

Ralph P Tatam

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.

254
papers

5,658
citations

34
h-index

68
g-index

336
ext. papers

6,803
ext. citations

2.8
avg, IF

6.02
L-index

#	Paper	IF	Citations
254	In-process range-resolved interferometric (RRI) 3D layer height measurements for wire + arc additive manufacturing (WAAM). <i>Measurement Science and Technology</i> , 2022 , 33, 044002	2	1
253	Multiple intensity reference interferometry for the correction of sub-fringe displacement non-linearities. <i>Measurement Science and Technology</i> , 2022 , 33, 025201	2	0
252	High sensitivity pressure measurement using optical fibre sensors mounted on a composite diaphragm. <i>Optics Express</i> , 2021 , 29, 4105-4123	3.3	5
251	Fibre-coupled, multiplexed methane detection using range-resolved interferometry. <i>JPhys Photonics</i> , 2021 , 3, 02LT01	2.5	
250	Three-dimensional interferometric stage encoder using a single access port. <i>Optics and Lasers in Engineering</i> , 2021 , 137, 106342	4.6	1
249	Correction of periodic displacement non-linearities by two-wavelength interferometry. <i>Measurement Science and Technology</i> , 2021 , 32, 125202	2	0
248	Application of fibre optic sensing systems to measure rotor blade structural dynamics. <i>Mechanical Systems and Signal Processing</i> , 2021 , 158, 107758	7.8	1
247	Production process monitoring and post-production strain measurement on a full-size carbon-fibre composite aircraft tail cone assembly using embedded optical fibre sensors. <i>Measurement Science and Technology</i> , 2020 , 31, 105204	2	4
246	Instrumentation for quantitative analysis of volatile compounds emission at elevated temperatures. Part 2: Analysis of carbon fibre reinforced epoxy composite. <i>Scientific Reports</i> , 2020 , 10, 8702	4.9	1
245	Instrumentation for quantitative analysis of volatile compounds emission at elevated temperatures. Part 1: Design and implementation. <i>Scientific Reports</i> , 2020 , 10, 8700	4.9	0
244	Polarization-sensitive transfer matrix modeling for displacement measuring interferometry. <i>Applied Optics</i> , 2020 , 59, 7694-7704	1.7	3
243	Ratiometric pathlength calibration of integrating sphere-based absorption cells. <i>Optics Express</i> , 2020 , 28, 19574-19592	3.3	1
242	Workpiece positioning sensor (wPOS): A three-degree-of-freedom relative end-effector positioning sensor for robotic manufacturing. <i>Procedia CIRP</i> , 2019 , 79, 620-625	1.8	5
241	Performance and Analysis of Feature Tracking Approaches in Laser Speckle Instrumentation. <i>Sensors</i> , 2019 , 19,	3.8	3
240	Tapered Optical Fibre Sensors: Current Trends and Future Perspectives. <i>Sensors</i> , 2019 , 19,	3.8	55
239	Metre-per-second microfluidic flow velocimetry with dual beam optical coherence tomography. <i>Optics Express</i> , 2019 , 27, 23849-23863	3.3	1
238	Spectroscopic gas detection using a Bragg grating - stabilized external cavity laser, custom written in planar integrated silica-on-silicon. <i>Optics Express</i> , 2019 , 27, 29034-29044	3.3	1

237	Transmission line method for the simulation of fiber Bragg gratings. <i>Applied Optics</i> , 2019 , 58, 353-360	1.7	2
236	Wavelength-locking of a semiconductor laser using an electronic technique 2019 ,		2
235	Influence of aberrations on confocal-based remote refractive index measurements. <i>Applied Optics</i> , 2019 , 58, 6474-6485	1.7	
234	Ground vibration testing of a helicopter rotor blade using optical fibre sensors 2019 ,		1
233	Optical Fiber Bragg Grating Based Pressure Sensor Using a Composite Diaphragm For Pressure Measurements 2019 ,		2
232	Non-Dispersive Ultra-Violet Spectroscopic Detection of Formaldehyde Gas for Indoor Environments. <i>IEEE Sensors Journal</i> , 2018 , 18, 2218-2228	4	4
231	A non-contact laser speckle sensor for the measurement of robotic tool speed. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018 , 53, 187-196	9.2	11
230	Dynamic Fiber-Optic Shape Sensing Using Fiber Segment Interferometry. <i>Journal of Lightwave Technology</i> , 2018 , 36, 917-925	4	15
229	Spectrometer-based refractive index and dispersion measurement using low-coherence interferometry with confocal scanning. <i>Optics Express</i> , 2018 , 26, 3604-3617	3.3	4
228	In-situ pathlength calibration of integrating spheres used in measurement of absorbance 2018 ,		1
227	Optimized Process for Fabricating Ultrashort Tapered Long-Period Gratings. <i>Journal of Lightwave Technology</i> , 2018 , 36, 1091-1096	4	1
226	Editorial for the special feature on Advanced In-flight Measurement Techniques AIM2. <i>Measurement Science and Technology</i> , 2017 , 28, 040101	2	3
225	Fabrication and optimisation of a fused filament 3D-printed microfluidic platform. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 035018	2	38
224	Monitoring the fabrication of tapered optical fibres 2017 ,		1
223	Soil moisture content measurement using optical fiber long period gratings 2017 ,		1
222	An ammonia sensor based on Lossy Mode Resonances on a tapered optical fibre coated with porphyrin-incorporated titanium dioxide. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 645-652	8.5	51
221	Speckle tracking approaches in speckle sensing 2017 ,		3
220	Multi-parameter measurements using optical fibre long period gratings for indoor air quality monitoring. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 217-225	8.5	54

219	Multi-parameter measurements using optical fibre long period gratings for indoor air quality monitoring 2017 ,		1
218	Resin Directional Flow and Degree of Cure Sensing Using Chirped Optical Fiber Long Period Gratings. <i>IEEE Sensors Journal</i> , 2017 , 17, 6605-6614	4	4
217	All-electronic frequency stabilization of a DFB laser diode. <i>Optics Express</i> , 2017 , 25, 11679-11691	3.3	5
216	Passively-coupled, low-coherence interferometric duct profiling with an astigmatism-corrected conical mirror. <i>Optics Express</i> , 2017 , 25, 8896-8915	3.3	1
215	Volatile Organic Compounds Sensing Using Optical Fibre Long Period Grating with Mesoporous Nano-Scale Coating. <i>Sensors</i> , 2017 , 17,	3.8	16
214	Sensitivity Enhancement in Low Cutoff Wavelength Long-Period Fiber Gratings by Cladding Diameter Reduction. <i>Sensors</i> , 2017 , 17,	3.8	14
213	Integrating cavity based gas cells: a multibeam compensation scheme for pathlength variation. <i>Optics Express</i> , 2016 , 24, 13647-64	3.3	5
212	Low-volume, fast response-time hollow silica waveguide gas cells for mid-IR spectroscopy. <i>Applied Optics</i> , 2016 , 55, 6797-806	0.2	15
211	Full-field interferometry using infinity corrected optics. <i>Measurement Science and Technology</i> , 2016 , 27, 015402	2	
210	A long period grating optical fiber sensor with nano-assembled porphyrin layers for detecting ammonia gas. <i>Sensors and Actuators B: Chemical</i> , 2016 , 228, 573-580	8.5	42
209	Dissolved Oxygen Sensing Using an Optical Fiber Long Period Grating Coated With Hemoglobin. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4506-4510	4	12
208	Fiber Segment Interferometry for Dynamic Strain Measurements. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4620-4626	4	9
207	Highly sensitive optical fibre long period grating biosensor anchored with silica core gold shell nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 222-31	11.8	41
206	Novel Highly Sensitive Protein Sensors Based on Tapered Optical Fibres Modified with Au-Based Nanocoatings. <i>Journal of Sensors</i> , 2016 , 2016, 1-11	2	9
205	Overwrite fabrication and tuning of long period gratings. <i>Optics Express</i> , 2016 , 24, 22345-22356	3.3	10
204	A measurement strategy for non-dispersive ultra-violet detection of formaldehyde in indoor air: spectral analysis and interferent gases. <i>Measurement Science and Technology</i> , 2016 , 27, 015802	2	1
203	Sensitive detection of methane at 3.3 μm using an integrating sphere and interband cascade laser 2016 ,		1
202	Railway track component condition monitoring using optical fibre Bragg grating sensors. <i>Measurement Science and Technology</i> , 2016 , 27, 055201	2	23

201	Development and application of optical fibre strain and pressure sensors for in-flight measurements. <i>Measurement Science and Technology</i> , 2016 , 27, 104001	2	22
200	Optical fibre long period grating gas sensor modified with metal organic framework thin films. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 891-899	8.5	51
199	A mechanically stable laser diode speckle interferometer for surface contouring and displacement measurement. <i>Measurement Science and Technology</i> , 2015 , 26, 055402	2	7
198	Quantum cascade laser light propagation through hollow silica waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 119, 75-86	1.9	2
197	Monitoring techniques for the manufacture of tapered optical fibers. <i>Applied Optics</i> , 2015 , 54, 8531-6	0.2	10
196	Range-resolved interferometric signal processing using sinusoidal optical frequency modulation. <i>Optics Express</i> , 2015 , 23, 9415-31	3.3	17
195	A method for continuous in-situ pathlength calibration of integrating sphere based gas cells 2015 ,		1
194	Noise analysis for CCD-based ultraviolet and visible spectrophotometry. <i>Applied Optics</i> , 2015 , 54, 8135-44.2		18
193	Detection of the volatile organic compounds emitted from paints using optical fibre long period grating modified with the mesoporous nano-scale coating 2015 ,		2
192	Photodecomposition of a target compound detected using an optical fibre long period grating coated with a molecularly imprinted titania thin film 2015 ,		1
191	Simultaneous laser vibrometry on multiple surfaces with a single beam system using range-resolved interferometry 2015 ,		3
190	An Optical Fiber Hydrogen Sensor Using a Palladium-Coated Ball Lens. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2535-2542	4	7
189	Selective vancomycin detection using optical fibre long period gratings functionalised with molecularly imprinted polymer nanoparticles. <i>Analyst, The</i> , 2014 , 139, 2229-36	5	46
188	Identification and quality assessment of beverages using a long period grating fibre-optic sensor modified with a mesoporous thin film. <i>Sensing and Bio-Sensing Research</i> , 2014 , 1, 26-33	3.3	5
187	Long period grating based toluene sensor for use with water contamination. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 621-625	8.5	32
186	Fabrication of fiber optic long period gratings operating at the phase matching turning point using an ultraviolet laser. <i>Applied Optics</i> , 2014 , 53, 4669-74	1.7	34
185	Modifying monolayer behaviour by incorporating subphase additives and improving Langmuir-Blodgett thin film deposition on optical fibres. <i>Materials Chemistry and Physics</i> , 2014 , 144, 179-185	4.4	4
184	The effect of surface pressure modification on the speed of vortex rings. <i>Fluid Dynamics Research</i> , 2014 , 46, 055503	1.2	

183	On-line monitoring of multi-component strain development in a tufting needle using optical fibre Bragg grating sensors. <i>Smart Materials and Structures</i> , 2014 , 23, 075001	3-4	6
182	Wavelength stabilisation of a DFB laser diode using measurement of junction voltage 2014 ,		2
181	Evaluation of the optical switching characteristics of erbium-doped fibres for the development of a fibre Bragg grating sensor interrogator 2014 ,		1
180	A long period grating-based chemical sensor insensitive to the influence of interfering parameters. <i>Optics Express</i> , 2014 , 22, 8012-23	3-3	34
179	Objective speckle displacement: an extended theory for the small deformation of shaped objects. <i>Optics Express</i> , 2014 , 22, 25466-80	3-3	5
178	Frequency division multiplexing for interferometric planar Doppler velocimetry. <i>Applied Optics</i> , 2014 , 53, 4363-74	1-7	3
177	Sensitive protein detection using an optical fibre long period grating sensor anchored with silica core gold shell nanoparticles 2014 ,		3
176	Transverse strain response of in-fibre Fabry-Perot microcavities 2014 ,		1
175	Palladium coated ball lens for optical fibre refractometry based hydrogen sensing 2014 ,		1
174	Bragg-grating-stabilized external cavity lasers for gas sensing using tunable diode laser spectroscopy 2014 ,		4
173	Wind tunnel unsteady pressure measurements using a differential optical fiber Fabry-Perot pressure sensor 2014 ,		2
172	A low-cost, high-magnification imaging system for particle sizing applications. <i>Measurement Science and Technology</i> , 2014 , 25, 027002	2	
171	Detection of volatile organic compounds (VOCs) using an optical fibre long period grating with a calixarene anchored mesoporous thin film 2013 ,		5
170	Fibre segment interferometry using code-division multiplexed optical signal processing for strain sensing applications. <i>Measurement Science and Technology</i> , 2013 , 24, 094011	2	9
169	Application of optical coherence tomography to non-destructively characterise rind breakdown disorder of Nules Clementine mandarins. <i>Postharvest Biology and Technology</i> , 2013 , 84, 16-21	6.2	29
168	Optical gas sensing: a review. <i>Measurement Science and Technology</i> , 2013 , 24, 012004	2	826
167	Optical Fibre Long-Period Gratings Functionalised with Nano-Assembled Thin Films: Approaches to Chemical Sensing 2013 ,		2
166	Fibre-Optic Chemical Sensor Approaches Based on Nanoassembled Thin Films: A Challenge to Future Sensor Technology 2013 ,		5

165	Optical fiber long period grating sensor with a polyelectrolyte alternate thin film for gas sensing of amine odors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 117-124	8.5	35
164	Using integrating spheres with wavelength modulation spectroscopy: effect of pathlength distribution on 2nd harmonic signals. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 110, 223-231	1.9	7
163	Non-dispersive infra-red (NDIR) measurement of carbon dioxide at 4.2 μm in a compact and optically efficient sensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 580-588	8.5	116
162	Multiplexed fibre optic sensors for monitoring resin infusion, flow, and cure in composite material processing 2013 ,		4
161	Frequency-division multiplexing for multicomponent shearography. <i>Applied Optics</i> , 2013 , 52, 350-8	1.7	1
160	Passive OCT probe head for 3D duct inspection. <i>Measurement Science and Technology</i> , 2013 , 24, 094001	2	3
159	Optical fibre long period grating with a nanoporous coating formed from silica nanoparticles for ammonia sensing in water. <i>Materials Chemistry and Physics</i> , 2012 , 133, 784-792	4.4	64
158	Properties of Length-Apodized Phase-Shifted LPGs Operating at the Phase Matching Turning Point. <i>Journal of Lightwave Technology</i> , 2012 , 30, 2203-2209	4	6
157	Pronounced aromatic carboxylic acid detection using a layer-by-layer mesoporous coating on optical fibre long period grating. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 300-309	8.5	26
156	Monolayer behavior of calix-4-resorcinarenes and their surfactant complexes. <i>Thin Solid Films</i> , 2012 , 520, 6989-6993	2.2	1
155	Optical Gas Sensor Fabrication Based on Porphyrin-Anchored Electrostatic Self-Assembly onto Tapered Optical Fibers. <i>Analytical Letters</i> , 2012 , 45, 1297-1309	2.2	16
154	Optical fibre laser velocimetry: a review. <i>Measurement Science and Technology</i> , 2012 , 23, 032001	2	28
153	A low cost, optically efficient carbon dioxide sensor based on nondispersive infra-red (NDIR) measurement at 4.2 μm 2012 ,		13
152	Noise analysis of a CCD based ultra-violet spectrometry system 2012 ,		1
151	Objective speckle velocimetry for autonomous vehicle odometry. <i>Applied Optics</i> , 2012 , 51, 3478-90	1.7	10
150	Automated manufacture of 3D reinforced aerospace composite structures. <i>International Journal of Structural Integrity</i> , 2012 , 3, 22-40	1	23
149	Multiplexing a serial array of tapered optical fibre sensors using coherent optical frequency domain reflectometry. <i>Measurement Science and Technology</i> , 2012 , 23, 105203	2	4
148	Toward track component condition monitoring using optical fibre Bragg grating sensors 2012 ,		3

147	Refractive index sensitivity of fibre-optic long period gratings coated with SiO ₂ nanoparticle mesoporous thin films. <i>Measurement Science and Technology</i> , 2011 , 22, 075208	2	38
146	A VCSEL based system for on-site monitoring of low level methane emission 2011 ,		5
145	Quantitative shearography: error reduction by using more than three measurement channels. <i>Applied Optics</i> , 2011 , 50, 134-46	0.2	7
144	Characterization of optical fiber imaging bundles for swept-source optical coherence tomography. <i>Applied Optics</i> , 2011 , 50, 627-40	0.2	25
143	Numerical modelling of imaging fibre bundles and their application in optical coherence tomography 2011 ,		2
142	Applied optics to engineering photonics: a retrospective. <i>Photonic Sensors</i> , 2011 , 1, 295-322	2.3	1
141	Multi-component strain development in superconducting magnet coils monitored using fibre Bragg grating sensors fabricated in highly linearly birefringent fibre. <i>Smart Materials and Structures</i> , 2011 , 20, 125004	3.4	10
140	Speckle velocimetry for high accuracy odometry for a Mars exploration rover. <i>Measurement Science and Technology</i> , 2010 , 21, 025301	2	8
139	Enhanced sensitivity fibre Bragg grating (FBG) load sensor. <i>Measurement Science and Technology</i> , 2010 , 21, 094006	2	9
138	Shearography technology and applications: a review. <i>Measurement Science and Technology</i> , 2010 , 21, 102001	2	142
137	Optical fiber sensing based on reflection laser spectroscopy. <i>Sensors</i> , 2010 , 10, 1823-45	3.8	28
136	A simple and wavelength-flexible procedure for fabricating phase-shifted fibre Bragg gratings. <i>Measurement Science and Technology</i> , 2010 , 21, 094001	2	9
135	Fiber optic long period grating sensors with a nanoassembled mesoporous film of SiO ₂ nanoparticles. <i>Optics Express</i> , 2010 , 18, 13227-38	3.3	47
134	A fibre Bragg grating-based inclinometer system for ground movement measurement 2010 ,		5
133	Ammonia sensing using a fibre optic long period grating with a porous nanostructured coating formed from silica nanospheres 2010 ,		4
132	Gas cells for tunable diode laser absorption spectroscopy employing optical diffusers. Part 1: single and dual pass cells. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 291-302	1.9	29
131	Gas cells for tunable diode laser absorption spectroscopy employing optical diffusers. Part 2: Integrating spheres. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 303-312	1.9	22
130	Response of the transmission spectrum of tapered optical fibres to the deposition of a nanostructured coating. <i>Measurement Science and Technology</i> , 2009 , 20, 034001	2	13

129	Three-component planar velocity measurements using Mach-Zehnder interferometric filter-based planar Doppler velocimetry (MZI-PDV). <i>Measurement Science and Technology</i> , 2009 , 20, 034019	2	10
128	Monitoring cure in epoxies containing carbon nanotubes with an optical-fiber Fresnel refractometer. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 730-735	2.9	16
127	Self-mixing interference effects in tunable diode laser absorption spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 96, 863-874	1.9	18
126	Using integrating spheres as absorption cells: path-length distribution and application of Beer's law. <i>Applied Optics</i> , 2009 , 48, 5748-58	0.2	48
125	Pressure measurements on aircraft wing using phase-shifted fibre Bragg grating sensors 2009 ,		10
124	Coherent fibre bundles in full-field swept-source OCT 2009 ,		3
123	Multicomponent strain development in superconducting magnet coils using optical fibre grating sensors fabricated in highly linearly birefringent fibre 2009 ,		1
122	Field monitoring of static, dynamic, and static pile loading tests using fibre Bragg grating strain sensors 2009 ,		1
121	Swept-source OCT with coherent imaging fibre bundles 2009 ,		1
120	Fibre Bragg grating based effective soil pressure sensor for geotechnical applications 2009 ,		15
119	A simple method for fabricating phase-shifted fibre Bragg gratings with flexible choice of centre wavelength 2009 ,		4
118	Response of fiber-optic long-period gratings operating near the phase-matching turning point to the deposition of nanostructured coatings. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 897	1.7	56
117	Deposition of SiO ₂ /polymer nanoporous thin films on long-period grating (LPG) optical fibres and dramatic enhancement of the resonance bands 2008 ,		1
116	Fabrication of highly efficient fibre-optic gas sensors using SiO ₂ /polymer nanoporous thin films 2008 ,		2
115	Surface strain measurement of rotating objects using pulsed laser shearography with coherent fibre-optic imaging bundles. <i>Measurement Science and Technology</i> , 2008 , 19, 105301	2	19
114	Imaging fibre bundles for Fizeau-based optical coherence tomography 2008 ,		1
113	Temperature and strain discrimination using a single tilted fibre Bragg grating. <i>Optics Communications</i> , 2007 , 275, 344-347	2	100
112	Mach-Zehnder interferometric filter based planar Doppler velocimetry (MZI-PDV). <i>Journal of Optics</i> , 2007 , 9, 1002-1013		11

111	Planar Doppler velocimetry using a Mach-Zehnder interferometric filter. <i>Journal of Physics: Conference Series</i> , 2007 , 85, 012011	0.3	1
110	Surface strain measurement: a comparison of speckle shearing interferometry and optical fibre Bragg gratings with resistance foil strain gauges. <i>Measurement Science and Technology</i> , 2007 , 18, 1175-1184	1	30
109	Fibre imaging bundles for full-field optical coherence tomography. <i>Measurement Science and Technology</i> , 2007 , 18, 2949-2957	2	25
108	Methodology for investigation of diffuse reflections in tunable diode laser absorption spectroscopy. <i>Journal of Physics: Conference Series</i> , 2007 , 76, 012052	0.3	1
107	A pressure sensor based upon the transverse loading of a sub-section of an optical fibre Bragg grating. <i>Measurement Science and Technology</i> , 2007 , 18, 3103-3110	2	16
106	Surface strain measurement using multi-component shearography with coherent fibre-optic imaging bundles. <i>Measurement Science and Technology</i> , 2007 , 18, 3583-3591	2	21
105	Optical fibre grating refractometers for resin cure monitoring. <i>Journal of Optics</i> , 2007 , 9, S60-S65		31
104	Cure monitoring of a UV cured epoxy resin using a long period grating Mach-Zehnder interferometer 2007 ,		1
103	Simultaneous independent measurement of temperature and strain using a tilted fibre Bragg grating 2007 ,		3
102	Experimental observations on the response of 1(st) and 2(nd) order fibre optic long period grating coupling bands to the deposition of nanostructured coatings. <i>Optics Express</i> , 2007 , 15, 13096-107	3.3	17
101	Investigation into the selection of viewing configurations for three-component planar Doppler velocimetry measurements. <i>Applied Optics</i> , 2007 , 46, 4102-16	1.7	18
100	Multiplexing of Fiber-Optic Long-Period Grating-Based Interferometric Sensors. <i>Journal of Lightwave Technology</i> , 2007 , 25, 825-829	4	30
99	Low-coherence optical fibre speckle interferometry. <i>Measurement Science and Technology</i> , 2006 , 17, 605-616	2	11
98	Finding minimum spanning trees more efficiently for tile-based phase unwrapping. <i>Measurement Science and Technology</i> , 2006 , 17, 1428-1435	2	6
97	Single camera three component planar velocity measurements using two-frequency planar Doppler velocimetry (2EPDV). <i>Measurement Science and Technology</i> , 2006 , 17, 1194-1206	2	16
96	Fibre optic sensors with nano-structured coatings. <i>Journal of Optics</i> , 2006 , 8, S430-S444		58
95	Full-field optical coherence tomography using a fibre imaging bundle 2006 ,		3
94	Single camera 3D planar Doppler velocity measurements using imaging fibre bundles. <i>Journal of Physics: Conference Series</i> , 2006 , 45, 193-200	0.3	

93	Cascaded long-period gratings with nanostructured coatings. <i>Optics Letters</i> , 2005 , 30, 2197-9	3	32
92	Rouard's method as a modelling tool for the sensing characteristics of complex fibre Fabry-Perot interferometers formed between chirped fibre Bragg gratings 2005 , 5855, 338		3
91	Cascaded long period gratings with nano-structured coatings 2005 ,		2
90	Comparison of shearography and optical fibre Bragg grating strain sensors with resistance foil strain gauge measurements 2005 ,		1
89	Modification of the refractive index response of long period gratings using thin film overlays. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 738-741	8.5	63
88	Strain development in curing epoxy resin and glass fibre/epoxy composites monitored by fibre Bragg grating sensors in birefringent optical fibre. <i>Smart Materials and Structures</i> , 2005 , 14, 354-362	3.4	37
87	Ultrasonic sensing using Yb ³⁺ /Er ³⁺ -codoped distributed feedback fibre grating lasers. <i>Smart Materials and Structures</i> , 2005 , 14, 170-176	3.4	9
86	Comparative signal-to-noise analysis of fibre-optic based optical coherence tomography systems. <i>Journal of Modern Optics</i> , 2005 , 52, 1965-1979	1.1	19
85	Full-field optical coherence tomography 2005 ,		2
84	A single-headed fibre optic laser Doppler anemometer probe for the measurement of flow angles. <i>Measurement Science and Technology</i> , 2004 , 15, 1-8	2	150
83	Planar Doppler velocimetry using optical fibers 2004 , 5532, 50		
82	Two-frequency planar Doppler velocimetry (2FPDV). <i>Review of Scientific Instruments</i> , 2004 , 75, 4487-4496.	7	21
81	Characterization of the response of fibre Bragg gratings fabricated in stress and geometrically induced high birefringence fibres to temperature and transverse load. <i>Smart Materials and Structures</i> , 2004 , 13, 888-895	3.4	68
80	Thermal dependence of the strain response of optical fibre Bragg gratings. <i>Measurement Science and Technology</i> , 2004 , 15, 1607-1613	2	28
79	Instantaneous, three-component planar Doppler velocimetry using imaging fibre bundles. <i>Experiments in Fluids</i> , 2004 , 36, 3-10	2.5	34
78	Shape and slope measurement by source displacement in shearography. <i>Optics and Lasers in Engineering</i> , 2004 , 41, 621-634	4.6	29
77	Multicomponent laser shearography for the investigation of defects in rotating machinery 2004 , 5457, 546		2
76	Optical fibre Fizeau-based OCT 2004 ,		7

75	Multicomponent shearography using optical fiber imaging-bundles 2003 ,		2
74	Cryogenic temperature response of fibre optic long period gratings. <i>Measurement Science and Technology</i> , 2003 , 14, 1409-1411	2	34
73	Multicomponent shearography employing four measurements channels 2003 , 4933, 135		6
72	Multi-component pulsed-laser shearography using optical fiber imaging-bundles 2003 ,		2
71	Planar Doppler velocimetry measurements of flows using imaging fiber bundles 2003 , 5191, 122		2
70	Pipe Weld Investigation using Shearography. <i>Strain</i> , 2003 , 39, 101-105	1.7	9
69	Optical fibre long-period grating sensors: characteristics and application. <i>Measurement Science and Technology</i> , 2003 , 14, R49-R61	2	789
68	In-line laser Doppler velocimeter using fibre-optic Bragg grating interferometric filters. <i>Measurement Science and Technology</i> , 2003 , 14, 724-735	2	11
67	Polarization-maintaining fiber Bragg grating interrogation system for multi-axis strain sensing 2002 ,		4
66	Optical fiber long-period gratings with Langmuir-Blodgett thin-film overlays. <i>Optics Letters</i> , 2002 , 27, 686-8	3	195
65	Enhanced sensitivity fibre optic long period grating temperature sensor. <i>Measurement Science and Technology</i> , 2002 , 13, 792-795	2	58
64	Strain response of fibre Bragg grating sensors at cryogenic temperatures. <i>Measurement Science and Technology</i> , 2002 , 13, 1535-1539	2	43
63	In-line fiber optic laser Doppler velocimetry 2001 ,		1
62	Full surface strain measurement using shearography 2001 , 4448, 142		8
61	Acousto-optic frequency switching for single-camera planar Doppler velocimetry 2001 , 4448, 272		4
60	Time-division-multiplexed interrogation of fibre Bragg grating sensors using laser diodes. <i>Measurement Science and Technology</i> , 2001 , 12, 181-187	2	25
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