

Silas J Leavesley

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

53
papers

602
citations

14
h-index

23
g-index

85
ext. papers

807
ext. citations

2.7
avg, IF

3.77
L-index

#	Paper	IF	Citations
53	Automated Image Analysis of FRET Signals for Subcellular cAMP Quantification.. <i>Methods in Molecular Biology</i> , 2022 , 2483, 167-180	1.4	
52	Ion Channel-Based Reporters for cAMP Detection.. <i>Methods in Molecular Biology</i> , 2022 , 2483, 265-279	1.4	
51	Extracellular vesicle-induced cyclic AMP signaling.. <i>Cellular Signalling</i> , 2022 , 110348	4.9	
50	Excitation-scanning hyperspectral video endoscopy: enhancing the light at the end of the tunnel. <i>Biomedical Optics Express</i> , 2021 , 12, 247-271	3.5	1
49	Suppression of Colon Tumorigenesis in Mutant Mice by a Novel PDE10 Inhibitor that Reduces Oncogenic β Catenin. <i>Cancer Prevention Research</i> , 2021 , 14, 995-1008	3.2	2
48	Phosphodiesterase 4 mediates interleukin-8-induced heterologous desensitization of the β -adrenergic receptor. <i>FASEB Journal</i> , 2021 , 35, e21946	0.9	
47	cAMP signaling primes lung endothelial cells to activate caspase-1 during infection. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L1074-L1083	5.8	3
46	Development of an endothelial cell-restricted transgenic reporter rat: a resource for physiological studies of vascular biology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H349-H358	5.2	4
45	Measurement of 3-Dimensional cAMP Distributions in Living Cells using 4-Dimensional (x, y, z, and λ) Hyperspectral FRET Imaging and Analysis. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	2
44	Label-free spectroscopic tissue characterization using fluorescence excitation-scanning spectral imaging. <i>Journal of Biophotonics</i> , 2020 , 13, e201900183	3.1	3
43	Cystatin C regulates the cytotoxicity of infection-induced endothelial-derived β amyloid. <i>FEBS Open Bio</i> , 2020 , 10, 2464-2477	2.7	1
42	Excitation-Scanning Hyperspectral Imaging Microscopy to Efficiently Discriminate Fluorescence Signals. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	3
41	Methods for Detecting Cytotoxic Amyloids Following Infection of Pulmonary Endothelial Cells by <i>Pseudomonas aeruginosa</i> . <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	5
40	Identifying molecular contributors to autofluorescence of neoplastic and normal colon sections using excitation-scanning hyperspectral imaging. <i>Journal of Biomedical Optics</i> , 2018 , 24, 1-11	3.5	10
39	Applications and assessment of an excitation-scanning hyperspectral imaging system. <i>Proceedings of SPIE</i> , 2018 , 10497,	1.7	1
38	Demystifying autofluorescence with excitation-scanning hyperspectral imaging. <i>Proceedings of SPIE</i> , 2018 , 10497,	1.7	2
37	Colorectal cancer detection by hyperspectral imaging using fluorescence excitation scanning. <i>Proceedings of SPIE</i> , 2018 , 10489,	1.7	3

36	A theoretical-experimental methodology for assessing the sensitivity of biomedical spectral imaging platforms, assays, and analysis methods. <i>Journal of Biophotonics</i> , 2018 , 11, e201600227	3.1	1
35	Nosocomial Pneumonia Elicits an Endothelial Proteinopathy: Evidence for a Source of Neurotoxic Amyloids in Critically Ill Patients. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 1575-1578	10.2	10
34	Human ASIC1a mediates stronger acid-induced responses as compared with mouse ASIC1a. <i>FASEB Journal</i> , 2018 , 32, 3832-3843	0.9	15
33	Spectral imaging of FRET-based sensors reveals sustained cAMP gradients in three spatial dimensions. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018 , 93, 1029-1038	4.6	12
32	Excitation-Scanning Hyperspectral Imaging as a Means to Discriminate Various Tissues Types. <i>Proceedings of SPIE</i> , 2017 , 10068,	1.7	1
31	Comparing Methods for Analysis of Biomedical Hyperspectral Image Data. <i>Proceedings of SPIE</i> , 2017 , 10068,	1.7	1
30	infection liberates transmissible, cytotoxic prion amyloids. <i>FASEB Journal</i> , 2017 , 31, 2785-2796	0.9	18
29	Optimization and applications of an excitation-scanning hyperspectral imaging system. <i>Proceedings of SPIE</i> , 2017 , 10076,	1.7	1
28	Hyperspectral imaging fluorescence excitation scanning for colon cancer detection. <i>Journal of Biomedical Optics</i> , 2016 , 21, 104003	3.5	37
27	LED-based endoscopic light source for spectral imaging. <i>Proceedings of SPIE</i> , 2016 , 9703,	1.7	1
26	Three dimensional measurement of cAMP gradients using hyperspectral confocal microscopy. <i>Proceedings of SPIE</i> , 2016 , 9713,	1.7	2
25	Hyperspectral Imaging Fluorescence Excitation Scanning for Detecting Colorectal Cancer: Pilot Study. <i>Proceedings of SPIE</i> , 2016 , 9703,	1.7	2
24	Excitation-Scanning Hyperspectral Imaging System for Microscopic and Endoscopic Applications. <i>Proceedings of SPIE</i> , 2016 , 9711,	1.7	1
23	Overcoming limitations of FRET measurements. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2016 , 89, 325-7	4.6	41
22	Feasibility for detection of autofluorescent signatures in rat organs using a novel excitation-scanning hyperspectral imaging system. <i>Proceedings of SPIE</i> , 2016 , 9711,	1.7	2
21	Modification of Fibers with Nanostructures Using Reactive Dye Chemistry. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3821-3827	3.9	29
20	Estimating the magnitude of near-membrane PDE4 activity in living cells. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 309, C415-24	5.4	8
19	Automated image analysis of FRET signals for subcellular cAMP quantification. <i>Methods in Molecular Biology</i> , 2015 , 1294, 59-70	1.4	11

18	Channel-based reporters for cAMP detection. <i>Methods in Molecular Biology</i> , 2015 , 1294, 71-84	1.4	3
17	Can we decipher the information content contained within cyclic nucleotide signals?. <i>Journal of General Physiology</i> , 2014 , 143, 17-27	3.4	30
16	FRET: signals hidden within the noise. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2014 , 85, 918-20	4.6	4
15	Thin-film tunable filters for hyperspectral fluorescence microscopy. <i>Journal of Biomedical Optics</i> , 2014 , 19, 011017	3.5	35
14	A device for performing automated balloon catheter inflation ischemia studies. <i>PLoS ONE</i> , 2014 , 9, e95833	3.7	1
13	Excitation-scanning hyperspectral imaging microscope. <i>Journal of Biomedical Optics</i> , 2014 , 19, 046010	3.5	34
12	Assessing FRET using spectral techniques. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013 , 83, 898-912	4.6	37
11	Tunable thin-film optical filters for hyperspectral microscopy. <i>Proceedings of SPIE</i> , 2013 , 8589,	1.7	3
10	Hyperspectral imaging of FRET-based cGMP probes. <i>Methods in Molecular Biology</i> , 2013 , 1020, 73-88	1.4	10
9	An approach for characterizing and comparing hyperspectral microscopy systems. <i>Sensors</i> , 2013 , 13, 9267-93	3.8	23
8	Hyperspectral imaging microscopy for identification and quantitative analysis of fluorescently-labeled cells in highly autofluorescent tissue. <i>Journal of Biophotonics</i> , 2012 , 5, 67-84	3.1	62
7	Assessment of cellular mechanisms contributing to cAMP compartmentalization in pulmonary microvascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C839-52	5.4	48
6	State of the Art in Information Extraction and Quantitative Analysis for Multimodality Biomolecular Imaging. <i>Proceedings of the IEEE</i> , 2008 , 96, 512-531	14.3	7
5	An excitation wavelength-scanning spectral imaging system for preclinical imaging. <i>Review of Scientific Instruments</i> , 2008 , 79, 023707	1.7	21
4	Design of a wavelength-tunable light source using an acousto-optic tunable filter 2007 ,		1
3	Interactions Between Chemical Functionality and Nanoscale Surface Topography Impact Fibronectin Conformation and Neuronal Differentiation on Model Sol-gel Silica Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 950, 1		
2	Sol-gel derived materials as substrates for neuronal differentiation: effects of surface features and protein conformation. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3221		32
1	Multispectral imaging analysis: spectral deconvolution and applications in biology 2005 ,		2

