

# Duncan P. Hand

## List of Publications by Year in descending order

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195  
papers

4,076  
citations

94433

37  
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149698

56  
g-index

198  
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198  
docs citations

198  
times ranked

3124  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Materials</i> , 2022, 15, 448.	2.9	2
2	Picosecond laser microwelding of AlSiâ€“YAG for laser system assembly. <i>Applied Optics</i> , 2022, 61, 3312.	1.8	1
3	Direct Laser Bonding of YAG Crystal to Aluminium Silicon Metal Alloy. , 2021, , .		1
4	Manufacturing of Microfluidic Devices with Interchangeable Commercial Fiber Optic Sensors. <i>Sensors</i> , 2021, 21, 7493.	3.8	1
5	Measurement of Stress Induced Birefringence of Direct Laser Bonded BK7 to Aluminium. , 2021, , .		1
6	Review of Microfluidic Devices and Imaging Techniques for Fluid Flow Study in Porous Geomaterials. <i>Sensors</i> , 2020, 20, 4030.	3.8	33
7	Process Optimization for 100 W Nanosecond Pulsed Fiber Laser Engraving of 316L Grade Stainless Steel. <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 110.	2.2	8
8	Investigation of an interlaced laser beam scanning method for ultrashort pulse laser micromachining applications. <i>Journal of Materials Processing Technology</i> , 2020, 285, 116807.	6.3	7
9	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
10	Impact of nonlinear effects on transmission losses of hollow-core antiresonant negative curvature optical fiber. <i>Applied Optics</i> , 2020, 59, 4988.	1.8	10
11	Picosecond laser microwelding of ultra-thin flexible glass. , 2020, , .		0
12	Stress induced birefringence of glass-to-metal bonded components. , 2020, , .		1
13	Practical implementation of laser polishing on additively manufactured metallic components. <i>Journal of Laser Applications</i> , 2020, 32, 042019.	1.7	4
14	Preclinical evaluation of porcine colon resection using hollow core negative curvature fibre delivered ultrafast laser pulses. <i>Journal of Biophotonics</i> , 2019, 12, e201900055.	2.3	6
15	Negative-Curvature Anti-Resonant Fiber Coupling Tolerances. <i>Journal of Lightwave Technology</i> , 2019, 37, 5548-5554.	4.6	7
16	Interlaced Laser Beam Scanning: A Method Enabling an Increase in the Throughput of Ultrafast Laser Machining of Borosilicate Glass. <i>Journal of Manufacturing and Materials Processing</i> , 2019, 3, 14.	2.2	4
17	Maskless, rapid manufacturing of glass microfluidic devices using a picosecond pulsed laser. <i>Scientific Reports</i> , 2019, 9, 20215.	3.3	67
18	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

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19	Material interactions in laser polishing powder bed additive manufactured Ti6Al4V components. Additive Manufacturing, 2018, 20, 11-22.	3.0	51
20	Rapid Laser Manufacturing of Microfluidic Devices from Glass Substrates. Micromachines, 2018, 9, 409.	2.9	42
21	Optical fibre Fabry-Pérot sensor stability at high temperatures. Proceedings of SPIE, 2017, , .	0.8	1
22	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
23	Micro-Machined Optical Fiber Side-Cantilevers for Acceleration Measurement. IEEE Photonics Technology Letters, 2017, 29, 1836-1839.	2.5	23
24	Laser spot welding of laser textured steel to aluminium. Journal of Materials Processing Technology, 2017, 241, 24-35.	6.3	45
25	Laser polishing to improve the surface quality of CoCr and Ti6AL4V additively manufactured parts. , 2017, , .		1
26	Measurement of resonant bend loss in anti-resonant hollow core optical fiber. Optics Express, 2017, 25, 20612.	3.4	40
27	Towards industrial ultrafast laser microwelding: SiO <sub>2</sub> and BK7 to aluminum alloy. Applied Optics, 2017, 56, 4873.	2.1	37
28	Tamper-proof markings for the identification and traceability of high-value metal goods. Optics Express, 2017, 25, 15216.	3.4	12
29	Dispersion measurement of microstructured negative curvature hollow core fiber. Optical Engineering, 2016, 55, 116106.	1.0	5
30	Static mode microfluidic cantilevers for detection of waterborne pathogens. Sensors and Actuators A: Physical, 2016, 247, 144-149.	4.1	16
31	Characterisation of weld zone reactions in dissimilar glass-to-aluminium pulsed picosecond laser welds. Materials Characterization, 2016, 120, 53-62.	4.4	23
32	Enhancing Surface Finish of Additively Manufactured Titanium and Cobalt Chrome Elements Using Laser Based Finishing. Physics Procedia, 2016, 83, 258-263.	1.2	68
33	Direct CO <sub>2</sub> laser-based generation of holographic structures on the surface of glass. Optics Express, 2016, 24, 1447.	3.4	24
34	Picosecond laser bonding of highly dissimilar materials. Proceedings of SPIE, 2016, , .	0.8	1
35	Stainless steel component with compressed fiber Bragg grating for high temperature sensing applications. Proceedings of SPIE, 2016, , .	0.8	1
36	Precision resection of intestine using ultrashort laser pulses. , 2016, , .		1

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37	Picosecond laser welding of optical to metal components. , 2016, , .		2
38	Microsecond enamel ablation with 10.6 $\mu$ m CO <sub>2</sub> laser radiation. Proceedings of SPIE, 2016, , .	0.8	2
39	Surface separation investigation of ultrafast pulsed laser welding. Proceedings of SPIE, 2016, , .	0.8	0
40	Nanosecond pulsed laser generation of holographic structures on metals. Proceedings of SPIE, 2016, , .	0.8	0
41	Picosecond laser cutting and drilling of thin flex glass. Optics and Lasers in Engineering, 2016, 78, 64-74.	3.8	69
42	High precision laser sclerostomy. , 2015, , .		0
43	Silica hollow core microstructured fibers for beam delivery in industrial and medical applications. Frontiers in Physics, 2015, 3, .	2.1	20
44	Measuring residual stresses in metallic components manufactured with fibre Bragg gratings embedded by selective laser melting. , 2015, , .		5
45	A Micro-Machined Optical Fiber Cantilever as a Miniaturized pH Sensor. IEEE Sensors Journal, 2015, 15, 7221-7228.	4.7	17
46	Laser surface texturing for high friction contacts. Applied Surface Science, 2015, 357, 2313-2319.	6.1	40
47	Optimised co-electrodeposition of Fe-Ga alloys for maximum magnetostriction effect. Sensors and Actuators A: Physical, 2015, 223, 91-96.	4.1	11
48	In-Fiber Fabry-Perot Cavity Sensor for High-Temperature Applications. Journal of Lightwave Technology, 2015, 33, 2419-2425.	4.6	74
49	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
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	Precision machining of pig intestine using ultrafast laser pulses. Proceedings of SPIE, 2015, , .	0.8	0
52	In-situ strain sensing with fiber optic sensors embedded into stainless steel 316. Proceedings of SPIE, 2015, , .	0.8	2
53	Temperature and Strain Measurements With Fiber Bragg Gratings Embedded in Stainless Steel 316. Journal of Lightwave Technology, 2015, 33, 2474-2479.	4.6	58
54	Avoiding the requirement for pre-existing optical contact during picosecond laser glass-to-glass welding. Optics Express, 2015, 23, 18645.	3.4	52

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55	High energy green nanosecond and picosecond pulse delivery through a negative curvature fiber for precision micro-machining. Optics Express, 2015, 23, 8498.	3.4	55
56	SS316 structure fabricated by selective laser melting and integrated with strain isolated optical fiber high temperature sensor. , 2015, , .		5
57	Fused Silica Micro-structured Fibers for Delivery of Short Pulsed High Peak Power Laser Light. , 2015, , .		0
58	Laser texturing for high friction applications. , 2014, , .		1
59	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
60	Picosecond laser welding of similar and dissimilar materials. Applied Optics, 2014, 53, 4233.	1.8	63
61	Scalable stacked array piezoelectric deformable mirror for astronomy and laser processing applications. Review of Scientific Instruments, 2014, 85, 024502.	1.3	43
62	In-situ measurements with fibre Bragg gratings embedded in stainless steel. Proceedings of SPIE, 2014, , .	0.8	4
63	Shaping the surface of Borofloat 33 glass with ultrashort laser pulses and a spatial light modulator. Applied Optics, 2014, 53, 1759.	1.8	1
64	Efficient speckle-free laser marking using a spatial light modulator. Applied Physics A: Materials Science and Processing, 2014, 116, 111-118.	2.3	12
65	Fabricating optical fibre-top cantilevers for temperature sensing. Measurement Science and Technology, 2014, 25, 035206.	2.6	18
66	Nanosecond laser texturing for high friction applications. Optics and Lasers in Engineering, 2014, 62, 9-16.	3.8	68
67	A practical technique for the generation of highly uniform LIPSS. Applied Surface Science, 2014, 313, 123-131.	6.1	46
68	Electrodeposited magnetostrictive Fe-Ga alloys for miniaturised actuators. , 2014, , .		0
69	Laser machining of sensing components on the end of optical fibres. Journal of Micromechanics and Microengineering, 2013, 23, 045021.	2.6	11
70	Fabrication of a side aligned optical fibre interferometer by focused ion beam machining. Journal of Micromechanics and Microengineering, 2013, 23, 105005.	2.6	3
71	Silica hollow core microstructured fibres for mid-infrared surgical applications. Journal of Non-Crystalline Solids, 2013, 377, 236-239.	3.1	20
72	Picosecond laser ablation of porcine sclera. , 2013, , .		0

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73	Flexible delivery of Er:YAG radiation at 2.94 $\mu\text{m}$ with novel hollow-core silica glass fibres: demonstration of tissue ablation. , 2013, , .		0
74	Flexible delivery of Er:YAG radiation at 294 $\mu\text{m}$ with negative curvature silica glass fibers: a new solution for minimally invasive surgical procedures. Biomedical Optics Express, 2013, 4, 193.	2.9	77
75	Picosecond and nanosecond pulse delivery through a hollow-core Negative Curvature Fiber for micro-machining applications. Optics Express, 2013, 21, 22742.	3.4	96
76	Delivery of high-power nanosecond and picosecond pulses through a hollow-core Negative Curvature Fibre for micro-machining applications. , 2013, , .		1
77	Ultrafast laser ablation giving unstructured surface roughness prior to the emergence of LIPSS. , 2013, , .		0
78	Embedding metallic jacketed fused silica fibres into stainless steel using additive layer manufacturing technology. Proceedings of SPIE, 2013, , .	0.8	6
79	Embedding optical fibers into stainless steel using laser additive manufacturing. , 2013, , .		1
80	A hollow-core Negative Curvature Fibre for efficient delivery of NIR picosecond and femtosecond pulses for precision micro-machining. , 2013, , .		1
81	Delivery of high energy Er:YAG pulsed laser light at 294 $\mu\text{m}$ through a silica hollow core photonic crystal fibre. Optics Express, 2012, 20, 6677.	3.4	44
82	Micro-machined optical fibre cantilever as sensor elements. Proceedings of SPIE, 2012, , .	0.8	2
83	Fabrication of silica hollow core photonic crystal fibres for Er:YAG surgical applications. Proceedings of SPIE, 2012, , .	0.8	1
84	On the Use of Silver Nanoparticles for Direct Micropatterning on Polyimide Substrates. IEEE Nanotechnology Magazine, 2012, 11, 139-147.	2.0	6
85	The impact of graphite coating and wavelength on picosecond laser machining of optical glasses. , 2012, , .		0
86	Tailored Light for High Precision Manufacture. , 2012, , .		0
87	Hermetic glass frit packaging in air and vacuum with localized laser joining. Journal of Micromechanics and Microengineering, 2011, 21, 045039.	2.6	15
88	Application of a liquid crystal spatial light modulator to laser marking. Applied Optics, 2011, 50, 1779.	2.1	21
89	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
90	Adaptive extracavity beam shaping for application in nanosecond laser micromachining. Proceedings of SPIE, 2011, , .	0.8	4

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91	Development of Optical Techniques for Noncontact Inspection of Y-TZP Parts. International Journal of Applied Ceramic Technology, 2011, 8, 140-151.	2.1	2
92	Laser Micromachining of Zirconia (Y-TZP) Ceramics in the Picosecond Regime and the Impact on Material Strength. International Journal of Applied Ceramic Technology, 2011, 8, 163-171.	2.1	48
93	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
94	Wafer-level packaging of silicon to glass with a BCB intermediate layer using localised laser heating. Microelectronics Reliability, 2011, 51, 2257-2262.	1.7	11
95	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
96	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
97	Towards implementation of hollow core fibres for surgical applications. Proceedings of SPIE, 2011, , .	0.8	3
98	Laser-based joining for the packaging of miniature optoelectronic devices. Proceedings of SPIE, 2010, , .	0.8	1
99	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
100	A study of stitch line formation during high speed laser patterning of thin film indium tin oxide transparent electrodes. Applied Surface Science, 2010, 256, 7276-7284.	6.1	11
101	Application of adaptive optics to nanosecond pulsed laser micro-machining. , 2010, , .		0
102	Low temperature wafer-level packaging of mems using selective laser bonding. , 2010, , .		0
103	Application of cooled spatial light modulator for high power nanosecond laser micromachining. Optics Express, 2010, 18, 17059.	3.4	93
104	Advances in laser based joining processes of micro-devices using localised heating. , 2009, , .		0
105	Electrode ablation on piezoelectric ceramics by ns-pulsed laser ablation for sensor applications. , 2009, , .		1
106	Development of an optical, non-destructive technique for inspection of Zirconia ceramic parts. , 2009, , .		0
107	A directâ€writing approach to the microâ€patterning of copper onto polyimide. Circuit World, 2009, 35, 3-17.	0.9	16
108	Performance of a deformable mirror in a high-energy Nd:YAG laser. Proceedings of SPIE, 2009, , .	0.8	0

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109	Towards practical gas sensing with micro-structured fibres. Measurement Science and Technology, 2009, 20, 075301.	2.6	51
110	Localised laser joining of glass to silicon with BCB intermediate layer. Microsystem Technologies, 2009, 15, 1051-1057.	2.0	16
111	Ultra-wideband bandpass filter with multiple notch-bands on multilayer liquid crystal polymer substrate. IET Microwaves, Antennas and Propagation, 2009, 3, 749.	1.4	24
112	Ultra-Wideband Bandpass Filter With Multiple Notch Bands Using Nonuniform Periodical Slotted Ground Structure. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3080-3088.	4.6	79
113	Ultrafast optical parametric oscillators for spectroscopy. , 2009, , .		0
114	Zirconia ceramic dental restorations: Laser machining and optical testing. , 2009, , .		1
115	Analysis of a Y-junction optical waveguide interleaver. Optics Communications, 2008, 281, 4014-4018.	2.1	1
116	Pulsed Laser Micromachining of Yttria-Stabilized Zirconia Dental Ceramic for Manufacturing. International Journal of Applied Ceramic Technology, 2008, 5, 188-197.	2.1	27
117	Nanosecond Laser Postprocessing of Millisecond Laser-Machined Zirconia (Y-TZP) Surfaces. International Journal of Applied Ceramic Technology, 2008, 5, 249-257.	2.1	32
118	Optimized Nanosecond Pulsed Laser Micromachining of Y-TZP Ceramics. Journal of the American Ceramic Society, 2008, 91, 391-397.	3.8	44
119	Ultra-violet direct patterning of metal on polyimide. Micro and Nano Letters, 2008, 3, 82.	1.3	22
120	Miniature coupled resonator UWB filter using a multilayer structure on liquid crystal polymer. , 2008, , .		2
121	Mid-infrared gas sensing using a photonic bandgap fiber. Applied Optics, 2008, 47, 1269.	2.1	78
122	The application of the mid-infrared spectral region in medical surgery: chalcogenide glass optical fibre for 10.6 $\mu$ m laser transmission. Proceedings of SPIE, 2008, , .	0.8	5
123	Hermetic joining of micro-devices using a glass frit intermediate layer and a scanning laser beam. , 2008, , .		0
124	UV direct-writing of metals on polyimide substrates. , 2008, , .		1
125	UV direct-writing of metals on polyimide. , 2008, , .		1
126	Hermetic joining of micro-devices using a glass frit intermediate layer and a scanning laser beam. , 2008, , .		1



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127	Monitoring of xylem sap flow in trees by a non-intrusive, laser-based heat tracing technique and comparison with MRI flow imaging. , 2007, , .		0
128	Mid-Infrared Methane Sensing Using a Silica Photonic Bandgap Fiber. , 2007, , .		1
129	A noninvasive optical system for the measurement of xylem and phloem sap flow in woody plants of small stem size. <i>Tree Physiology</i> , 2007, 27, 169-179.	3.1	31
130	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
131	Frequency-doubling in femtosecond laser inscribed periodically-poled potassium titanyl phosphate waveguides. <i>Optics Express</i> , 2007, 15, 17146.	3.4	33
132	Optical fiber array for the delivery of high peak-power laser pulses for fluid flow measurements. <i>Applied Optics</i> , 2007, 46, 3432.	2.1	9
133	Laser Bonding of Glass to Silicon Using Polymer for Microsystems Packaging. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 571-580.	2.5	32
134	Three-dimensional polymer optical waveguide interleaver with selectable channel spacing. <i>Optics Communications</i> , 2007, 273, 394-397.	2.1	6
135	Compact tunable three-dimensional polymer optical waveguide comb filter. <i>Optics Communications</i> , 2007, 277, 89-92.	2.1	5
136	Speckle contrast reduction in a large-core fiber delivering Q-switched pulses for fluid flow measurements. <i>Applied Optics</i> , 2006, 45, 4209.	2.1	5
137	Measuring beam quality of hollow core photonic crystal fibers. <i>Journal of Lightwave Technology</i> , 2006, 24, 3761-3769.	4.6	10
138	Direct writing of digital images onto 3D surfaces. <i>Industrial Robot</i> , 2006, 33, 27-36.	2.1	1
139	Towards the creation of quasi-phasematched devices using femtosecond laser micromachining. , 2006, , .		0
140	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
141	Hollow-core waveguides for particle image velocimetry. <i>Measurement Science and Technology</i> , 2005, 16, 1119-1125.	2.6	7
142	Closed-loop power and focus control of laser welding for full-penetration monitoring. <i>Applied Optics</i> , 2005, 44, 13.	2.1	29
143	Optical techniques for real-time penetration monitoring for laser welding. <i>Applied Optics</i> , 2005, 44, 3869.	2.1	46
144	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

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145	Process control of laser conduction welding by thermal imaging measurement with a color camera. Applied Optics, 2005, 44, 6841.	2.1	27
146	Single-mode mid-IR guidance in a hollow-core photonic crystal fiber. Optics Express, 2005, 13, 7139.	3.4	104
147	Modelling and calibration of bending strains for iterative laser forming. Journal Physics D: Applied Physics, 2005, 38, 4027-4036.	2.8	25
148	Femtosecond laser machining of glass using single and few pulses. , 2004, , .		0
149	Real-time temperature measurement for process monitoring of laser conduction welding. , 2004, , .		2
150	Process control of laser keyhole welding. , 2004, , .		10
151	High energy nanosecond laser pulses delivered single-mode through hollow-core PBG fibers. Optics Express, 2004, 12, 717.	3.4	145
152	Compact optical system for pulse-to-pulse laser beam quality measurement and applications in laser machining. Applied Optics, 2004, 43, 5037.	2.1	17
153	Real-time focus controller for laser welding with fibre optic noninvasive capture of light. , 2004, , .		0
154	Single-pulse microvia drilling of resin-coated copper substrates using an enhanced peak power planar waveguide CO <sub>2</sub> laser. , 2004, 5339, 276.		2
155	Delivery of high energy light through pbg fiber for laser machining. , 2004, , .		0
156	Melt ejection during laser drilling of metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 356, 414-424.	5.6	81
157	Fiber-optic delivery of high-peak-power Q-switched laser pulses for in-cylinder flow measurement. Applied Optics, 2003, 42, 4307.	2.1	19
158	Compact effector optics for processing in limited physical access situations. Applied Optics, 2003, 42, 5101.	2.1	0
159	Dynamic shape measurement system for laser materials processing. Optical Engineering, 2003, 42, 2923.	1.0	14
160	Appropriate regimes of laser drilling models containing melt eject mechanisms. Journal of Laser Applications, 2002, 14, 159-164.	1.7	12
161	Applications of optical sensing for laser cutting and drilling. Applied Optics, 2002, 41, 4988.	2.1	22
162	A comprehensive study of the long pulse Nd:YAG laser drilling of multi-layer carbon fibre composites. Optics Communications, 2002, 210, 319-328.	2.1	53

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163	High speed videography of microvia formation and melt ejection. , 2002, , .		0
164	Real-time, nonintrusive oxidation detection system for the welding of reactive aerospace materials. Applied Optics, 2001, 40, 6606.	2.1	0
165	Effect of beam quality on single pulse laser drilling. , 2001, , .		4
166	Time dependent ablation and liquid ejection processes during the laser drilling of metals. Optics Communications, 2001, 191, 97-112.	2.1	39
167	Optical fibre beam delivery of high-energy laser pulses: beam quality preservation and fibre end-preparation. Optics and Lasers in Engineering, 2000, 34, 273-288.	3.8	13
168	Optical focus control system for laser welding and direct casting. Optics and Lasers in Engineering, 2000, 34, 415-427.	3.8	34
169	Preparation of fiber optics for the delivery of high-energy high-beam-quality Nd:YAG laser pulses. Applied Optics, 2000, 39, 6136.	2.1	23
170	Fibre optic beam delivery system for high peak power laser PIV illumination. Measurement Science and Technology, 1999, 10, 239-245.	2.6	37
171	The application of high-speed TV-holography to time-resolved vibration measurements. Optics and Lasers in Engineering, 1999, 32, 387-394.	3.8	7
172	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
173	Transient deformation measurement with electronic speckle pattern interferometry and a high-speed camera. Applied Optics, 1999, 38, 1159.	2.1	71
174	Online focus control sensor for laser welding offers improved reliability without process intrusion. Sensor Review, 1999, 19, 265-267.	1.8	2
175	<title>Time-resolved deformation measurement with ESPI and a high-speed camera</title>. , 1999, , .		1
176	Optical sensor to monitor and control temperature and build height of the laser direct-casting process. Applied Optics, 1998, 37, 8429.	2.1	12
177	<title>Transient deformation measurement with a fibre optic speckle pattern interferometer and a high-speed camera</title>. , 1998, , .		1
178	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
179	Full penetration detection in Nd:YAG laser welding by analysis of oscillatory optical signals: application to overlap weld-seam tracking. , 1997, 3092, 534.		2
180	Optical signal oscillations in laser keyhole welding and potential application to lap welding. Measurement Science and Technology, 1997, 8, 627-633.	2.6	20

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181	Focus control system for laser welding. <i>Applied Optics</i> , 1997, 36, 5246.	2.1	32
182	Surface finish parameters as diagnostics of tool wear in face milling. <i>Wear</i> , 1997, 205, 47-54.	3.1	24
183	Surface features as indicators of tool chipping in single point face milling of aluminium. <i>Wear</i> , 1997, 212, 221-228.	3.1	3
184	300 watt Nd:YAG laser delivery through single-mode optical fibres for micro-machining applications. , 1997, , .		0
185	Fiber optic high-quality Nd:YAG beam delivery for materials processing. <i>Optical Engineering</i> , 1996, 35, 502.	1.0	12
186	Real-time focus control in laser welding. <i>Measurement Science and Technology</i> , 1996, 7, 1095-1098.	2.6	24
187	Measurement of aspects of surface form using an optical differential height measurement technique. <i>Measurement Science and Technology</i> , 1996, 7, 1579-1582.	2.6	3
188	Fibre optic delivery and process sensing for precision cutting and drilling applications, with high beam quality Nd:YAG light. , 1995, , .		0
189	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
190	Optical fiber interferometry for photoacoustic spectroscopy in liquids. <i>Optics Letters</i> , 1995, 20, 213.	3.3	8
191	Detection of photoacoustic waves in liquids by fibre optic interferometry. <i>Optics Communications</i> , 1993, 104, 1-6.	2.1	4
192	Extrinsic Michelson interferometric fibre optic sensor with bend insensitive download. <i>Optics Communications</i> , 1993, 97, 295-300.	2.1	14
193	Profile measurement of optically rough surfaces by fiber-optic interferometry. <i>Optics Letters</i> , 1993, 18, 1361.	3.3	35
194	Photoinduced refractive-index changes in germanosilicate fibers. <i>Optics Letters</i> , 1990, 15, 102.	3.3	252
195	Solitary thermal shock waves and optical damage in optical fibers: the fiber fuse. <i>Optics Letters</i> , 1988, 13, 767.	3.3	169