Hugo Thienpont

List of Publications by Year in descending order

860 papers	10,197 citations	61687 45 h-index	104191 69 g-index
898 all docs	898 docs citations	898 times ranked	7814 citing authors

#	Article	IF	Citations
1	Plasmon-Enhanced Refractometry Through Cladding Mode Excitation by a Fiber Bragg Grating in Photonic Crystal Fiber. Journal of Lightwave Technology, 2022, 40, 1121-1129.	2.7	7
2	Design and demonstration of a six-channel multiresolution imaging system. Applied Optics, 2022, 61, 2683.	0.9	2
3	Laser direct writing of short-range interconnect interfacing structures. , 2022, , .		0
4	Miniaturized cost-effective broadband spectrometer employing a deconvolution reconstruction algorithm for resolution enhancement. Optics Express, 2022, 30, 11459.	1.7	2
5	Benchmarking Spectroscopic Techniques Combined with Machine Learning to Study Oak Barrels for Wine Ageing. Biosensors, 2022, 12, 227.	2.3	1
6	Using UV-Vis-NIR absorption spectroscopy as a tool for the detection of iron and cobalt in glass: A case-study on HLLA material from the Low Countries. Journal of Archaeological Science: Reports, 2022, 44, 103517.	0.2	1
7	Prestige markers in art: subtle stratagems in material selection for fifteenth-century stained-glass windows. Heritage Science, 2022, 10, .	1.0	2
8	Unraveling and Predicting the Nonlinear-optical Refractive Response of Graphene. , 2021, , .		0
9	Monitoring of Torque Induced Strain in Composite Shafts with Embedded and Surface-Mounted Optical Fiber Bragg Gratings. Sensors, 2021, 21, 2403.	2.1	7
10	3D nanoprinting of mode-field conversion tapers for low-loss optical interfacing of single-mode fibers and photonic integrated circuits. , 2021, , .		0
11	Challenges in the Fabrication of Biodegradable and Implantable Optical Fibers for Biomedical Applications. Materials, 2021, 14, 1972.	1.3	13
12	Freeform imaging systems: Fermatâ€™s principle unlocks â€œfirst time rightâ€•design. Light: Science and Applications, 2021, 10, 95.	7.7	42
13	Automated freeform imaging system design with generalized ray tracing and simultaneous multi-surface analytic calculation. Optics Express, 2021, 29, 17227.	1.7	23
14	Biomaterials for manufacturing scaffolds: a compromise between resolution, size and biocompatibility. , 2021, , .		0
15	Design and Fabrication of Straight Waveguides, Tapers and S-Bends with Two-Photon Direct Laser Writing. , 2021, , .		0
16	â€˜First time rightâ€™ freeform optics. PhotonicsViews, 2021, 18, 52-56.	0.1	0
17	Design and two-photon direct laser writing of low-loss waveguides, tapers and S-bends. JPhys Photonics, 2021, 3, 045001.	2.2	14
18	Thiol-norbornene gelatin hydrogels: influence of thiolated crosslinker on network properties and high definition 3D printing. Biofabrication, 2021, 13, 015017.	3.7	34

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19	Miniature freeform flow-line lightguide for sensing: from design to fabrication. Optics Express, 2021, 29, 38001.	1.7	3
20	The interaction between daylight and fifteenth and sixteenth century glass windows from the Low Countries. Scientific Reports, 2021, 11, 21338.	1.6	3
21	Increasing the Microfabrication Performance of Synthetic Hydrogel Precursors through Molecular Design. Biomacromolecules, 2021, 22, 4919-4932.	2.6	6
22	Two-Photon Polymerization-based Direct Laser Writing and Characterization of Micro-Lenses for Optical Interconnect Applications. , 2021, , .		1
23	A Freeform-based Versatile Microfluidic Raman Lab-on-Chip System. , 2021, , .		0
24	Design and replication of a six-channel foveated imaging system. , 2021, , .		0
25	Ultraprecision Diamond Milling of a Freeform Micromirror Array Master for Nanoimprint Lithography. , 2021, , .		0
26	"First time right" - calculating imaging systems from scratch -INVITED. EPJ Web of Conferences, 2021, 255, 02001.	0.1	0
27	Freeform-based High Numerical Aperture Optics for Confocal Raman/SERS Spectroscopy. , 2021, , .		0
28	Two-Photon Polymerization-based Laser Direct Writing of Mode Conversion Down-tapers for Physical Contact Fiber-to-Chip Coupling. , 2021, , .		1
29	Optical fiber-based sensors as an experimental tool to assess the weft and warp yarn tension beam-to-roll in rapier weaving machines. Textile Reseach Journal, 2020, 90, 857-865.	1.1	6
30	On the Characterization of Novel Step-Index Biocompatible and Biodegradable poly(D,L-lactic acid) Based Optical Fiber. Journal of Lightwave Technology, 2020, 38, 1905-1914.	2.7	13
31	ACTPHAST4R: European Open Access Platform for Photonics Prototyping to Support Innovation-Driven Researchers. , 2020, , .		0
32	High-Resolution 3D Bioprinting of Photo-Cross-linkable Recombinant Collagen to Serve Tissue Engineering Applications. Biomacromolecules, 2020, 21, 3997-4007.	2.6	51
33	FÃ¶rster resonance energy transfer in fluorophore labeled poly(2-ethyl-2-oxazoline)s. Journal of Materials Chemistry C, 2020, 8, 14125-14137.	2.7	11
34	Active Optical Beam Shaping Based on Liquid Crystals and Polymer Micro-Structures. Crystals, 2020, 10, 977.	1.0	6
35	Predicting Graphene's Nonlinearâ€Optical Refractive Response for Propagating Pulses. Laser and Photonics Reviews, 2020, 14, 1900402.	4.4	14
36	Mode-field Matching Down-Tapers on Single-Mode Optical Fibers for Edge Coupling Towards Generic Photonic Integrated Circuit Platforms. Journal of Lightwave Technology, 2020, 38, 4834-4842.	2.7	19

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37	SERS using two-photon polymerized nanostructures for mycotoxin detection. RSC Advances, 2020, 10, 14274-14282.	1.7	16
38	Miniaturized broadband spectrometer based on a three-segment diffraction grating for spectral tissue sensing. Optics and Lasers in Engineering, 2020, 134, 106157.	2.0	15
39	Designer Descemet Membranes Containing PDLLA and Functionalized Gelatins as Corneal Endothelial Scaffold. Advanced Healthcare Materials, 2020, 9, e2000760.	3.9	25
40	Transverse Mode Mixing in a Coupled-Cavity VCSEL. Journal of Lightwave Technology, 2020, 38, 5774-5782.	2.7	1
41	Evaluation of 3D Printed Gelatinâ€Based Scaffolds with Varying Pore Size for MSCâ€Based Adipose Tissue Engineering. Macromolecular Bioscience, 2020, 20, e1900364.	2.1	41
42	A Tunable Freeform-Segmented Reflector in a Microfluidic System for Conventional and Surface-Enhanced Raman Spectroscopy. Sensors, 2020, 20, 1250.	2.1	6
43	Design and prototyping of beam shapers to generate circular or square top-hat beams of different size for additive manufacturing applications. , 2020, , .		2
44	Fabrication and characterization of step-index biocompatible and biodegradable polyesters based optical fiber. , 2020, , .		1
45	Compact conical beam shaper and freeform segmented reflector for SERS analysis. Optics Express, 2020, 28, 16163.	1.7	2
46	3D direct laser writing of microstructured optical fiber tapers on single-mode fibers for mode-field conversion. Optics Express, 2020, 28, 36147.	1.7	24
47	Modeling Grapheneâ€™s Macroscopic Nonlinear Response. , 2020, , .		0
48	Mode-field matching design, 3D fabrication and characterization of down-tapers on single-mode optical fiber tips for coupling to photonic integrated circuits. , 2020, , .		0
49	Selective liquid filling of photonic crystal fibers using two-photon polymerization lithography without post-exposure development. , 2020, , .		1
50	Phase-shifted Bragg grating inscription in photonic crystal fibers by UV phase mask beam stop technique. , 2020, , .		0
51	Extrusion-based 3D printing of photo-crosslinkable gelatin and Î¹-carrageenan hydrogel blends for adipose tissue regeneration. International Journal of Biological Macromolecules, 2019, 140, 929-938.	3.6	73
52	(Photo-)crosslinkable gelatin derivatives for biofabrication applications. Acta Biomaterialia, 2019, 97, 46-73.	4.1	120
53	Amorphous random copolymers of lacOCA and manOCA for the design of biodegradable polyesters with tuneable properties. European Polymer Journal, 2019, 118, 685-693.	2.6	3
54	Electro-Absorption Modulator Vertically Integrated on a VCSEL: Microstrip-Based High-Speed Electrical Injection on Top of a BCB Layer. Journal of Lightwave Technology, 2019, 37, 3861-3868.	2.7	3

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55	29GHz-Bandwidth Monolithically Integrated EAM-VCSEL. , 2019, , .		2
56	Numerical and Experimental Study on the IR Femtosecond Laser and Phase Mask-Based Grating Inscription in Photonic Crystal Fibers. , 2019, , .		0
57	Anomalous Transparency in Photonic Crystals and its Dependence on the Refractive Index Difference. , 2019, , .		0
58	Poly(D,L-Lactic Acid) (PDLLA) Biodegradable and Biocompatible Polymer Optical Fiber. Journal of Lightwave Technology, 2019, 37, 1916-1923.	2.7	36
59	Additive manufacturing of photo-crosslinked gelatin scaffolds for adipose tissue engineering. Acta Biomaterialia, 2019, 94, 340-350.	4.1	94
60	Down-scaling grating couplers and waveguides in single-crystal diamond for VIS-UV operation. JPhys Photonics, 2019, 1, 015003.	2.2	4
61	Technological advancements for the development of stem cell-based models for hepatotoxicity testing. Archives of Toxicology, 2019, 93, 1789-1805.	1.9	15
62	Aerospace-grade surface mounted optical fibre strain sensor for structural health monitoring on composite structures evaluated against in-flight conditions. Smart Materials and Structures, 2019, 28, 065008.	1.8	60
63	Photo-crosslinkable recombinant collagen mimics for tissue engineering applications. Journal of Materials Chemistry B, 2019, 7, 3100-3108.	2.9	31
64	Welcome to JPhys Photonics. JPhys Photonics, 2019, 1, 010401.	2.2	0
65	Radiation-Induced Effects on Fiber Bragg Gratings Inscribed in Highly Birefringent Photonic Crystal Fiber. IEEE Transactions on Nuclear Science, 2019, 66, 120-124.	1.2	3
66	High frequency operation of an integrated electro-absorption modulator onto a vertical-cavity surface-emitting laser. JPhys Photonics, 2019, 1, 02LT01.	2.2	5
67	Two-photon direct laser writing of beam expansion tapers on single-mode optical fibers. Optics and Laser Technology, 2019, 112, 292-298.	2.2	18
68	Design of illumination optics with extended sources based on wavefront tailoring. Optica, 2019, 6, 966.	4.8	30
69	Prescribed intensity patterns from extended emitters by means of a generalized wavefront-tailoring method. , 2019, , .		0
70	Towards poly(D,L-lactic acid)-based biodegradable and biocompatible polymer optical fiber. , 2019, , .		0
71	Vertical electro-absorption modulator design and its integration in a VCSEL. Journal Physics D: Applied Physics, 2018, 51, 145101.	1.3	7
72	Directional Coupler Based on Single-Crystal Diamond Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	1.9	9

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73	Characterization of Artificial Sweeteners Using Raman Spectroscopy. Reference Series in Phytochemistry, 2018, , 479-491.	0.2	0
74	Synergistic effect of Î²-carrageenan and gelatin blends towards adipose tissue engineering. Carbohydrate Polymers, 2018, 189, 1-9.	5.1	40
75	Ring opening copolymerisation of lactide and mandelide for the development of environmentally degradable polyesters with controllable glass transition temperatures. Reactive and Functional Polymers, 2018, 128, 16-23.	2.0	8
76	Anomalous transparency in photonic crystals and its application to point-by-point grating inscription in photonic crystal fibers. Scientific Reports, 2018, 8, 5470.	1.6	10
77	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.	3.1	29
78	High frequency characterization of a vertical electro-absorption modulator for data communications. , 2018, , .		2
79	Evaluation of 3D-culture methods for the hepatic differentiation of human skin-derived stem cells. Toxicology Letters, 2018, 295, S111.	0.4	0
80	Localized optical-quality doping of graphene on silicon waveguides through a TFSA-containing polymer matrix. Journal of Materials Chemistry C, 2018, 6, 10739-10750.	2.7	2
81	Phase mask-based IR femtosecond grating inscription in a photonic crystal fiber with short focal length cylindrical lens. , 2018, , .		0
82	Photopolymerizable Materials for Cell Encapsulation. , 2018, , 353-396.		5
83	Electrically tunable VCSEL with intra-cavity liquid crystal: Design, optimization, and analysis of polarization- and mode-stability. Optics Communications, 2018, 427, 271-277.	1.0	14
84	IR femtosecond pulsed laser-based fiber Bragg grating inscription in a photonic crystal fiber using a phase mask and a short focal length lens. Optics Express, 2018, 26, 14741.	1.7	6
85	Grapheneâ€™s nonlinear-optical physics revealed through exponentially growing self-phase modulation. Nature Communications, 2018, 9, 2675.	5.8	67
86	Extra-ordinary nonlinear-optical behavior in silica-core waveguides covered with graphene. , 2018, , .		0
87	Highly Reactive Thiolâ€Norbornene Photoâ€Click Hydrogels: Toward Improved Processability. Macromolecular Rapid Communications, 2018, 39, e1800181.	2.0	77
88	Endothelialization and Anticoagulation Potential of Surfaceâ€Modified PET Intended for Vascular Applications. Macromolecular Bioscience, 2018, 18, e1800125.	2.1	28
89	Aerospace-grade compatible surface mounted optical fibre sensor for structural health monitoring of composite structures. , 2018, , .		2
90	Visible Supercontinuum Light Generation in Integrated Diamond-on-Insulator Waveguides. , 2018, , .		1

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91	Highly birefringent photonic crystal fiber compatible with IR femtosecond grating inscription methods. , 2018, , .		0
92	Integration of electro-absorption modulator in a vertical-cavity surface-emitting laser. , 2018, , .		0
93	Prescribed intensity patterns from extended sources by means of a wavefront-matching procedure. , 2018, , .		0
94	Design of an optical refocusing illumination system for use in laser-scanning devices. , 2018, , .		0
95	Design of a freeform, luminance spreading illumination lens with a continuous surface. , 2018, , .		0
96	Relaxing alignment tolerance in single-mode fiber connections using 3D nanoprinted beam expanders. , 2018, , .		0
97	Indirect Rapid Prototyping: Opening Up Unprecedented Opportunities in Scaffold Design and Applications. Annals of Biomedical Engineering, 2017, 45, 58-83.	1.3	40
98	Single lithography-step self-aligned fabrication process for Vertical-Cavity Surface-Emitting Lasers. Materials Science in Semiconductor Processing, 2017, 61, 35-38.	1.9	10
99	Photonics enhanced sensors for food monitoring: part 2. IEEE Instrumentation and Measurement Magazine, 2017, 20, 31-37.	1.2	6
100	Injection Locking and Polarization Switching Bistability in a 1550 nm VCSEL Subject to Parallel Optical Injection. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-10.	1.9	11
101	Fibre optic sensor based measurements of flow-induced vibration in a liquid metal cooled nuclear reactor set-up. , 2017, , .		0
102	Oxide-confined VCSELs fabricated with a simple self-aligned process flow. Semiconductor Science and Technology, 2017, 32, 125004.	1.0	2
103	Soft tissue fillers for adipose tissue regeneration: From hydrogel development toward clinical applications. Acta Biomaterialia, 2017, 63, 37-49.	4.1	77
104	Cross-Linkable Gelatins with Superior Mechanical Properties Through Carboxylic Acid Modification: Increasing the Two-Photon Polymerization Potential. Biomacromolecules, 2017, 18, 3260-3272.	2.6	104
105	Photonics enhanced sensors for food monitoring: Part 3. IEEE Instrumentation and Measurement Magazine, 2017, 20, 46-55.	1.2	5
106	Dynamic 3D strain measurements with embedded micro-structured optical fiber Bragg grating sensors during impact on a CFRP coupon. , 2017, , .		0
107	Internal scattering as an optical screening method to identify peeled potatoes giving rise to an excess of acrylamide. Journal of Food Engineering, 2017, 195, 255-261.	2.7	1
108	Optofluidic Chip for Single-Beam Optical Trapping of Particles Enabling Confocal Raman Measurements. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 176-184.	1.9	2

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109	Simultaneous injection locking and polarization switching in vcsels subject to parallel optical injection. , 2017, , .		0
110	Compact illumination optic with three freeform surfaces for improved beam control. Optics Express, 2017, 25, 29627.	1.7	27
111	Polarization dynamics induced by parallel optical injection in a single-mode VCSEL. Optics Letters, 2017, 42, 2130.	1.7	15
112	Analysis of the polarization of single-mode vertical-cavity surface-emitting lasers subject to parallel optical injection. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 447.	0.9	9
113	Fibre Bragg Gratings in Embedded Microstructured Optical Fibres Allow Distinguishing between Symmetric and Anti-Symmetric Lamb Waves in Carbon Fibre Reinforced Composites. Sensors, 2017, 17, 1948.	2.1	9
114	Characterizing Flow-Induced Vibrations of Fuel Assemblies for Future Liquid Metal Cooled Nuclear Reactors Using Quasi-Distributed Fibre-Optic Sensors. Applied Sciences (Switzerland), 2017, 7, 864.	1.3	12
115	Prototyping and Replication of Polymer Freeform Optical Components. , 2017, , .		1
116	Point-by-point fiber Bragg grating inscription in a dedicated multi-ring hexagonal lattice photonic crystal fiber. , 2017, , .		0
117	Polarization switching nonlinear dynamics in long-wavelength single-mode VCSELs subject to parallel optical injection. , 2017, , .		0
118	Vertical integration of an electro-absorption modulator within a VCSEL device. , 2017, , .		0
119	Opportunities for visible supercontinuum light generation in integrated diamond waveguides. Optics Letters, 2017, 42, 3804.	1.7	10
120	Optical design of freeform mirror systems with tailored field curvatures for corneal imaging. , 2017, , .		1
121	Optical trapping of particles combined with confocal Raman spectroscopy in an optofluidic chip. , 2017, , .		0
122	Fabrication of High-Precision Micro-Opto-Mechanical Components through Deep Proton Writing. , 2017, , .		0
123	Modeling, Fabrication and Testing of Hybrid Lenses in a Multichannel, Multiresolution Imaging System. , 2017, , .		0
124	Optofluidic Chips for Raman Spectroscopy and Optical Trapping. , 2017, , .		0
125	Integrated confocal Raman probe combined with a free-form reflector based lab-on-chip. , 2017, , .		1
126	Design of a miniaturized integrated spectrometer for spectral tissue sensing. , 2016, , .		0

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127	Design of focal beam shaping system through irradiance and phase control. Proceedings of SPIE, 2016, , .	0.8	0
128	Specular gloss versus surface topography for oilâ€filled nanoparticle coatings on paper. Color Research and Application, 2016, 41, 596-610.	0.8	2
129	Switchable circular beam deflectors. Journal Physics D: Applied Physics, 2016, 49, 165101.	1.3	2
130	Patterning of graphene on silicon-on-insulator waveguides through laser ablation and plasma etching. , 2016, , .		0
131	A numerical study on the importance of non-uniform index modification during femtosecond grating inscription in microstructured optical fibers. , 2016, , .		0
132	Proof-of-concept demonstration of free-form optics enhanced confocal Raman spectroscopy in combination with optofluidic lab-on-chip. Proceedings of SPIE, 2016, , .	0.8	0
133	Spectroscopic monitoring and melt pool temperature estimation during the laser metal deposition process. Journal of Laser Applications, 2016, 28, .	0.8	8
134	Photonics enhanced sensors for food monitoring: part 1. IEEE Instrumentation and Measurement Magazine, 2016, 19, 35-45.	1.2	11
135	Deep proton writing of high aspect ratio SU-8 micro-pillars on glass. Nuclear Instruments & Methods in Physics Research B, 2016, 389-390, 5-12.	0.6	2
136	Low-Loss Millimeter-Length Waveguides and Grating Couplers in Single-Crystal Diamond. Journal of Lightwave Technology, 2016, 34, 5576-5582.	2.7	15
137	Non-destructive detection of mycotoxins in maize kernels using diffuse reflectance spectroscopy. Food Control, 2016, 70, 48-57.	2.8	13
138	Design and prototyping of self-centering optical single-mode fiber alignment structures. Journal of Micromechanics and Microengineering, 2016, 26, 065007.	1.5	7
139	Polarization properties of localized structures in VCSELs. Proceedings of SPIE, 2016, , .	0.8	0
140	Theoretical and experimental study of polarization switching in long-wavelength VCSELs subject to parallel optical injection. , 2016, , .		0
141	Multifield direct design method for ultrashort throw ratio projection optics with two tailored mirrors. Applied Optics, 2016, 55, 3794.	2.1	33
142	Design of infrared and ultraviolet Raman lasers based on grating-coupled integrated diamond ring resonators. Journal of the Optical Society of America B: Optical Physics, 2016, 33, B5.	0.9	13
143	Chaos synchronization in mutually coupled long-wavelength vertical-cavity surface-emitting lasers with long delay time. , 2016, , .		0
144	Direct design of two freeform optical surfaces for wide field of view line imaging applications. Proceedings of SPIE, 2016, , .	0.8	1

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145	Inverse Abel transform algorithms to determine the radial profile of the photoelastic coefficient of glass optical fibers. , 2016, , .		0
146	Chaos in solitary VCSELs: asymmetry and noise. , 2016, , .		0
147	One- and two-photon induced fluorescence spectroscopy enabling the detection of localized aflatoxin contamination in individual maize kernels. , 2016, , .		1
148	Self-aligned BCB planarization method for high-frequency signal injection in a VCSEL with an integrated modulator. Proceedings of SPIE, 2016, , .	0.8	2
149	One way synchronization of polarization chaos from a solitary Vertical-Cavity Surface-Emitting Laser. Proceedings of SPIE, 2016, , .	0.8	0
150	Negative Kerr Nonlinearity of Graphene as seen via Chirped-Pulse-Pumped Self-Phase Modulation. Physical Review Applied, 2016, 6, .	1.5	68
151	Photonics-enhanced smart imaging systems. Proceedings of SPIE, 2016, , .	0.8	0
152	Optical design of an ultrashort throw ratio projector with two freeform mirrors. , 2016, , .		2
153	Reflective liquid crystal hybrid beam-steerer. Optics Express, 2016, 24, 21541.	1.7	13
154	Enhanced performance of refractive laser beam shapers through additional phase control at focus. Optical Engineering, 2016, 55, 085106.	0.5	0
155	Authenticity screening of stained glass windows using optical spectroscopy. Scientific Reports, 2016, 6, 37726.	1.6	22
156	Enhancement of Chaos Bandwidth in VCSELs Induced by Simultaneous Orthogonal Optical Injection and Optical Feedback. IEEE Journal of Quantum Electronics, 2016, 52, 1-9.	1.0	7
157	Understanding the influence of the structured cladding on the reflectivity of femtosecond laser written gratings in photonic crystal fibers. , 2016, , .		0
158	Foundry-compatible SOI waveguides with a graphene top layer for wideband wavelength conversion. , 2016, , .		3
159	Hot-embossing replication of self-centering optical fiber alignment structures prototyped by deep proton writing. Optical Engineering, 2016, 55, 076112.	0.5	6
160	Determination of the radial profile of the photoelastic coefficient of polymer optical fibers. , 2016, , .		0
161	Optical-quality controllable wet-chemical doping of graphene through a uniform, transparent and low-roughness F4-TCNQ/MEK layer. RSC Advances, 2016, 6, 104491-104501.	1.7	10
162	Simultaneous calculation of three optical surfaces in the 3D SMS freeform RXI optic. , 2016, , .		0

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163	Polarization- and Modal-Control in a Vertical-Cavity Surface-Emitting Laser With an External-Cavity Formed by a Liquid Crystal Overlay. Journal of Lightwave Technology, 2016, 34, 5437-5443.	2.7	2
164	Deep proton writing with 12ÂMeV protons for rapid prototyping of microstructures in polymethylmethacrylate. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 044501.	1.0	3
165	Vector cavity solitons in broad area Vertical-Cavity Surface-Emitting Lasers. Scientific Reports, 2016, 6, 20428.	1.6	21
166	Direct design of laser-beam shapers, zoom-beam expanders, and combinations thereof. Proceedings of SPIE, 2016, , .	0.8	0
167	Freeform optical design of an XY-zoom beam expander. , 2016, , .		1
168	Speckle perception and disturbance limit in laser based projectors. Proceedings of SPIE, 2016, , .	0.8	1
169	Plasma treatment of fiber facets for increased (de)mating endurance in physical contact fiber connectors. , 2016, , .		0
170	Replication of self-centering optical fiber alignment structures using hot embossing. Proceedings of SPIE, 2016, , .	0.8	1
171	Dual fiber optical trapping in a polymer-based microfluidic chip. , 2016, , .		0
172	Polarization switching and injection locking in vertical-cavity surface-emitting lasers subject to parallel optical injection. Optics Letters, 2016, 41, 2664.	1.7	29
173	Modeling and design of infrared and ultraviolet integrated diamond ring Raman lasers. , 2016, , .		1
174	Thermal effects on the photoelastic coefficient of polymer optical fibers. Optics Letters, 2016, 41, 2517.	1.7	14
175	Polydopamineâ€“Gelatin as Universal Cell-Interactive Coating for Methacrylate-Based Medical Device Packaging Materials: When Surface Chemistry Overrules Substrate Bulk Properties. Biomacromolecules, 2016, 17, 56-68.	2.6	21
176	Chaos synchronization in mutually coupled 1550-nm vertical-cavity surface-emitting lasers with parallel polarizations and long delay time. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 90.	0.9	15
177	Light through glass: The spectrum of Late Antique glass from Cyprus. Journal of Archaeological Science: Reports, 2016, 7, 614-624.	0.2	11
178	Optofluidic multi-measurement system for the online monitoring of lubricant oil. Measurement Science and Technology, 2016, 27, 015004.	1.4	1
179	Relation between optical non-contact profilometry and AFM roughness parameters on coated papers with oil-filled nanoparticles. Measurement: Journal of the International Measurement Confederation, 2016, 82, 75-93.	2.5	16
180	Nonlinear Dynamics of Vertical-Cavity Surface-Emitting Lasers: Deterministic Chaos and Random Number Generation. Springer Proceedings in Physics, 2016, , 59-69.	0.1	0

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181	Opportunities for Wideband Wavelength Conversion in Foundry-Compatible Silicon Waveguides Covered With Graphene. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 347-359.	1.9	19
182	Photonic Crystal Fibers for Femtosecond Laser Point-by-Point Grating Inscription. , 2016, , .		1
183	Biodegradable Polyesters: From Monomer to Application. , 2016, , 786-835.		0
184	Novel microfluidic devices for Raman spectroscopy and optical trapping. , 2016, , .		0
185	Laser ablation- and plasma etching-based patterning of graphene on silicon-on-insulator waveguides. Optics Express, 2015, 23, 26639.	1.7	23
186	Mass-manufacturable polymer microfluidic device for dual fiber optical trapping. Optics Express, 2015, 23, 30991.	1.7	17
187	Multi-fields direct design approach in 3D: calculating a two-surface freeform lens with an entrance pupil for line imaging systems. Optics Express, 2015, 23, 34042.	1.7	14
188	Speckle disturbance limit in laser-based cinema projection systems. Scientific Reports, 2015, 5, 14105.	1.6	23
189	Compact Ã©tendue-preserving light-mixing optics. Optics Express, 2015, 23, A1485.	1.7	3
190	Electrically Controllable Liquid Crystal Component for Efficient Light Steering. IEEE Photonics Journal, 2015, 7, 1-13.	1.0	22
191	Modeling and design of a multichannel chromatic aberration compensated imaging system. , 2015, , .		0
192	Optical quality study of refractive lenses made out of oxide glass using hot embossing. Infrared Physics and Technology, 2015, 73, 212-218.	1.3	4
193	Microwave signal generation using a 1550 nm VCSEL subject to dual-beam parallel optical injection. , 2015, , .		0
194	Analytic design of a zoom XY-beam expander with freeform optical surfaces. Optics Express, 2015, 23, 30438.	1.7	21
195	Polarization switching in 1550nm VCSELs subject to parallel optical injection. , 2015, , .		0
196	Photo-crosslinkable biopolymers targeting stem cell adhesion and proliferation: the case study of gelatin and starch-based IPNs. Journal of Materials Science: Materials in Medicine, 2015, 26, 104.	1.7	12
197	Free-Form Optics Enhanced Confocal Raman Spectroscopy for Optofluidic Lab-on-Chips. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 79-86.	1.9	20
198	Simultaneous Quasi-Phase Matching of Two Arbitrary Four-Wave-Mixing Processes. Journal of Lightwave Technology, 2015, 33, 1726-1736.	2.7	4

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