

Gianfranco Coppola

List of Publications by Year in descending order

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216
papers

4,869
citations

101543

36
h-index

102487

66
g-index

218
all docs

218
docs citations

218
times ranked

4132
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Plasma Treatment on the Impact Behavior of Epoxy/Basalt Fiber-Reinforced Composites: A Preliminary Study. <i>Polymers</i> , 2021, 13, 1293.	4.5	22
2	Holographic Optical Lenses Recorded on a Glassy Matrix-Based Photopolymer for Solar Concentrators. <i>Photonics</i> , 2021, 8, 585.	2.0	3
3	Polarization-Sensitive Digital Holographic Imaging for Characterization of Microscopic Samples: Recent Advances and Perspectives. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4520.	2.5	19
4	Silicon Meet Graphene for a New Family of Near-Infrared Resonant Cavity Enhanced Photodetectors. , 2020, , .		2
5	Bound-state in the continuum of a photonic crystal metasurface: a platform for ultrasensitive sensing and near field amplification. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012138.	0.4	1
6	Roadmap on holography. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 123002.	2.2	54
7	Integrated Er/Si Schottky Photodetectors on the end facet of optical waveguides. <i>Journal of the European Optical Society-Rapid Publications</i> , 2020, 16, .	1.9	9
8	Volume Phase Holographic Lenses for Efficient Planar Solar Track-Concentrators. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 9-13.	0.4	0
9	A Polarized Digital Holographic Approach in Biological and Medical Research. , 2020, , .		0
10	Volume Holographic Optical Elements as Solar Concentrators: An Overview. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 193.	2.5	26
11	Combined Raman and polarization sensitive holographic imaging for a multimodal label-free assessment of human sperm function. <i>Scientific Reports</i> , 2019, 9, 4823.	3.3	23
12	Polarized Digital Holography as Valuable Analytical Tool in Biological and Medical Research. , 2019, , .		3
13	Tuning the exponential sensitivity of a bound-state-in-continuum optical sensor. <i>Optics Express</i> , 2019, 27, 18776.	3.4	71
14	Near-infrared modulation by means of GeTe/SOI-based metamaterial. <i>Optics Letters</i> , 2019, 44, 1508.	3.3	8
15	PYROELECTRIC EFFECT CONTROL: DESIGN, FABRICATION, AND CHARACTERIZATION OF A MICROHEATERS ARRAY FOR BIOMEDICAL APPLICATIONS. <i>Computational Thermal Sciences</i> , 2019, 11, 17-28.	0.9	0
16	Electro-drawn polymer microneedle arrays with controlled shape and dimension. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1553-1560.	7.8	34
17	PDMS-Based Microfluidic Devices for Cell Culture. <i>Inventions</i> , 2018, 3, 65.	2.5	85
18	Advanced Label-Free Optical Methods for Spermatozoa Quality Assessment and Selection. , 2018, , .		0

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19	Integrable Near-Infrared Photodetectors Based on Hybrid Erbium/Silicon Junctions. <i>Sensors</i> , 2018, 18, 3755.	3.8	1
20	Fiber-Tip Coupling of Bloch Surface Waves. , 2018, , .		1
21	Free-Space Schottky Graphene/Silicon Photodetectors Operating at 2 μ m. <i>ACS Photonics</i> , 2018, 5, 4577-4585.	6.6	30
22	Excitation of Bloch Surface Waves on an Optical Fiber Tip. <i>Advanced Optical Materials</i> , 2018, 6, 1800477.	7.3	38
23	Label-free sensing of ultralow-weight molecules with all-dielectric metasurfaces supporting bound states in the continuum. <i>Photonics Research</i> , 2018, 6, 726.	7.0	209
24	Optical sensors based on photonic crystal: a new route. , 2017, , .		2
25	Investigation of pyroelectric fields generated by lithium niobate crystals through integrated microheaters. <i>Sensors and Actuators A: Physical</i> , 2017, 261, 140-150.	4.1	16
26	Vertically Illuminated, Resonant Cavity Enhanced, Graphene-Silicon Schottky Photodetectors. <i>ACS Nano</i> , 2017, 11, 10955-10963.	14.6	101
27	PDMS membranes as sensing element in optical sensors for gas detection in water. <i>Sensing and Bio-Sensing Research</i> , 2017, 16, 74-78.	4.2	20
28	Combined Raman Spectroscopy and Digital Holographic Microscopy for Sperm Cell Quality Analysis. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-14.	1.3	15
29	Volume Holographic Optical Elements as Solar Concentrators. , 2017, , .		2
30	Microfluidic technology for cell hydrodynamic manipulation. <i>AIMS Biophysics</i> , 2017, 4, 178-191.	0.6	6
31	A Microfluidic Approach for Inducing Cell Rotation by Means of Hydrodynamic Forces. <i>Sensors</i> , 2016, 16, 1326.	3.8	21
32	Diatom Valve Three-Dimensional Representation: A New Imaging Method Based on Combined Microscopies. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1645.	4.1	7
33	Spiral formation at microscale by $\lambda/4$ -pyro-electrospinning. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
34	Spiral formation at the microscale by $\lambda/4$ -pyro-electrospinning. <i>Soft Matter</i> , 2016, 12, 5542-5550.	2.7	28
35	State-of-the-art all-silicon sub-bandgap photodetectors at telecom and datacom wavelengths. <i>Laser and Photonics Reviews</i> , 2016, 10, 895-921.	8.7	87
36	Simultaneous Holographic Microscopy and Raman Spectroscopy Monitoring of Human Spermatozoa Photodegradation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 27-34.	2.9	21

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37	Capacitance in Waveguide-Integrated Hydrogenated Amorphous Silicon <i>p-i-n</i> Diodes for Active Photonic Devices. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2016, 11, 395-400.	0.5	0
38	Holographic imaging of unlabelled sperm cells for semen analysis: a review. <i>Journal of Biophotonics</i> , 2015, 8, 779-789.	2.3	56
39	Multiplexed holographic lenses : realization and optical characterization. , 2015, , .		4
40	Hydrodynamic self-focusing in a parallel microfluidic device through cross-filtration. <i>Biomicrofluidics</i> , 2015, 9, 064107.	2.4	6
41	A combined holographic and Raman microscopy approach for the assessment of spermatozoa. , 2015, , .		1
42	Photopolymer-based volume holographic optical elements: design and possible applications. <i>Journal of the European Optical Society-Rapid Publications</i> , 2015, 10, 15057.	1.9	20
43	Label-Free Imaging and Biochemical Characterization of Bovine Sperm Cells. <i>Biosensors</i> , 2015, 5, 141-157.	4.7	42
44	Analysis of phase patterns in photochromic polyurethanes by a holographic approach. <i>Optical Materials Express</i> , 2015, 5, 2281.	3.0	4
45	Photoluminescence of graphene oxide integrated with silicon substrates. , 2015, , .		0
46	Volume holographic gratings: fabrication and characterization. <i>Proceedings of SPIE</i> , 2015, , .	0.8	8
47	Self-hydrodynamic focusing in a parallel microfluidic device. , 2015, , .		0
48	A parallel microfluidic device for hydrodynamic focusing of acute lymphoid Leukemia cells. , 2015, , .		0
49	Analysis of bovine sperm cells by a combined holographic and Raman microscopy approach. , 2015, , .		1
50	Use of amorphous silicon for the design of a photonic crystal based MZ modulator at 1.55 μ m. , 2015, , .		0
51	Inducing cell rotation in a microfluidic device by hydrodynamic forces. , 2015, , .		0
52	Recent advances in holographic 3D particle tracking. <i>Advances in Optics and Photonics</i> , 2015, 7, 713.	25.5	258
53	Schottky Graphene/Silicon Photodetectors Based on Internal Photoemission Effect. , 2015, , .		1
54	Spermatozoa quality assessment: a combined holographic and Raman microscopy approach. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0

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55	Volume holographic gratings as optical sensor for heavy metal in bathing waters. Proceedings of SPIE, 2015, , .	0.8	7
56	Optical Properties of Diatom Nanostructured Biosilica in Arachnoidiscus sp: Micro-Optics from Mother Nature. PLoS ONE, 2014, 9, e103750.	2.5	82
57	4D tracking of clinical seminal samples for quantitative characterization of motility parameters. Biomedical Optics Express, 2014, 5, 690.	2.9	64
58	Non-invasive sex assessment in bovine semen by Raman spectroscopy. Laser Physics Letters, 2014, 11, 055604.	1.4	32
59	Label-free biochemical characterization of bovine sperm cells using Raman microscopy. Proceedings of SPIE, 2014, , .	0.8	0
60	3D manipulation and visualization of in-vitro cells by optical tweezers and digital holographic microscopy. Proceedings of SPIE, 2014, , .	0.8	1
61	Shedding light on diatom photonics by means of digital holography. Journal of Biophotonics, 2014, 7, 341-350.	2.3	46
62	CMOS-compatible amorphous silicon photonic layer integrated with VLSI electronics. , 2014, , .		1
63	Raman sex sorting of bovine spermatozoa. , 2014, , .		1
64	Three-dimensional imaging using digital holography and scanning electron microscopy. , 2014, , .		0
65	Silicon photodetectors based on internal photoemission effect: The challenge of detecting near infrared light. , 2014, , .		4
66	NIR silicon Schottky photodetector: From metal to graphene. , 2014, , .		1
67	Progress towards a high-performing a-Si:H-based electro-optic modulator. Journal of Optics (United Tj ETQq1 1 0.784314 rgBT /Overl 2.2 4		
68	Digital holographic microscopy for the evaluation of human sperm structure. Zygote, 2014, 22, 446-454.	1.1	24
69	3D visualization and biovolume estimation of motile cells by digital holography. Proceedings of SPIE, 2014, , .	0.8	0
70	Biovolume calculation and three-dimensional imaging of bovine spermatozoa by digital holography. , 2014, , .		0
71	Digital holography as a method for 3D imaging and estimating the biovolume of motile cells. Lab on A Chip, 2013, 13, 4512.	6.0	152
72	Optical cavity-enhanced surface plasmon resonance refractive index sensing. , 2013, , .		0

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73	Hydrogenated amorphous silicon multi-SOI waveguide modulator with low voltage length product. Optics and Laser Technology, 2013, 45, 204-208.	4.6	8
74	Spontaneous Assembly of Carbon-Based Chains in Polymer Matrixes through Surface Charge Templates. Langmuir, 2013, 29, 15503-15510.	3.5	18
75	Characterization of photopolymers as optical recording materials by means of digital holography microscopy. , 2013, , .		6
76	Asymmetric MSM sub-bandgap all-silicon photodetector with low dark current. Optics Express, 2013, 21, 28072.	3.4	51
77	Surface plasmon resonance optical cavity enhanced refractive index sensing. Optics Letters, 2013, 38, 1951.	3.3	34
78	Optics with diatoms: towards efficient, bioinspired photonic devices at the micro-scale. , 2013, , .		10
79	Electro-optical effect in hydrogenated amorphous silicon-based waveguide-integrated p-i-p and p-i-n configurations. Optical Engineering, 2013, 52, 087110.	1.0	8
80	Low dark current silicon-on-insulator waveguide metal-semiconductor-metal-photodetector based on internal photoemissions at 1550 nm. Journal of Applied Physics, 2013, 114, .	2.5	26
81	Investigation on 3D morphological changes of in vitro cells through digital holographic microscopy. Proceedings of SPIE, 2013, , .	0.8	2
82	Label-free biochemical characterization of bovine sperm cells using Raman microscopy. Proceedings of SPIE, 2013, , .	0.8	0
83	Near-Infrared All-Silicon Photodetectors. International Journal of Photoenergy, 2012, 2012, 1-6.	2.5	13
84	A 25 ns switching time Mach-Zehnder modulator in as-deposited a-Si:H. Optics Express, 2012, 20, 9351.	3.4	22
85	Digital holographic microscopy characterization of superdirective beam by metamaterial. Optics Letters, 2012, 37, 1142.	3.3	27
86	Critically coupled silicon Fabry-Perot photodetectors based on the internal photoemission effect at 1550 nm. Optics Express, 2012, 20, 12599.	3.4	39
87	CMOS-compatible electro-optical Mach-Zehnder modulator based on the amorphous silicon technology. , 2012, , .		0
88	Characterization of an electrically induced refractive index change in a hydrogenated amorphous silicon multistack waveguide. , 2011, , .		1
89	All-silicon integrated photodetector for near infrared wavelengths based on the internal photoemission effect. , 2011, , .		0
90	Electro-optical modulation at 1550 nm in an as-deposited hydrogenated amorphous silicon p-i-n waveguiding device. Optics Express, 2011, 19, 2941.	3.4	33

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91	Identification of bovine sperm head for morphometry analysis in quantitative phase-contrast holographic microscopy. Optics Express, 2011, 19, 23215.	3.4	74
92	Microcavity Silicon Photodetectors at 1.55 μ m. Advances in OptoElectronics, 2011, 2011, 1-10.	0.6	9
93	Detection and visualization improvement of spermatozoa cells by digital holography. , 2011, , .		4
94	Intracytoplasmic injection of morphologically selected spermatozoa (IMSI) improves outcome after assisted reproduction by deselecting physiologically poor quality spermatozoa. Journal of Assisted Reproduction and Genetics, 2011, 28, 253-262.	2.5	115
95	Advance in thermo-optical switches: principles, materials, design, and device structure. Optical Engineering, 2011, 50, 071112.	1.0	81
96	Quantitative Phase Contrast in Holographic Microscopy Through the Numerical Manipulation of the Retrieved Wavefronts. Springer Series in Surface Sciences, 2011, , 61-85.	0.3	2
97	Digital holographic self-referencing quantitative phase microscopy. , 2011, , .		0
98	Quantitative Label-Free Animal Sperm Imaging by Means of Digital Holographic Microscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 833-840.	2.9	57
99	Cu/p-Si Schottky photodetectors at 1.55 μ m. Proceedings of SPIE, 2010, , .	0.8	0
100	Fabrication and characterization of a porous silicon based microarray for label-free optical monitoring of biomolecular interactions. Journal of Applied Physics, 2010, 107, .	2.5	49
101	Thermo-optical switches. , 2010, , 61-96.		4
102	Near-Infrared Sub-Bandgap All-Silicon Photodetectors: State of the Art and Perspectives. Sensors, 2010, 10, 10571-10600.	3.8	145
103	Fabrication and Characterization of a Silicon Photodetector at 1.55 Micron. Lecture Notes in Electrical Engineering, 2010, , 113-116.	0.4	0
104	A porous silicon based microarray for label-free optical detection of DNA hybridization. Proceedings of SPIE, 2010, , .	0.8	0
105	Digital self-referencing quantitative phase microscopy by wavefront folding in holographic image reconstruction. Optics Letters, 2010, 35, 3390.	3.3	88
106	Cavity Enhanced Internal Photoemission Effect in Silicon Photodiode for Sub-Bandgap Detection. Journal of Lightwave Technology, 2010, , .	4.6	15
107	Cu/p-Si Schottky barrier-based near infrared photodetector integrated with a silicon-on-insulator waveguide. Applied Physics Letters, 2010, 96, .	3.3	67
108	Fabrication and Characterization of a Back-Illuminated Resonant Cavity Enhanced Silicon Photo-Detector Working at 1.55 μ m. Fiber and Integrated Optics, 2010, 29, 85-95.	2.5	0

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109	Mid-infrared tunable two-dimensional Talbot array illuminator. Applied Physics Letters, 2009, 94, 121105.	3.3	20
110	Microfluidic system based on the digital holography microscope for analysis of motile sperm. , 2009, , .		1
111	Micro and nanophotonics in silicon: new perspectives and applications. , 2009, , .		0
112	Back-illuminated silicon resonant cavity-enhanced photodetector at 1550nm. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1097-1101.	2.7	16
113	A porous silicon-based Bragg grating waveguide sensor for chemical monitoring. Sensors and Actuators B: Chemical, 2009, 139, 39-43.	7.8	53
114	Label-free biosensing by means of optical micro-ring resonator. Proceedings of SPIE, 2009, , .	0.8	4
115	Analysis of the Actuation of an RF-MEMS by Means of Digital Holography. Journal of Holography and Speckle, 2009, 5, 175-179.	0.1	1
116	Imaging 3-D Objects by Extending the Depth of Focus in Digital Holography. , 2009, , 281-301.		0
117	Flexible coherent diffraction lithography by tunable phase arrays in lithium niobate crystals. Optics Communications, 2008, 281, 1950-1953.	2.1	9
118	A porous silicon Bragg grating waveguide by direct laser writing. Journal of Physics Condensed Matter, 2008, 20, 365203.	1.8	6
119	Laser direct-writing of Bragg gratings waveguides on porous silicon. , 2008, , .		4
120	Silicon resonant cavity enhanced photodetector based on the internal photoemission effect at 1.55 μ m: Fabrication and characterization. Applied Physics Letters, 2008, 92, 251104.	3.3	58
121	An all-organic technology platform for electronic devices manufacturing. , 2008, , .		0
122	Optical sensing of chemicals by a porous silicon Bragg grating waveguide. Proceedings of SPIE, 2008, , .	0.8	3
123	Fabrication and characterization of resonant cavity enhanced silicon photodetectors at 1.55 μ m. , 2008, , .		0
124	Phase map retrieval in digital holography: avoiding the under-sampling effect by a lateral shear approach. Proceedings of SPIE, 2008, , .	0.8	0
125	A Nondestructive Dynamic Characterization of a Microheater Through Digital Holographic Microscopy. Journal of Microelectromechanical Systems, 2007, 16, 659-667.	2.5	16
126	Electro-Optic Modulated Phase Array in Hexagonally Poled Lithium Niobate for Flexible Array Illuminator Device. Ferroelectrics, 2007, 352, 94-99.	0.6	0

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127	Analysis of a planar silicon opto-electronic modulator based on the waveguide-vanishing effect. Proceedings of SPIE, 2007, , .	0.8	6
128	Fabrication and characterization of zinc oxide based rib waveguide. , 2007, , .		2
129	Phase map retrieval in digital holography: avoiding the undersampling effect by a lateral shear approach. Optics Letters, 2007, 32, 2233.	3.3	37
130	Fiber optic sensors system for high-temperature monitoring of aerospace structures. Proceedings of SPIE, 2007, , .	0.8	13
131	The influence of oxygen on the optical properties of RF-sputtered zinc oxide thin films. Superlattices and Microstructures, 2007, 42, 85-88.	3.1	3
132	Performance evaluation of fiber Bragg grating sensors by digital holographic technique, strain gauge measurement. Optics and Lasers in Engineering, 2007, 45, 385-389.	3.8	2
133	Green's formulation for robust phase unwrapping in digital holography. Optics and Lasers in Engineering, 2007, 45, 750-755.	3.8	14
134	Development of a fiber optic health monitoring system for aerospace applications. Optoelectronics Letters, 2007, 3, 260-263.	0.8	1
135	Photolithography by a tunable electro-optical lithium niobate phase array. Optoelectronics Letters, 2007, 3, 243-245.	0.8	0
136	Controlling Image Reconstruction Process in Digital Holography. , 2006, , 173-212.		3
137	Photonics Devices Based on Hybrid Approach Combining Liquid Crystals and Sol-Gel Waveguides. Fiber and Integrated Optics, 2006, 25, 175-194.	2.5	2
138	Tunable two-dimensional hexagonal phase array in domain-engineered Z-cut lithium niobate crystal. Optics Letters, 2006, 31, 3164.	3.3	31
139	Interferometric measurement of thickness of silicon nitride layer in bi-morph silicon MEMS. , 2006, , .		0
140	2D lithium niobate microstructures: fabrication, characterization, and applications. , 2006, 6185, 418.		1
141	Improvement of the reconstruction algorithm for extended focus image of MEMS by digital holography. , 2006, , .		0
142	3D Imaging With Large Focus Extension By A Coherent Optical Microscope. AIP Conference Proceedings, 2006, , .	0.4	0
143	Method for superposing reconstructed images from digital holograms of the same object recorded at different distance and wavelength. Optics Communications, 2006, 260, 113-116.	2.1	47
144	An interferometric demodulation method for visualizing and determining quasi-static strain by FBG sensors. Measurement Science and Technology, 2006, 17, 1485-1490.	2.6	3

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145	Thermo-electro-optical analysis of an integrated waveguide-vanishing-based optical modulator. Journal of Optics, 2006, 8, S567-S573.	1.5	4
146	Digital Holography: Recent Advancements and Prospective Improvements for Applications in Microscopy. Advanced Sciences and Technologies for Security Applications, 2006, , 47-84.	0.5	11
147	Characterization of microelectromechanical systems by digital holography method. Imaging Science Journal, 2006, 54, 103-110.	0.5	5
148	Thermo-Electrical Analysis of an Optoelectronic Modulator Integrated in a SOI Rib Waveguide Operating in the Gb/s Regime. Materials Research Society Symposia Proceedings, 2006, 934, 1.	0.1	0
149	Waveguide-vanishing-based optical modulator in embedded all-silicon structure. , 2005, , .		3
150	Fiber Bragg grating sensor monitoring with thermally tuned Fabry-Perot cavity integrated in an all-silicon rib waveguide. , 2005, 5730, 234.		0
151	Non-destructive optical system based on digital holographic microscope for quasi real-time characterization of micromechanical shunt switch. , 2005, , .		1
152	Thermo-opto-electrical analysis of an optical modulator integrated in a silicon planar structure. , 2005, , .		0
153	A miniaturizable integrated Si-based light modulator. , 2005, , .		0
154	Experimental Evidences of Carrier Distribution and Behavior in Frequency in a BMFET Modulator. IEEE Transactions on Electron Devices, 2005, 52, 2374-2378.	3.0	8
155	Digital holography microscope as tool for microelectromechanical systems characterization and design. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2005, 4, 013012.	0.9	5
156	Miniaturizable Si-based electro-optical modulator working at 1.5 μ m. Applied Physics Letters, 2005, 86, 201115.	3.3	18
157	Photonics Devices Based on Hybrid Approach Combining Liquid Crystals and Sol-Gel Waveguides. Molecular Crystals and Liquid Crystals, 2005, 429, 149-165.	0.9	0
158	Image focusing properties in reconstructing digital holograms. , 2005, , .		0
159	How to extend depth of focus in 3D digital holography. , 2005, 6016, 174.		1
160	Extended focused image in microscopy by digital holography. Optics Express, 2005, 13, 6738.	3.4	262
161	Coherent imaging by digital holographic microscopy: focusing capabilities and depth of focus in the reconstructed images. , 2005, , .		0
162	Interferometric visualization and demodulation method for measuring quasi-static strain in fiber Bragg grating sensors by a simple rotating etalon filter. , 2004, , .		0

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163	Surface topography of microstructures in lithium niobate by digital holographic microscopy. Measurement Science and Technology, 2004, 15, 961-968.	2.6	34
164	Thickness measurement of thin transparent plates with a broadband wavelength-scanning interferometer. , 2004, 5458, 64.		0
165	Recovering image resolution in reconstructing digital off-axis holograms by Fresnel-transform method. Applied Physics Letters, 2004, 85, 2709-2711.	3.3	56
166	A digital holographic microscope for complete characterization of microelectromechanical systems. Measurement Science and Technology, 2004, 15, 529-539.	2.6	161
167	Recent advancements in digital holographic microscopy and its applications. , 2004, 5457, 481.		1
168	Controlling several image parameters in the digital holographic reconstruction process. , 2004, , .		0
169	Controlling Images Parameters in the Reconstruction Process of Digital Holograms. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 829-839.	2.9	12
170	Thickness Measurement of Thin Transparent Plates With a Broad-Band Wavelength Scanning Interferometer. IEEE Photonics Technology Letters, 2004, 16, 1349-1351.	2.5	9
171	Talbot self-image effect in digital holography and its application to spectrometry. Optics Letters, 2004, 29, 104.	3.3	30
172	Controlling image size as a function of distance and wavelength in Fresnel-transform reconstruction of digital holograms. Optics Letters, 2004, 29, 854.	3.3	234
173	An integrated Si-based electro-optical modulator. , 2004, , .		0
174	A novel interferometric spectrometer obtained by imaging Talbot effect in digital holography. , 2004, 5457, 651.		1
175	Digital holographic microscope for thermal characterization of silicon microhotplates for gas sensor. , 2004, , .		0
176	A new e-commerce platform based on virtual reality. , 2004, , .		0
177	Testing silicon MEMS structures subjected to thermal loading by digital holography. , 2004, 5343, 235.		4
178	Three terminals optoelectronics devices integrated into a silicon on silicon waveguide. Optics and Lasers in Engineering, 2003, 39, 317-332.	3.8	3
179	Compensation of the inherent wave front curvature in digital holographic coherent microscopy for quantitative phase-contrast imaging. Applied Optics, 2003, 42, 1938.	2.1	349
180	Method for measuring the refractive index and the thickness of transparent plates with a lateral-shear, wavelength-scanning interferometer. Applied Optics, 2003, 42, 3882.	2.1	87

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181	Design, fabrication, and testing of an integrated si-based light modulator. Journal of Lightwave Technology, 2003, 21, 228-235.	4.6	41
182	Digital holographic microscope with automatic focus tracking by detecting sample displacement in real time. Optics Letters, 2003, 28, 1257.	3.3	172
183	Visualization of optical deflection and switching operations by a domain-engineered-based LiNbO ₃ electro-optic device. Optics Express, 2003, 11, 1212.	3.4	11
184	Optical multimode interference router based on a liquid crystal waveguide. Journal of Optics, 2003, 5, S298-S304.	1.5	12
185	Evaluation of residual stress in MEMS structures by digital holography. , 2003, , .		3
186	Electro-optical switch based on a Bragg grating in a liquid crystal waveguide. , 2003, 4829, 522.		0
187	Simple interferometric method for measuring severally the refractive index and the thickness of transparent plates. , 2003, , .		2
188	Optoelectronic router in glass waveguide with a liquid crystal cladding. , 2003, , .		0
189	Characterization of MEMS structures by microscopic digital holography. , 2003, 4945, 71.		17
190	Investigation of silicon MEMS structures subjected to thermal loading by digital holography. , 2003, 5145, 146.		0
191	Experimental results of a three-terminal optical modulator based on a BMFET device. , 2003, , .		0
192	Electro-optically controlled switching and deflection in domain-engineered LiNbO ₃ . , 2003, , .		1
193	Detecting vibrations by fiber Bragg sensor interrogated with a bipolished silicon sample. , 2003, 4943, 100.		0
194	Lateral shearing interferometer for measuring refractive index of silicon. , 2003, , .		0
195	Characterization of microstructures in lithium niobate crystals by digital holography. , 2003, 4944, 353.		5
196	Electro-optical switch and continuously tunable filter based on a Bragg grating in a planar waveguide with a liquid crystal overlayer. Optical Engineering, 2002, 41, 2890.	1.0	42
197	Design, fabrication, and testing of an integrated Si-based light modulator: experimental evidence of plasma redistribution. , 2002, , .		1
198	Optical Multimode Interference Router in Sol-gel Waveguide with a Liquid Crystal Cladding. Molecular Crystals and Liquid Crystals, 2002, 375, 107-119.	0.9	0

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199	Optoelectronic switch and continuously tunable filter based on a liquid crystal waveguide. , 2001, , .		1
200	Optoelectronic router based on a liquid crystal waveguide. , 2001, , .		0
201	Temperature optical sensor based on a silicon bimodal Y branch. , 2001, , .		5
202	Simulation and analysis of a high-efficiency silicon optoelectronic modulator based on a Bragg mirror. Optical Engineering, 2001, 40, 1076.	1.0	17
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