Alexander J Thompson

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3585539/publications.pdf

Version: 2024-02-01

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	Fatty acid membrane assembly on coacervate microdroplets as a step towards a hybrid protocell model. Nature Chemistry, 2014, 6, 527-533.	13.6	314
2	Adaptive phase compensation for ultracompact laser scanning endomicroscopy. Optics Letters, 2011, 36, 1707.	3.3	85
3	A Monolithic Forceâ€Sensitive 3D Microgripper Fabricated on the Tip of an Optical Fiber Using 2â€Photon Polymerization. Small, 2018, 14, e1703964.	10.0	84
4	Measuring the Viscosity of the Escherichia coli Plasma Membrane Using Molecular Rotors. Biophysical Journal, 2016, 111, 1528-1540.	0.5	75
5	Salphen metal complexes as tunable G-quadruplex binders and optical probes. RSC Advances, 2014, 4, 3355-3363.	3.6	70
6	Fabrication of soft, stimulus-responsive structures with sub-micron resolution via two-photon polymerization of poly(ionic liquid)s. Materials Today, 2018, 21, 807-816.	14.2	57
7	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
8	Fiberâ€Optic SERS Probes Fabricated Using Twoâ€Photon Polymerization For Rapid Detection of Bacteria. Advanced Optical Materials, 2020, 8, 1901934.	7.3	49
9	Molecular Rotors Provide Insights into Microscopic Structural Changes During Protein Aggregation. Journal of Physical Chemistry B, 2015, 119, 10170-10179.	2.6	36
10	In vivo measurements of diffuse reflectance and timeâ€resolved autofluorescence emission spectra of basal cell carcinomas. Journal of Biophotonics, 2012, 5, 240-254.	2.3	29
11	Micro-scale fiber-optic force sensor fabricated using direct laser writing and calibrated using machine learning. Optics Express, 2018, 26, 14186.	3.4	29
12	The potential role of optical biopsy in the study and diagnosis of environmental enteric dysfunction. Nature Reviews Gastroenterology and Hepatology, 2017, 14, 727-738.	17.8	20
13	Intestinal permeability and bacterial translocation in patients with liver disease, focusing on alcoholic aetiology: methods of assessment and therapeutic intervention. Therapeutic Advances in Gastroenterology, 2020, 13, 175628482094261.	3.2	18
14	Rapid uropathogen identification using surface enhanced Raman spectroscopy active filters. Scientific Reports, 2021, 11, 8802.	3.3	12
15	Understanding the role of the gut in undernutrition: what can technology tell us?. Gut, 2021, 70, 1580-1594.	12.1	12
16	A case for improved assessment of gut permeability: a meta-analysis quantifying the lactulose:mannitol ratio in coeliac and Crohnâ€™s disease. BMC Gastroenterology, 2022, 22, 16.	2.0	12
17	Transcutaneous fluorescence spectroscopy as a tool for non-invasive monitoring of gut function: first clinical experiences. Scientific Reports, 2020, 10, 16169.	3.3	11
18	Shape sensing of miniature snake-like robots using optical fibers. , 2017, , .		9

#	Article	IF	Citations
19	Surface functionalisation with viscosity-sensitive BODIPY molecular rotor. Methods and Applications in Fluorescence, 2018, 6, 034001.	2.3	8
20	Fluorescence lifetime imaging endoscopy. , 2011, , .		4
21	Rapid, non-invasive measurement of gastric emptying rate using transcutaneous fluorescence spectroscopy. Biomedical Optics Express, 2021, 12, 4249.	2.9	4
22	Quantitative sensing of microviscosity in protocells and amyloid materials using fluorescence lifetime imaging of molecular rotors. , 2014, , .		3
23	Hyperspectral fluorescence lifetime fibre probe spectroscopy for use in the study and diagnosis of osteoarthritis and skin cancer. , 2011, , .		2
24	Plasmonic optical fiber for bacteria manipulationâ€"characterization and visualization of accumulation behavior under plasmo-thermal trapping. Biomedical Optics Express, 2021, 12, 3917.	2.9	2
25	Towards development of fibre-optic surface enhanced Raman spectroscopy probes using 2-photon polymerisation for rapid detection of bacteria. , 2019, , .		2
26	Sa1609 Fluorescence Lifetime Imaging and Spectroscopy for Label-Free Contrast of Gastrointestinal Diseases. Gastrointestinal Endoscopy, 2012, 75, AB219-AB220.	1.0	1
27	Measurement of the Viscosity of E. coli Membranes using Molecular Rotors and Flim. Biophysical Journal, 2015, 108, 542a.	0.5	1
28	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
29	Modelling and characterization of a compliant tethered microgripper for microsurgical applications. , 2017, , .		1
30	Mo1546 Fluorescence Lifetime Imaging for Label-Free Contrast of Gastrointestinal Diseases. Gastrointestinal Endoscopy, 2011, 73, AB382.	1.0	0
31	Autofluorescence lifetime imaging and metrology for medical research and clinical diagnosis. , 2013, , .		0
32	Towards optical fibre based Raman spectroscopy for the detection of surgical site infection. , 2016, , .		0
33	Toward point-of-care uropathogen detection using SERS active filters. , 2020, , .		0
34	Development of a compact fluorescence spectroscopy sensor for non-invasive monitoring gut function. , 2022, , .		0