

E Neil Lewis

List of Publications by Year in descending order

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55
papers

2,753
citations

218677

26
h-index

276875

41
g-index

63
all docs

63
docs citations

63
times ranked

2014
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourier Transform Spectroscopic Imaging Using an Infrared Focal-Plane Array Detector. <i>Analytical Chemistry</i> , 1995, 67, 3377-3381.	6.5	425
2	Near-infrared spectral imaging for quality assurance of pharmaceutical products: Analysis of tablets to assess powder blend homogeneity. <i>AAPS PharmSciTech</i> , 2002, 3, 1-15.	3.3	239
3	Infrared Spectroscopic Imaging: From Planetary to Cellular Systems. <i>Applied Spectroscopy</i> , 1998, 52, 106A-120A.	2.2	158
4	Imaging of collagen and proteoglycan in cartilage sections using Fourier transform infrared spectral imaging. <i>Arthritis and Rheumatism</i> , 2001, 44, 846-855.	6.7	142
5	Visualization of silicone gel in human breast tissue using new infrared imaging spectroscopy. <i>Nature Medicine</i> , 1997, 3, 235-237.	30.7	127
6	Indium Antimonide (InSb) Focal Plane Array (FPA) Detection for Near-Infrared Imaging Microscopy. <i>Applied Spectroscopy</i> , 1994, 48, 607-615.	2.2	111
7	High-Fidelity Fourier Transform Infrared Spectroscopic Imaging of Primate Brain Tissue. <i>Applied Spectroscopy</i> , 1996, 50, 263-269.	2.2	106
8	High-Fidelity Raman Imaging Spectrometry: A Rapid Method Using an Acousto-Optic Tunable Filter. <i>Applied Spectroscopy</i> , 1992, 46, 1211-1216.	2.2	101
9	Characterization of Colorectal Adenocarcinoma Sections by Spatially Resolved FT-IR Microspectroscopy. <i>Applied Spectroscopy</i> , 2002, 56, 1-9.	2.2	97
10	Concomitant Raman spectroscopy and dynamic light scattering for characterization of therapeutic proteins at high concentrations. <i>Analytical Biochemistry</i> , 2015, 472, 7-20.	2.4	85
11	Mercury cadmium telluride focal-plane array detection for mid-infrared Fourier-transform spectroscopic imaging. <i>Optics Letters</i> , 1997, 22, 742.	3.3	82
12	Near-infrared spectral imaging for quality assurance of pharmaceutical products: Analysis of tablets to assess powder blend homogeneity. <i>AAPS PharmSciTech</i> , 2002, 3, 1-15.	3.3	82
13	Raman Chemical Imaging: Histopathology of Inclusions in Human Breast Tissue. <i>Analytical Chemistry</i> , 1996, 68, 1829-1833.	6.5	81
14	Near-Infrared Acousto-Optic Filtered Spectroscopic Microscopy: A Solid-State Approach to Chemical Imaging. <i>Applied Spectroscopy</i> , 1992, 46, 553-559.	2.2	80
15	Real-Time, Mid-Infrared Spectroscopic Imaging Microscopy Using Indium Antimonide Focal-Plane Array Detection. <i>Applied Spectroscopy</i> , 1995, 49, 672-678.	2.2	67
16	Near-infrared Fourier-transform Raman spectroscopy using fiber-optic assemblies. <i>Analytical Chemistry</i> , 1988, 60, 2658-2661.	6.5	64
17	A Miniaturized, No-Moving-Parts Raman Spectrometer. <i>Applied Spectroscopy</i> , 1993, 47, 539-543.	2.2	56
18	Bacterial identification by near-infrared chemical imaging of food-specific cards. <i>Food Microbiology</i> , 2005, 22, 577-583.	4.2	54

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19	Classification of Fourier Transform Infrared Microscopic Imaging Data of Human Breast Cells by Cluster Analysis and Artificial Neural Networks. <i>Applied Spectroscopy</i> , 2003, 57, 14-22.	2.2	53
20	A near Infrared View of Pharmaceutical Formulation Analysis. <i>NIR News</i> , 2001, 12, 16-18.	0.3	52
21	FT-IR imaging of polymers: an industrial appraisal. <i>Vibrational Spectroscopy</i> , 2002, 30, 43-52.	2.2	47
22	Combined Dynamic Light Scattering and Raman Spectroscopy Approach for Characterizing the Aggregation of Therapeutic Proteins. <i>Molecules</i> , 2014, 19, 20888-20905.	3.8	34
23	Aggregate structure, morphology and the effect of aggregation mechanisms on viscosity at elevated protein concentrations. <i>Biophysical Chemistry</i> , 2015, 207, 21-29.	2.8	34
24	Infrared Spectroscopic Imaging of the Biochemical Modifications Induced in the Cerebellum of the Niemann-Pick type C Mouse. <i>Journal of Biomedical Optics</i> , 1999, 4, 7.	2.6	33
25	Si: As Focal-Plane Array Detection for Fourier Transform Spectroscopic Imaging in the Infrared Fingerprint Region. <i>Applied Spectroscopy</i> , 1997, 51, 563-567.	2.2	30
26	Characterization of Sizes of Aggregates of Insulin Analogs and the Conformations of the Constituent Protein Molecules: A Concomitant Dynamic Light Scattering and Raman Spectroscopy Study. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 551-558.	3.3	29
27	Development of Near-Infrared Fourier Transform Raman Spectroscopy for the Study of Biologically Active Macromolecules. <i>Applied Spectroscopy</i> , 1988, 42, 1188-1193.	2.2	25
28	Revealing New Structural Insights from Surfactant Micelles through DLS, Microrheology and Raman Spectroscopy. <i>Materials</i> , 2015, 8, 3754-3766.	2.9	25
29	Structural Changes and Aggregation Mechanisms for Anti-Streptavidin IgG1 at Elevated Concentration. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15150-15163.	2.6	22
30	Quantitative determination of impurities in polyene antibiotics: fourier transform Raman spectra of nystatin, amphotericin A, and amphotericin B. <i>Analytical Chemistry</i> , 1988, 60, 2306-2309.	6.5	19
31	Applications of Fourier Transform Infrared Imaging Microscopy in Neurotoxicity. <i>Annals of the New York Academy of Sciences</i> , 1997, 820, 234-247.	3.8	16
32	Combining Imaging and Spectroscopy: Solving Problems with Near Infrared Chemical Imaging. <i>Microscopy Today</i> , 2004, 12, 8-13.	0.3	16
33	Insight into Drug Quality: Comparison of Simvastatin Tablets from the US and Canada Obtained via the Internet. <i>Annals of Pharmacotherapy</i> , 2007, 41, 1111-1115.	1.9	16
34	Extending the Vibrational Limits in Near-Infrared Fourier Transform Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1989, 43, 156-159.	2.2	12
35	Forensic visualization of foreign matter in human tissue by near-infrared spectral imaging: Methodology and data mining strategies. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2006, 69A, 888-896.	1.5	11
36	Non-Destructive Evaluation of Manufacturing Process Changes Using near Infrared Chemical Imaging. <i>NIR News</i> , 2008, 19, 11-15.	0.3	11

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37	Colloidal Stability & Conformational Changes in \hat{I}^2 -Lactoglobulin: Unfolding to Self-Assembly. International Journal of Molecular Sciences, 2015, 16, 17719-17733.	4.1	11
38	Visible spectroscopic imaging studies of normal and ischemic dermal tissue. , 2000, , .		10
39	Raman and Infrared Microspectroscopy. , 1999, , 1945-1954.		8
40	Near-infrared fiber-optic sample cell: Applications to fourier transform Raman and near-infrared absorption and reflectance spectroscopies. Journal of Raman Spectroscopy, 1991, 22, 509-512.	2.5	5
41	Near Infrared Chemical Imaging: Beyond the Pictures. , 0, , 335-361.		5
42	Near Infrared Chemical Imaging for High Throughput Screening of Food Bacteria. NIR News, 2007, 18, 4-6.	0.3	5
43	<title>Image reconstruction of FT-IR microspectrometric data</title>. , 2000, , .		4
44	<title>Combined spectroscopic imaging and chemometric approach for automatically partitioning tissue types in human prostate tissue biopsies</title>. , 2001, 4259, 47.		3
45	Raman and Infrared Microspectroscopy*. , 2010, , 2349-2357.		3
46	<title>Raman imaging microscopy: a novel chemical imaging technique</title>. , 1996, , .		2
47	Infrared spectroscopic imaging microscopy: Applications to biological systems. AIP Conference Proceedings, 1998, , .	0.4	2
48	<title>Raman microscopy and imaging of inorganic and biological materials with liquid crystal tunable filters</title>. , 1999, , .		2
49	Raman and Infrared Microspectroscopy. , 2017, , 844-852.		1
50	FOURIER TRANSFORM RAMAN SPECTROSCOPYOF BIOLOGICAL MATERIALS. Analytical Chemistry, 1990, 62, 1101A-1111A.	6.5	0
51	Vibrational Spectroscopic Microscopy: Raman, Near-Infrared and Mid-Infrared Imaging Techniques. Microscopy and Microanalysis, 1995, 1, 35-46.	0.4	0
52	Industrial and Clinical Applications of Infrared Spectroscopic Imaging Using Focal-Plane Arrays. Microscopy and Microanalysis, 1998, 4, 156-157.	0.4	0
53	Evaluation Of Diseased State In Human Tissue Sections Using Infrared And Raman Imaging Microspectroscopy. Microscopy and Microanalysis, 1999, 5, 60-61.	0.4	0
54	Advances in FT-IR spectroscopic imaging microscopy of biological tissue using infrared focal-plane array detectors. , 2000, , .		0

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55	Fourier transform infrared chemical imaging microscopy: Applications in neurotoxicity and pathology. Proceedings Annual Meeting Electron Microscopy Society of America, 1996, 54, 258-259.	0.0	0