

Patrick S Salter

List of Publications by Year in Descending Order

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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.

63
papers

1,352
citations

20
h-index

35
g-index

80
ext. papers

1,724
ext. citations

5
avg, IF

4.87
L-index

#	Paper	IF	Citations
63	3D Switchable Diffractive Optical Elements Fabricated with Two-Photon Polymerization. <i>Advanced Optical Materials</i> , 2022 , 10, 2102446	8.1	2
62	Generalised adaptive optics method for high-NA aberration-free refocusing in refractive-index-mismatched media.. <i>Optics Express</i> , 2022 , 30, 11809-11824	3.3	0
61	Microscopic processes during ultrafast laser generation of Frenkel defects in diamond. <i>Physical Review B</i> , 2021 , 104,	3.3	2
60	Two-Photon Laser-Written Photoalignment Layers for Patterning Liquid Crystalline Conjugated Polymer Orientation. <i>Advanced Functional Materials</i> , 2021 , 31, 2007493	15.6	7
59	Antimony thin films demonstrate programmable optical nonlinearity. <i>Science Advances</i> , 2021 , 7,	14.3	17
58	Tomographic refractive index profiling of direct laser written waveguides. <i>Optics Express</i> , 2021 , 29, 35414-35425	14.3	15
57	Electrically-tunable positioning of topological defects in liquid crystals. <i>Nature Communications</i> , 2020 , 11, 2203	17.4	17
56	A single-crystal diamond X-ray pixel detector with embedded graphitic electrodes. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 599-607	2.4	6
55	Spinning disk-remote focusing microscopy. <i>Biomedical Optics Express</i> , 2020 , 11, 2874-2888	3.5	3
54	Trimming laser-written waveguides through overwriting. <i>Optics Express</i> , 2020 , 28, 28006-28016	3.3	5
53	A single crystal CVD diamond x-ray beam diagnostic with embedded graphitic wire electrodes 2019 ,		1
52	Adaptive optics aberration correction for deep direct laser written waveguides in the heating regime. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	11
51	Laser writing of individual nitrogen-vacancy defects in diamond with near-unity yield. <i>Optica</i> , 2019 , 6, 662	8.6	55
50	Laser Writing of Scalable Single Color Centers in Silicon Carbide. <i>Nano Letters</i> , 2019 , 19, 2377-2383	11.5	39
49	Multi-plane remote refocusing epifluorescence microscopy to image dynamic events. <i>Biomedical Optics Express</i> , 2019 , 10, 5611-5624	3.5	
48	Adaptive optics in laser processing. <i>Light: Science and Applications</i> , 2019 , 8, 110	16.7	72
47	Deep Three-Dimensional Solid-State Qubit Arrays with Long-Lived Spin Coherence. <i>Physical Review Applied</i> , 2019 , 12,	4.3	18

46	Planar polymer waveguides with a graded-index profile resulting from intermixing of methacrylates in closed microchannels. <i>Optical Materials</i> , 2018 , 76, 210-215	3.3	1
45	Read on Demand Images in Laser-Written Polymerizable Liquid Crystal Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1800515	8.1	22
44	Microscope calibration using laser written fluorescence. <i>Optics Express</i> , 2018 , 26, 21887-21899	3.3	14
43	Femtosecond fiber Bragg grating fabrication with adaptive optics aberration compensation. <i>Optics Letters</i> , 2018 , 43, 5993-5996	3	7
42	Four-dimensional light shaping: manipulating ultrafast spatiotemporal foci in space and time. <i>Light: Science and Applications</i> , 2018 , 7, 17117	16.7	61
41	Generation of 3-dimensional polymer structures in liquid crystalline devices using direct laser writing. <i>RSC Advances</i> , 2017 , 7, 507-511	3.7	26
40	Laser writing of coherent colour centres in diamond. <i>Nature Photonics</i> , 2017 , 11, 77-80	33.9	129
39	High resolution structural characterisation of laser-induced defect clusters inside diamond. <i>Applied Physics Letters</i> , 2017 , 111, 081103	3.4	12
38	Hybrid laser written waveguides in fused silica for low loss and polarization independence. <i>Optics Express</i> , 2017 , 25, 4845-4859	3.3	16
37	Femtosecond laser inscription of Bragg grating waveguides in bulk diamond. <i>Optics Letters</i> , 2017 , 42, 3451-3453	3	27
36	Aberration correction for direct laser written waveguides in a transverse geometry. <i>Optics Express</i> , 2016 , 24, 10565-74	3.3	20
35	Directionality in laser fabrication of 3D graphitic microwires in diamond 2016 ,		2
34	Stabilizing the uniform lying helix alignment in chiral nematic liquid crystals using direct laser writing. <i>Ferroelectrics</i> , 2016 , 495, 167-173	0.6	
33	Development of integrated mode reformatting components for diffraction-limited spectroscopy. <i>Optics Letters</i> , 2016 , 41, 76-9	3	7
32	Localised polymer networks in chiral nematic liquid crystals for high speed photonic switching. <i>Journal of Applied Physics</i> , 2016 , 119, 183106	2.5	17
31	Inscription of 3D waveguides in diamond using an ultrafast laser. <i>Applied Physics Letters</i> , 2016 , 109, 031109	3.9	44
30	Pulse front adaptive optics: a new method for control of ultrashort laser pulses. <i>Optics Express</i> , 2015 , 23, 19348-57	3.3	28
29	Effects of sample dispersion on ultrafast laser focusing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 1272	1.7	6

28	Waveguide fabrication in KDP crystals with femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 831-836	2.6	14
27	Pulse front adaptive optics in two-photon microscopy. <i>Optics Letters</i> , 2015 , 40, 4999-5002	3	3
26	Effects of aberrations in spatiotemporal focusing of ultrashort laser pulses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 765-72	1.8	29
25	Exploring the depth range for three-dimensional laser machining with aberration correction. <i>Optics Express</i> , 2014 , 22, 17644-56	3.3	38
24	Quantifying distortions in two-photon remote focussing microscope images using a volumetric calibration specimen. <i>Frontiers in Physiology</i> , 2014 , 5, 384	4.6	8
23	Strain-optic active control for quantum integrated photonics. <i>Optics Express</i> , 2014 , 22, 21719-26	3.3	15
22	High conductivity micro-wires in diamond following arbitrary paths. <i>Applied Physics Letters</i> , 2014 , 105, 231105	3.4	46
21	Ultrafast laser processing of diamond 2014 ,		3
20	Dynamic optics for ultrafast laser processing. <i>MATEC Web of Conferences</i> , 2013 , 8, 01003	0.3	
19	On-chip low loss heralded source of pure single photons. <i>Optics Express</i> , 2013 , 21, 13522-32	3.3	86
18	Refractive index profiling of direct laser written waveguides: tomographic phase imaging. <i>Optical Materials Express</i> , 2013 , 3, 1223	2.6	20
17	Analysis of the Three-Dimensional Focal Positioning Capability of Adaptive Optic Elements. <i>International Journal of Optomechatronics</i> , 2013 , 7, 1-14	3.5	15
16	Dynamic optical methods for direct laser written waveguides 2013 ,		3
15	Adaptive slit beam shaping for direct laser written waveguides. <i>Optics Letters</i> , 2012 , 37, 470-2	3	64
14	Focussing over the edge: adaptive subsurface laser fabrication up to the sample face. <i>Optics Express</i> , 2012 , 20, 19978-89	3.3	13
13	Dynamic control of directional asymmetry observed in ultrafast laser direct writing. <i>Applied Physics Letters</i> , 2012 , 101, 141109	3.4	27
12	Three dimensional laser microfabrication in diamond using a dual adaptive optics system. <i>Optics Express</i> , 2011 , 19, 24122-8	3.3	56
11	Addressable microlens array for parallel laser microfabrication. <i>Optics Letters</i> , 2011 , 36, 2302-4	3	28

10	Flexoelectric measurements of a bent-core nematic liquid crystal. <i>Physical Review E</i> , 2011 , 84, 031708	2.4	46
9	24th BLCS Annual Conference. <i>Liquid Crystals Today</i> , 2011 , 20, 25-27	1.9	
8	Fast Electro-Optical Device Based on Chiral Liquid Crystals Encapsulated in Periodic Polymer Channels. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 525, 41-49	0.5	3
7	Unwinding of the uniform lying helix structure in cholesteric liquid crystals next to a spatially uniform aligning surface. <i>Physical Review E</i> , 2009 , 80, 041707	2.4	11
6	The influence of chirality on the difference in flexoelectric coefficients investigated in uniform lying helix, Grandjean and twisted nematic structures. <i>Liquid Crystals</i> , 2009 , 36, 1355-1364	2.3	13
5	Liquid crystal director dynamics imaged using two-photon fluorescence microscopy with remote focusing. <i>Physical Review Letters</i> , 2009 , 103, 257803	7.4	19
4	Spontaneously chiral domains of an achiral bent-core nematic liquid crystal in a planar aligned device. <i>Physical Review E</i> , 2009 , 80, 031701	2.4	20
3	Short pitch cholesteric electro-optical device based on periodic polymer structures. <i>Applied Physics Letters</i> , 2009 , 95, 011102	3.4	55
2	Analytic twist angle measurement in liquid crystal cells. <i>Applied Physics Letters</i> , 2009 , 95, 083505	3.4	
1	Alignment of the Uniform Lying Helix Structure in Cholesteric Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 101302	1.4	20