Express, 2013, 21, 20713.	1.7	71
12	m-lines technique: prism coupling measurement and discussion of accuracy for homogeneous waveguides. Journal of Optics, 2000, 2, 188-195.	1.5	70
13	Light-Assisted Solvothermal Chemistry Using Plasmonic Nanoparticles. ACS Omega, 2016, 1, 2-8.	1.6	53
14	Quantitative retardance imaging of biological samples using quadriwave lateral shearing interferometry. Optics Express, 2015, 23, 16383.	1.7	48
15	Three-Dimensional Ceramic Microcomponents Made Using Microstereolithography. Advanced Materials, 2003, 15, 994-997.	11.1	43
16	Optical detection and measurement of living cell morphometric features with single-shot quantitative phase microscopy. Journal of Biomedical Optics, 2012, 17, 0760041.	1.4	43
17	Optical Imaging and Characterization of Graphene and Other 2D Materials Using Quantitative Phase Microscopy. ACS Photonics, 2017, 4, 3130-3139.	3.2	43
18	Microstereolithography using a dynamic mask generator and a noncoherent visible light source. , 1999, 3680, 553.		39

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19	Deterministic temperature shaping using plasmonic nanoparticle assemblies. <i>Nanoscale</i> , 2014, 6, 8984-8989.	2.8	39
20	Ultra-thin rigid endoscope: two-photon imaging through a graded-index multi-mode fiber. <i>Optics Express</i> , 2016, 24, 825.	1.7	37
21	Enhanced 3D spatial resolution in quantitative phase microscopy using spatially incoherent illumination. <i>Optics Express</i> , 2014, 22, 8654.	1.7	36
22	Photothermal Control of Heat Shock Protein Expression at the Single Cell Level. <i>Small</i> , 2018, 14, e1801910.	5.2	36
23	Complex ceramic-polymer composite microparts made by microstereolithography. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2002, 25, 59-63.	1.6	35
24	Full optical characterization of single nanoparticles using quantitative phase imaging. <i>Optica</i> , 2020, 7, 243.	4.8	33
25	A Theoretical High-Density Nanoscopy Study Leads to the Design of UNLOC, a Parameter-free Algorithm. <i>Biophysical Journal</i> , 2018, 115, 565-576.	0.2	28
26	Independent Synchronized Control and Visualization of Interactions between Living Cells and Organisms. <i>Biophysical Journal</i> , 2014, 106, 2096-2104.	0.2	25
27	Fluorescence of Ta ₂ O ₅ thin films doped by kilo-electron-volt Er implantation: application to microcavities. <i>Applied Optics</i> , 1996, 35, 5005.	2.1	24
28	Three-dimensional temperature imaging around a gold microwire. <i>Applied Physics Letters</i> , 2013, 102, 244103.	1.5	23
29	CO ₂ laser microprocessing for laser damage growth mitigation of fused silica optics. <i>Optical Engineering</i> , 2016, 56, 1.	0.5	22
30	Nonlinear totally reflecting prism coupler: thermomechanic effects and intensity-dependent refractive index of thin films. <i>Applied Optics</i> , 1995, 34, 4358.	2.1	21
31	Quantitative phase imaging applied to laser damage detection and analysis. <i>Applied Optics</i> , 2015, 54, 8375.	2.1	21
32	Measurement and compensation of residual group delay in a multi-core fiber for lensless endoscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1221.	0.9	21
33	Metasurface Optical Characterization Using Quadriwave Lateral Shearing Interferometry. <i>ACS Photonics</i> , 2021, 8, 603-613.	3.2	21
34	Modeling quantitative phase image formation under tilted illuminations. <i>Optics Letters</i> , 2012, 37, 1718.	1.7	18
35	Wide-Field Vibrational Phase Imaging. <i>Physical Review Letters</i> , 2012, 109, 093902.	2.9	17
36	Tomographic diffractive microscopy with a wavefront sensor. <i>Optics Letters</i> , 2012, 37, 1631.	1.7	16

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37	Wide-field vibrational phase imaging in an extremely folded box-CARS geometry. <i>Optics Letters</i> , 2013, 38, 709.	1.7	16
38	Microscale Temperature Shaping Using Spatial Light Modulation on Gold Nanoparticles. <i>Scientific Reports</i> , 2019, 9, 4644.	1.6	15
39	Quantitative phase imaging of adherent mammalian cells: a comparative study. <i>Biomedical Optics Express</i> , 2019, 10, 2768.	1.5	15
40	Microfabrication of freedom and articulated alumina-based components. <i>Microsystem Technologies</i> , 2002, 8, 368-374.	1.2	14
41	Image-based adaptive optics for in vivo imaging in the hippocampus. <i>Scientific Reports</i> , 2017, 7, 42924.	1.6	14
42	Laser-induced birefringence measurements by quantitative polarized-phase microscopy. <i>Optics Letters</i> , 2017, 42, 1616.	1.7	13
43	Imaging the Gouy phase shift in photonic jets with a wavefront sensor. <i>Optics Letters</i> , 2012, 37, 3531.	1.7	12
44	Quantitative retardance imaging by means of quadri-wave lateral shearing interferometry for label-free fiber imaging in tissues. <i>Optics Communications</i> , 2018, 422, 17-27.	1.0	12
45	Combining fluidic reservoirs and optical tweezers to control beads/living cells contacts. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 645-652.	1.0	11
46	Image upconversion from the visible to the UV domain: application to dynamic UV microstereolithography. <i>Applied Optics</i> , 2001, 40, 4953.	2.1	10
47	Multiple holographic optical tweezers parallel calibration with optical potential well characterization. <i>Optics Express</i> , 2008, 16, 9011.	1.7	10
48	Large field-of-view phase and fluorescence mesoscope with microscopic resolution. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	10
49	Highly flexible whole-field sectioning microscope with liquid-crystal light modulator. <i>Journal of Optics</i> , 2006, 8, S461-S466.	1.5	9
50	Time-resolved quantitative-phase microscopy of laser-material interactions using a wavefront sensor. <i>Optics Letters</i> , 2016, 41, 3245.	1.7	9
51	Solution-Processed Barium Titanate Nonlinear Woodpile Photonic Structures with Large Surface Areas. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900755.	0.7	8
52	Dynamic UV microstereolithography. <i>EPJ Applied Physics</i> , 2002, 20, 213-218.	0.3	7
53	Light-induced refractive-index modifications in dielectric thin films: experimental determination of relaxation time and amplitude. <i>Applied Optics</i> , 1996, 35, 5013.	2.1	6
54	Quadrant kinoform: an approach to multiplane dynamic three-dimensional holographic trapping. <i>Applied Optics</i> , 2007, 46, 4587.	2.1	6

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55	Tomographic incoherent phase imaging, a diffraction tomography alternative for any white-light microscope. , 2013, , .		6
56	Development of a laser damage growth mitigation process, based on CO2 laser micro processing, for the Laser Megajoule fused silica optics. , 2016, , .		6
57	Resonant focusing in a planar microcavity. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2712.	0.9	5
58	Practical lab tool for living cells based on microstereolithography and multiple dynamic holographic optical tweezers. , 2006, 6088, 273.		3
59	Quadriwave lateral shearing interferometry as a quantification tool for microscopy. Application to dry mass determination of living cells, temperature mapping, and vibrational phase imaging. Proceedings of SPIE, 2013, , .	0.8	3
60	Optical Waveguide Characterization of Thin Films.. The Review of Laser Engineering, 1996, 24, 94-102.	0.0	2
61	Adjustable phase-locking of two Nd:glass ring laser beams. Optics Communications, 1997, 141, 123-126.	1.0	2
62	<title>Complex ceramic-polymer composite microparts made by microstereolithography</title>. , 2001, 4408, 535.		2
63	Micro-scale rapid prototyping by stereolithography. , 0, , .		2
64	Multi-lateral shearing interferometry: Principle and application to X-ray phase imaging. , 2012, , .		2
65	Polarized Resolved Single-Molecule Localization-Based Super-Resolution Fluorescence Microscopy Reveals Orientation Order in Bio-Molecular Assemblies. Biophysical Journal, 2014, 106, 203a-204a.	0.2	2
66	Spontaneous emission of rare-earth ions confined in planar multilayer dielectric microcavities. , 1997, , .		1
67	La microst��olithographie et ses applications. Mecanique Et Industries, 2005, 6, 457-462.	0.2	1
68	Interactive space-time controlled application of different stimuli for cells dynamics study. , 2006, 6326, 166.		1
69	Correlative Microscopy of Living Cells between Fluorescence and Quantitative Phase Imaging with a High Resolution Wavefront Sensor. Biophysical Journal, 2011, 100, 356a.	0.2	1
70	Quantitative birefringence imaging of biological samples using quadri-wave interferometry. Proceedings of SPIE, 2013, , .	0.8	1
71	Laser damage measurement techniques for the femtosecond regime. , 2015, , .		1
72	Solution��Processed Barium Titanate Nonlinear Woodpile Photonic Structures with Large Surface Areas. Physica Status Solidi (B): Basic Research, 2020, 257, 2070024.	0.7	1

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73	Propriétés radiatives d'atomes luminescents placés dans une microcavité planaire. Annales De Physique, 1995, 20, 625-626.	0.2	1
74	Towards two-photon lensless endoscopes: Inter-core group delay compensation in a multi-core fiber. , 2015, , .		1
75	<title>Multispectral measurements of slightly anisotropic thin films by guided optics method</title>. , 1996, 2782, 674.		0
76	Refractive index modifications and thermal properties of optical thin films with the prism coupler. , 2000, , .		0
77	Quantitative characterization of potential energy landscape in holographic optical tweezers. Proceedings of SPIE, 2008, , .	0.8	0
78	Quadriwave lateral shearing interferometry for quantitative phase microscopy: applications to long-duration imaging. Proceedings of SPIE, 2010, , .	0.8	0
79	Quadriwave lateral shearing interferometry for quantitative phase microscopy: coupling phase imaging and fluorescence imaging. Proceedings of SPIE, 2011, , .	0.8	0
80	Advanced microscopy techniques for biological imaging. International Journal of Nanotechnology, 2012, 9, 548.	0.1	0
81	Towards endoscopes with no distal optics. , 2013, , .		0
82	In-line quantitative phase imaging for damage detection and analysis. Proceedings of SPIE, 2014, , .	0.8	0
83	Tomographic Incoherent Phase Imaging, a Diffraction Tomography Alternative. Biophysical Journal, 2014, 106, 603a.	0.2	0
84	Quantitative Retardance Imaging using Quadri-Wave Lateral Shearing Interferometry (QWLSI). Biophysical Journal, 2014, 106, 602a.	0.2	0
85	Dry Mass and Cell Cycle Follow-Up from Quantitative Phase Imaging. Biophysical Journal, 2014, 106, 575a.	0.2	0
86	Towards two-photon lensless endoscopes: inter-core group delay compensation in a multi-core fiber. Proceedings of SPIE, 2015, , .	0.8	0
87	Analysis of energy deposition and damage mechanisms in single layers of HfO ₂ and Nb ₂ O ₅ submitted to 500fs pulses. Proceedings of SPIE, 2015, , .	0.8	0
88	Time-resolved microscopy studies of laser damage dynamics at 0.5-1ps, 1030nm. , 2016, , .		0
89	Ultrathin endoscopes: nonlinear lensless imaging at the tip of a multimode fiber (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10		0
90	Label-free three-dimensional reconstruction of biological samples (Conference Presentation). , 2016, , .		0

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91	Fast quantitative retardance imaging of biological samples using quadri-wave interferometry (Conference Presentation). , 2016, , .		0
92	Label-free three dimensional reconstruction of biological samples (Conference Presentation). , 2016, , .		0
93	Fast quantitative retardance imaging of biological samples using quadri-wave interferometry (Conference Presentation). , 2017, , .		0
94	Quantitative Phase Imaging Biological Applications using Quadriwave Lateral Shearing Interferometry. Biophysical Journal, 2018, 114, 347a.	0.2	0
95	Complex Three-Dimensional Fluidic Reservoirs to Control Beads/Living Cells Contacts. , 2006, , .		0
96	Quantitative Phase Imaging biological applications using Quadri Wave Lateral Shearing Interferometry. , 2017, , .		0
97	New sensorless wavefront estimation approach for two-photon scanning microscopy. Proceedings of SPIE, 2017, , .	0.8	0
98	Simultaneous multiscale and bimodal imaging using lensfree microscopy. Proceedings of SPIE, 2017, , .	0.8	0
99	Statistical study of blood cell populations by very wide-field bimodal phase/ fluorescence imaging. , 2019, , .		0