

Gabriel Leen

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.

60
papers

1,186
citations

18
h-index

33
g-index

91
ext. papers

1,547
ext. citations

3.8
avg, IF

4.22
L-index

#	Paper	IF	Citations
60	An on-demand, drop-on-drop method for studying enzyme catalysis by serial crystallography. <i>Nature Communications</i> , 2021 , 12, 4461	17.4	4
59	Reducing sample consumption for serial crystallography using acoustic drop ejection. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1820-1825	2.4	17
58	Motion artefact minimization from photoplethysmography based non-invasive hemoglobin sensor based on an envelope filtering algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 115, 288-298	4.6	9
57	Pressure, temperature and refractive index determination of fluids using a single fibre optic point sensor. <i>Sensors and Actuators A: Physical</i> , 2017 , 256, 84-88	3.9	17
56	All plastic optical fiber-based respiration monitoring sensor 2017 ,		1
55	. <i>Journal of Lightwave Technology</i> , 2017 , 35, 4567-4573	4	19
54	An Optical Fibre Depth (Pressure) Sensor for Remote Operated Vehicles in Underwater Applications. <i>Sensors</i> , 2017 , 17,	3.8	16
53	An Experimental Study of the Effects of External Physiological Parameters on the Photoplethysmography Signals in the Context of Local Blood Pressure (Hydrostatic Pressure Changes). <i>Sensors</i> , 2017 , 17,	3.8	6
52	Underwater Depth and Temperature Sensing Based on Fiber Optic Technology for Marine and Fresh Water Applications. <i>Sensors</i> , 2017 , 17,	3.8	34
51	Femtosecond-Laser-Based Inscription Technique for Post-Fiber-Bragg Grating Inscription in an Extrinsic Fabry-Perot Interferometer Pressure Sensor. <i>IEEE Sensors Journal</i> , 2016 , 16, 3396-3402	4	22
50	Novel ultrahigh resolution optical fibre temperature sensor 2016 ,		1
49	Intra-Tissue Pressure Measurement in Ex Vivo Liver Undergoing Laser Ablation with Fiber-Optic Fabry-Perot Probe. <i>Sensors</i> , 2016 , 16,	3.8	17
48	A review of recent advances in optical fibre sensors for in vivo dosimetry during radiotherapy. <i>British Journal of Radiology</i> , 2015 , 88, 20140702	3.4	52
47	Differential in vivo urodynamic measurement in a single thin catheter based on two optical fiber pressure sensors. <i>Journal of Biomedical Optics</i> , 2015 , 20, 037005	3.5	19
46	Effects of autonomic nervous system on the quality of non-invasive blood diagnosis by PPG-based sensor system 2015 ,		1
45	Multi FBG femtosecond laser inscription in FPI based pressure sensors for temperature distribution 2015 ,		1
44	Clinical evaluation of a novel technology for non-invasive and continuous measurement of plasma haemoglobin concentration. <i>Anaesthesia</i> , 2015 , 70, 1165-70	6.6	7

43	Recent Improvement of Medical Optical Fibre Pressure and Temperature Sensors. <i>Biosensors</i> , 2015 , 5, 432-49	5.9	23
42	Optical Fibre Pressure Sensors in Medical Applications. <i>Sensors</i> , 2015 , 15, 17115-48	3.8	95
41	Adaptive filter-based interrogation of high-sensitivity fiber optic Fabry-Perot interferometry sensors. <i>Sensors and Actuators A: Physical</i> , 2014 , 206, 144-150	3.9	22
40	Fiber-optic combined FPI/FBG sensors for monitoring of radiofrequency thermal ablation of liver tumors: ex vivo experiments. <i>Applied Optics</i> , 2014 , 53, 2136-44	1.7	20
39	Novel FBG femtosecond laser inscription method for improved FPI sensors for medical applications 2014 ,		4
38	Novel miniature pressure and temperature optical fibre sensor based on an extrinsic Fabry-Perot Interferometer (EFPI) and Fibre Bragg Gratings (FBG) for the Ocean environment 2014 ,		4
37	Monitoring of radiofrequency thermal ablation in liver tissue through fibre Bragg grating sensors array. <i>Electronics Letters</i> , 2014 , 50, 981-983	1.1	38
36	Distributed fiber-optic sensors for thermal monitoring in radiofrequency thermal ablation in porcine phantom 2014 ,		2
35	Fiber-optic chirped FBG for distributed thermal monitoring of ex-vivo radiofrequency ablation of liver. <i>Biomedical Optics Express</i> , 2014 , 5, 1799-811	3.5	54
34	. <i>IEEE Sensors Journal</i> , 2014 , 14, 2335-2340	4	22
33	Miniature low-cost extrinsic Fabry-Perot interferometer for low-pressure detection 2013 ,		2
32	Low-cost miniature fiber-optic extrinsic Fabry-Perot interferometric pressure sensor for biomedical applications 2013 ,		3
31	2013 ,		4
30	Spectral eigendecomposition-based algorithm for cavity estimation in fibre-optic Fabry-Perot pressure sensors. <i>Electronics Letters</i> , 2013 , 49, 1555-1556	1.1	
29	2013 ,		1
28	A fibre optic sensor for the in situ determination of rock physical properties. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012 , 55, 55-62	6	11
27	Miniature Optical fiber combined pressure- and temperature sensor for medical applications 2012 ,		4
26	Feedback Stabilized Interrogation Technique for EFPI/FBG Hybrid Fiber-Optic Pressure and Temperature Sensors. <i>IEEE Sensors Journal</i> , 2012 , 12, 133-138	4	48

25	Mid-infrared point sensor for in situ monitoring of CO2 emissions from large-scale engines. <i>Applied Optics</i> , 2012 , 51, 7636-42	1.7	5
24	Fabrication of a miniature all-glass fibre optic pressure and temperature sensor. <i>Procedia Engineering</i> , 2011 , 25, 503-506		8
23	Fibre optic pressure sensor system for high temperature exhaust gas flows 2011 ,		2
22	Temperature compensated miniature all-glass fibre optic pressure sensor 2011 ,		4
21	Optical sensor system for continuous non-invasive hemodynamic monitoring in real-time 2011 ,		5
20	Fibre optic pressure and temperature sensor for geothermal wells 2010 ,		15
19	Non-invasive continuous online hemoglobin monitoring system 2010 ,		7
18	Optical fibre radiation dosimetry for low dose applications 2010 ,		4
17	Non-invasive optical real-time measurement of total hemoglobin content. <i>Procedia Engineering</i> , 2010 , 5, 488-491		15
16	Temperature measurement of gases using acoustic means 2009 ,		2
15	Fabrication of a high temperature-resistance optical fibre micro pressure sensor 2009 ,		4
14	Conception and preliminary evaluation of an optical fibre sensor for simultaneous measurement of pressure and temperature. <i>Journal of Physics: Conference Series</i> , 2009 , 178, 012016	0.3	14
13	Conception and preliminary evaluation of an optical fibre sensor for simultaneous measurement of pressure and temperature 2009 ,		6
12	The AUTOSAR Standard - The Experience of Applying Simulink According to its Requirements 2007 ,		3
11	A gateway for time-triggered control networks. <i>Microprocessors and Microsystems</i> , 2007 , 31, 38-50	2.4	10
10	. <i>IEEE Transactions on Industrial Informatics</i> , 2006 , 2, 242-254	11.9	6
9	Clock synchronisation on multiple TTCAN network channels. <i>Microprocessors and Microsystems</i> , 2004 , 28, 135-146	2.4	7
8	A comparison of emerging time-triggered protocols for automotive X-by-wire control networks. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2003 , 217, 13-22	1.4	11

7	Expanding automotive electronic systems. <i>Computer</i> , 2002 , 35, 88-93	1.6	230
6	TTCAN: a new time-triggered controller area network. <i>Microprocessors and Microsystems</i> , 2002 , 26, 77-94	2.4	88
5	A time-triggered control network for industrial automation. <i>Assembly Automation</i> , 2002 , 22, 60-68	2.1	6
4	Vehicles without wires. <i>Computing & Control Engineering Journal</i> , 2001 , 12, 205-211		44
3	Time-triggered controller area network. <i>Computing & Control Engineering Journal</i> , 2001 , 12, 245-256		22
2	Digital networks in the automotive vehicle. <i>Computing & Control Engineering Journal</i> , 1999 , 10, 257-266		60
1	Modeling and Verification of a Time-triggered Networking Protocol		6