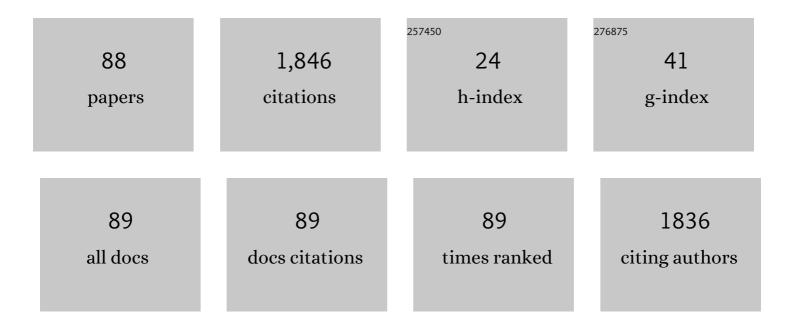
## Serhiy Korposh

List of Publications by Year in descending order

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SEDHIY KODDOCH

#	Article	IF	CITATIONS
1	Biomedical application of optical fibre sensors. Journal of Optics (United Kingdom), 2018, 20, 073003.	2.2	124
2	Tapered Optical Fibre Sensors: Current Trends and Future Perspectives. Sensors, 2019, 19, 2294.	3.8	121
3	Optical fibre long period grating with a nanoporous coating formed from silica nanoparticles for ammonia sensing in water. Materials Chemistry and Physics, 2012, 133, 784-792.	4.0	77
4	Multi-parameter measurements using optical fibre long period gratings for indoor air quality monitoring. Sensors and Actuators B: Chemical, 2017, 244, 217-225.	7.8	74
5	Highly sensitive volatile organic compounds vapour measurements using a long period grating optical fibre sensor coated with metal organic framework ZIF-8. Sensors and Actuators B: Chemical, 2018, 260, 685-692.	7.8	70
6	Nanoassembled Thin Film Gas Sensors. III. Sensitive Detection of Amine Odors Using TiO <sub>2</sub> /Poly(acrylic acid) Ultrathin Film Quartz Crystal Microbalance Sensors. Analytical Chemistry, 2010, 82, 2228-2236.	6.5	64
7	Optical fibre long period grating gas sensor modified with metal organic framework thin films. Sensors and Actuators B: Chemical, 2015, 221, 891-899.	7.8	64
8	An ammonia sensor based on Lossy Mode Resonances on a tapered optical fibre coated with porphyrin-incorporated titanium dioxide. Sensors and Actuators B: Chemical, 2017, 242, 645-652.	7.8	63
9	Selective vancomycin detection using optical fibre long period gratings functionalised with molecularly imprinted polymer nanoparticles. Analyst, The, 2014, 139, 2229-2236.	3.5	61
10	A long period grating optical fiber sensor with nano-assembled porphyrin layers for detecting ammonia gas. Sensors and Actuators B: Chemical, 2016, 228, 573-580.	7.8	58
11	Carbon dioxide measurements using long period grating optical fibre sensor coated with metal organic framework HKUST-1. Sensors and Actuators B: Chemical, 2018, 255, 2483-2494.	7.8	58
12	Fiber optic long period grating sensors with a nanoassembled mesoporous film of SiO_2 nanoparticles. Optics Express, 2010, 18, 13227.	3.4	55
13	Highly sensitive optical fibre long period grating biosensor anchored with silica core gold shell nanoparticles. Biosensors and Bioelectronics, 2016, 75, 222-231.	10.1	50
14	Highly sensitive label-free antibody detection using a long period fibre grating sensor. Sensors and Actuators B: Chemical, 2018, 271, 24-32.	7.8	50
15	Characterization and Use of a Fiber Optic Sensor Based on PAH/SiO <sub>2</sub> Film for Humidity Sensing in Ventilator Care Equipment. IEEE Transactions on Biomedical Engineering, 2016, 63, 1985-1992.	4.2	45
16	Refractive index sensitivity of fibre-optic long period gratings coated with SiO <sub>2</sub> nanoparticle mesoporous thin films. Measurement Science and Technology, 2011, 22, 075208.	2.6	44
17	A long period grating-based chemical sensor insensitive to the influence of interfering parameters. Optics Express, 2014, 22, 8012.	3.4	42
18	Optical fiber long period grating sensor with a polyelectrolyte alternate thin film for gas sensing of amine odors. Sensors and Actuators B: Chemical, 2013, 185, 117-124.	7.8	41

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19	Nano-assembled thin film gas sensors. IV. Mass-sensitive monitoring of humidity using quartz crystal microbalance (QCM) electrodes. Sensors and Actuators B: Chemical, 2010, 147, 599-606.	7.8	38
20	Polymeric optical fibre sensor coated by SiO2 nanoparticles for humidity sensing in the skin microenvironment. Sensors and Actuators B: Chemical, 2018, 254, 887-895.	7.8	37
21	Simultaneous in situ temperature and relative humidity monitoring in mechanical ventilators using an array of functionalised optical fibre long period grating sensors. Sensors and Actuators B: Chemical, 2019, 286, 306-314.	7.8	37
22	Remarkable enantioselectivity of molecularly imprinted TiO2 nano-thin films. Analytica Chimica Acta, 2011, 694, 142-150.	5.4	35
23	Optical fibre sensor for simultaneous temperature and relative humidity measurement: Towards absolute humidity evaluation. Sensors and Actuators B: Chemical, 2021, 344, 130154.	7.8	32
24	Pronounced aromatic carboxylic acid detection using a layer-by-layer mesoporous coating on optical fibre long period grating. Sensors and Actuators B: Chemical, 2012, 173, 300-309.	7.8	29
25	Real time monitoring of biofilm formation on coated medical devices for the reduction and interception of bacterial infections. Biomaterials Science, 2020, 8, 1464-1477.	5.4	26
26	Volatile Organic Compound Vapour Measurements Using a Localised Surface Plasmon Resonance Optical Fibre Sensor Decorated with a Metal-Organic Framework. Sensors, 2021, 21, 1420.	3.8	25
27	Volatile Organic Compounds Sensing Using Optical Fibre Long Period Grating with Mesoporous Nano-Scale Coating. Sensors, 2017, 17, 205.	3.8	24
28	Multi-Parameter Optical Fiber Sensing of Gaseous Ammonia and Carbon Dioxide. Journal of Lightwave Technology, 2020, 38, 2037-2045.	4.6	23
29	Bacteriorhodopsin-based biochromic films for chemical sensors. Sensors and Actuators B: Chemical, 2005, 107, 77-81.	7.8	21
30	[INVITED] Porphyrin-nanoassembled fiber-optic gas sensor fabrication: Optimization of parameters for sensitive ammonia gas detection. Optics and Laser Technology, 2018, 101, 1-10.	4.6	21
31	Optical Fibre-Based Pulse Oximetry Sensor with Contact Force Detection. Sensors, 2018, 18, 3632.	3.8	20
32	A U-Shape Fibre-Optic pH Sensor Based on Hydrogen Bonding of Ethyl Cellulose With a Sol-Gel Matrix. Journal of Lightwave Technology, 2021, 39, 1557-1564.	4.6	20
33	Optical Gas Sensor Fabrication Based on Porphyrin-Anchored Electrostatic Self-Assembly onto Tapered Optical Fibers. Analytical Letters, 2012, 45, 1297-1309.	1.8	19
34	A Novel Ammonia Gas Sensor Using a Nanoassembled Polyelectrolyte Thin Film on Fiber-optic Long-period Gratings. Chemistry Letters, 2012, 41, 1297-1299.	1.3	17
35	Respiratory Monitoring by Porphyrin Modified Quartz Crystal Microbalance Sensors. Sensors, 2011, 11, 1177-1191.	3.8	15
36	A single-film fiber optical sensor for simultaneous measurement of carbon dioxide and relative humidity. Optics and Laser Technology, 2022, 147, 107696.	4.6	15

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37	Surface polymer imprinted optical fibre sensor for dose detection of dabrafenib. Analyst, The, 2020, 145, 4504-4511.	3.5	14
38	Novel Highly Sensitive Protein Sensors Based on Tapered Optical Fibres Modified with Au-Based Nanocoatings. Journal of Sensors, 2016, 2016, 1-11.	1.1	13
39	Carboxyl-fentanyl detection using optical fibre grating-based sensors functionalised with molecularly imprinted nanoparticles. Biosensors and Bioelectronics, 2021, 177, 113002.	10.1	13
40	A reflection-mode fibre-optic sensor for breath carbon dioxide measurement in healthcare. Sensing and Bio-Sensing Research, 2019, 22, 100254.	4.2	11
41	Development and validation of a novel fibre-optic respiratory rate sensor (FiRRS) integrated in oxygen delivery devices. Journal Physics D: Applied Physics, 2021, 54, 124002.	2.8	10
42	Response of bacteriorhodopsin thin films to ammonia. Sensors and Actuators B: Chemical, 2008, 129, 473-480.	7.8	9
43	A Textile Sleeve for Monitoring Oxygen Saturation Using Multichannel Optical Fibre Photoplethysmography. Sensors, 2020, 20, 6568.	3.8	9
44	Label-Free Creatinine Optical Sensing Using Molecularly Imprinted Titanium Dioxide-Polycarboxylic Acid Hybrid Thin Films: A Preliminary Study for Urine Sample Analysis. Chemosensors, 2021, 9, 185.	3.6	9
45	Chemically Functionalised Suspended-Core Fibre for Ammonia Gas Detection. Journal of Lightwave Technology, 2021, 39, 5197-5205.	4.6	9
46	Matrix influence on the optical response of composite bacteriorhodopsin films to ammonia. Sensors and Actuators B: Chemical, 2008, 133, 281-290.	7.8	8
47	Localised plasmonic hybridisation mode optical fibre sensing of relative humidity. Sensors and Actuators B: Chemical, 2022, 353, 131157.	7.8	8
48	Fibre-Optic Chemical Sensor Approaches Based on Nanoassembled Thin Films: A Challenge to Future Sensor Technology. , 2013, , .		7
49	Identification and quality assessment of beverages using a long period grating fibre-optic sensor modified with a mesoporous thin film. Sensing and Bio-Sensing Research, 2014, 1, 26-33.	4.2	7
50	All-optical switching based on optical fibre long period gratings modified bacteriorhodopsin. Optics and Laser Technology, 2018, 101, 162-171.	4.6	7
51	Real-Time Humidity Measurement during Sports Activity using Optical Fibre Sensing. Sensors, 2020, 20, 1904.	3.8	7
52	Optical Fibre Sensor for Capillary Refill Time and Contact Pressure Measurements under the Foot. Sensors, 2021, 21, 6072.	3.8	7
53	Simultaneous Monitoring of Humidity and Chemical Changes Using Quartz Crystal Microbalance Sensors Modified with Nano-thin Films. Analytical Sciences, 2011, 27, 253-258.	1.6	6
54	Optical Fibre Sensor for Simultaneous Measurement of Capillary Refill Time and Contact Pressure. Sensors, 2020, 20, 1388.	3.8	6

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55	Purge and Trap Sampling Coupled to Curie Point Thermal Desorption for the Detection of Parts per Trillion 2,4,6-Trichloroanisole in Water. Chromatographia, 2010, 71, 317-321.	1.3	5
56	Fabrication of Humidity-Resistant Optical Fiber Sensor for Ammonia Sensing Using Diazo Resin-Photocrosslinked Films with a Porphyrin-Polystyrene Binary Mixture. Sensors, 2021, 21, 6176.	3.8	5
57	A fiber-optic localized surface plasmon resonance (LSPR) sensor anchored with metal organic framework (HKUST-1) film for acetone sensing. , 2019, , .		5
58	(INVITED) Label-Free Detection of Antibodies Using Functionalised Long Period Grating Optical Fibre Sensors. Results in Optics, 2021, 5, 100172.	2.0	5
59	One-step Fabrication of Polystyrene–TiO2 Nanosandwich Film by Phase Separation. Chemistry Letters, 2012, 41, 552-554.	1.3	4
60	Long Period Grating Based Fibre Optic Chemical Sensors. Smart Sensors, Measurement and Instrumentation, 2017, , 241-267.	0.6	4
61	Long-period grating fiber-optic sensors exploiting molecularly imprinted TiO2 nanothin films with photocatalytic self-cleaning ability. Mikrochimica Acta, 2020, 187, 663.	5.0	4
62	Refractive index sensitivity of fibre optic long period gratings with SiO 2 nanoparticle based mesoporous coatings. Proceedings of SPIE, 2011, , .	0.8	3
63	Optical Fibre Long-Period Gratings Functionalised with Nano-Assembled Thin Films: Approaches to Chemical Sensing. , 2013, , .		3
64	Polymeric fibre optic sensor based on a SiO <sub>2</sub> nanoparticle film for humidity sensing on wounds. Proceedings of SPIE, 2016, , .	0.8	3
65	Highly sensitive ethanol vapour measurements using a fibre optic sensor coated with metal organic framework ZIF-8. , 2017, , .		3
66	Development of wearable optical-based fibre sensor system for pulse transit time measurement. AIP Conference Proceedings, 2020, , .	0.4	3
67	Optical fibre temperature sensor based on thermochromic liquid crystal. , 2019, , .		3
68	Fibre Bragg Grating Based Interface Pressure Sensor for Compression Therapy. Sensors, 2022, 22, 1798.	3.8	3
69	Sensors for spacecraft cabin environment monitoring. Acta Astronautica, 2007, 61, 664-667.	3.2	2
70	Fabrication of highly efficient fibre-optic gas sensors using SiO <inf>2</inf> /polymer nanoporous thin films. , 2008, , .		2
71	Fabrication of sensitive fibre-optic gas sensors based on nano-assembled thin films. , 2008, , .		2
72	Detection of the volatile organic compounds emitted from paints using optical fibre long period grating modified with the mesoporous nano-scale coating. Proceedings of SPIE, 2015, , .	0.8	2

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73	Interrogation of fibre Bragg gratings through a fibre optic rotary joint on a geotechnical centrifuge. , 2016, , .		2
74	Ammonia sensing using lossy mode resonances in a tapered optical fibre coated with porphyrin-incorporated titanium dioxide. Proceedings of SPIE, 2016, , .	0.8	2
75	Intra-tracheal multiplexed sensing of contact pressure and perfusion. Biomedical Optics Express, 2022, 13, 48.	2.9	2
76	Deposition of SiO2/polymer nanoporous thin films on long-period grating (LPG) optical fibres and dramatic enhancement of the resonance bands. , 2008, , .		1
77	Detection of Ethanol in Human Breath Using Optical Fiber Long Period Grating Coated with Metal-Organic Frameworks. Proceedings (mdpi), 2017, 1, .	0.2	1
78	A Preliminary Study for Tunable Optical Assessment of Exhaled Breath Ammonia Based on Ultrathin Tetrakis(4-sulfophenyl)porphine Nanoassembled Films. Chemosensors, 2021, 9, 269.	3.6	1
79	Fast and Sensitive Detection of 2,3-Dimethyldinitrobutane (DMNB) as an Explosive Taggant Using Corundum Based Integrated Electrochemical Chips. Sensor Letters, 2011, 9, 266-271.	0.4	1
80	Electrochemical Detection of the Explosive Taggant 2,3-Dimethyldinitrobutane using a Single-Walled Carbon Nanotube Employed TiO2 Composite Film. Nanoscience and Nanotechnology - Asia, 2012, 1, 47-52.	0.7	0
81	Detection of volatile organic compounds using optical fibre long period grating modified with metal organic framework thin films. Proceedings of SPIE, 2015, , .	0.8	Ο
82	FBG contact pressure sensitivity enhancement technology. , 2017, , .		0
83	Human IgM detection using an optical fibre long period grating sensor. , 2017, , .		0
84	Centrifuge application of fibre Bragg gratings: pile axial loads and wall bending moments. International Journal of Physical Modelling in Geotechnics, 0, , 1-16.	0.6	0
85	Ammonia Gas Detection Using an Optically Sensitive Hybrid Organic–Inorganic Multilayer Nanoporous Film. Advanced Science Letters, 2013, 19, 415-419.	0.2	0
86	Molecularly Imprinted Nanoparticles Based on Long Period Grating Sensor for Detection of Fentanyl. , 2018, , .		0
87	Detection of Dabrafenib using Optical Fibre Long Period Grating Sensor Modified with Surface Imprinted Polymers for Dose Detection and Prevention of Cancer Resistance. , 2020, , .		0
88	Development and Translation of intra-Tracheal Multiplexed Sensing Endotracheal Tubes (iTraXS). , 2020, , .		0