

Jerilyn A Timlin

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,078
citations

257450

24
h-index

214800

47
g-index

65
all docs

65
docs citations

65
times ranked

4425
citing authors

#	ARTICLE	IF	CITATIONS
1	Delivering CRISPR: a review of the challenges and approaches. <i>Drug Delivery</i> , 2018, 25, 1234-1257.	5.7	776
2	Mapping behaviorally relevant neural circuits with immediate-early gene expression. <i>Current Opinion in Neurobiology</i> , 2005, 15, 599-606.	4.2	349
3	Raman Spectroscopic Imaging Markers for Fatigue-Related Microdamage in Bovine Bone. <i>Analytical Chemistry</i> , 2000, 72, 2229-2236.	6.5	185
4	<i>In vivo</i> hyperspectral confocal fluorescence imaging to determine pigment localization and distribution in cyanobacterial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4050-4055.	7.1	158
5	Hyperspectral confocal microscope. <i>Applied Optics</i> , 2006, 45, 6283.	2.1	130
6	Carotenoid Distribution in Living Cells of <i>Haematococcus pluvialis</i> (Chlorophyceae). <i>PLoS ONE</i> , 2011, 6, e24302.	2.5	124
7	Multifunctional, Tunable Metal-Organic Framework Materials Platform for Bioimaging Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22268-22277.	8.0	122
8	Gene editing and CRISPR in the clinic: current and future perspectives. <i>Bioscience Reports</i> , 2020, 40, .	2.4	122
9	Chemical Microstructure of Cortical Bone Probed by Raman Transects. <i>Applied Spectroscopy</i> , 1999, 53, 1429-1435.	2.2	110
10	Spatial Distribution of Phosphate Species in Mature and Newly Generated Mammalian Bone by Hyperspectral Raman Imaging. <i>Journal of Biomedical Optics</i> , 1999, 4, 28.	2.6	92
11	Design, construction, characterization, and application of a hyperspectral microarray scanner. <i>Applied Optics</i> , 2004, 43, 2079.	2.1	74
12	Photosynthetic Pigment Localization and Thylakoid Membrane Morphology Are Altered in <i>Synechocystis</i> 6803 Phycobilisome Mutants. <i>Plant Physiology</i> , 2012, 158, 1600-1609.	4.8	65
13	Identification and removal of contaminating fluorescence from commercial and in-house printed DNA microarrays. <i>Nucleic Acids Research</i> , 2003, 31, 18e-18.	14.5	54
14	Lateral Segregation of Photosystem I in Cyanobacterial Thylakoids. <i>Plant Cell</i> , 2017, 29, 1119-1136.	6.6	54
15	Formation of a Mast Cell Synapse: Fc μ RI Membrane Dynamics upon Binding Mobile or Immobilized Ligands on Surfaces. <i>Journal of Immunology</i> , 2010, 184, 1328-1338.	0.8	51
16	A complex carotenoid palette tunes avian colour vision. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150563.	3.4	49
17	Advanced Optical Imaging Reveals the Dependence of Particle Geometry on Interactions Between CdSe Quantum Dots and Immune Cells. <i>Small</i> , 2011, 7, 334-341.	10.0	39
18	Multiple microscopic approaches demonstrate linkage between chromoplast architecture and carotenoid composition in diverse <i>Capsicum annuum</i> fruit. <i>Plant Journal</i> , 2013, 76, 1074-1083.	5.7	38

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19	Preprocessing strategies to improve MCR analyses of hyperspectral images. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 117, 149-158.	3.5	34
20	Hyperspectral microarray scanning: impact on the accuracy and reliability of gene expression data. <i>BMC Genomics</i> , 2005, 6, 72.	2.8	33
21	Advanced imaging of multiple mRNAs in brain tissue using a custom hyperspectral imager and multivariate curve resolution. <i>Journal of Neuroscience Methods</i> , 2007, 160, 144-148.	2.5	32
22	Probing the consequences of antenna modification in cyanobacteria. <i>Photosynthesis Research</i> , 2013, 118, 17-24.	2.9	29
23	[6] Scanning Microarrays: Current Methods and Future Directions. <i>Methods in Enzymology</i> , 2006, 411, 79-98.	1.0	27
24	Characterization of Differential Toll-like Receptor Responses below the Optical Diffraction Limit. <i>Small</i> , 2012, 8, 3041-3049.	10.0	26
25	Subcellular pigment distribution is altered under far-red light acclimation in cyanobacteria that contain chlorophyll f. <i>Photosynthesis Research</i> , 2017, 134, 183-192.	2.9	24
26	Multivariate curve resolution for hyperspectral image analysis: applications to microarray technology. , 2003, 4959, 55.		21
27	Population-level coordination of pigment response in individual cyanobacterial cells under altered nitrogen levels. <i>Photosynthesis Research</i> , 2017, 134, 165-174.	2.9	20
28	Distribution and Dynamics of Rat Basophilic Leukemia Immunoglobulin E Receptors (FcεRI) on Planar Ligand-Presenting Surfaces. <i>Biophysical Journal</i> , 2010, 99, 388-397.	0.5	19
29	Hyperspectral fluorescence microscopy detects autofluorescent factors that can be exploited as a diagnostic method for <i>Candida</i> species differentiation. <i>Journal of Biomedical Optics</i> , 2017, 22, 016002.	2.6	19
30	Amphiphilic block copolymers as flexible membrane materials generating structural and functional mimics of green bacterial antenna complexes. <i>Nanoscale</i> , 2016, 8, 15056-15063.	5.6	18
31	Spectroscopic evaluation of living murine macrophage cells before and after activation using attenuated total reflectance infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2004, 34, 3-11.	2.2	16
32	Spectroradiometric Monitoring of <i>Nannochloropsis salina</i> Growth. <i>Algal Research</i> , 2012, 1, 22-31.	4.6	16
33	Label-free measurement of algal triacylglyceride production using fluorescence hyperspectral imaging. <i>Algal Research</i> , 2014, 5, 181-189.	4.6	14
34	Cellular localization of tolyporphins, unusual tetrapyrroles, in a microbial photosynthetic community determined using hyperspectral confocal fluorescence microscopy. <i>Photosynthesis Research</i> , 2019, 141, 259-271.	2.9	13
35	Accurate Detection of Low Levels of Fluorescence Emission in Autofluorescent Background: <i>Francisella</i> -Infected Macrophage Cells. <i>Microscopy and Microanalysis</i> , 2010, 16, 478-487.	0.4	12
36	On-line stable isotope gas exchange reveals an inducible but leaky carbon concentrating mechanism in <i>Nannochloropsis salina</i> . <i>Photosynthesis Research</i> , 2014, 121, 311-322.	2.9	12

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37	Assay for lignin breakdown based on lignin films: insights into the Fenton reaction with insoluble lignin. <i>Green Chemistry</i> , 2015, 17, 4830-4845.	9.0	10
38	Internalization and accumulation of model lignin breakdown products in bacteria and fungi. <i>Biotechnology for Biofuels</i> , 2019, 12, 175.	6.2	10
39	Carbon Sequestration in <i>Synechococcus</i> Sp.: From Molecular Machines to Hierarchical Modeling. <i>OMICS A Journal of Integrative Biology</i> , 2002, 6, 305-330.	2.0	9
40	Algorithms for constrained linear unmixing with application to the hyperspectral analysis of fluorophore mixtures. , 2002, , .		8
41	Spectroradiometric monitoring for open outdoor culturing of algae and cyanobacteria. <i>Applied Optics</i> , 2014, 53, F31.	1.8	8
42	Spectroradiometric detection of competitor diatoms and the grazer <i>Poterochromonas</i> in algal cultures. <i>Algal Research</i> , 2020, 51, 102020.	4.6	8
43	Dynamics of cellular activation as revealed by attenuated total reflectance infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2009, 50, 78-85.	2.2	5
44	Removing Cosmic Spikes Using a Hyperspectral Upper-Bound Spectrum Method. <i>Applied Spectroscopy</i> , 2017, 71, 507-519.	2.2	5
45	Imaging multiple endogenous and exogenous fluorescent species in cells and tissues. , 2006, , .		3
46	Host cell pigmentation in <i>Scenedesmus dimorphus</i> as a beacon for nascent parasite infection. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1748-1757.	3.3	3
47	Experimental and Data Analytical Approaches to Automating Multivariate Curve Resolution in the Analysis of Hyperspectral Images. <i>Data Handling in Science and Technology</i> , 2016, 30, 381-408.	3.1	3
48	Localizing and Quantifying Carotenoids in Intact Cells and Tissues. , 0, , .		3
49	CasCollect: targeted assembly of CRISPR-associated operons from high-throughput sequencing data. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqaa063.	3.2	2
50	Tracking Early Infection Events of the Chlorella Virus PBCV-1 with Hyperspectral Confocal Microscopy. <i>Microscopy and Microanalysis</i> , 2012, 18, 226-227.	0.4	1
51	Dynamics and Interactions of Individual Proteins in the Membrane of Single, Living Cells. <i>Methods in Molecular Biology</i> , 2015, 1346, 185-207.	0.9	1
52	Infrared ATR: a probe for cellular activation. , 2002, 4577, 40.		0
53	Spatial and Temporal Interactions of TLR4 Pathway Membrane Components Revealed by Total Internal Reflection Fluorescence (TIRF) Microscopy. <i>Microscopy and Microanalysis</i> , 2008, 14, 1510-1511.	0.4	0
54	Spectral Image Aberration Correction Using Image Transformations. <i>Microscopy and Microanalysis</i> , 2008, 14, 600-601.	0.4	0

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55	Accurate measurement of cellular autofluorescence is critical for imaging of host-pathogen interactions. , 2008, , .		0
56	Imaging Adaptive Immune Response in Single Cells using TIRF Microscopy. Microscopy and Microanalysis, 2009, 15, 858-859.	0.4	0
57	Fluorescence fluctuation analysis of mixed chromophores from a line-scanning hyperspectral imaging system. Proceedings of SPIE, 2010, , .	0.8	0
58	Nanotoxicology: Advanced Optical Imaging Reveals the Dependence of Particle Geometry on Interactions Between CdSe Quantum Dots and Immune Cells (Small 3/2011). Small, 2011, 7, 333-333.	10.0	0
59	Receptor Reorganization during Immune Response: Visualization at the Nanoscale. Microscopy and Microanalysis, 2012, 18, 140-141.	0.4	0
60	Stochastic Optical Reconstruction Microscopy Optimization for Investigating Innate Immune Response. Microscopy and Microanalysis, 2012, 18, 158-159.	0.4	0
61	Spectroradiometric Monitoring of Open Algal Cultures. , 2013, , .		0
62	Hyperspectral Bioindicators of Heavy Metal Exposure in Tall Fescue. Microscopy and Microanalysis, 2021, 27, 3190-3191.	0.4	0
63	Imaging effectiveness calculator for non-design microscope samples. Applied Optics, 2019, 58, 6027.	1.8	0
64	Susceptibility of two saltwater strains of <i>Chlorella sorokiniana</i> to <i>Vampirovibrio chlorellavorus</i> . Journal of Applied Phycology, 2022, 34, 81-87.	2.8	0