

Quentin S Hanley

List of Publications by Year in descending order

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67
papers

2,104
citations

279798

23
h-index

233421

45
g-index

71
all docs

71
docs citations

71
times ranked

1812
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphical representation and multicomponent analysis of single-frequency fluorescence lifetime imaging microscopy data. <i>Journal of Microscopy</i> , 2004, 213, 1-5.	1.8	213
2	Dynamic Fluorescence Anisotropy Imaging Microscopy in the Frequency Domain (rFLIM). <i>Biophysical Journal</i> , 2002, 83, 1631-1649.	0.5	201
3	Pulmonary Function Changes in Children Associated with Fine Particulate Matter. <i>Environmental Research</i> , 1993, 63, 26-38.	7.5	165
4	An optical sectioning programmable array microscope implemented with a digital micromirror device. <i>Journal of Microscopy</i> , 1999, 196, 317-331.	1.8	113
5	Fluorescence lifetime imaging: multi-point calibration, minimum resolvable differences, and artifact suppression. <i>Cytometry</i> , 2001, 43, 248-260.	1.8	112
6	Prior Exposure to Ozone Potentiates Subsequent Response to Sulfur Dioxide in Adolescent Asthmatic Subjects. <i>The American Review of Respiratory Disease</i> , 1990, 141, 377-380.	2.9	103
7	Theory of confocal fluorescence imaging in the programmable array microscope (PAM). <i>Journal of Microscopy</i> , 1998, 189, 192-198.	1.8	88
8	Resolution enhancement by subtraction of confocal signals taken at different pinhole sizes. <i>Micron</i> , 2003, 34, 293-300.	2.2	85
9	City size and the spreading of COVID-19 in Brazil. <i>PLoS ONE</i> , 2020, 15, e0239699.	2.5	83
10	Spectrally Resolved Fluorescence Lifetime Imaging Microscopy. <i>Applied Spectroscopy</i> , 2002, 56, 155-166.	2.2	80
11	AB-plot assisted determination of fluorophore mixtures in a fluorescence lifetime microscope using spectra or quenchers. <i>Journal of Microscopy</i> , 2005, 218, 62-67.	1.8	65
12	A dual path programmable array microscope (PAM): simultaneous acquisition of conjugate and non-conjugate images. <i>Journal of Microscopy</i> , 2002, 204, 119-135.	1.8	62
13	Spectral Imaging in a Programmable Array Microscope by Hadamard Transform Fluorescence Spectroscopy. <i>Applied Spectroscopy</i> , 1999, 53, 1-10.	2.2	58
14	Optical Sectioning Fluorescence Spectroscopy in a Programmable Array Microscope. <i>Applied Spectroscopy</i> , 1998, 52, 783-789.	2.2	51
15	Peer Reviewed: Charge-Transfer Devices in Analytical Instrumentation. <i>Analytical Chemistry</i> , 1996, 68, 661A-667A.	6.5	48
16	Response of Young Asthmatic Patients to Inhaled Sulfuric Acid. <i>The American Review of Respiratory Disease</i> , 1992, 145, 326-331.	2.9	33
17	Three-dimensional spectral imaging by Hadamard transform spectroscopy in a programmable array microscope. <i>Journal of Microscopy</i> , 2000, 197, 5-14.	1.8	33
18	[6] Photophysics of green and red fluorescent proteins: Implications for quantitative microscopy. <i>Methods in Enzymology</i> , 2003, 360, 178-201.	1.0	30

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19	When One Plus One Does Not Equal Two: Fluorescence Anisotropy in Aggregates and Multiply Labeled Proteins. <i>Biophysical Journal</i> , 2014, 106, 1457-1466.	0.5	29
20	Rural to Urban Population Density Scaling of Crime and Property Transactions in English and Welsh Parliamentary Constituencies. <i>PLoS ONE</i> , 2016, 11, e0149546.	2.5	27
21	Trace nitrate in oxic waters. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1992, 39, 1329-1347.	1.5	26
22	Fluctuation Scaling, Taylor's Law, and Crime. <i>PLoS ONE</i> , 2014, 9, e109004.	2.5	25
23	Lanthanide doped silica nanoparticles applied to multiplexed immunoassays. <i>Analyst, The</i> , 2010, 135, 2132.	3.5	24
24	Masking, Photobleaching, and Spreading Effects in Hadamard Transform Imaging and Spectroscopy Systems. <i>Applied Spectroscopy</i> , 2001, 55, 318-330.	2.2	21
25	Fluorescence lifetime imaging in an optically sectioning programmable array microscope (PAM). <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005, 67A, 112-118.	1.5	21
26	The effects of ozone exposure on lactate dehydrogenase release from human and primate respiratory epithelial cells. <i>Toxicology Letters</i> , 1994, 70, 203-209.	0.8	20
27	Spectrally Resolved Frequency Domain Analysis of Multi-Fluorophore Systems Undergoing Energy Transfer. <i>Applied Spectroscopy</i> , 2006, 60, 1442-1452.	2.2	20
28	Selective photoreactions in a programmable array microscope (PAM): Photoinitiated polymerization, photodecaging, and photochromic conversion. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005, 67A, 68-75.	1.5	18
29	Spectrally resolved fluorescent lifetime imaging. <i>Journal of the Royal Society Interface</i> , 2009, 6, .	3.4	17
30	Following FRET through five energy transfer steps: spectroscopic photobleaching, recovery of spectra, and a sequential mechanism of FRET. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 609.	2.9	16
31	Microspectroscopic fluorescence analysis with prism-based imaging spectrometers: Review and current studies. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2006, 69A, 759-766.	1.5	15
32	PNA-Induced Assembly of Fluorescent Proteins Using DNA as a Framework. <i>Bioconjugate Chemistry</i> , 2013, 24, 1378-1386.	3.6	15
33	Quantitative Imaging in the Laboratory: Fast Kinetics and Fluorescence Quenching. <i>Journal of Chemical Education</i> , 2007, 84, 1319.	2.3	12
34	Imaging lifetime and anisotropy spectra in the frequency domain. <i>Journal of Microscopy</i> , 2009, 234, 80-88.	1.8	12
35	Acute Pulmonary Effects of Nitrogen Dioxide Exposure During Exercise in Competitive Athletes. <i>Chest</i> , 1991, 99, 815-819.	0.8	11
36	Effects of Sulfur Dioxide Exposure on African-American and Caucasian Asthmatics. <i>Environmental Research</i> , 1994, 66, 1-11.	7.5	11

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37	Highly Multiplexed Optically Sectioned Spectroscopic Imaging in a Programmable Array Microscope. <i>Applied Spectroscopy</i> , 2001, 55, 1115-1123.	2.2	11
38	The nature of the silicaphilic fluorescence of PDMPO. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5938-5948.	2.8	11
39	Unveiling relationships between crime and property in England and Wales via density scale-adjusted metrics and network tools. <i>PLoS ONE</i> , 2018, 13, e0192931.	2.5	10
40	An Internal Standardization Procedure for Spectrally Resolved Fluorescence Lifetime Imaging. <i>Applied Spectroscopy</i> , 2005, 59, 261-266.	2.2	8
41	Controlled Assembly of SNAP-PNA Fluorophore Systems on DNA Templates To Produce Fluorescence Resonance Energy Transfer. <i>Bioconjugate Chemistry</i> , 2014, 25, 1820-1828.	3.6	8
42	The Distribution of Standard Deviations Applied to High Throughput Screening. <i>Scientific Reports</i> , 2019, 9, 1268.	3.3	8
43	Population density and spreading of COVID-19 in England and Wales. <i>PLoS ONE</i> , 2022, 17, e0261725.	2.5	8
44	Chapter 2 Frequency domain FLIM theory, instrumentation, and data analysis. <i>Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work</i> , 2009, 33, 59-94.	0.2	7
45	Rural-urban scaling of age, mortality, crime and property reveals a loss of expected self-similar behaviour. <i>Scientific Reports</i> , 2020, 10, 16863.	3.3	6
46	The hidden traits of endemic illiteracy in cities. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 515, 566-574.	2.6	5
47	Statistical models for identifying frequent hitters in high throughput screening. <i>Scientific Reports</i> , 2020, 10, 17200.	3.3	5
48	Compound specific isotope analysis (CSIA) of phthalates and non-targeted isotope analysis (NTIA) of SPE-extractable organic carbon in dilute aquatic environments. <i>Environmental Advances</i> , 2021, 4, 100050.	4.8	5
49	Application of Energy-Resolved Measurements to Laue Diffraction: Determination of Unit-Cell Parameters, Deconvolution of Harmonics and Assignment of Systematic Absences. <i>Journal of Synchrotron Radiation</i> , 1997, 4, 214-222.	2.4	4
50	Advances in array detectors for X-ray diffraction techniques. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 618-625.	2.4	4
51	Confocal detection of planar homogeneous and heterogeneous immunosorbent assays. <i>Journal of Biomedical Optics</i> , 2009, 14, 064022.	2.6	4
52	Analysis of layered assays and volume microarrays in stratified media. <i>Analyst, The</i> , 2012, 137, 5520.	3.5	4
53	Effects of Theophylline on Sulfur Dioxide-Induced Bronchoconstriction in Asthmatic Subjects. <i>Pediatric Asthma, Allergy and Immunology</i> , 1989, 3, 147-155.	0.2	3
54	Fourier Transforms Simplified: Computing an Infrared Spectrum from an Interferogram. <i>Journal of Chemical Education</i> , 2012, 89, 391-396.	2.3	3

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55	Macromolecular binding and kinetic analysis with optically sectioned planar format assays. <i>Analyst, The</i> , 2012, 137, 4809.	3.5	3
56	Chemical Measurement and Fluctuation Scaling. <i>Analytical Chemistry</i> , 2016, 88, 12036-12042.	6.5	3
57	Platform for Screening Abiotic/Biotic Interactions Using Indicator Displacement Assays. <i>Langmuir</i> , 2019, 35, 14230-14237.	3.5	3
58	When $R \ll \lambda$ and $\lambda \ll 0.8R$: fluorescence anisotropy, non-additive intensity, and cluster size. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 024006.	2.3	2
59	Evaluation of Charge-Injection Devices for Use in Laue Diffraction Imaging. <i>Journal of Synchrotron Radiation</i> , 1995, 2, 215-228.	2.4	1
60	A Foil-Mask Spectrometer for Laue Pattern Imaging: Simultaneous Position, Intensity and Energy. <i>Journal of Synchrotron Radiation</i> , 1996, 3, 101-111.	2.4	1
61	Programmable Array Microscopes. <i>Microscopy Today</i> , 2001, 9, 8-13.	0.3	1
62	Fluorescence Spectroscopy, Imaging and Probes: New Tools in Chemical Physical, and Life Sciences. <i>Journal of Microscopy</i> , 2003, 212, 212-213.	1.8	1
63	Virtual Column Method for Correcting Masking Effects in Hadamard Transform Systems. <i>Applied Spectroscopy</i> , 2003, 57, 1305-1312.	2.2	1
64	Fluctuation Scaling, Calibration of Dispersion, and Detection of Differences. <i>Analytical Chemistry</i> , 2017, 89, 11568-11575.	6.5	1
65	Kinetic Analysis and Binding Studies of Proteins Bound to Planar Surfaces with CLSM. <i>Biophysical Journal</i> , 2012, 102, 197a.	0.5	0
66	Fluorescence Anisotropy in a Protein: DNA System Undergoing Inducible Assembly. <i>Biophysical Journal</i> , 2013, 104, 394a-395a.	0.5	0
67	Enhancement, Equal Fluorescence Efficiency, and Quenching in the Interpretation of Fluorescence Anisotropy Data. <i>Biophysical Journal</i> , 2014, 106, 680a.	0.5	0