

Christophe Moser

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

2,565
citations

26
h-index

47
g-index

169
ext. papers

3,618
ext. citations

6.3
avg, IF

5.65
L-index

#	Paper	IF	Citations
114	Focusing and scanning light through a multimode optical fiber using digital phase conjugation. <i>Optics Express</i> , 2012 , 20, 10583-90	3.3	224
113	High-resolution, lensless endoscope based on digital scanning through a multimode optical fiber. <i>Biomedical Optics Express</i> , 2013 , 4, 260-70	3.5	174
112	Learning to see through multimode fibers. <i>Optica</i> , 2018 , 5, 960	8.6	147
111	Volumetric Bioprinting of Complex Living-Tissue Constructs within Seconds. <i>Advanced Materials</i> , 2019 , 31, e1904209	24	144
110	Design and cost considerations for practical solar-hydrogen generators. <i>Energy and Environmental Science</i> , 2014 , 7, 3828-3835	35.4	113
109	Multimode optical fiber transmission with a deep learning network. <i>Light: Science and Applications</i> , 2018 , 7, 69	16.7	113
108	High-resolution tomographic volumetric additive manufacturing. <i>Nature Communications</i> , 2020 , 11, 852	17.4	86
107	Digital confocal microscopy through a multimode fiber. <i>Optics Express</i> , 2015 , 23, 23845-58	3.3	83
106	Delivery of focused short pulses through a multimode fiber. <i>Optics Express</i> , 2015 , 23, 9109-20	3.3	65
105	Solar-to-Hydrogen Production at 14.2% Efficiency with Silicon Photovoltaics and Earth-Abundant Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F1177-F1181	3.9	62
104	Dynamic bending compensation while focusing through a multimode fiber. <i>Optics Express</i> , 2013 , 21, 22504-14	3.14	62
103	Two-photon imaging through a multimode fiber. <i>Optics Express</i> , 2015 , 23, 32158-70	3.3	59
102	Composite Double-Network Hydrogels To Improve Adhesion on Biological Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38692-38699	9.5	47
101	Volume Holographic Grating Wavelength Stabilized Laser Diodes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 672-678	3.8	44
100	A versatile and membrane-less electrochemical reactor for the electrolysis of water and brine. <i>Energy and Environmental Science</i> , 2019 , 12, 1592-1604	35.4	42
99	Photo-polymerization, swelling and mechanical properties of cellulose fibre reinforced poly(ethylene glycol) hydrogels. <i>Composites Science and Technology</i> , 2015 , 119, 93-99	8.6	41
98	Spatiotemporal self-similar fiber laser. <i>Optica</i> , 2019 , 6, 1412	8.6	40

97	Inkjet Printing of Viscous Monodisperse Microdroplets by Laser-Induced Flow Focusing. <i>Physical Review Applied</i> , 2016 , 6,	4.3	40
96	A photopolymerized composite hydrogel and surgical implanting tool for a nucleus pulposus replacement. <i>Biomaterials</i> , 2016 , 88, 110-9	15.6	38
95	Vapor-fed microfluidic hydrogen generator. <i>Lab on A Chip</i> , 2015 , 15, 2287-96	7.2	31
94	Volume holographic grating-based continuously tunable optical filter. <i>Optical Engineering</i> , 2004 , 43, 2017.1	7.1	30
93	Calibration-free imaging through a multicore fiber using speckle scanning microscopy. <i>Optics Letters</i> , 2016 , 41, 3078-81	3	30
92	Dual wavelength full field imaging in low coherence digital holographic microscopy. <i>Optics Express</i> , 2011 , 19, 24005-22	3.3	29
91	Single-mode output by controlling the spatiotemporal nonlinearities in mode-locked femtosecond multimode fiber lasers. <i>Advanced Photonics</i> , 2020 , 2,	8.1	29
90	Optical-resolution photoacoustic microscopy by use of a multimode fiber. <i>Applied Physics Letters</i> , 2013 , 102, 211106	3.4	26
89	Bend translation in multimode fiber imaging. <i>Optics Express</i> , 2017 , 25, 6263-6273	3.3	26
88	Imaging through multimode fibers using deep learning: The effects of intensity versus holographic recording of the speckle pattern. <i>Optical Fiber Technology</i> , 2019 , 52, 101985	2.4	25
87	Light control in a multicore fiber using the memory effect. <i>Optics Express</i> , 2015 , 23, 30532-44	3.3	22
86	Single-photon three-dimensional microfabrication through a multimode optical fiber. <i>Optics Express</i> , 2018 , 26, 1766-1778	3.3	21
85	Proof of principle demonstration of a self-tracking concentrator. <i>Optics Express</i> , 2014 , 22 Suppl 2, A498-510	3.10	21
84	Compact lensless off-axis transmission digital holographic microscope. <i>Optics Express</i> , 2017 , 25, 16652-16659	3.5	20
83	Ultra-narrow-band tunable laserline notch filter. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 95, 597-601	1.9	20
82	Lensless two-photon imaging through a multicore fiber with coherence-gated digital phase conjugation. <i>Journal of Biomedical Optics</i> , 2016 , 21, 45002	3.5	19
81	Three-dimensional microfabrication through a multimode optical fiber. <i>Optics Express</i> , 2017 , 25, 7031-7045	3.5	19
80	Self-tracking solar concentrator with an acceptance angle of 32°. <i>Optics Express</i> , 2014 , 22 Suppl 7, A1880-394	3.94	19

79	Selective femtosecond laser ablation via two-photon fluorescence imaging through a multimode fiber. <i>Biomedical Optics Express</i> , 2019 , 10, 423-433	3.5	19
78	Imaging with Multimode Fibers. <i>Optics and Photonics News</i> , 2016 , 27, 24	1.9	19
77	Confocal microscopy through a multimode fiber using optical correlation. <i>Optics Letters</i> , 2015 , 40, 5754-3		18
76	Increasing the imaging capabilities of multimode fibers by exploiting the properties of highly scattering media. <i>Optics Letters</i> , 2013 , 38, 2776-8	3	18
75	Scalable optical learning operator. <i>Nature Computational Science</i> , 2021 , 1, 542-549		18
74	Optical-resolution photoacoustic imaging through thick tissue with a thin capillary as a dual optical-in acoustic-out waveguide. <i>Applied Physics Letters</i> , 2015 , 106, 094102	3.4	17
73	Actor neural networks for the robust control of partially measured nonlinear systems showcased for image propagation through diffuse media. <i>Nature Machine Intelligence</i> , 2020 , 2, 403-410	22.5	17
72	All-fiber spatiotemporally mode-locked laser with multimode fiber-based filtering. <i>Optics Express</i> , 2020 , 28, 23433-23438	3.3	16
71	External-cavity lasers based on a volume holographic grating at normal incidence for spectroscopy in the visible range. <i>Optics Communications</i> , 2009 , 282, 3119-3123	2	15
70	Localized holographic recording in doubly doped lithium niobate. <i>Optics Letters</i> , 2000 , 25, 162-4	3	15
69	Photoinitiator-free multi-photon fabrication of compact optical waveguides in polydimethylsiloxane. <i>Optical Materials Express</i> , 2019 , 9, 128	2.6	15
68	Light induced fluidic waveguide coupling. <i>Optics Express</i> , 2012 , 20 Suppl 6, A924-31	3.3	14
67	Self-aligned non-dispersive external cavity tunable laser. <i>Optics Express</i> , 2008 , 16, 16691-6	3.3	14
66	Volumetric Bioprinting of Organoids and Optically Tuned Hydrogels to Build Liver-Like Metabolic Biofactories.. <i>Advanced Materials</i> , 2022 , e2110054	24	14
65	Transscleral Optical Phase Imaging of the Human Retina. <i>Nature Photonics</i> , 2020 , 14, 439-445	33.9	12
64	Enhanced resolution in a multimode fiber imaging system. <i>Optics Express</i> , 2015 , 23, 27484-93	3.3	12
63	Towards new applications using capillary waveguides. <i>Biomedical Optics Express</i> , 2015 , 6, 4619-31	3.5	12
62	Curved Holographic Combiner for Color Head Worn Display. <i>Journal of Display Technology</i> , 2014 , 10, 444-449		12

61	Additive micro-manufacturing of crack-free PDCs by two-photon polymerization of a single, low-shrinkage preceramic resin. <i>Additive Manufacturing</i> , 2020 , 35, 101343	6.1	11
60	Computer generated optical volume elements by additive manufacturing. <i>Nanophotonics</i> , 2020 , 9, 4173-4181	4.3	11
59	High power, ultrashort pulse control through a multi-core fiber for ablation. <i>Optics Express</i> , 2017 , 25, 11491-11502	3.3	10
58	Off-axis digital holographic camera for quantitative phase microscopy. <i>Biomedical Optics Express</i> , 2014 , 5, 1721-30	3.5	10
57	Beam-width-dependent filtering properties of strong volume holographic gratings. <i>Applied Optics</i> , 2006 , 45, 3774-80	1.7	10
56	Diffraction efficiency of localized holograms in doubly doped LiNbO(3) crystals. <i>Optics Letters</i> , 2000 , 25, 1243-5	3	10
55	Raman imaging through multimode sapphire fiber. <i>Optics Express</i> , 2019 , 27, 1090-1098	3.3	10
54	Compact in-line lensfree digital holographic microscope. <i>Methods</i> , 2018 , 136, 17-23	4.6	10
53	Fabrication of Sub-Micron Polymer Waveguides through Two-Photon Polymerization in Polydimethylsiloxane. <i>Polymers</i> , 2020 , 12,	4.5	9
52	Repetitive regime of highly focused liquid microjets for needle-free injection. <i>Scientific Reports</i> , 2020 , 10, 5067	4.9	9
51	Photopolymerizable hydrogels for implants: Monte-Carlo modeling and experimental in vitro validation. <i>Journal of Biomedical Optics</i> , 2014 , 19, 35004	3.5	8
50	Fabrication and applications of volume holographic optical filters in glass. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 224003	3	8
49	Depth-controlled laser-induced jet injection for direct three-dimensional liquid delivery. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	8
48	Compact lensless phase imager. <i>Optics Express</i> , 2017 , 25, 4438-4445	3.3	7
47	Miniature probe for the delivery and monitoring of a photopolymerizable material. <i>Journal of Biomedical Optics</i> , 2015 , 20, 127001	3.5	7
46	Direct (3+1)D laser writing of graded-index optical elements. <i>Optica</i> , 2021 , 8, 1281	8.6	7
45	Controlling Light in Scattering Materials for Volumetric Additive Manufacturing.. <i>Advanced Science</i> , 2022 , e2105144	13.6	7
44	Biofabrication: Volumetric Bioprinting of Complex Living-Tissue Constructs within Seconds (Adv. Mater. 42/2019). <i>Advanced Materials</i> , 2019 , 31, 1970302	24	6

43	Deep Learning-Based Image Classification through a Multimode Fiber in the Presence of Wavelength Drift. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3816	2.6	6
42	Compact lensless subpixel resolution large field of view microscope. <i>Optics Letters</i> , 2018 , 43, 1654-1657	3	6
41	Multi-notch holographic filters for atmospheric lines suppression 2004 , 5494, 554		6
40	Needle-free delivery of fluids from compact laser-based jet injector. <i>Lab on A Chip</i> , 2020 , 20, 3784-3791	7.2	6
39	Effect of backscattering in phase contrast imaging of the retina. <i>Optics Express</i> , 2018 , 26, 6785-6795	3.3	5
38	Holographic memory with localized recording. <i>Applied Optics</i> , 2001 , 40, 3909-14	1.7	5
37	Tomographic Volumetric Additive Manufacturing of Silicon Oxycarbide Ceramics. <i>Advanced Engineering Materials</i> , 2101345	3.5	5
36	An Intrinsically-Adhesive Family of Injectable and Photo-Curable Hydrogels with Functional Physicochemical Performance for Regenerative Medicine. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000660	4.8	5
35	Implementation of Photopolymerizable Hydrogels as a Potential Treatment of Intracranial Aneurysms. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 261	5.8	5
34	Full field vertical scanning in short coherence digital holographic microscope. <i>Optics Express</i> , 2013 , 21, 12643-50	3.3	4
33	Compact single mode tunable laser using a digital micromirror device. <i>Optics Express</i> , 2011 , 19, 14642-52	3.3	4
32	See-through ophthalmoscope for retinal imaging. <i>Journal of Biomedical Optics</i> , 2017 , 22, 56006	3.5	3
31	Complex pattern projection through a multimode fiber 2015 ,		3
30	Curved transfective holographic screens for head-mounted display 2013 ,		3
29	A 25.1% Efficient Stand-Alone Solar Chloralkali Generator Employing a Microtracking Solar Concentrator. <i>Global Challenges</i> , 2017 , 1, 1700095	4.3	3
28	Self-tracking planar concentrator using a solar actuated phase-change mechanism 2013 ,		3
27	Folded shift multiplexing. <i>Optics Letters</i> , 2003 , 28, 899-901	3	3
26	A constrained method for lensless coherent imaging of thin samples.. <i>Applied Optics</i> , 2022 , 61, F34-F46	1.7	3

25	Dispersion-Managed Soliton Multimode Fiber Laser 2020 ,		3
24	Reusability report: Predicting spatiotemporal nonlinear dynamics in multimode fibre optics with a recurrent neural network. <i>Nature Machine Intelligence</i> , 2021 , 3, 387-391	22.5	3
23	Tomographic Volumetric Additive Manufacturing in Scattering Resins 2021 ,		3
22	Versatile spectral modulation of a broadband source for digital holographic microscopy. <i>Optics Express</i> , 2016 , 24, 27791-27804	3.3	3
21	Multiple speckle illumination for optical-resolution photoacoustic imaging 2017 ,		2
20	EditorsTChoiceSolar-Electrochemical Platforms for Sodium Hypochlorite Generation in Developing Countries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, E336-E346	3.9	2
19	Multi-scale modeling of photopolymerization for medical hydrogel-implant design 2013 ,		2
18	Quantitative phase noise in a two-color low coherence digital holographic microscope 2013 ,		2
17	Imaging using multimode fibers 2013 ,		2
16	Phase sensitivity in differential phase contrast microscopy: limits and strategies to improve it. <i>Optics Express</i> , 2020 , 28, 33767-33783	3.3	2
15	Degradation study on molecules released from laser-based jet injector. <i>International Journal of Pharmaceutics</i> , 2021 , 602, 120664	6.5	2
14	Pulsatile Flow-Induced Fatigue-Resistant Photopolymerizable Hydrogels for the Treatment of Intracranial Aneurysms. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 619858	5.8	2
13	Complex light in 3D printing 2016 ,		1
12	Focused light delivery and all optical scanning from a multimode optical fiber using digital phase conjugation 2013 ,		1
11	A novel tunable diode laser using volume holographic gratings 2009 ,		1
10	Discrete tunable laser for 3D imaging 2012 ,		1
9	Trackfree planar solar concentrator system 2012 ,		1
8	Distortion free pulse stretching and compression by chirped volume holographic gratings 2010 ,		1

- 7 Efficient Image Classification through a Multimode Fiber using Deep Neural Networks in presence of Wavelength Drifting **2019**, 1
- 6 Laser-assisted inkjet printing of highly viscous fluids with sub-nozzle resolution **2016**, 1
- 5 Fully automated detection, segmentation, and analysis of in vivo RPE single cells. *Eye*, **2021**, 35, 1473-1484, 1
- 4 Holographic Filters **2007**, 295-319 1
- 3 Integrated Platform for Multi-resolution Additive Manufacturing **2018**, 145-151
- 2 Localized holographic recording in doubly doped lithium niobate **2000**, 4089, 118
- 1 Light induced fluidic waveguide coupling. *Optics Express*, **2012**, 20, A924-31 3-3