

Giancarlo Pedrini

List of Publications by Year in descending order

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59
papers

2,735
citations

257101

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59
all docs

59
docs citations

59
times ranked

1361
citing authors

#	ARTICLE	IF	CITATIONS
1	Lenless phase imaging microscopy using multiple intensity diffraction patterns obtained under coherent and partially coherent illumination. Applied Optics, 2022, 61, B271.	0.9	3
2	55 Years of Holographic Non-Destructive Testing and Experimental Stress Analysis: Is there still Progress to be expected?. Light Advanced Manufacturing, 2022, 3, 1.	2.2	2
3	Roadmap on chaos-inspired imaging technologies (CI2-Tech). Applied Physics B: Lasers and Optics, 2022, 128, 1.	1.1	27
4	Differential phase measurement based on synchronous phase shift determination. Optics Express, 2022, 30, 12545.	1.7	1
5	Intrinsic parameter-free calibration of FPP using a ray phase mapping model. Optics Letters, 2022, 47, 3564.	1.7	8
6	Scatter-plate microscopy with spatially coherent illumination and temporal scatter modulation. Optics Express, 2021, 29, 4530.	1.7	8
7	Phase retrieval using 3D Fourier transforms of volume diffraction pattern. Optics Letters, 2021, 46, 1716.	1.7	1
8	Phase retrieval using bidirectional interference. Applied Optics, 2021, 60, 3517.	0.9	0
9	Single-pixel scatter-plate microscopy. Optics Letters, 2021, 46, 2473.	1.7	3
10	DL-SI-DHM: a deep network generating the high-resolution phase and amplitude images from wide-field images. Optics Express, 2021, 29, 19247.	1.7	5
11	Roadmap on digital holography [Invited]. Optics Express, 2021, 29, 35078.	1.7	133
12	Snap-shot topography measurement via dual-VCSEL and dual wavelength digital holographic interferometry. Light Advanced Manufacturing, 2021, 2, 1.	2.2	9
13	Residual Stress Evaluation in Ceramic Coating Under Industrial Conditions by Digital Holography. IEEE Transactions on Industrial Informatics, 2020, 16, 1102-1110.	7.2	4
14	Oblique illumination lateral shearing digital holographic microscopy. Journal of Optics (United Kingdom), 2020, 17, 120101.	1.0	2
15	Light-field depth estimation considering plenoptic imaging distortion. Optics Express, 2020, 28, 4156.	1.7	10
16	Structured-light-field 3D imaging without phase unwrapping. Optics and Lasers in Engineering, 2020, 129, 106047.	2.0	15
17	Numerical dark-field imaging using deep-learning. Optics Express, 2020, 28, 34266.	1.7	5
18	Single-shot structured-light-field three-dimensional imaging. Optics Letters, 2020, 45, 3256.	1.7	9

#	ARTICLE	IF	CITATIONS
19	Quantitative phase imaging in dual-wavelength interferometry using a single wavelength illumination and deep learning. <i>Optics Express</i> , 2020, 28, 28140.	1.7	12
20	Spectral Object Recognition in Hyperspectral Holography with Complex-Domain Denoising. <i>Sensors</i> , 2019, 19, 5188.	2.1	17
21	Improving reconstruction of speckle correlation imaging by using a modified phase retrieval algorithm with the number of nonzero-pixels constraint. <i>Applied Optics</i> , 2019, 58, 473.	0.9	18
22	Feasibility study of digital holography for erosion measurements under extreme environmental conditions inside the International Thermonuclear Experimental Reactor tokamak [invited]. <i>Applied Optics</i> , 2019, 58, A147.	0.9	24
23	Accurate depth estimation in structured light fields. <i>Optics Express</i> , 2019, 27, 13532.	1.7	21
24	Unfocused plenoptic metric modeling and calibration. <i>Optics Express</i> , 2019, 27, 20177.	1.7	8
25	Image reconstruction and enhancement by deconvolution in scatter-plate microscopy. <i>Optics Express</i> , 2019, 27, 23049.	1.7	13
26	Using wrapped phases for light-field three-dimensional imaging. , 2019, , .		0
27	Tunable output-frequency filter algorithm for imaging through scattering media under LED illumination. <i>Optics Communications</i> , 2018, 410, 160-163.	1.0	3
28	Variable Wavefront Curvature Phase Retrieval Compared to Off-Axis Holography and Its Useful Application to Support Intraoperative Tissue Discrimination. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2147.	1.3	1
29	Accuracy enhanced and synthetic wavelength adjustable optical metrology via spectrally resolved digital holography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, 546.	0.8	17
30	Surface relief and refractive index gratings patterned in chalcogenide glasses and studied by off-axis digital holography. <i>Applied Optics</i> , 2018, 57, 507.	0.9	35
31	Light-field-based absolute phase unwrapping. <i>Optics Letters</i> , 2018, 43, 5717.	1.7	19
32	Exploiting scattering media for exploring 3D objects. <i>Light: Science and Applications</i> , 2017, 6, e16219-e16219.	7.7	104
33	Scatter-plate microscope for lensless microscopy with diffraction limited resolution. <i>Scientific Reports</i> , 2017, 7, 10687.	1.6	59
34	Iterative phase retrieval based on variable wavefront curvature. <i>Applied Optics</i> , 2017, 56, F134.	2.1	24
35	Holographic Correloscopy – Unconventional Holographic Techniques For Imaging a Three-Dimensional Object Through an Opaque Diffuser or Via a Scattering Wall: A Review. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 1631-1640.	7.2	18
36	Numerical calculation of temperature and surface topology during a laser ablation process for ceramic coatings. <i>Meccanica</i> , 2016, 51, 279-289.	1.2	6

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37	Quantitative phase imaging using a deep UV LED source. <i>Optics Letters</i> , 2014, 39, 3468.	1.7	26
38	Opposed-view dark-field digital holographic microscopy. <i>Biomedical Optics Express</i> , 2014, 5, 728.	1.5	12
39	Recent advances in digital holography [Invited]. <i>Applied Optics</i> , 2014, 53, G44.	0.9	207
40	Looking through a diffuser and around an opaque surface: A holographic approach. <i>Optics Express</i> , 2014, 22, 7694.	1.7	88
41	Structured illumination for resolution enhancement and autofocusing in digital holographic microscopy. <i>Optics Letters</i> , 2013, 38, 1328.	1.7	112
42	Phase retrieval with resolution enhancement by using structured illumination. <i>Optics Letters</i> , 2013, 38, 5204.	1.7	44
43	High-contrast multilayer imaging of biological organisms through dark-field digital refocusing. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	1.4	13
44	Digital holography of self-luminous objects by using a Mach-Zehnder setup. <i>Optics Letters</i> , 2012, 37, 713.	1.7	51
45	Resolution improvement in digital holography by angular and polarization multiplexing. <i>Applied Optics</i> , 2011, 50, B6.	2.1	57
46	Phase retrieval by pinhole scanning. <i>Optics Letters</i> , 2011, 36, 1113.	1.7	9
47	Nanoscale imaging using deep ultraviolet digital holographic microscopy. <i>Optics Express</i> , 2010, 18, 14159.	1.7	84
48	Phase microscopy of technical and biological samples through random phase modulation with a diffuser. <i>Optics Letters</i> , 2010, 35, 1028.	1.7	34
49	Out-of-plane electrostatic microactuators with tunable stiffness. , 2010, , .		5
50	Dual-wavelength image-plane digital holography for dynamic measurement. <i>Optics and Lasers in Engineering</i> , 2009, 47, 552-557.	2.0	58
51	Phase retrieval using multiple illumination wavelengths. <i>Optics Letters</i> , 2008, 33, 309.	1.7	170
52	Phase retrieval of arbitrary complex-valued fields through aperture-plane modulation. <i>Physical Review A</i> , 2007, 75, .	1.0	172
53	Digital holographic microscopy in the deep (193 nm) ultraviolet. <i>Applied Optics</i> , 2007, 46, 7829.	2.1	31
54	High-speed digital holographic interferometry for vibration measurement. <i>Applied Optics</i> , 2006, 45, 3456.	2.1	195

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55	Complete wavefront reconstruction using sequential intensity measurements of a volume speckle field. <i>Applied Optics</i> , 2006, 45, 8596.	2.1	175
56	Wave-front reconstruction from a sequence of interferograms recorded at different planes. <i>Optics Letters</i> , 2005, 30, 833.	1.7	264
57	Aberration compensation in digital holographic reconstruction of microscopic objects. <i>Journal of Modern Optics</i> , 2001, 48, 1035-1041.	0.6	77
58	Pulsed digital holography for high-speed contouring that uses a two-wavelength method. <i>Applied Optics</i> , 1999, 38, 3460.	2.1	77
59	Simultaneous three-dimensional dynamic deformation measurements with pulsed digital holography. <i>Applied Optics</i> , 1999, 38, 7056.	2.1	130