

Alexander J Thompson

List of Publications by Year in descending order

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34
papers

1,007
citations

687363

13
h-index

610901

24
g-index

36
all docs

36
docs citations

36
times ranked

1624
citing authors

#	ARTICLE	IF	CITATIONS
1	A case for improved assessment of gut permeability: a meta-analysis quantifying the lactulose:mannitol ratio in coeliac and Crohn's disease. <i>BMC Gastroenterology</i> , 2022, 22, 16.	2.0	12
2	Development of a compact fluorescence spectroscopy sensor for non-invasive monitoring gut function. , 2022, , .		0
3	Rapid uropathogen identification using surface enhanced Raman spectroscopy active filters. <i>Scientific Reports</i> , 2021, 11, 8802.	3.3	12
4	Plasmonic optical fiber for bacteria manipulation's characterization and visualization of accumulation behavior under plasmo-thermal trapping. <i>Biomedical Optics Express</i> , 2021, 12, 3917.	2.9	2
5	Understanding the role of the gut in undernutrition: what can technology tell us?. <i>Gut</i> , 2021, 70, 1580-1594.	12.1	12
6	Rapid, non-invasive measurement of gastric emptying rate using transcutaneous fluorescence spectroscopy. <i>Biomedical Optics Express</i> , 2021, 12, 4249.	2.9	4
7	Intestinal permeability and bacterial translocation in patients with liver disease, focusing on alcoholic aetiology: methods of assessment and therapeutic intervention. <i>Therapeutic Advances in Gastroenterology</i> , 2020, 13, 175628482094261.	3.2	18
8	Transcutaneous fluorescence spectroscopy as a tool for non-invasive monitoring of gut function: first clinical experiences. <i>Scientific Reports</i> , 2020, 10, 16169.	3.3	11
9	Fiber-Optic SERS Probes Fabricated Using Two-Photon Polymerization For Rapid Detection of Bacteria. <i>Advanced Optical Materials</i> , 2020, 8, 1901934.	7.3	49
10	Toward point-of-care uropathogen detection using SERS active filters. , 2020, , .		0
11	Towards development of fibre-optic surface enhanced Raman spectroscopy probes using 2-photon polymerisation for rapid detection of bacteria. , 2019, , .		2
12	A Monolithic Force-Sensitive 3D Microgripper Fabricated on the Tip of an Optical Fiber Using 2-Photon Polymerization. <i>Small</i> , 2018, 14, e1703964.	10.0	84
13	Surface functionalisation with viscosity-sensitive BODIPY molecular rotor. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 034001.	2.3	8
14	Fabrication of soft, stimulus-responsive structures with sub-micron resolution via two-photon polymerization of poly(ionic liquid)s. <i>Materials Today</i> , 2018, 21, 807-816.	14.2	57
15	Micro-scale fiber-optic force sensor fabricated using direct laser writing and calibrated using machine learning. <i>Optics Express</i> , 2018, 26, 14186.	3.4	29
16	The potential role of optical biopsy in the study and diagnosis of environmental enteric dysfunction. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017, 14, 727-738.	17.8	20
17	Shape sensing of miniature snake-like robots using optical fibers. , 2017, , .		9
18	Modelling and characterization of a compliant tethered microgripper for microsurgical applications. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Measuring the Viscosity of the Escherichia coli Plasma Membrane Using Molecular Rotors. Biophysical Journal, 2016, 111, 1528-1540.	0.5	75
20	Towards optical fibre based Raman spectroscopy for the detection of surgical site infection. , 2016, , .		0
21	Measurement of the Viscosity of E. coli Membranes using Molecular Rotors and Flim. Biophysical Journal, 2015, 108, 542a.	0.5	1
22	Complete parameterization of temporally and spectrally resolved laser induced fluorescence data with applications in bio-photonics. Chemometrics and Intelligent Laboratory Systems, 2015, 142, 95-106.	3.5	1
23	Molecular Rotors Provide Insights into Microscopic Structural Changes During Protein Aggregation. Journal of Physical Chemistry B, 2015, 119, 10170-10179.	2.6	36
24	Quantitative sensing of microviscosity in protocells and amyloid materials using fluorescence lifetime imaging of molecular rotors. , 2014, , .		3
25	Fatty acid membrane assembly on coacervate microdroplets as a step towards a hybrid protocell model. Nature Chemistry, 2014, 6, 527-533.	13.6	314
26	Salphen metal complexes as tunable G-quadruplex binders and optical probes. RSC Advances, 2014, 4, 3355-3363.	3.6	70
27	Fluorescence lifetime spectroscopy of tissue autofluorescence in normal and diseased colon measured ex vivo using a fiber-optic probe. Biomedical Optics Express, 2014, 5, 515.	2.9	54
28	Autofluorescence lifetime imaging and metrology for medical research and clinical diagnosis. , 2013, , .		0
29	Sa1609 Fluorescence Lifetime Imaging and Spectroscopy for Label-Free Contrast of Gastrointestinal Diseases. Gastrointestinal Endoscopy, 2012, 75, AB219-AB220.	1.0	1
30	<i>In vivo</i> measurements of diffuse reflectance and time-resolved autofluorescence emission spectra of basal cell carcinomas. Journal of Biophotonics, 2012, 5, 240-254.	2.3	29
31	Mo1546 Fluorescence Lifetime Imaging for Label-Free Contrast of Gastrointestinal Diseases. Gastrointestinal Endoscopy, 2011, 73, AB382.	1.0	0
32	Adaptive phase compensation for ultracompact laser scanning endomicroscopy. Optics Letters, 2011, 36, 1707.	3.3	85
33	Fluorescence lifetime imaging endoscopy. , 2011, , .		4
34	Hyperspectral fluorescence lifetime fibre probe spectroscopy for use in the study and diagnosis of osteoarthritis and skin cancer. , 2011, , .		2