

Thomas P Allsop

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,240
citations

331259

21
h-index

476904

29
g-index

36
all docs

36
docs citations

36
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	A high sensitivity refractometer based upon a long period grating Mach-Zehnder interferometer. Review of Scientific Instruments, 2002, 73, 1702-1705.	0.6	176
2	Detection of organic aromatic compounds in paraffin by a long-period fiber grating optical sensor with optimized sensitivity. Optics Communications, 2001, 191, 181-190.	1.0	100
3	High-temperature sensitivity of long-period gratings in B-Ge codoped fiber. IEEE Photonics Technology Letters, 2001, 13, 818-820.	1.3	98
4	Long period grating in multicore optical fiber: an ultra-sensitive vector bending sensor for low curvatures. Optics Letters, 2014, 39, 3508.	1.7	96
5	Photonic gas sensors exploiting directly the optical properties of hybrid carbon nanotube localized surface plasmon structures. Light: Science and Applications, 2016, 5, e16036-e16036.	7.7	67
6	Long period gratings written into a photonic crystal fibre by a femtosecond laser as directional bend sensors. Optics Communications, 2008, 281, 5092-5096.	1.0	65
7	Bending and Orientational Characteristics of Long Period Gratings Written in D-Shaped Optical Fiber. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 130-135.	2.4	64
8	A comparison of the sensing characteristics of long period gratings written in three different types of fiber. Optical Fiber Technology, 2003, 9, 210-223.	1.4	53
9	Characterisation and performance of a Terfenol-D coated femtosecond laser inscribed optical fibre Bragg sensor with a laser ablated microslot for the detection of static magnetic fields. Optics Express, 2011, 19, 363.	1.7	45
10	Simultaneous refractive index and temperature measurement using cascaded long-period grating in double-cladding fibre. Electronics Letters, 2002, 38, 695.	0.5	44
11	Spectral characteristics of tapered LPG device as a sensing element for refractive index and temperature. Journal of Lightwave Technology, 2006, 24, 870-878.	2.7	44
12	A Review: Evolution and Diversity of Optical Fibre Plasmonic Sensors. Sensors, 2019, 19, 4874.	2.1	44
13	Embedded progressive-three-layered fiber long-period gratings for respiratory monitoring. Journal of Biomedical Optics, 2003, 8, 552.	1.4	36
14	Bending characteristics of fiber long-period gratings with cladding index modified by femtosecond laser. Journal of Lightwave Technology, 2006, 24, 3147-3154.	2.7	34
15	Long period grating directional bend sensor based on asymmetric index modification of cladding. Electronics Letters, 2005, 41, 59.	0.5	33
16	Application of long-period-grating sensors to respiratory plethysmography. Journal of Biomedical Optics, 2007, 12, 064003.	1.4	33
17	Investigations of the spectral sensitivity of long period gratings fabricated three-layered optical fiber. Journal of Lightwave Technology, 2003, 21, 264-268.	2.7	30
18	Respiratory function monitoring using a real-time three-dimensional fiber-optic shaping sensing scheme based upon fiber Bragg gratings. Journal of Biomedical Optics, 2012, 17, 117001.	1.4	30

#	ARTICLE	IF	CITATIONS
19	Room-temperature operation of widely tunable loss filter. Electronics Letters, 2001, 37, 216.	0.5	28
20	Inscription and characterization of waveguides written into borosilicate glass by a high-repetition-rate femtosecond laser at 800 nm. Applied Optics, 2010, 49, 1938.	2.1	25
21	Spectral characteristics and thermal evolution of long-period gratings in photonic crystal fibers fabricated with a near-IR radiation femtosecond laser using point-by-point inscription. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2105.	0.9	23
22	A Review: Application and Implementation of Optic Fibre Sensors for Gas Detection. Sensors, 2021, 21, 6755.	2.1	15
23	Cardiac-induced localized thoracic motion detected by a fiber optic sensing scheme. Journal of Biomedical Optics, 2014, 19, 117006.	1.4	13
24	Sensing characteristics of a novel two-section long-period grating. Applied Optics, 2003, 42, 3766.	2.1	11
25	Methane detection scheme based upon the changing optical constants of a zinc oxide/platinum matrix created by a redox reaction and their effect upon surface plasmons. Sensors and Actuators B: Chemical, 2018, 255, 843-853.	4.0	9
26	Highly sensitive, localized surface plasmon resonance fiber device for environmental sensing, based upon a structured bi-metal array of nano-wires. Optics Letters, 2014, 39, 5798.	1.7	6
27	Micro-fabrication of advanced photonic devices by means of direct point-by-point femtosecond inscription in silica. , 2006, , .		4
28	A new method for respiratory-volume monitoring based on long-period fibre gratings. , 2013, 2013, 2660-3.		4
29	Detection of nitrous oxide using infrared optical plasmonics coupled with carbon nanotubes. Nanoscale Advances, 2020, 2, 4615-4626.	2.2	4
30	Generation of a Conjoint Surface Plasmon by an Infrared Nano-€Antenna Array. Advanced Photonics Research, 2021, 2, 2000003.	1.7	2
31	Low-dimensional nano-patterned surface fabricated by direct-write UV-chemically induced geometric inscription technique. Optics Letters, 2019, 44, 195.	1.7	2
32	Sensing applications of long-period gratings in various fibre types. , 2004, 5502, 104.		1
33	An optical fiber Bragg grating tactile sensor. , 2007, , .		1
34	Gratings in novel fibre geometry for applications in shape sensing. , 2004, , .		0
35	Respiratory Monitoring Using Fibre Long Period Grating Sensors. , 2005, , .		0
36	Long-period grating fiber-optic sensors of bending for applications in pulmonology. Tehnika, 2014, 69, 453-458.	0.0	0