

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	Compensation of the inherent wave front curvature in digital holographic coherent microscopy for quantitative phase-contrast imaging. <i>Applied Optics</i> , 2003, 42, 1938.	2.1	349
2	Extended focused image in microscopy by digital holography. <i>Optics Express</i> , 2005, 13, 6738.	3.4	262
3	Recent advances in holographic 3D particle tracking. <i>Advances in Optics and Photonics</i> , 2015, 7, 713.	25.5	258
4	Controlling image size as a function of distance and wavelength in Fresnel-transform reconstruction of digital holograms. <i>Optics Letters</i> , 2004, 29, 854.	3.3	234
5	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
6	Digital holographic microscope with automatic focus tracking by detecting sample displacement in real time. <i>Optics Letters</i> , 2003, 28, 1257.	3.3	172
7	A digital holographic microscope for complete characterization of microelectromechanical systems. <i>Measurement Science and Technology</i> , 2004, 15, 529-539.	2.6	161
8	Digital holography as a method for 3D imaging and estimating the biovolume of motile cells. <i>Lab on A Chip</i> , 2013, 13, 4512.	6.0	152
9	Near-Infrared Sub-Bandgap All-Silicon Photodetectors: State of the Art and Perspectives. <i>Sensors</i> , 2010, 10, 10571-10600.	3.8	145
10	Intracytoplasmic injection of morphologically selected spermatozoa (IMSI) improves outcome after assisted reproduction by deselecting physiologically poor quality spermatozoa. <i>Journal of Assisted Reproduction and Genetics</i> , 2011, 28, 253-262.	2.5	115
11	Vertically Illuminated, Resonant Cavity Enhanced, Graphene-Silicon Schottky Photodetectors. <i>ACS Nano</i> , 2017, 11, 10955-10963.	14.6	101
12	Digital self-referencing quantitative phase microscopy by wavefront folding in holographic image reconstruction. <i>Optics Letters</i> , 2010, 35, 3390.	3.3	88
13	Method for measuring the refractive index and the thickness of transparent plates with a lateral-shear, wavelength-scanning interferometer. <i>Applied Optics</i> , 2003, 42, 3882.	2.1	87
14	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
15	PDMS-Based Microfluidic Devices for Cell Culture. <i>Inventions</i> , 2018, 3, 65.	2.5	85
16	Optical Properties of Diatom Nanostructured Biosilica in <i>Arachnoidiscus</i> sp: Micro-Optics from Mother Nature. <i>PLoS ONE</i> , 2014, 9, e103750.	2.5	82
17	Advance in thermo-optical switches: principles, materials, design, and device structure. <i>Optical Engineering</i> , 2011, 50, 071112.	1.0	81
18	Identification of bovine sperm head for morphometry analysis in quantitative phase-contrast holographic microscopy. <i>Optics Express</i> , 2011, 19, 23215.	3.4	74

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19	Tuning the exponential sensitivity of a bound-state-in-continuum optical sensor. <i>Optics Express</i> , 2019, 27, 18776.	3.4	71
20	Cu/p-Si Schottky barrier-based near infrared photodetector integrated with a silicon-on-insulator waveguide. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	67
21	4D tracking of clinical seminal samples for quantitative characterization of motility parameters. <i>Biomedical Optics Express</i> , 2014, 5, 690.	2.9	64
22	Silicon resonant cavity enhanced photodetector based on the internal photoemission effect at 1.55 μ m: Fabrication and characterization. <i>Applied Physics Letters</i> , 2008, 92, 251104.	3.3	58
23	Quantitative Label-Free Animal Sperm Imaging by Means of Digital Holographic Microscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 833-840.	2.9	57
24	Recovering image resolution in reconstructing digital off-axis holograms by Fresnel-transform method. <i>Applied Physics Letters</i> , 2004, 85, 2709-2711.	3.3	56
25	Holographic imaging of unlabelled sperm cells for semen analysis: a review. <i>Journal of Biophotonics</i> , 2015, 8, 779-789.	2.3	56
26	Roadmap on holography. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 123002.	2.2	54
27	A porous silicon-based Bragg grating waveguide sensor for chemical monitoring. <i>Sensors and Actuators B: Chemical</i> , 2009, 139, 39-43.	7.8	53
28	Asymmetric MSM sub-bandgap all-silicon photodetector with low dark current. <i>Optics Express</i> , 2013, 21, 28072.	3.4	51
29	Fabrication and characterization of a porous silicon based microarray for label-free optical monitoring of biomolecular interactions. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	49
30	Method for superposing reconstructed images from digital holograms of the same object recorded at different distance and wavelength. <i>Optics Communications</i> , 2006, 260, 113-116.	2.1	47
31	Shedding light on diatom photonics by means of digital holography. <i>Journal of Biophotonics</i> , 2014, 7, 341-350.	2.3	46
32	Electro-optical switch and continuously tunable filter based on a Bragg grating in a planar waveguide with a liquid crystal overlayer. <i>Optical Engineering</i> , 2002, 41, 2890.	1.0	42
33	Label-Free Imaging and Biochemical Characterization of Bovine Sperm Cells. <i>Biosensors</i> , 2015, 5, 141-157.	4.7	42
34	Design, fabrication, and testing of an integrated si-based light modulator. <i>Journal of Lightwave Technology</i> , 2003, 21, 228-235.	4.6	41
35	Critically coupled silicon Fabry-Perot photodetectors based on the internal photoemission effect at 1550 nm. <i>Optics Express</i> , 2012, 20, 12599.	3.4	39
36	Excitation of Bloch Surface Waves on an Optical Fiber Tip. <i>Advanced Optical Materials</i> , 2018, 6, 1800477.	7.3	38

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37	Phase map retrieval in digital holography: avoiding the undersampling effect by a lateral shear approach. <i>Optics Letters</i> , 2007, 32, 2233.	3.3	37
38	Surface topography of microstructures in lithium niobate by digital holographic microscopy. <i>Measurement Science and Technology</i> , 2004, 15, 961-968.	2.6	34
39	Surface plasmon resonance optical cavity enhanced refractive index sensing. <i>Optics Letters</i> , 2013, 38, 1951.	3.3	34
40	Electro-drawn polymer microneedle arrays with controlled shape and dimension. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1553-1560.	7.8	34
41	Electro-optical modulation at 1550 nm in an as-deposited hydrogenated amorphous silicon p-i-n waveguiding device. <i>Optics Express</i> , 2011, 19, 2941.	3.4	33
42	Non-invasive sex assessment in bovine semen by Raman spectroscopy. <i>Laser Physics Letters</i> , 2014, 11, 055604.	1.4	32
43	Tunable two-dimensional hexagonal phase array in domain-engineered Z-cut lithium niobate crystal. <i>Optics Letters</i> , 2006, 31, 3164.	3.3	31
44	Talbot self-image effect in digital holography and its application to spectrometry. <i>Optics Letters</i> , 2004, 29, 104.	3.3	30
45	Free-Space Schottky Graphene/Silicon Photodetectors Operating at 2 μ m. <i>ACS Photonics</i> , 2018, 5, 4577-4585.	6.6	30
46	Spiral formation at the microscale by μ -pyro-electrospinning. <i>Soft Matter</i> , 2016, 12, 5542-5550.	2.7	28
47	Digital holographic microscopy characterization of superdirective beam by metamaterial. <i>Optics Letters</i> , 2012, 37, 1142.	3.3	27
48	Low dark current silicon-on-insulator waveguide metal-semiconductor-metal-photodetector based on internal photoemissions at 1550 nm. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	26
49	Volume Holographic Optical Elements as Solar Concentrators: An Overview. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 193.	2.5	26
50	Digital holographic microscopy for the evaluation of human sperm structure. <i>Zygote</i> , 2014, 22, 446-454.	1.1	24
51	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
52	Analysis of feasibility on the use of fiber Bragg grating sensors as ultrasound detectors. , 2001, , .		22
53	A 25 ns switching time Mach-Zehnder modulator in as-deposited a-Si:H. <i>Optics Express</i> , 2012, 20, 9351.	3.4	22
54	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

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55	A Microfluidic Approach for Inducing Cell Rotation by Means of Hydrodynamic Forces. <i>Sensors</i> , 2016, 16, 1326.	3.8	21
56	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
57	Mid-infrared tunable two-dimensional Talbot array illuminator. <i>Applied Physics Letters</i> , 2009, 94, 121105.	3.3	20
58	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
59	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
60	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
61	Effect of fabrication errors in channel waveguide Bragg gratings. <i>Applied Optics</i> , 1999, 38, 1752.	2.1	18
62	Miniaturizable Si-based electro-optical modulator working at 1.5 μ m. <i>Applied Physics Letters</i> , 2005, 86, 201115.	3.3	18
63	Spontaneous Assembly of Carbon-Based Chains in Polymer Matrixes through Surface Charge Templates. <i>Langmuir</i> , 2013, 29, 15503-15510.	3.5	18
64	Simulation and analysis of a high-efficiency silicon optoelectronic modulator based on a Bragg mirror. <i>Optical Engineering</i> , 2001, 40, 1076.	1.0	17
65	Characterization of MEMS structures by microscopic digital holography. , 2003, 4945, 71.		17
66	A Nondestructive Dynamic Characterization of a Microheater Through Digital Holographic Microscopy. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 659-667.	2.5	16
67	Back-illuminated silicon resonant cavity-enhanced photodetector at 1550nm. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1097-1101.	2.7	16
68	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
69	Cavity Enhanced Internal Photoemission Effect in Silicon Photodiode for Sub-Bandgap Detection. <i>Journal of Lightwave Technology</i> , 2010, , .	4.6	15
70	Combined Raman Spectroscopy and Digital Holographic Microscopy for Sperm Cell Quality Analysis. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-14.	1.3	15
71	Green's formulation for robust phase unwrapping in digital holography. <i>Optics and Lasers in Engineering</i> , 2007, 45, 750-755.	3.8	14
72	Digital holography for characterization and testing of MEMS structures. , 0, , .		13

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73	Fiber optic sensors system for high-temperature monitoring of aerospace structures. Proceedings of SPIE, 2007, , .	0.8	13
74	Near-Infrared All-Silicon Photodetectors. International Journal of Photoenergy, 2012, 2012, 1-6.	2.5	13
75	Optical multimode interference router based on a liquid crystal waveguide. Journal of Optics, 2003, 5, S298-S304.	1.5	12
76	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
77	Feasibility analysis of laser action in erbium-doped silicon waveguides. IEEE Journal of Quantum Electronics, 2000, 36, 1206-1213.	1.9	11
78	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
79	Digital Holography: Recent Advancements and Prospective Improvements for Applications in Microscopy. Advanced Sciences and Technologies for Security Applications, 2006, , 47-84.	0.5	11
80	<title>High-efficiency silicon optoelectronic modulator based on a Bragg mirror and integrated in a low-loss silicon-on-insulator waveguide</title>. , 1999, 3847, 94.		10
81	Fast silicon-on-silicon optoelectronic router based on a BMFET device. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 14-18.	2.9	10
82	Optics with diatoms: towards efficient, bioinspired photonic devices at the micro-scale. , 2013, , .		10
83	Thickness Measurement of Thin Transparent Plates With a Broad-Band Wavelength Scanning Interferometer. IEEE Photonics Technology Letters, 2004, 16, 1349-1351.	2.5	9
84	Flexible coherent diffraction lithography by tunable phase arrays in lithium niobate crystals. Optics Communications, 2008, 281, 1950-1953.	2.1	9
85	Microcavity Silicon Photodetectors at 1.55â€‰ μ m. Advances in OptoElectronics, 2011, 2011, 1-10.	0.6	9
86	Integrated Er/Si Schottky Photodetectors on the end facet of optical waveguides. Journal of the European Optical Society-Rapid Publications, 2020, 16, .	1.9	9
87	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
88	Hydrogenated amorphous silicon multi-SOI waveguide modulator with low voltageâ€“length product. Optics and Laser Technology, 2013, 45, 204-208.	4.6	8
89	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
90	Volume holographic gratings: fabrication and characterization. Proceedings of SPIE, 2015, , .	0.8	8

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91	Near-infrared modulation by means of GeTe/SOI-based metamaterial. Optics Letters, 2019, 44, 1508.	3.3	8
92	Volume holographic gratings as optical sensor for heavy metal in bathing waters. Proceedings of SPIE, 2015, , .	0.8	7
93	Diatom Valve Three-Dimensional Representation: A New Imaging Method Based on Combined Microscopies. International Journal of Molecular Sciences, 2016, 17, 1645.	4.1	7
94	Analysis of a planar silicon opto-electronic modulator based on the waveguide-vanishing effect. Proceedings of SPIE, 2007, , .	0.8	6
95	A porous silicon Bragg grating waveguide by direct laser writing. Journal of Physics Condensed Matter, 2008, 20, 365203.	1.8	6
96	Characterization of photopolymers as optical recording materials by means of digital holography microscopy. , 2013, , .		6
97	Hydrodynamic self-focusing in a parallel microfluidic device through cross-filtration. Biomicrofluidics, 2015, 9, 064107.	2.4	6
98	Microfluidic technology for cell hydrodynamic manipulation. AIMS Biophysics, 2017, 4, 178-191.	0.6	6
99	Temperature optical sensor based on a silicon bimodal Y branch. , 2001, , .		5
100	Characterization of microstructures in lithium niobate crystals by digital holography. , 2003, 4944, 353.		5
101	Digital holography microscope as tool for microelectromechanical systems characterization and design. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2005, 4, 013012.	0.9	5
102	Characterization of microelectromechanical systems by digital holography method. Imaging Science Journal, 2006, 54, 103-110.	0.5	5
103	All-silicon mode-mixing router based on the plasma-dispersion effect. Journal of Optics, 2001, 3, 346-354.	1.5	4
104	Testing silicon MEMS structures subjected to thermal loading by digital holography. , 2004, 5343, 235.		4
105	Thermo-electro-optical analysis of an integrated waveguide-vanishing-based optical modulator. Journal of Optics, 2006, 8, S567-S573.	1.5	4
106	Laser direct-writing of Bragg gratings waveguides on porous silicon. , 2008, , .		4
107	Label-free biosensing by means of optical micro-ring resonator. Proceedings of SPIE, 2009, , .	0.8	4
108	Thermo-optical switches. , 2010, , 61-96.		4

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109	Detection and visualization improvement of spermatozoa cells by digital holography. , 2011, , .		4
110	Silicon photodetectors based on internal photoemission effect: The challenge of detecting near infrared light. , 2014, , .		4
111	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	2.2	4
112	Multiplexed holographic lenses : realization and optical characterization. , 2015, , .		4
113	Analysis of phase patterns in photochromic polyurethanes by a holographic approach. Optical Materials Express, 2015, 5, 2281.	3.0	4
114	Three terminals optoelectronics devices integrated into a silicon on silicon waveguide. Optics and Lasers in Engineering, 2003, 39, 317-332.	3.8	3
115	Evaluation of residual stress in MEMS structures by digital holography. , 2003, , .		3
116	Waveguide-vanishing-based optical modulator in embedded all-silicon structure. , 2005, , .		3
117	Controlling Image Reconstruction Process in Digital Holography. , 2006, , 173-212.		3
118	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
119	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
120	Optical sensing of chemicals by a porous silicon Bragg grating waveguide. Proceedings of SPIE, 2008, , .	0.8	3
121	Polarized Digital Holography as Valuable Analytical Tool in Biological and Medical Research. , 2019, , .		3
122	Holographic Optical Lenses Recorded on a Glassy Matrix-Based Photopolymer for Solar Concentrators. Photonics, 2021, 8, 585.	2.0	3
123	Simple interferometric method for measuring severally the refractive index and the thickness of transparent plates. , 2003, , .		2
124	Photonics Devices Based on Hybrid Approach Combining Liquid Crystals and Sol-Gel Waveguides. Fiber and Integrated Optics, 2006, 25, 175-194.	2.5	2
125	Fabrication and characterization of zinc oxide based rib waveguide. , 2007, , .		2
126	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

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127	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
128	Investigation on 3D morphological changes of in vitro cells through digital holographic microscopy. Proceedings of SPIE, 2013, , .	0.8	2
129	Optical sensors based on photonic crystal: a new route. , 2017, , .		2
130	Volume Holographic Optical Elements as Solar Concentrators. , 2017, , .		2
131	Effect of Plasma Surface Treatment on the Impact Behavior of Basalt/Epoxy Composites. Key Engineering Materials, 0, 813, 441-446.	0.4	2
132	Silicon Meet Graphene for a New Family of Near-Infrared Resonant Cavity Enhanced Photodetectors. , 2020, , .		2
133	Optoelectronic switch and continuously tunable filter based on a liquid crystal waveguide. , 2001, , .		1
134	Design, fabrication, and testing of an integrated Si-based light modulator: experimental evidence of plasma redistribution. , 2002, , .		1
135	Electro-optically controlled switching and deflection in domain-engineered LiNbO 3. , 2003, , .		1
136	Recent advancements in digital holographic microscopy and its applications. , 2004, 5457, 481.		1
137	A novel interferometric spectrometer obtained by imaging Talbot effect in digital holography. , 2004, 5457, 651.		1
138	MEMS inspection by Digital Holographic. , 0, , .		1
139	Non-destructive optical system based on digital holographic microscope for quasi real-time characterization of micromechanical shunt switch. , 2005, , .		1
140	How to extend depth of focus in 3D digital holography. , 2005, 6016, 174.		1
141	2D lithium niobate microstructures: fabrication, characterization, and applications. , 2006, 6185, 418.		1
142	Development of a fiber optic health monitoring system for aerospace applications. Optoelectronics Letters, 2007, 3, 260-263.	0.8	1
143	Microfluidic system based on the digital holography microscope for analysis of motile sperm. , 2009, , .		1
144	Characterization of an electrically induced refractive index change in a hydrogenated amorphous silicon multistack waveguide. , 2011, , .		1

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145	3D manipulation and visualization of in-vitro cells by optical tweezers and digital holographic microscopy. Proceedings of SPIE, 2014, , .	0.8	1
146	CMOS-compatible amorphous silicon photonic layer integrated with VLSI electronics. , 2014, , .		1
147	Raman sex sorting of bovine spermatozoa. , 2014, , .		1
148	NIR silicon Schottky photodetector: From metal to graphene. , 2014, , .		1
149	A combined holographic and Raman microscopy approach for the assessment of spermatozoa. , 2015, , .		1
150	Analysis of bovine sperm cells by a combined holographic and Raman microscopy approach. , 2015, , .		1
151	Schottky Graphene/Silicon Photodetectors Based on Internal Photoemission Effect. , 2015, , .		1
152	Integrable Near-Infrared Photodetectors Based on Hybrid Erbium/Silicon Junctions. Sensors, 2018, 18, 3755.	3.8	1
153	Fiber-Tip Coupling of Bloch Surface Waves. , 2018, , .		1
154	Bound-state in the continuum of a photonic crystal metasurface: a platform for ultrasensitive sensing and near field amplification. Journal of Physics: Conference Series, 2020, 1461, 012138.	0.4	1
155	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
156	<title>Electrically controlled optoelectronic Y-switch based on a BMFET device</title>. , 2000, 4075, 74.		0
157	Optoelectronic router based on a liquid crystal waveguide. , 2001, , .		0
158	Numerical simulations of a silicon-based optoelectronic filter based on a Bragg grating and p-i-n diode for DWDM optical networks. , 0, , .		0
159	A simple bi-polished silicon sample to detect vibrations by Fiber Bragg sensor. , 0, , .		0
160	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
161	Electro-optical switch based on a Bragg grating in a liquid crystal waveguide. , 2003, 4829, 522.		0
162	Optoelectronic router in glass waveguide with a liquid crystal cladding. , 2003, , .		0

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163	Investigation of silicon MEMS structures subjected to thermal loading by digital holography. , 2003, 5145, 146.		0
164	Experimental results of a three-terminal optical modulator based on a BMFET device. , 2003, , .		0
165	Detecting vibrations by fiber Bragg sensor interrogated with a bipolished silicon sample. , 2003, 4943, 100.		0
166	Lateral shearing interferometer for measuring refractive index of silicon. , 2003, , .		0
167	Interferometric visualization and demodulation method for measuring quasi-static strain in fiber Bragg grating sensors by a simple rotating etalon filter. , 2004, , .		0
168	Thickness measurement of thin transparent plates with a broadband wavelength-scanning interferometer. , 2004, 5458, 64.		0
169	Controlling several image parameters in the digital holographic reconstruction process. , 2004, , .		0
170	An integrated Si-based electro-optical modulator. , 2004, , .		0
171	Digital holographic microscope for thermal characterization of silicon microhotplates for gas sensor. , 2004, , .		0
172	A new e-commerce platform based on virtual reality. , 2004, , .		0
173	Fiber Bragg grating sensor monitoring with thermally tuned Fabry-Perot cavity integrated in an all-silicon rib waveguide. , 2005, 5730, 234.		0
174	Thermo-opto-electrical analysis of an optical modulator integrated in a silicon planar structure. , 2005, , .		0
175	A miniaturizable integrated Si-based light modulator. , 2005, , .		0
176	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
177	Image focusing properties in reconstructing digital holograms. , 2005, , .		0
178	Thermo-electro-optical analysis of modulator embedded in all-silicon structure. , 0, , .		0
179	Applications of the digital holography to the dynamic characterization of MEMS: a micromechanical shunt switch and a micro-gassensor. , 0, , .		0
180	Interferometric measurement of thickness of silicon nitride layer in bi-morph silicon MEMS. , 2006, , .		0

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181	Improvement of the reconstruction algorithm for extended focus image of MEMS by digital holography. , 2006, , .		0
182	3D Imaging With Large Focus Extension By A Coherent Optical Microscope. AIP Conference Proceedings, 2006, , .	0.4	0
183	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
184	Electro-Optic Modulated Phase Array in Hexagonally Poled Lithium Niobate for Flexible Array Illuminator Device. Ferroelectrics, 2007, 352, 94-99.	0.6	0
185	Photolithography by a tunable electro-optical lithium niobate phase array. Optoelectronics Letters, 2007, 3, 243-245.	0.8	0
186	An all-organic technology platform for electronic devices manufacturing. , 2008, , .		0
187	Fabrication and characterization of resonant cavity enhanced silicon photodetectors at 1.55 μm . , 2008, , .		0
188	Phase map retrieval in digital holography: avoiding the under-sampling effect by a lateral shear approach. Proceedings of SPIE, 2008, , .	0.8	0
189	Micro and nanophotonics in silicon: new perspectives and applications. , 2009, , .		0
190	Cu/p-Si Schottky photodetectors at 1.55 μm . Proceedings of SPIE, 2010, , .	0.8	0
191	Fabrication and Characterization of a Silicon Photodetector at 1.55 Micron. Lecture Notes in Electrical Engineering, 2010, , 113-116.	0.4	0
192	A porous silicon based microarray for label-free optical detection of DNA hybridization. Proceedings of SPIE, 2010, , .	0.8	0
193	Fabrication and Characterization of a Back-Illuminated Resonant Cavity Enhanced Silicon Photo-Detector Working at 1.55 μm . Fiber and Integrated Optics, 2010, 29, 85-95.	2.5	0
194	All-silicon integrated photodetector for near infrared wavelengths based on the internal photoemission effect. , 2011, , .		0
195	Digital holographic self-referencing quantitative phase microscopy. , 2011, , .		0
196	CMOS-compatible electro-optical Mach-Zehnder modulator based on the amorphous silicon technology. , 2012, , .		0
197	Optical cavity-enhanced surface plasmon resonance refractive index sensing. , 2013, , .		0
198	Label-free biochemical characterization of bovine sperm cells using Raman microscopy. Proceedings of SPIE, 2013, , .	0.8	0

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