

Duncan P. Hand

List of Publications by Year in descending order

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195
papers

4,076
citations

94433

37
h-index

149698

56
g-index

198
all docs

198
docs citations

198
times ranked

3124
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinduced refractive-index changes in germanosilicate fibers. <i>Optics Letters</i> , 1990, 15, 102.	3.3	252
2	Solitary thermal shock waves and optical damage in optical fibers: the fiber fuse. <i>Optics Letters</i> , 1988, 13, 767.	3.3	169
3	High energy nanosecond laser pulses delivered single-mode through hollow-core PBG fibers. <i>Optics Express</i> , 2004, 12, 717.	3.4	145
4	Single-mode mid-IR guidance in a hollow-core photonic crystal fiber. <i>Optics Express</i> , 2005, 13, 7139.	3.4	104
5	Picosecond and nanosecond pulse delivery through a hollow-core Negative Curvature Fiber for micro-machining applications. <i>Optics Express</i> , 2013, 21, 22742.	3.4	96
6	Application of cooled spatial light modulator for high power nanosecond laser micromachining. <i>Optics Express</i> , 2010, 18, 17059.	3.4	93
7	Melt ejection during laser drilling of metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 356, 414-424.	5.6	81
8	Mid-infrared methane detection in a photonic bandgap fiber using a broadband optical parametric oscillator. <i>Optics Express</i> , 2007, 15, 11219.	3.4	81
9	Ultra-Wideband Bandpass Filter With Multiple Notch Bands Using Nonuniform Periodical Slotted Ground Structure. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009, 57, 3080-3088.	4.6	79
10	Mid-infrared gas sensing using a photonic bandgap fiber. <i>Applied Optics</i> , 2008, 47, 1269.	2.1	78
11	Flexible delivery of Er:YAG radiation at 294 Åµm with negative curvature silica glass fibers: a new solution for minimally invasive surgical procedures. <i>Biomedical Optics Express</i> , 2013, 4, 193.	2.9	77
12	In-Fiber Fabry-Perot Cavity Sensor for High-Temperature Applications. <i>Journal of Lightwave Technology</i> , 2015, 33, 2419-2425.	4.6	74
13	Transient deformation measurement with electronic speckle pattern interferometry and a high-speed camera. <i>Applied Optics</i> , 1999, 38, 1159.	2.1	71
14	Picosecond laser cutting and drilling of thin flex glass. <i>Optics and Lasers in Engineering</i> , 2016, 78, 64-74.	3.8	69
15	Nanosecond laser texturing for high friction applications. <i>Optics and Lasers in Engineering</i> , 2014, 62, 9-16.	3.8	68
16	Enhancing Surface Finish of Additively Manufactured Titanium and Cobalt Chrome Elements Using Laser Based Finishing. <i>Physics Procedia</i> , 2016, 83, 258-263.	1.2	68
17	Maskless, rapid manufacturing of glass microfluidic devices using a picosecond pulsed laser. <i>Scientific Reports</i> , 2019, 9, 20215.	3.3	67
18	Picosecond laser welding of similar and dissimilar materials. <i>Applied Optics</i> , 2014, 53, 4233.	1.8	63

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19	Temperature and Strain Measurements With Fiber Bragg Gratings Embedded in Stainless Steel 316. <i>Journal of Lightwave Technology</i> , 2015, 33, 2474-2479.	4.6	58
20	High energy green nanosecond and picosecond pulse delivery through a negative curvature fiber for precision micro-machining. <i>Optics Express</i> , 2015, 23, 8498.	3.4	55
21	A comprehensive study of the long pulse Nd:YAG laser drilling of multi-layer carbon fibre composites. <i>Optics Communications</i> , 2002, 210, 319-328.	2.1	53
22	Avoiding the requirement for pre-existing optical contact during picosecond laser glass-to-glass welding. <i>Optics Express</i> , 2015, 23, 18645.	3.4	52
23	Towards practical gas sensing with micro-structured fibres. <i>Measurement Science and Technology</i> , 2009, 20, 075301.	2.6	51
24	Material interactions in laser polishing powder bed additive manufactured Ti6Al4V components. <i>Additive Manufacturing</i> , 2018, 20, 11-22.	3.0	51
25	Polylactic is a Sustainable, Low Absorption, Low Autofluorescence Alternative to Other Plastics for Microfluidic and Organ-on-Chip Applications. <i>Analytical Chemistry</i> , 2020, 92, 6693-6701.	6.5	50
26	Laser Micromachining of Zirconia (Y-TZP) Ceramics in the Picosecond Regime and the Impact on Material Strength. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 163-171.	2.1	48
27	Optical techniques for real-time penetration monitoring for laser welding. <i>Applied Optics</i> , 2005, 44, 3869.	2.1	46
28	A practical technique for the generation of highly uniform LIPSS. <i>Applied Surface Science</i> , 2014, 313, 123-131.	6.1	46
29	Laser spot welding of laser textured steel to aluminium. <i>Journal of Materials Processing Technology</i> , 2017, 241, 24-35.	6.3	45
30	Optimized Nanosecond Pulsed Laser Micromachining of Y-TZP Ceramics. <i>Journal of the American Ceramic Society</i> , 2008, 91, 391-397.	3.8	44
31	Delivery of high energy Er:YAG pulsed laser light at 294 μm through a silica hollow core photonic crystal fibre. <i>Optics Express</i> , 2012, 20, 6677.	3.4	44
32	Scalable stacked array piezoelectric deformable mirror for astronomy and laser processing applications. <i>Review of Scientific Instruments</i> , 2014, 85, 024502.	1.3	43
33	Rapid Laser Manufacturing of Microfluidic Devices from Glass Substrates. <i>Micromachines</i> , 2018, 9, 409.	2.9	42
34	Improved hollow-core photonic crystal fiber design for delivery of nanosecond pulses in laser micromachining applications. <i>Applied Optics</i> , 2005, 44, 4582.	2.1	41
35	Laser surface texturing for high friction contacts. <i>Applied Surface Science</i> , 2015, 357, 2313-2319.	6.1	40
36	Measurement of resonant bend loss in anti-resonant hollow core optical fiber. <i>Optics Express</i> , 2017, 25, 20612.	3.4	40

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37	Time dependent ablation and liquid ejection processes during the laser drilling of metals. Optics Communications, 2001, 191, 97-112.	2.1	39
38	Fibre optic beam delivery system for high peak power laser PIV illumination. Measurement Science and Technology, 1999, 10, 239-245.	2.6	37
39	Towards industrial ultrafast laser microwelding: SiO ₂ and BK7 to aluminum alloy. Applied Optics, 2017, 56, 4873.	2.1	37
40	Profile measurement of optically rough surfaces by fiber-optic interferometry. Optics Letters, 1993, 18, 1361.	3.3	35
41	Optical focus control system for laser welding and direct casting. Optics and Lasers in Engineering, 2000, 34, 415-427.	3.8	34
42	TOOL WEAR PREDICTION FROM ACOUSTIC EMISSION AND SURFACE CHARACTERISTICS VIA AN ARTIFICIAL NEURAL NETWORK. Mechanical Systems and Signal Processing, 1999, 13, 955-966.	8.0	33
43	Frequency-doubling in femtosecond laser inscribed periodically-poled potassium titanyl phosphate waveguides. Optics Express, 2007, 15, 17146.	3.4	33
44	Review of Microfluidic Devices and Imaging Techniques for Fluid Flow Study in Porous Geomaterials. Sensors, 2020, 20, 4030.	3.8	33
45	Focus control system for laser welding. Applied Optics, 1997, 36, 5246.	2.1	32
46	Laser Bonding of Glass to Silicon Using Polymer for Microsystems Packaging. Journal of Microelectromechanical Systems, 2007, 16, 571-580.	2.5	32
47	Nanosecond Laser Postprocessing of Millisecond Laser Machined Zirconia (Y ₂ O ₃ ZrO ₂) Surfaces. International Journal of Applied Ceramic Technology, 2008, 5, 249-257.	2.1	32
48	A noninvasive optical system for the measurement of xylem and phloem sap flow in woody plants of small stem size. Tree Physiology, 2007, 27, 169-179.	3.1	31
49	Closed-loop power and focus control of laser welding for full-penetration monitoring. Applied Optics, 2005, 44, 13.	2.1	29
50	Laser microsculpting for the generation of robust diffractive security markings on the surface of metals. Journal of Materials Processing Technology, 2015, 222, 206-218.	6.3	29
51	Integrating Fiber Fabry-Perot Cavity Sensor Into 3-D Printed Metal Components for Extreme High-Temperature Monitoring Applications. IEEE Sensors Journal, 2017, 17, 4107-4114.	4.7	29
52	Glass Frit as a Hermetic Joining Layer in Laser Based Joining of Miniature Devices. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 470-477.	1.3	28
53	Process control of laser conduction welding by thermal imaging measurement with a color camera. Applied Optics, 2005, 44, 6841.	2.1	27
54	Pulsed Laser Micromachining of Yttria-Stabilized Zirconia Dental Ceramic for Manufacturing. International Journal of Applied Ceramic Technology, 2008, 5, 188-197.	2.1	27

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55	Modelling and calibration of bending strains for iterative laser forming. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 4027-4036.	2.8	25
56	Real-time focus control in laser welding. <i>Measurement Science and Technology</i> , 1996, 7, 1095-1098.	2.6	24
57	Surface finish parameters as diagnostics of tool wear in face milling. <i>Wear</i> , 1997, 205, 47-54.	3.1	24
58	Ultra-wideband bandpass filter with multiple notch-bands on multilayer liquid crystal polymer substrate. <i>IET Microwaves, Antennas and Propagation</i> , 2009, 3, 749.	1.4	24
59	Direct CO ₂ laser-based generation of holographic structures on the surface of glass. <i>Optics Express</i> , 2016, 24, 1447.	3.4	24
60	Preparation of fiber optics for the delivery of high-energy high-beam-quality Nd:YAG laser pulses. <i>Applied Optics</i> , 2000, 39, 6136.	2.1	23
61	Characterisation of weld zone reactions in dissimilar glass-to-aluminium pulsed picosecond laser welds. <i>Materials Characterization</i> , 2016, 120, 53-62.	4.4	23
62	Micro-Machined Optical Fiber Side-Cantilevers for Acceleration Measurement. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 1836-1839.	2.5	23
63	Applications of optical sensing for laser cutting and drilling. <i>Applied Optics</i> , 2002, 41, 4988.	2.1	22
64	Ultra-violet direct patterning of metal on polyimide. <i>Micro and Nano Letters</i> , 2008, 3, 82.	1.3	22
65	Application of a liquid crystal spatial light modulator to laser marking. <i>Applied Optics</i> , 2011, 50, 1779.	2.1	21
66	Optical signal oscillations in laser keyhole welding and potential application to lap welding. <i>Measurement Science and Technology</i> , 1997, 8, 627-633.	2.6	20
67	Silica hollow core microstructured fibres for mid-infrared surgical applications. <i>Journal of Non-Crystalline Solids</i> , 2013, 377, 236-239.	3.1	20
68	Silica hollow core microstructured fibers for beam delivery in industrial and medical applications. <i>Frontiers in Physics</i> , 2015, 3, .	2.1	20
69	Fiber-optic delivery of high-peak-power Q-switched laser pulses for in-cylinder flow measurement. <i>Applied Optics</i> , 2003, 42, 4307.	2.1	19
70	Fabricating optical fibre-top cantilevers for temperature sensing. <i>Measurement Science and Technology</i> , 2014, 25, 035206.	2.6	18
71	Compact optical system for pulse-to-pulse laser beam quality measurement and applications in laser machining. <i>Applied Optics</i> , 2004, 43, 5037.	2.1	17
72	A Micro-Machined Optical Fiber Cantilever as a Miniaturized pH Sensor. <i>IEEE Sensors Journal</i> , 2015, 15, 7221-7228.	4.7	17

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73	A direct-writing approach to the micro-patterning of copper onto polyimide. <i>Circuit World</i> , 2009, 35, 3-17.	0.9	16
74	Localised laser joining of glass to silicon with BCB intermediate layer. <i>Microsystem Technologies</i> , 2009, 15, 1051-1057.	2.0	16
75	Static mode microfluidic cantilevers for detection of waterborne pathogens. <i>Sensors and Actuators A: Physical</i> , 2016, 247, 144-149.	4.1	16
76	Hermetic glass frit packaging in air and vacuum with localized laser joining. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 045039.	2.6	15
77	Extrinsic Michelson interferometric fibre optic sensor with bend insensitive download. <i>Optics Communications</i> , 1993, 97, 295-300.	2.1	14
78	Dynamic shape measurement system for laser materials processing. <i>Optical Engineering</i> , 2003, 42, 2923.	1.0	14
79	Holographic watermarks and steganographic markings for combating the counterfeiting practices of high-value metal products. <i>Journal of Materials Processing Technology</i> , 2019, 264, 328-335.	6.3	14
80	Optical fibre beam delivery of high-energy laser pulses: beam quality preservation and fibre end-preparation. <i>Optics and Lasers in Engineering</i> , 2000, 34, 273-288.	3.8	13
81	Nd:YAG laser welding process monitoring by non-intrusive optical detection in the fibre optic delivery system. <i>Measurement Science and Technology</i> , 1995, 6, 1389-1394.	2.6	12
82	Fiber optic high-quality Nd:YAG beam delivery for materials processing. <i>Optical Engineering</i> , 1996, 35, 502.	1.0	12
83	Optical sensor to monitor and control temperature and build height of the laser direct-casting process. <i>Applied Optics</i> , 1998, 37, 8429.	2.1	12
84	Appropriate regimes of laser drilling models containing melt eject mechanisms. <i>Journal of Laser Applications</i> , 2002, 14, 159-164.	1.7	12
85	Efficient speckle-free laser marking using a spatial light modulator. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 111-118.	2.3	12
86	Tamper-proof markings for the identification and traceability of high-value metal goods. <i>Optics Express</i> , 2017, 25, 15216.	3.4	12
87	Optoelectronic device for non-invasive focal point measurement and control of the laser welding process. <i>Measurement Science and Technology</i> , 2005, 16, N1-N6.	2.6	11
88	A study of stitch line formation during high speed laser patterning of thin film indium tin oxide transparent electrodes. <i>Applied Surface Science</i> , 2010, 256, 7276-7284.	6.1	11
89	Wafer-level packaging of silicon to glass with a BCB intermediate layer using localised laser heating. <i>Microelectronics Reliability</i> , 2011, 51, 2257-2262.	1.7	11
90	Laser machining of sensing components on the end of optical fibres. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 045021.	2.6	11

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91	Optimised co-electrodeposition of Fe-Ga alloys for maximum magnetostriction effect. Sensors and Actuators A: Physical, 2015, 223, 91-96.	4.1	11
92	Process control of laser keyhole welding. , 2004, , .		10
93	Measuring beam quality of hollow core photonic crystal fibers. Journal of Lightwave Technology, 2006, 24, 3761-3769.	4.6	10
94	Impact of nonlinear effects on transmission losses of hollow-core antiresonant negative curvature optical fiber. Applied Optics, 2020, 59, 4988.	1.8	10
95	Optical fiber array for the delivery of high peak-power laser pulses for fluid flow measurements. Applied Optics, 2007, 46, 3432.	2.1	9
96	Adaptive Laser Beam Shaping for Laser Marking using Spatial light Modulator and Modified Iterative Fourier Transform Algorithm. Physics Procedia, 2011, 12, 465-469.	1.2	9
97	Optical fiber interferometry for photoacoustic spectroscopy in liquids. Optics Letters, 1995, 20, 213.	3.3	8
98	A Fiber-Laser Process for Cutting Thick Yttria-Stabilized Zirconia: Application and Modeling. International Journal of Applied Ceramic Technology, 2011, 8, 1277-1288.	2.1	8
99	Process Optimization for 100 W Nanosecond Pulsed Fiber Laser Engraving of 316L Grade Stainless Steel. Journal of Manufacturing and Materials Processing, 2020, 4, 110.	2.2	8
100	The application of high-speed TV-holography to time-resolved vibration measurements. Optics and Lasers in Engineering, 1999, 32, 387-394.	3.8	7
101	Hollow-core waveguides for particle image velocimetry. Measurement Science and Technology, 2005, 16, 1119-1125.	2.6	7
102	An optical fibre dynamic instrumented palpation sensor for the characterisation of biological tissue. Sensors and Actuators A: Physical, 2015, 225, 53-60.	4.1	7
103	Negative-Curvature Anti-Resonant Fiber Coupling Tolerances. Journal of Lightwave Technology, 2019, 37, 5548-5554.	4.6	7
104	Investigation of an interlaced laser beam scanning method for ultrashort pulse laser micromachining applications. Journal of Materials Processing Technology, 2020, 285, 116807.	6.3	7
105	Three-dimensional polymer optical waveguide interleaver with selectable channel spacing. Optics Communications, 2007, 273, 394-397.	2.1	6
106	On the Use of Silver Nanoparticles for Direct Micropatterning on Polyimide Substrates. IEEE Nanotechnology Magazine, 2012, 11, 139-147.	2.0	6
107	Embedding metallic jacketed fused silica fibres into stainless steel using additive layer manufacturing technology. Proceedings of SPIE, 2013, , .	0.8	6
108	Preclinical evaluation of porcine colon resection using hollow core negative curvature fibre delivered ultrafast laser pulses. Journal of Biophotonics, 2019, 12, e201900055.	2.3	6

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109	A fibre-optic-based sensor for optimization and evaluation of the laser percussion drilling process. Measurement Science and Technology, 1997, 8, 587-592.	2.6	5
110	Speckle contrast reduction in a large-core fiber delivering Q-switched pulses for fluid flow measurements. Applied Optics, 2006, 45, 4209.	2.1	5
111	Compact tunable three-dimensional polymer optical waveguide comb filter. Optics Communications, 2007, 277, 89-92.	2.1	5
112	The application of the mid-infrared spectral region in medical surgery: chalcogenide glass optical fibre for 10.6 μ m laser transmission. Proceedings of SPIE, 2008, , .	0.8	5
113	Measuring residual stresses in metallic components manufactured with fibre Bragg gratings embedded by selective laser melting. , 2015, , .		5
114	SS316 structure fabricated by selective laser melting and integrated with strain isolated optical fiber high temperature sensor. , 2015, , .		5
115	Dispersion measurement of microstructured negative curvature hollow core fiber. Optical Engineering, 2016, 55, 116106.	1.0	5
116	Detection of photoacoustic waves in liquids by fibre optic interferometry. Optics Communications, 1993, 104, 1-6.	2.1	4
117	Effect of beam quality on single pulse laser drilling. , 2001, , .		4
118	Compensation for time fluctuations of phase modulation in a liquid-crystal-on-silicon display by process synchronization in laser materials processing. Applied Optics, 2011, 50, 2899.	2.1	4
119	Adaptive extracavity beam shaping for application in nanosecond laser micromachining. Proceedings of SPIE, 2011, , .	0.8	4
120	In-situ measurements with fibre Bragg gratings embedded in stainless steel. Proceedings of SPIE, 2014, , .	0.8	4
121	Interlaced Laser Beam Scanning: A Method Enabling an Increase in the Throughput of Ultrafast Laser Machining of Borosilicate Glass. Journal of Manufacturing and Materials Processing, 2019, 3, 14.	2.2	4
122	Practical implementation of laser polishing on additively manufactured metallic components. Journal of Laser Applications, 2020, 32, 042019.	1.7	4
123	Measurement of aspects of surface form using an optical differential height measurement technique. Measurement Science and Technology, 1996, 7, 1579-1582.	2.6	3
124	Surface features as indicators of tool chipping in single point face milling of aluminium. Wear, 1997, 212, 221-228.	3.1	3
125	Towards implementation of hollow core fibres for surgical applications. Proceedings of SPIE, 2011, , .	0.8	3
126	Fabrication of a side aligned optical fibre interferometer by focused ion beam machining. Journal of Micromechanics and Microengineering, 2013, 23, 105005.	2.6	3

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127	Full penetration detection in Nd:YAG laser welding by analysis of oscillatory optical signals: application to overlap weld-seam tracking. , 1997, 3092, 534.		2
128	Online focus control sensor for laser welding offers improved reliability without process intrusion. Sensor Review, 1999, 19, 265-267.	1.8	2
129	Real-time temperature measurement for process monitoring of laser conduction welding. , 2004, , .		2
130	Single-pulse microvia drilling of resin-coated copper substrates using an enhanced peak power planar waveguide CO ₂ laser. , 2004, 5339, 276.		2
131	Miniature coupled resonator UWB filter using a multilayer structure on liquid crystal polymer. , 2008, , .		2
132	Development of Optical Techniques for Noncontact Inspection of Y-TZP Parts. International Journal of Applied Ceramic Technology, 2011, 8, 140-151.	2.1	2
133	Infrared confocal imaging for inspection of flaws in yttria-stabilized tetragonal zirconia polycrystal (Y-TZP). Measurement Science and Technology, 2011, 22, 125502.	2.6	2
134	Micro-machined optical fibre cantilever as sensor elements. Proceedings of SPIE, 2012, , .	0.8	2
135	High peak power nanosecond and picosecond pulse delivery through a hollow-core Negative Curvature Fiber in the green spectral region for micro-machining. , 2014, , .		2
136	In-situ strain sensing with fiber optic sensors embedded into stainless steel 316. Proceedings of SPIE, 2015, , .	0.8	2
137	Picosecond laser welding of optical to metal components. , 2016, , .		2
138	Microsecond enamel ablation with 10.6 μ m CO ₂ laser radiation. Proceedings of SPIE, 2016, , .	0.8	2
139	A Novel Process for Manufacturing High-Friction Rings with a Closely Defined Coefficient of Static Friction (Relative Standard Deviation 3.5%) for Application in Ship Engine Components. Materials, 2022, 15, 448.	2.9	2
140	<title>Transient deformation measurement with a fibre optic speckle pattern interferometer and a high-speed camera</title>. , 1998, , .		1
141	<title>Time-resolved deformation measurement with ESPI and a high-speed camera</title>. , 1999, , .		1
142	Direct writing of digital images onto 3D surfaces. Industrial Robot, 2006, 33, 27-36.	2.1	1
143	Mid-Infrared Methane Sensing Using a Silica Photonic Bandgap Fiber. , 2007, , .		1
144	Analysis of a Y-junction optical waveguide interleaver. Optics Communications, 2008, 281, 4014-4018.	2.1	1

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145	UV direct-writing of metals on polyimide substrates. , 2008, , .		1
146	UV direct-writing of metals on polyimide. , 2008, , .		1
147	Hermetic joining of micro-devices using a glass frit intermediate layer and a scanning laser beam. , 2008, , .		1
148	Electrode ablation on piezoelectric ceramics by ns-pulsed laser ablation for sensor applications. , 2009, , .		1
149	Laser-based joining for the packaging of miniature optoelectronic devices. Proceedings of SPIE, 2010, , .	0.8	1
150	Fabrication of silica hollow core photonic crystal fibres for Er:YAG surgical applications. Proceedings of SPIE, 2012, , .	0.8	1
151	Delivery of high-power nanosecond and picosecond pulses through a hollow-core Negative Curvature Fibre for micro-machining applications. , 2013, , .		1
152	Embedding optical fibers into stainless steel using laser additive manufacturing. , 2013, , .		1
153	Laser texturing for high friction applications. , 2014, , .		1
154	Shaping the surface of Borofloat 33 glass with ultrashort laser pulses and a spatial light modulator. Applied Optics, 2014, 53, 1759.	1.8	1
155	Picosecond laser bonding of highly dissimilar materials. Proceedings of SPIE, 2016, , .	0.8	1
156	Stainless steel component with compressed fiber Bragg grating for high temperature sensing applications. Proceedings of SPIE, 2016, , .	0.8	1
157	Precision resection of intestine using ultrashort laser pulses. , 2016, , .		1
158	Optical fibre Fabry-Pérot sensor stability at high temperatures. Proceedings of SPIE, 2017, , .	0.8	1
159	Laser polishing to improve the surface quality of CoCr and Ti6AL4V additively manufactured parts. , 2017, , .		1
160	Direct Laser Bonding of YAG Crystal to Aluminium Silicon Metal Alloy. , 2021, , .		1
161	Zirconia ceramic dental restorations: Laser machining and optical testing. , 2009, , .		1
162	A hollow-core Negative Curvature Fibre for efficient delivery of NIR picosecond and femtosecond pulses for precision micro-machining. , 2013, , .		1

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163	Stress induced birefringence of glass-to-metal bonded components. , 2020, , .		1
164	Manufacturing of Microfluidic Devices with Interchangeable Commercial Fiber Optic Sensors. Sensors, 2021, 21, 7493.	3.8	1
165	Measurement of Stress Induced Birefringence of Direct Laser Bonded BK7 to Aluminium. , 2021, , .		1
166	Picosecond laser microwelding of AlSiâ€“YAG for laser system assembly. Applied Optics, 2022, 61, 3312.	1.8	1
167	Fibre optic delivery and process sensing for precision cutting and drilling applications, with high beam quality Nd:YAG light. , 1995, , .		0
168	Real-time, nonintrusive oxidation detection system for the welding of reactive aerospace materials. Applied Optics, 2001, 40, 6606.	2.1	0
169	Compact effector optics for processing in limited physical access situations. Applied Optics, 2003, 42, 5101.	2.1	0
170	Femtosecond laser machining of glass using single and few pulses. , 2004, , .		0
171	Real-time focus controller for laser welding with fibre optic noninvasive capture of light. , 2004, , .		0
172	Towards the creation of quasi-phasematched devices using femtosecond laser micromachining. , 2006, , .		0
173	Monitoring of xylem sap flow in trees by a non-intrusive, laser-based heat tracing technique and comparison with MRI flow imaging. , 2007, , .		0
174	Hermetic joining of micro-devices using a glass frit intermediate layer and a scanning laser beam. , 2008, , .		0
175	Advances in laser based joining processes of micro-devices using localised heating. , 2009, , .		0
176	Development of an optical, non-destructive technique for inspection of Zirconia ceramic parts. , 2009, , .		0
177	Performance of a deformable mirror in a high-energy Nd:YAG laser. Proceedings of SPIE, 2009, , .	0.8	0
178	Ultrafast optical parametric oscillators for spectroscopy. , 2009, , .		0
179	Application of adaptive optics to nanosecond pulsed laser micro-machining. , 2010, , .		0
180	Low temperature wafer-level packaging of mems using selective laser bonding. , 2010, , .		0

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181	The impact of graphite coating and wavelength on picosecond laser machining of optical glasses. , 2012, , .		0
182	Picosecond laser ablation of porcine sclera. , 2013, , .		0
183	Flexible delivery of Er:YAG radiation at 2.94 μ m with novel hollow-core silica glass fibres: demonstration of tissue ablation. , 2013, , .		0
184	Ultrafast laser ablation giving unstructured surface roughness prior to the emergence of LIPSS. , 2013, , .		0
185	Electrodeposited magnetostrictive Fe-Ga alloys for miniaturised actuators. , 2014, , .		0
186	High precision laser sclerostomy. , 2015, , .		0
187	Precision machining of pig intestine using ultrafast laser pulses. Proceedings of SPIE, 2015, , .	0.8	0
188	Surface separation investigation of ultrafast pulsed laser welding. Proceedings of SPIE, 2016, , .	0.8	0
189	Nanosecond pulsed laser generation of holographic structures on metals. Proceedings of SPIE, 2016, , .	0.8	0
190	High speed videography of microvia formation and melt ejection. , 2002, , .		0
191	Delivery of high energy light through pbg fiber for laser machining. , 2004, , .		0
192	Tailored Light for High Precision Manufacture. , 2012, , .		0
193	300 watt Nd:YAG laser delivery through single-mode optical fibres for micro-machining applications. , 1997, , .		0
194	Fused Silica Micro-structured Fibers for Delivery of Short Pulsed High Peak Power Laser Light. , 2015, , .		0
195	Picosecond laser microwelding of ultra-thin flexible glass. , 2020, , .		0