

Hugo Thienpont

List of Publications by Year in descending order

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862
papers

10,197
citations

53789

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all docs

898
docs citations

898
times ranked

6915
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastomeric inverse moulding and vacuum casting process characterization for the fabrication of arrays of concave refractive microlenses. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 81-88.	2.6	210
2	Deterministic polarization chaos from a laser diode. <i>Nature Photonics</i> , 2013, 7, 60-65.	31.4	172
3	Comparing glass and plastic refractive microlenses fabricated with different technologies. <i>Journal of Optics</i> , 2006, 8, S407-S429.	1.5	149
4	Optical feedback induces polarization mode hopping in vertical-cavity surface-emitting lasers. <i>Optics Letters</i> , 2003, 28, 1543.	3.3	144
5	Highly birefringent microstructured fibers with enhanced sensitivity to hydrostatic pressure. <i>Optics Express</i> , 2010, 18, 15113.	3.4	137
6	Saturation of the hyperpolarizability of oligothiophenes. <i>Physical Review Letters</i> , 1990, 65, 2141-2144.	7.8	134
7	Polarization switching in VCSEL's due to thermal lensing. <i>IEEE Photonics Technology Letters</i> , 1998, 10, 6-8.	2.5	129
8	Effect of photon-energy-dependent loss and gain mechanisms on polarization switching in vertical-cavity surface-emitting lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 2106.	2.1	122
9	(Photo-)crosslinkable gelatin derivatives for biofabrication applications. <i>Acta Biomaterialia</i> , 2019, 97, 46-73.	8.3	120
10	Cross-Linkable Gelatins with Superior Mechanical Properties Through Carboxylic Acid Modification: Increasing the Two-Photon Polymerization Potential. <i>Biomacromolecules</i> , 2017, 18, 3260-3272.	5.4	104
11	Fabrication of spherical microlenses by a combination of isotropic wet etching of silicon and molding techniques. <i>Optics Express</i> , 2009, 17, 6283.	3.4	103
12	Impact of in-plane anisotropic strain on the polarization behavior of vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , 2000, 77, 1590-1592.	3.3	102
13	Mapping of the Dynamics Induced by Orthogonal Optical Injection in Vertical-Cavity Surface-Emitting Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2006, 42, 198-207.	1.9	99
14	Additive manufacturing of photo-crosslinked gelatin scaffolds for adipose tissue engineering. <i>Acta Biomaterialia</i> , 2019, 94, 340-350.	8.3	94
15	Transversal Load Sensing With Fiber Bragg Gratings in Microstructured Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 6-8.	2.5	83
16	Point-by-point fiber Bragg grating inscription in free-standing step-index and photonic crystal fibers using near-IR femtosecond laser. <i>Optics Letters</i> , 2010, 35, 1647.	3.3	78
17	Physical random bit generation from chaotic solitary laser diode. <i>Optics Express</i> , 2014, 22, 17271.	3.4	78
18	MT-Compatible Laser-Ablated Interconnections for Optical Printed Circuit Boards. <i>Journal of Lightwave Technology</i> , 2004, 22, 2083-2090.	4.6	77

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19	Soft tissue fillers for adipose tissue regeneration: From hydrogel development toward clinical applications. <i>Acta Biomaterialia</i> , 2017, 63, 37-49.	8.3	77
20	Highly Reactive Thiol- α -Norbornene Photo-Click Hydrogels: Toward Improved Processability. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800181.	3.9	77
21	Standardized speckle measurement method matched to human speckle perception in laser projection systems. <i>Optics Express</i> , 2012, 20, 8770.	3.4	73
22	Extrusion-based 3D printing of photo-crosslinkable gelatin and λ -carrageenan hydrogel blends for adipose tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 929-938.	7.5	73
23	Microstructured Optical Fiber Sensors Embedded in a Laminate Composite for Smart Material Applications. <i>Sensors</i> , 2011, 11, 2566-2579.	3.8	70
24	Direct writing of microlenses in polycarbonate with excimer laser ablation. <i>Applied Optics</i> , 2003, 42, 6349.	2.1	69
25	Proton- and Gamma-Induced Effects on Erbium-Doped Optical Fibers. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 2426-2434.	2.0	68
26	Analytic design method for optimal imaging: coupling three ray sets using two free-form lens profiles. <i>Optics Express</i> , 2012, 20, 5576.	3.4	68
27	Negative Kerr Nonlinearity of Graphene as seen via Chirped-Pulse-Pumped Self-Phase Modulation. <i>Physical Review Applied</i> , 2016, 6, .	3.8	68
28	Graphene's nonlinear-optical physics revealed through exponentially growing self-phase modulation. <i>Nature Communications</i> , 2018, 9, 2675.	12.8	67
29	Nonlinear dynamics accompanying polarization switching in vertical-cavity surface-emitting lasers with orthogonal optical injection. <i>Applied Physics Letters</i> , 2006, 88, 101106.	3.3	66
30	Challenges in the fabrication of fibre Bragg gratings in silica and polymer microstructured optical fibres. <i>Laser and Photonics Reviews</i> , 2014, 8, 27-52.	8.7	63
31	Receiver-less optical clock injection for clock distribution networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003, 9, 400-409.	2.9	62
32	Temperature and pressure sensitivities of the highly birefringent photonic crystal fiber with core asymmetry. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 325-331.	2.2	62
33	Aerospace-grade surface mounted optical fibre strain sensor for structural health monitoring on composite structures evaluated against in-flight conditions. <i>Smart Materials and Structures</i> , 2019, 28, 065008.	3.5	60
34	Architectural approach to the role of optics in monoprocessor and multiprocessor machines. <i>Applied Optics</i> , 2000, 39, 671.	2.1	59
35	Experimental and theoretical investigations of birefringent holey fibers with a triple defect. <i>Applied Optics</i> , 2005, 44, 2652.	2.1	59
36	Large-mode-area photonic crystal fiber with double lattice constant structure and low bending loss. <i>Optics Express</i> , 2011, 19, 22628.	3.4	58

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37	Extremely large-mode-area photonic crystal fibre with low bending loss. Optics Express, 2010, 18, 15408.	3.4	56
38	Late antique glass distribution and consumption in Cyprus: a chemical study. Journal of Archaeological Science, 2015, 61, 213-222.	2.4	55
39	Potential benefits of free-form optics in on-axis imaging applications with high aspect ratio. Optics Express, 2013, 21, 31072.	3.4	53
40	Fiber Bragg Gratings in Germanium-Doped Highly Birefringent Microstructured Optical Fibers. IEEE Photonics Technology Letters, 2008, 20, 554-556.	2.5	52
41	High-Resolution 3D Bioprinting of Photo-Cross-linkable Recombinant Collagen to Serve Tissue Engineering Applications. Biomacromolecules, 2020, 21, 3997-4007.	5.4	51
42	Laser ablation of parallel optical interconnect waveguides. IEEE Photonics Technology Letters, 2006, 18, 1106-1108.	2.5	50
43	Analytic free-form lens design in 3D: coupling three ray sets using two lens surfaces. Optics Express, 2012, 20, 10839.	3.4	49
44	Experimental Evidence of Coherence Resonance in a Time-Delayed Bistable System. Physical Review Letters, 2007, 99, 023903.	7.8	48
45	Visible and near-infrared absorption spectroscopy by an integrating sphere and optical fibers for quantifying and discriminating the adulteration of extra virgin olive oil from Tuscany. Analytical and Bioanalytical Chemistry, 2011, 399, 1315-1324.	3.7	48
46	Polarization stabilization in vertical-cavity surface-emitting lasers through asymmetric current injection. IEEE Photonics Technology Letters, 2000, 12, 945-947.	2.5	47
47	High-Resolution Optical Sampling of 640-Cb/s Data Using Four-Wave Mixing in Dispersion-Engineered Highly Nonlinear As ₂ S ₃ Planar Waveguides. Journal of Lightwave Technology, 2010, 28, 209-215.	4.6	47
48	Tracking integration in concentrating photovoltaics using laterally moving optics. Optics Express, 2011, 19, A207.	3.4	46
49	Shear stress sensing with Bragg grating-based sensors in microstructured optical fibers. Optics Express, 2013, 21, 20404.	3.4	46
50	Optical-injection-induced polarization switching in polarization-bistable vertical-cavity surface-emitting lasers. Journal of Applied Physics, 2004, 96, 6002-6007.	2.5	45
51	Dynamics of vertical-cavity surface-emitting lasers in the short external cavity regime: Pulse packages and polarization mode competition. Physical Review A, 2006, 73, .	2.5	45
52	Compressive Optical Imaging: Architectures and Algorithms. , 2011, , 485-505.		45
53	Optical detection of aflatoxins in maize using one- and two-photon induced fluorescence spectroscopy. Food Control, 2015, 51, 408-416.	5.5	45
54	Two-dimensional plastic microlens arrays by deep lithography with protons: fabrication and characterization. Journal of Optics, 2002, 4, S22-S28.	1.5	44

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55	Low-cost microoptical modules for mcm level optical interconnections. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 518-530.	2.9	44
56	Polarization-mode hopping in single-mode vertical-cavity surface-emitting lasers: Theory and experiment. Physical Review A, 2003, 68, .	2.5	44
57	Ultrathin Optoelectronic Device Packaging in Flexible Carriers. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 617-628.	2.9	44
58	Deep microstructure topography characterization with optical vortex interferometer. Optics Express, 2008, 16, 19179.	3.4	43
59	Geometrical study of a hexagonal lattice photonic crystal fiber for efficient femtosecond laser grating inscription. Optics Express, 2011, 19, 7705.	3.4	42
60	Iron speciation in soda-lime-silica glass: a comparison of XANES and UV-vis-NIR spectroscopy. Journal of Analytical Atomic Spectrometry, 2015, 30, 1552-1561.	3.0	42
61	Freeform imaging systems: Fermat's principle unlocks "first time right" design. Light: Science and Applications, 2021, 10, 95.	16.6	42
62	Investigation of Polarization Properties of VCSELs Subject to Optical Feedback From an Extremely Short External Cavity"Part I: Theoretical Analysis. IEEE Journal of Quantum Electronics, 2006, 42, 89-101.	1.9	41
63	Deep proton writing: a rapid prototyping polymer micro-fabrication tool for micro-optical modules. New Journal of Physics, 2006, 8, 270-270.	2.9	41
64	Linearly polarized bistable localized structure in medium-size vertical-cavity surface-emitting lasers. Physical Review A, 2009, 79, .	2.5	41
65	Polarization- and Transverse-Mode Dynamics in Optically Injected and Gain-Switched Vertical-Cavity Surface-Emitting Lasers. IEEE Journal of Quantum Electronics, 2009, 45, 1473-1481.	1.9	41
66	Bragg Grating Inscription in GeO -Doped Microstructured Optical Fibers. Journal of Lightwave Technology, 2010, 28, 1459-1467.	4.6	41
67	Tailored free-form optics with movement to integrate tracking in concentrating photovoltaics. Optics Express, 2013, 21, A401.	3.4	41
68	Evaluation of 3D Printed Gelatin-Based Scaffolds with Varying Pore Size for MSC-Based Adipose Tissue Engineering. Macromolecular Bioscience, 2020, 20, e1900364.	4.1	41
69	Experimental investigations of bending loss oscillations in large mode area photonic crystal fibers. Optics Express, 2007, 15, 13547.	3.4	40
70	Optical Feedback in Vertical-Cavity Surface-Emitting Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1700312-1700312.	2.9	40
71	Indirect Rapid Prototyping: Opening Up Unprecedented Opportunities in Scaffold Design and Applications. Annals of Biomedical Engineering, 2017, 45, 58-83.	2.5	40
72	Synergistic effect of λ -carrageenan and gelatin blends towards adipose tissue engineering. Carbohydrate Polymers, 2018, 189, 1-9.	10.2	40

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73	Polarization Switching Bistability and Dynamics in Vertical-Cavity Surface-Emitting Laser under Orthogonal Optical Injection. <i>Optical and Quantum Electronics</i> , 2006, 38, 429-443.	3.3	39
74	Human speckle perception threshold for still images from a laser projection system. <i>Optics Express</i> , 2014, 22, 23965.	3.4	39
75	Plastic microoptical interconnection modules for parallel free-space interand intra-MCM data communication. <i>Proceedings of the IEEE</i> , 2000, 88, 769-779.	21.3	38
76	Polarization switching induced by phase change in extremely short external cavity vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , 2004, 84, 2763-2765.	3.3	38
77	Using Raman spectroscopy as a tool for the detection of iron in glass. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1789-1795.	2.5	38
78	Indirect additive manufacturing as an elegant tool for the production of self-supporting low density gelatin scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 247.	3.6	38
79	Response of FBGs in Microstructured and Bow Tie Fibers Embedded in Laminated Composite. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1290-1292.	2.5	37
80	Control Over the Pressure Sensitivity of Bragg Grating-Based Sensors in Highly Birefringent Microstructured Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 527-529.	2.5	37
81	EAT-by-LIGHT: Fiber-Optic and Micro-Optic Devices for Food Quality and Safety Assessment. <i>IEEE Sensors Journal</i> , 2008, 8, 1342-1354.	4.7	36
82	Poly(D,L-Lactic Acid) (PDLLA) Biodegradable and Biocompatible Polymer Optical Fiber. <i>Journal of Lightwave Technology</i> , 2019, 37, 1916-1923.	4.6	36
83	Using a flyâ€™s eye integrator in efficient illumination engines with multiple light-emitting diode light sources. <i>Optical Engineering</i> , 2007, 46, 043001.	1.0	35
84	Data transparent reconfigurable optical interconnections using polarization switching in VCSEL's induced by optical injection. <i>IEEE Photonics Technology Letters</i> , 1999, 11, 985-987.	2.5	34
85	Continuous-wave broadly tunable Cr ²⁺ :ZnSe laser pumped by a thulium fiber laser. <i>Optics Communications</i> , 2006, 268, 115-120.	2.1	34
86	Ultra flat supercontinuum generation in silicate dual core microstructured fiber. <i>Laser Physics Letters</i> , 2009, 6, 575-581.	1.4	34
87	Birefringent photonic crystal fibers with zero polarimetric sensitivity to temperature. <i>Applied Physics B: Lasers and Optics</i> , 2009, 94, 635-640.	2.2	34
88	Integration of uniform porous shell layers in very long pillar array columns using electrochemical anodization for liquid chromatography. <i>Analyst</i> , 2014, 139, 618-625.	3.5	34
89	Thiol-norbornene gelatin hydrogels: influence of thiolated crosslinker on network properties and high definition 3D printing. <i>Biofabrication</i> , 2021, 13, 015017.	7.1	34
90	Spatial decoherence of pulsed broad-area vertical-cavity surface-emitting lasers. <i>Optics Express</i> , 2005, 13, 9337.	3.4	33

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91	Measurements of polarimetric sensitivity to temperature in birefringent holey fibres. Measurement Science and Technology, 2007, 18, 3055-3060.	2.6	33
92	Micro-step localization using double charge optical vortex interferometer. Optics Express, 2009, 17, 16144.	3.4	33
93	Cobalt absorption bands for the differentiation of historical Na and Ca/K rich glass. Surface and Interface Analysis, 2012, 44, 219-226.	1.8	33
94	Multifield direct design method for ultrashort throw ratio projection optics with two tailored mirrors. Applied Optics, 2016, 55, 3794.	2.1	33
95	Controlled Polarization Switching in VCSELs by Means of Asymmetric Current Injection. IEEE Photonics Technology Letters, 2004, 16, 708-710.	2.5	32
96	Fabrication and characterization of microlens arrays using a cantilever-based spotter. Optics Express, 2007, 15, 6900.	3.4	32
97	Mitigating Heat Dissipation in Raman Lasers Using Coherent Anti-Stokes Raman Scattering. Physical Review Letters, 2007, 99, 093903.	7.8	32
98	Polarization-selective diffractive optical elements with an index-matching gap material. Applied Optics, 1997, 36, 4681.	2.1	31
99	Polarization behavior of vertical-cavity surface-emitting lasers: Experiments, models and applications. AIP Conference Proceedings, 2001, , .	0.4	31
100	High-resolution optical sampling of 640 Gbit/s data using dispersion-engineered chalcogenide photonic wire. Electronics Letters, 2010, 46, 223.	1.0	31
101	Wavelength Conversion Based on Raman- and Non-Resonant Four-Wave Mixing in Silicon Nanowire Rings Without Dispersion Engineering. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1078-1091.	2.9	31
102	Demonstration of a multichannel, multiresolution imaging system. Applied Optics, 2013, 52, 6081.	1.8	31
103	Cryogel-PCL combination scaffolds for bone tissue repair. Journal of Materials Science: Materials in Medicine, 2015, 26, 123.	3.6	31
104	Photo-crosslinkable recombinant collagen mimics for tissue engineering applications. Journal of Materials Chemistry B, 2019, 7, 3100-3108.	5.8	31
105	Design of illumination optics with extended sources based on wavefront tailoring. Optica, 2019, 6, 966.	9.3	30
106	Optimal radii of photonic crystal holes within DBR mirrors in long wavelength VCSEL. Optics Express, 2007, 15, 1301.	3.4	29
107	Discrete Out-of-Plane Coupling Components for Printed Circuit Board-Level Optical Interconnections. IEEE Photonics Technology Letters, 2007, 19, 1753-1755.	2.5	29
108	Hot Embossing of Microoptical Components Prototyped by Deep Proton Writing. IEEE Photonics Technology Letters, 2008, 20, 1539-1541.	2.5	29

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109	Radiation Sensitivity of EDFAs Based on Highly Er-Doped Fibers. Journal of Lightwave Technology, 2009, 27, 1540-1545.	4.6	29
110	Paper coatings with multi-scale roughness evaluated at different sampling sizes. Applied Surface Science, 2011, 257, 5613-5625.	6.1	29
111	A XANES study of chromophores: the case of black glass. Analytical Methods, 2014, 6, 2662-2671.	2.7	29
112	Polarization switching and injection locking in vertical-cavity surface-emitting lasers subject to parallel optical injection. Optics Letters, 2016, 41, 2664.	3.3	29
113	Clear to clear laser welding for joining thermoplastic polymers: A comparative study based on physicochemical characterization. Journal of Materials Processing Technology, 2018, 255, 808-815.	6.3	29
114	Stokes-Anti-Stokes Iterative Resonator Method for Modeling Raman Lasers. IEEE Journal of Quantum Electronics, 2006, 42, 1144-1156.	1.9	28
115	Effect of the Fiber Coating on the Radiation Sensitivity of Type I FBGs. IEEE Photonics Technology Letters, 2008, 20, 1802-1804.	2.5	28
116	Polarization switching and polarization mode hopping in quantum dot vertical-cavity surface-emitting lasers. Optics Express, 2011, 19, 2476.	3.4	28
117	Photonic Crystal Fiber With Large Mode Area and Characteristic Bending Properties. IEEE Photonics Technology Letters, 2012, 24, 1409-1411.	2.5	28
118	Refractive laser beam shaping by means of a functional differential equation based design approach. Optics Express, 2014, 22, 8001.	3.4	28
119	Endothelialization and Anticoagulation Potential of Surface-Modified PET Intended for Vascular Applications. Macromolecular Bioscience, 2018, 18, e1800125.	4.1	28
120	Self-pulsations and excitability in optically injected quantum-dot lasers: Impact of the excited states and spontaneous emission noise. Physical Review A, 2010, 82, .	2.5	27
121	Sensing characteristics of the rocking filters in microstructured fibers optimized for hydrostatic pressure measurements. Optics Express, 2012, 20, 23320.	3.4	27
122	Disbond monitoring in adhesive joints using shear stress optical fiber sensors. Smart Materials and Structures, 2014, 23, 075006.	3.5	27
123	Microstructured optical fiber Bragg grating as an internal three-dimensional strain sensor for composite laminates. Smart Materials and Structures, 2015, 24, 055003.	3.5	27
124	Compact illumination optic with three freeform surfaces for improved beam control. Optics Express, 2017, 25, 29627.	3.4	27
125	Residence time distribution and coherence resonance of optical-feedback-induced polarization mode hopping in vertical-cavity surface-emitting lasers. Physical Review A, 2004, 69, .	2.5	26
126	Phase and group modal birefringence of triple-defect photonic crystal fibres. Journal of Optics, 2005, 7, 763-766.	1.5	26

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127	Selective optical broadcast component for reconfigurable multiprocessor interconnects. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 828-837.	2.9	26
128	Optical spectroscopy as a rapid and low-cost tool for the first-line analysis of glass artefacts: a step-by-step plan for Roman green glass. Journal of Archaeological Science, 2011, 38, 2387-2398.	2.4	26
129	Assessment and numerical search for minimal Taylorâ€™s Aris dispersion in micro-machined channels of nearly rectangular cross-section. Journal of Chromatography A, 2014, 1368, 70-81.	3.7	26
130	Designer Descemet Membranes Containing PDLLA and Functionalized Gelatins as Corneal Endothelial Scaffold. Advanced Healthcare Materials, 2020, 9, e2000760.	7.6	25
131	High-precision 2-D SM fiber connectors fabricated through deep proton writing. IEEE Photonics Technology Letters, 2006, 18, 1164-1166.	2.5	24
132	Optical measurements and pattern-recognition techniques for identifying the characteristics of beer and distinguishing Belgian beers. Sensors and Actuators B: Chemical, 2013, 179, 140-149.	7.8	24
133	3D direct laser writing of microstructured optical fiber tapers on single-mode fibers for mode-field conversion. Optics Express, 2020, 28, 36147.	3.4	24
134	Measurements of sensitivity to hydrostatic pressure and temperature in highly birefringent photonic crystal fibers. Optical and Quantum Electronics, 2007, 39, 481-489.	3.3	23
135	Optical fiber spectroscopy for measuring quality indicators of lubricant oils. Measurement Science and Technology, 2009, 20, 034011.	2.6	23
136	Fast quantum-optical random-number generators. Physical Review A, 2013, 87, .	2.5	23
137	Experimental observation of localized structures in medium size VCSELs. Optics Express, 2014, 22, 762.	3.4	23
138	Laser ablation- and plasma etching-based patterning of graphene on silicon-on-insulator waveguides. Optics Express, 2015, 23, 26639.	3.4	23
139	Speckle disturbance limit in laser-based cinema projection systems. Scientific Reports, 2015, 5, 14105.	3.3	23
140	Automated freeform imaging system design with generalized ray tracing and simultaneous multi-surface analytic calculation. Optics Express, 2021, 29, 17227.	3.4	23
141	Mapping of two-polarization-mode dynamics in vertical-cavity surface-emitting lasers with optical injection. Physical Review E, 2009, 80, 026218.	2.1	22
142	Influence of Fiber Orientation on Femtosecond Bragg Grating Inscription in Pure Silica Microstructured Optical Fibers. IEEE Photonics Technology Letters, 2011, 23, 1832-1834.	2.5	22
143	Electrically Controllable Liquid Crystal Component for Efficient Light Steering. IEEE Photonics Journal, 2015, 7, 1-13.	2.0	22
144	Authenticity screening of stained glass windows using optical spectroscopy. Scientific Reports, 2016, 6, 37726.	3.3	22

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145	Analytical evaluation of bending loss oscillations in photonic crystal fibers. Optics Communications, 2007, 269, 261-270.	2.1	21
146	Demonstration of a multiview projection display using decentered microlens arrays. Optics Express, 2010, 18, 26092.	3.4	21
147	Coupled-cavity surface-emitting lasers: spectral and polarization threshold characteristics and electrooptic switching. Optics Express, 2010, 18, 27525.	3.4	21
148	Temperature-insensitive polarimetric vibration sensor based on HiBi microstructured optical fiber. Applied Optics, 2012, 51, 6130.	1.8	21
149	Analytic design of a zoom XY-beam expander with freeform optical surfaces. Optics Express, 2015, 23, 30438.	3.4	21
150	Vector cavity solitons in broad area Vertical-Cavity Surface-Emitting Lasers. Scientific Reports, 2016, 6, 20428.	3.3	21
151	Polydopamine "Gelatin as Universal Cell-Interactive Coating for Methacrylate-Based Medical Device Packaging Materials: When Surface Chemistry Overrides Substrate Bulk Properties. Biomacromolecules, 2016, 17, 56-68.	5.4	21
152	Extending the effective index method for arbitrarily shaped inhomogeneous optical waveguides. Journal of Lightwave Technology, 1988, 6, 1153-1159.	4.6	20
153	Laser Ablated Micromirrors for Printed Circuit Board Integrated Optical Interconnections. IEEE Photonics Technology Letters, 2007, 19, 822-824.	2.5	20
154	Embedded Micromirror Inserts for Optical Printed Circuit Boards. IEEE Photonics Technology Letters, 2008, 20, 1727-1729.	2.5	20
155	Opportunities for wavelength conversion with on-chip diamond ring resonators. Laser and Photonics Reviews, 2012, 6, 793-801.	8.7	20
156	Free-Form Optics Enhanced Confocal Raman Spectroscopy for Optofluidic Lab-on-Chips. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 79-86.	2.9	20
157	Self-consistent stationary description of a nonlinear fabry-perot. Optics Communications, 1989, 71, 317-322.	2.1	19
158	Optical response of conjugated polymers. Physical Review B, 1993, 48, 8651-8657.	3.2	19
159	Data transparent reconfigurable optical interconnections based on polarization-switching VCSELs and polarization-selective diffractive optical elements. IEEE Photonics Technology Letters, 1998, 10, 973-975.	2.5	19
160	SPAD arrays and micro-optics: towards a real single photon spectrometer. Journal of Modern Optics, 2007, 54, 199-212.	1.3	19
161	Gamma radiation induced loss in erbium doped optical fibers. Journal of Non-Crystalline Solids, 2007, 353, 477-480.	3.1	19
162	Miniaturization of Fresnel lenses for solar concentration: a quantitative investigation. Applied Optics, 2010, 49, 2339.	2.1	19

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163	Quasi-Phase-Matching of Four-Wave-Mixing-Based Wavelength Conversion by Phase-Mismatch Switching. <i>Journal of Lightwave Technology</i> , 2013, 31, 2113-2121.	4.6	19
164	Opportunities for Wideband Wavelength Conversion in Foundry-Compatible Silicon Waveguides Covered With Graphene. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 347-359.	2.9	19
165	Mode-field Matching Down-Tapers on Single-Mode Optical Fibers for Edge Coupling Towards Generic Photonic Integrated Circuit Platforms. <i>Journal of Lightwave Technology</i> , 2020, 38, 4834-4842.	4.6	19
166	Tolerance Analysis for Multilayer Optical Interconnections Integrated on a Printed Circuit Board. <i>Journal of Lightwave Technology</i> , 2007, 25, 2395-2401.	4.6	18
167	Core Versus Cladding Effects of Proton Irradiation on Erbium-Doped Optical Fiber: Micro-Luminescence Study. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 2223-2228.	2.0	18
168	Polarization Switching in Quantum-Dot Vertical-Cavity Surface-Emitting Lasers. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1008-1010.	2.5	18
169	Low-Loss Patch Cords by Effective Splicing of Various Photonic Crystal Fibers With Standard Single Mode Fiber. <i>Journal of Lightwave Technology</i> , 2011, 29, 2940-2946.	4.6	18
170	Raman spectroscopy as a rapid screening method for ancient plain window glass. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1055-1061.	2.5	18
171	Two-photon direct laser writing of beam expansion tapers on single-mode optical fibers. <i>Optics and Laser Technology</i> , 2019, 112, 292-298.	4.6	18
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