

Ralph P Tatam

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254
papers

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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	Optical gas sensing: a review. <i>Measurement Science and Technology</i> , 2013 , 24, 012004	2	826
253	Optical fibre long-period grating sensors: characteristics and application. <i>Measurement Science and Technology</i> , 2003 , 14, R49-R61	2	789
252	Fiber-optic liquid-level sensor using a long-period grating. <i>Optics Letters</i> , 2001 , 26, 1224-6	3	200
251	Optical fiber long-period gratings with Langmuir-Blodgett thin-film overlays. <i>Optics Letters</i> , 2002 , 27, 686-8	3	195
250	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
249	Shearography technology and applications: a review. <i>Measurement Science and Technology</i> , 2010 , 21, 102001	2	142
248	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
247	Temperature and strain discrimination using a single tilted fibre Bragg grating. <i>Optics Communications</i> , 2007 , 275, 344-347	2	100
246	Simultaneous temperature and bend sensing with long-period fiber gratings. <i>Optics Letters</i> , 2000 , 25, 1007-9	3	96
245	Fibre Bragg gratings fabricated using a wavelength tuneable laser source and a phase mask based interferometer. <i>Measurement Science and Technology</i> , 1996 , 7, 445-448	2	72
244	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
243	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
242	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
241	Fibre optic sensors with nano-structured coatings. <i>Journal of Optics</i> , 2006 , 8, S430-S444		58
240	Enhanced sensitivity fibre optic long period grating temperature sensor. <i>Measurement Science and Technology</i> , 2002 , 13, 792-795	2	58
239	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
238	Tapered Optical Fibre Sensors: Current Trends and Future Perspectives. <i>Sensors</i> , 2019 , 19,	3.8	55

237	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
236	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
235	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
234	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
233	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
232	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
231	pH sensor using Langmuir-Blodgett overlays on polished optical fibers. <i>Optics Letters</i> , 1997 , 22, 567-9	3	45
230	Strain response of fibre Bragg grating sensors at cryogenic temperatures. <i>Measurement Science and Technology</i> , 2002 , 13, 1535-1539	2	43
229	Relating the state of cure to the real-time internal strain development in a curing composite using in-fibre Bragg gratings and dielectric sensors. <i>Measurement Science and Technology</i> , 1998 , 9, 1153-1158	2	43
228	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
227	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
226	Fabrication and optimisation of a fused filament 3D-printed microfluidic platform. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 035018	2	38
225	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
224	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
223	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
222	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
221	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
220	Cryogenic temperature response of fibre optic long period gratings. <i>Measurement Science and Technology</i> , 2003 , 14, 1409-1411	2	34

219	Instantaneous, three-component planar Doppler velocimetry using imaging fibre bundles. <i>Experiments in Fluids</i> , 2004 , 36, 3-10	2.5	34
218	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
217	Cascaded long-period gratings with nanostructured coatings. <i>Optics Letters</i> , 2005 , 30, 2197-9	3	32
216	Optical fibre grating refractometers for resin cure monitoring. <i>Journal of Optics</i> , 2007 , 9, S60-S65		31
215	Passive signal processing for a miniature Fabry-Perot interferometric sensor with a multimode laser-diode source. <i>Optics Letters</i> , 1995 , 20, 1818	3	31
214	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	1.84	30
213	Multiplexing of Fiber-Optic Long-Period Grating-Based Interferometric Sensors. <i>Journal of Lightwave Technology</i> , 2007 , 25, 825-829	4	30
212	Application of optical coherence tomography to non-destructively characterise rind breakdown disorder of Nules Clementine mandarin. <i>Postharvest Biology and Technology</i> , 2013 , 84, 16-21	6.2	29
211	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
210	Shape and slope measurement by source displacement in shearography. <i>Optics and Lasers in Engineering</i> , 2004 , 41, 621-634	4.6	29
209	Optical fibre laser velocimetry: a review. <i>Measurement Science and Technology</i> , 2012 , 23, 032001	2	28
208	Optical fiber sensing based on reflection laser spectroscopy. <i>Sensors</i> , 2010 , 10, 1823-45	3.8	28
207	Thermal dependence of the strain response of optical fibre Bragg gratings. <i>Measurement Science and Technology</i> , 2004 , 15, 1607-1613	2	28
206	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
205	Characterization of optical fiber imaging bundles for swept-source optical coherence tomography. <i>Applied Optics</i> , 2011 , 50, 627-40	0.2	25
204	Fibre imaging bundles for full-field optical coherence tomography. <i>Measurement Science and Technology</i> , 2007 , 18, 2949-2957	2	25
203	Time-division-multiplexed interrogation of fibre Bragg grating sensors using laser diodes. <i>Measurement Science and Technology</i> , 2001 , 12, 181-187	2	25
202	Z-type Langmuir-Blodgett film structures: surface plasmon resonance, second harmonic generation and fibre optic devices. <i>Journal of Materials Chemistry</i> , 1996 , 6, 131-136		25

201	Fiber-optic chemical sensing with langmuir-blodgett overlay waveguides. <i>Applied Optics</i> , 1999 , 38, 7370-4.7	4.7	24
200	In-line fiber-optic components using Langmuir-Blodgett films. <i>Optics Letters</i> , 1994 , 19, 2036-8	3	24
199	Optical polarisation state control schemes using fibre optics or Bragg cells. <i>Journal of Physics E: Scientific Instruments</i> , 1986 , 19, 711-717		24
198	Automated manufacture of 3D reinforced aerospace composite structures. <i>International Journal of Structural Integrity</i> , 2012 , 3, 22-40	1	23
197	Railway track component condition monitoring using optical fibre Bragg grating sensors. <i>Measurement Science and Technology</i> , 2016 , 27, 055201	2	23
196	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
195	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
194	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
193	Two-frequency planar Doppler velocimetry (2EPDV). <i>Review of Scientific Instruments</i> , 2004 , 75, 4487-4496.7	6.7	21
192	Heterodyning of fibre optic electronic speckle pattern interferometers using laser diode wavelength modulation. <i>Measurement Science and Technology</i> , 1994 , 5, 704-709	2	20
191	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
190	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
189	Polarization-multiplexed and phase-stepped fibre optic shearography using laser wavelength modulation. <i>Measurement Science and Technology</i> , 2000 , 11, 1389-1395	2	19
188	Interrogation of low finesse optical fibre Fabry - PÉot interferometers using a four wavelength technique. <i>Measurement Science and Technology</i> , 1996 , 7, 117-120	2	19
187	Noise analysis for CCD-based ultraviolet and visible spectrophotometry. <i>Applied Optics</i> , 2015 , 54, 8135-46.2	46.2	18
186	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
185	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
184	Range-resolved interferometric signal processing using sinusoidal optical frequency modulation. <i>Optics Express</i> , 2015 , 23, 9415-31	3.3	17

183	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
182	Volatile Organic Compounds Sensing Using Optical Fibre Long Period Grating with Mesoporous Nano-Scale Coating. <i>Sensors</i> , 2017 , 17,	3.8	16
181	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
180	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
179	Heterodyning of speckle shearing interferometers by laser diode wavelength modulation. <i>Measurement Science and Technology</i> , 1996 , 7, 1721-1727	2	16
178	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
177	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
176	Phase-stepped speckle shearing interferometer by source wavelength modulation. <i>Optics Letters</i> , 1996 , 21, 1421-3	3	16
175	Dynamic Fiber-Optic Shape Sensing Using Fiber Segment Interferometry. <i>Journal of Lightwave Technology</i> , 2018 , 36, 917-925	4	15
174	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
173	Fibre Bragg grating based effective soil pressure sensor for geotechnical applications 2009 ,		15
172	Sensitivity Enhancement in Low Cutoff Wavelength Long-Period Fiber Gratings by Cladding Diameter Reduction. <i>Sensors</i> , 2017 , 17,	3.8	14
171	Time-division-multiplexed 3D shearography 1999 ,		14
170	Fibre optic based reference beam laser Doppler velocimetry. <i>Optics Communications</i> , 1995 , 119, 460-464		14
169	Two-dimensional fibre-optic laser velocimetry using polarisation state control. <i>Journal of Physics E: Scientific Instruments</i> , 1988 , 21, 103-107		14
168	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
167	A low cost, optically efficient carbon dioxide sensor based on nondispersive infra-red (NDIR) measurement at 4.2 μ m 2012 ,		13
166	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

165	Design considerations for a three dimensional fiber optic laser Doppler velocimeter for turbomachinery applications. <i>Review of Scientific Instruments</i> , 1997 , 68, 3241-3246	1.7	12
164	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
163	Low-coherence optical fibre speckle interferometry. <i>Measurement Science and Technology</i> , 2006 , 17, 605-616	2	11
162	Mach-Zehnder interferometric filter based planar Doppler velocimetry (MZI-PDV). <i>Journal of Optics</i> , 2007 , 9, 1002-1013		11
161	In-line laser Doppler velocimeter using fibre-optic Bragg grating interferometric filters. <i>Measurement Science and Technology</i> , 2003 , 14, 724-735	2	11
160	Submicrometer fiber-optic Fabry-Perot interferometer formed by use of the Langmuir-Blodgett technique. <i>Optics Letters</i> , 2001 , 26, 1840-2	3	11
159	Optical fibre technique for the measurement of small frequency separations: application to surface profile measurement using electronic speckle pattern interferometry. <i>Measurement Science and Technology</i> , 1993 , 4, 601-607	2	11
158	Monitoring techniques for the manufacture of tapered optical fibers. <i>Applied Optics</i> , 2015 , 54, 8531-6	0.2	10
157	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
156	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
155	Objective speckle velocimetry for autonomous vehicle odometry. <i>Applied Optics</i> , 2012 , 51, 3478-90	1.7	10
154	Pressure measurements on aircraft wing using phase-shifted fibre Bragg grating sensors 2009 ,		10
153	Monitoring transient strains on a gun barrel using fibre Bragg-grating sensors. <i>Measurement Science and Technology</i> , 1999 , 10, 63-67	2	10
152	Overwrite fabrication and tuning of long period gratings. <i>Optics Express</i> , 2016 , 24, 22345-22356	3.3	10
151	Fiber Segment Interferometry for Dynamic Strain Measurements. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4620-4626	4	9
150	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
149	Enhanced sensitivity fibre Bragg grating (FBG) load sensor. <i>Measurement Science and Technology</i> , 2010 , 21, 094006	2	9
148	A simple and wavelength-flexible procedure for fabricating phase-shifted fibre Bragg gratings. <i>Measurement Science and Technology</i> , 2010 , 21, 094001	2	9

147	Pipe Weld Investigation using Shearography. <i>Strain</i> , 2003 , 39, 101-105	1.7	9
146	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
145	Second-harmonic generation in Langmuir Blodgett waveguide overlays on single-mode optical fiber. <i>Optics Letters</i> , 1999 , 24, 1194-6	3	9
144	Optical low-coherence tomography of bronchial tissue 1999 ,		9
143	Optical frequency shifter based on stimulated Brillouin scattering in a birefringent optical fibre ring resonator. <i>Optics Communications</i> , 1993 , 103, 161-168	2	9
142	Faraday effect magnetometry utilizing high Verdet constant glass. <i>Applied Physics Letters</i> , 1987 , 51, 864-866	3-4	9
141	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
140	Speckle velocimetry for high accuracy odometry for a Mars exploration rover. <i>Measurement Science and Technology</i> , 2010 , 21, 025301	2	8
139	Full surface strain measurement using shearography 2001 , 4448, 142		8
138	Faraday-effect magnetometry: compensation for the temperature-dependent Verdet constant. <i>Measurement Science and Technology</i> , 1994 , 5, 1471-1479	2	8
137	Surface contouring using TV holography 1991 , 1504, 221		8
136	Optical frequency shifter technique based on stimulated Brillouin scattering in birefringent optical fiber. <i>Applied Optics</i> , 1993 , 32, 5966-72	1.7	8
135	A mechanically stable laser diode speckle interferometer for surface contouring and displacement measurement. <i>Measurement Science and Technology</i> , 2015 , 26, 055402	2	7
134	An Optical Fiber Hydrogen Sensor Using a Palladium-Coated Ball Lens. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2535-2542	4	7
133	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
132	Quantitative shearography: error reduction by using more than three measurement channels. <i>Applied Optics</i> , 2011 , 50, 134-46	0.2	7
131	Optical fibre Fizeau-based OCT 2004 ,		7
130	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

129	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
128	A polarization-based optical fibre vibrometer. <i>Measurement Science and Technology</i> , 1997 , 8, 343-347	2	6
127	Finding minimum spanning trees more efficiently for tile-based phase unwrapping. <i>Measurement Science and Technology</i> , 2006 , 17, 1428-1435	2	6
126	Multicomponent shearography employing four measurements channels 2003 , 4933, 135		6
125	Evidence for a thermotropic phase transition in oleic acid. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1986 , 82, 439		6
124	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
123	Integrating cavity based gas cells: a multibeam compensation scheme for pathlength variation. <i>Optics Express</i> , 2016 , 24, 13647-64	3.3	5
122	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
121	Detection of volatile organic compounds (VOCs) using an optical fibre long period grating with a calixarene anchored mesoporous thin film 2013 ,		5
120	All-electronic frequency stabilization of a DFB laser diode. <i>Optics Express</i> , 2017 , 25, 11679-11691	3.3	5
119	Fibre-Optic Chemical Sensor Approaches Based on Nanoassembled Thin Films: A Challenge to Future Sensor Technology 2013 ,		5
118	Objective speckle displacement: an extended theory for the small deformation of shaped objects. <i>Optics Express</i> , 2014 , 22, 25466-80	3.3	5
117	A VCSEL based system for on-site monitoring of low level methane emission 2011 ,		5
116	A fibre Bragg grating-based inclinometer system for ground movement measurement 2010 ,		5
115	The calibration of the path-length imbalance in optical fibre ESPI systems employing source-wavelength modulation. <i>Measurement Science and Technology</i> , 1997 , 8, 759-763	2	5
114	A novel interferometric liquid refractometer. <i>Review of Scientific Instruments</i> , 1989 , 60, 3347-3348	1.7	5
113	High sensitivity pressure measurement using optical fibre sensors mounted on a composite diaphragm. <i>Optics Express</i> , 2021 , 29, 4105-4123	3.3	5
112	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

111	Non-Dispersive Ultra-Violet Spectroscopic Detection of Formaldehyde Gas for Indoor Environments. <i>IEEE Sensors Journal</i> , 2018 , 18, 2218-2228	4	4
110	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
109	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
108	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
107	Bragg-grating-stabilized external cavity lasers for gas sensing using tunable diode laser spectroscopy 2014 ,		4
106	Multiplexed fibre optic sensors for monitoring resin infusion, flow, and cure in composite material processing 2013 ,		4
105	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
104	A simple method for fabricating phase-shifted fibre Bragg gratings with flexible choice of centre wavelength 2009 ,		4
103	Ammonia sensing using a fibre optic long period grating with a porous nanostructured coating formed from silica nanospheres 2010 ,		4
102	Acousto-optic frequency switching for single-camera planar Doppler velocimetry 2001 , 4448, 272		4
101	Polarization-maintaining fiber Bragg grating interrogation system for multi-axis strain sensing 2002 ,		4
100	Influence of process route on mechanical and sensing performance of fiber Bragg grating optical sensors 1999 ,		4
99	Optical fiber modulation techniques for single mode fiber sensors. <i>Optoelectronics, Imaging and Sensing Series</i> , 1995 , 223-267		4
98	Editorial for the special feature on Advanced In-flight Measurement Techniques AIM2. <i>Measurement Science and Technology</i> , 2017 , 28, 040101	2	3
97	Speckle tracking approaches in speckle sensing 2017 ,		3
96	Performance and Analysis of Feature Tracking Approaches in Laser Speckle Instrumentation. <i>Sensors</i> , 2019 , 19,	3.8	3
95	Simultaneous laser vibrometry on multiple surfaces with a single beam system using range-resolved interferometry 2015 ,		3
94	Frequency division multiplexing for interferometric planar Doppler velocimetry. <i>Applied Optics</i> , 2014 , 53, 4363-74	1.7	3

93	Sensitive protein detection using an optical fibre long period grating sensor anchored with silica core gold shell nanoparticles 2014 ,		3
92	Passive OCT probe head for 3D duct inspection. <i>Measurement Science and Technology</i> , 2013 , 24, 094001 2		3
91	Toward track component condition monitoring using optical fibre Bragg grating sensors 2012 ,		3
90	Coherent fibre bundles in full-field swept-source OCT 2009 ,		3
89	Simultaneous independent measurement of temperature and strain using a tilted fibre Bragg grating 2007 ,		3
88	Full-field optical coherence tomography using a fibre imaging bundle 2006 ,		3
87	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
86	A technique for depositing non-centrosymmetric Langmuir-Blodgett films onto optical fibres. <i>Measurement Science and Technology</i> , 1999 , 10, N60-N62	2	3
85	3D shearography for surface strain analysis 1999 , 3783, 247		3
84	Optoelectronic developments in speckle interferometry 1996 ,		3
83	Applications of Faraday rotation using monomode optical fibre 1987 ,		3
82	Monomode fiber modulators: Frequency and polarization state control. <i>Fiber and Integrated Optics</i> , 1988 , 7, 299-315	0.8	3
81	Polarization-sensitive transfer matrix modeling for displacement measuring interferometry. <i>Applied Optics</i> , 2020 , 59, 7694-7704	1.7	3
80	Quantum cascade laser light propagation through hollow silica waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 119, 75-86	1.9	2
79	Detection of the volatile organic compounds emitted from paints using optical fibre long period grating modified with the mesoporous nano-scale coating 2015 ,		2
78	Optical Fibre Long-Period Gratings Functionalised with Nano-Assembled Thin Films: Approaches to Chemical Sensing 2013 ,		2
77	Wavelength stabilisation of a DFB laser diode using measurement of junction voltage 2014 ,		2
76	Wind tunnel unsteady pressure measurements using a differential optical fiber Fabry-Perot pressure sensor 2014 ,		2

75	Numerical modelling of imaging fibre bundles and their application in optical coherence tomography 2011 ,	2
74	On-axis laser doppler velocimetry for turbomachinery applications using optical fiber techniques 1997 , 3172, 17	2
73	Fabrication of highly efficient fibre-optic gas sensors using SiO ₂ /polymer nanoporous thin films 2008 ,	2
72	Multicomponent shearography using optical fiber imaging-bundles 2003 ,	2
71	Multi-component pulsed-laser shearography using optical fiber imaging-bundles 2003 ,	2
70	Planar Doppler velocimetry measurements of flows using imaging fiber bundles 2003 , 5191, 122	2
69	Multicomponent laser shearography for the investigation of defects in rotating machinery 2004 , 5457, 546	2
68	Cascaded long period gratings with nano-structured coatings 2005 ,	2
67	Full-field optical coherence tomography 2005 ,	2
66	Strain measurement in curved industrial components using multicomponent shearography 2001 , 4398, 216	2
65	Surface strain characterization using time-division-multiplexed 3D shearography 2000 ,	2
64	Transient strain monitoring on a gun barrel using optical fiber Bragg grating sensors 1998 ,	2
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