

# Gabriel Leen

## List of Publications by Citations

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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	Expanding automotive electronic systems. <i>Computer</i> , <b>2002</b> , 35, 88-93	1.6	230
59	Optical Fibre Pressure Sensors in Medical Applications. <i>Sensors</i> , <b>2015</b> , 15, 17115-48	3.8	95
58	TTCAN: a new time-triggered controller area network. <i>Microprocessors and Microsystems</i> , <b>2002</b> , 26, 77-94	2.4	88
57	Digital networks in the automotive vehicle. <i>Computing &amp; Control Engineering Journal</i> , <b>1999</b> , 10, 257-266		60
56	Fiber-optic chirped FBG for distributed thermal monitoring of ex-vivo radiofrequency ablation of liver. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 1799-811	3.5	54
55	A review of recent advances in optical fibre sensors for in vivo dosimetry during radiotherapy. <i>British Journal of Radiology</i> , <b>2015</b> , 88, 20140702	3.4	52
54	Feedback Stabilized Interrogation Technique for EFPI/FBG Hybrid Fiber-Optic Pressure and Temperature Sensors. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 133-138	4	48
53	Vehicles without wires. <i>Computing &amp; Control Engineering Journal</i> , <b>2001</b> , 12, 205-211		44
52	Monitoring of radiofrequency thermal ablation in liver tissue through fibre Bragg grating sensors array. <i>Electronics Letters</i> , <b>2014</b> , 50, 981-983	1.1	38
51	Underwater Depth and Temperature Sensing Based on Fiber Optic Technology for Marine and Fresh Water Applications. <i>Sensors</i> , <b>2017</b> , 17,	3.8	34
50	Recent Improvement of Medical Optical Fibre Pressure and Temperature Sensors. <i>Biosensors</i> , <b>2015</b> , 5, 432-49	5.9	23
49	Femtosecond-Laser-Based Inscription Technique for Post-Fiber-Bragg Grating Inscription in an Extrinsic Fabry-Perot Interferometer Pressure Sensor. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 3396-3402	4	22
48	Adaptive filter-based interrogation of high-sensitivity fiber optic Fabry-Perot interferometry sensors. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 206, 144-150	3.9	22
47	. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 2335-2340	4	22
46	Time-triggered controller area network. <i>Computing &amp; Control Engineering Journal</i> , <b>2001</b> , 12, 245-256		22
45	Fiber-optic combined FPI/FBG sensors for monitoring of radiofrequency thermal ablation of liver tumors: ex vivo experiments. <i>Applied Optics</i> , <b>2014</b> , 53, 2136-44	1.7	20
44	Differential in vivo urodynamic measurement in a single thin catheter based on two optical fiber pressure sensors. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 037005	3.5	19

43	. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 4567-4573	4	19
42	Pressure, temperature and refractive index determination of fluids using a single fibre optic point sensor. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 256, 84-88	3.9	17
41	Reducing sample consumption for serial crystallography using acoustic drop ejection. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1820-1825	2.4	17
40	Intra-Tissue Pressure Measurement in Ex Vivo Liver Undergoing Laser Ablation with Fiber-Optic Fabry-Perot Probe. <i>Sensors</i> , <b>2016</b> , 16,	3.8	17
39	An Optical Fibre Depth (Pressure) Sensor for Remote Operated Vehicles in Underwater Applications. <i>Sensors</i> , <b>2017</b> , 17,	3.8	16
38	Fibre optic pressure and temperature sensor for geothermal wells <b>2010</b> ,		15
37	Non-invasive optical real-time measurement of total hemoglobin content. <i>Procedia Engineering</i> , <b>2010</b> , 5, 488-491		15
36	Conception and preliminary evaluation of an optical fibre sensor for simultaneous measurement of pressure and temperature. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 178, 012016	0.3	14
35	A fibre optic sensor for the in situ determination of rock physical properties. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2012</b> , 55, 55-62	6	11
34	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> , <b>2003</b> , 217, 13-22	1.4	11
33	A gateway for time-triggered control networks. <i>Microprocessors and Microsystems</i> , <b>2007</b> , 31, 38-50	2.4	10
32	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> , <b>2018</b> , 115, 288-298	4.6	9
31	Fabrication of a miniature all-glass fibre optic pressure and temperature sensor. <i>Procedia Engineering</i> , <b>2011</b> , 25, 503-506		8
30	Clinical evaluation of a novel technology for non-invasive and continuous measurement of plasma haemoglobin concentration. <i>Anaesthesia</i> , <b>2015</b> , 70, 1165-70	6.6	7
29	Non-invasive continuous online hemoglobin monitoring system <b>2010</b> ,		7
28	Clock synchronisation on multiple TTCAN network channels. <i>Microprocessors and Microsystems</i> , <b>2004</b> , 28, 135-146	2.4	7
27	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> , <b>2017</b> , 17,	3.8	6
26	Conception and preliminary evaluation of an optical fibre sensor for simultaneous measurement of pressure and temperature <b>2009</b> ,		6

25	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2006</b> , 2, 242-254	11.9	6
24	Modeling and Verification of a Time-triggered Networking Protocol		6
23	A time-triggered control network for industrial automation. <i>Assembly Automation</i> , <b>2002</b> , 22, 60-68	2.1	6
22	Optical sensor system for continuous non-invasive hemodynamic monitoring in real-time <b>2011</b> ,		5
21	Mid-infrared point sensor for in situ monitoring of CO2 emissions from large-scale engines. <i>Applied Optics</i> , <b>2012</b> , 51, 7636-42	1.7	5
20	<b>2013</b> ,		4
19	Novel FBG femtosecond laser inscription method for improved FPI sensors for medical applications <b>2014</b> ,		4
18	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 <b>2014</b> ,		4
17	Miniature Optical fiber combined pressure- and temperature sensor for medical applications <b>2012</b> ,		4
16	Optical fibre radiation dosimetry for low dose applications <b>2010</b> ,		4
15	Temperature compensated miniature all-glass fibre optic pressure sensor <b>2011</b> ,		4
14	Fabrication of a high temperature-resistance optical fibre micro pressure sensor <b>2009</b> ,		4
13	An on-demand, drop-on-drop method for studying enzyme catalysis by serial crystallography. <i>Nature Communications</i> , <b>2021</b> , 12, 4461	17.4	4
12	Low-cost miniature fiber-optic extrinsic Fabry-Perot interferometric pressure sensor for biomedical applications <b>2013</b> ,		3
11	The AUTOSAR Standard - The Experience of Applying Simulink According to its Requirements <b>2007</b> ,		3
10	Miniature low-cost extrinsic Fabry-Perot interferometer for low-pressure detection <b>2013</b> ,		2
9	Distributed fiber-optic sensors for thermal monitoring in radiofrequency thermal ablation in porcine phantom <b>2014</b> ,		2
8	Fibre optic pressure sensor system for high temperature exhaust gas flows <b>2011</b> ,		2

7	Temperature measurement of gases using acoustic means <b>2009</b> ,	2
6	Effects of autonomic nervous system on the quality of non-invasive blood diagnosis by PPG-based sensor system <b>2015</b> ,	1
5	Multi FBG femtosecond laser inscription in FPI based pressure sensors for temperature distribution <b>2015</b> ,	1
4	Novel ultrahigh resolution optical fibre temperature sensor <b>2016</b> ,	1
3	All plastic optical fiber-based respiration monitoring sensor <b>2017</b> ,	1
2	<b>2013</b> ,	1
1	Spectral eigendecomposition-based algorithm for cavity estimation in fibre-optic Fabry-Pérot pressure sensors. <i>Electronics Letters</i> , <b>2013</b> , 49, 1555-1556	1.1