

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	Raman and Infrared Microspectroscopy. , 2017, , 844-852.		1
2	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. Journal of Pharmaceutical Sciences, 2016, 105, 551-558.	3.3	29
3	Colloidal Stability & Conformational Changes in β^2 -Lactoglobulin: Unfolding to Self-Assembly. International Journal of Molecular Sciences, 2015, 16, 17719-17733.	4.1	11
4	Revealing New Structural Insights from Surfactant Micelles through DLS, Microrheology and Raman Spectroscopy. Materials, 2015, 8, 3754-3766.	2.9	25
5	Concomitant Raman spectroscopy and dynamic light scattering for characterization of therapeutic proteins at high concentrations. Analytical Biochemistry, 2015, 472, 7-20.	2.4	85
6	Aggregate structure, morphology and the effect of aggregation mechanisms on viscosity at elevated protein concentrations. Biophysical Chemistry, 2015, 207, 21-29.	2.8	34
7	Structural Changes and Aggregation Mechanisms for Anti-Streptavidin IgG1 at Elevated Concentration. Journal of Physical Chemistry B, 2015, 119, 15150-15163.	2.6	22
8	Combined Dynamic Light Scattering and Raman Spectroscopy Approach for Characterizing the Aggregation of Therapeutic Proteins. Molecules, 2014, 19, 20888-20905.	3.8	34
9	Raman and Infrared Microspectroscopy*. , 2010, , 2349-2357.		3
10	Non-Destructive Evaluation of Manufacturing Process Changes Using near Infrared Chemical Imaging. NIR News, 2008, 19, 11-15.	0.3	11
11	â€œInsightâ€ into Drug Quality: Comparison of Simvastatin Tablets from the US and Canada Obtained via the Internet. Annals of Pharmacotherapy, 2007, 41, 1111-1115.	1.9	16
12	Near Infrared Chemical Imaging for High Throughput Screening of Food Bacteria. NIR News, 2007, 18, 4-6.	0.3	5
13	Forensic visualization of foreign matter in human tissue by near-infrared spectral imaging: Methodology and data mining strategies. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 888-896.	1.5	11
14	Bacterial identification by near-infrared chemical imaging of food-specific cards. Food Microbiology, 2005, 22, 577-583.	4.2	54
15	Combining Imaging and Spectroscopy: Solving Problems with Near Infrared Chemical Imaging. Microscopy Today, 2004, 12, 8-13.	0.3	16
16	Classification of Fourier Transform Infrared Microscopic Imaging Data of Human Breast Cells by Cluster Analysis and Artificial Neural Networks. Applied Spectroscopy, 2003, 57, 14-22.	2.2	53
17	Characterization of Colorectal Adenocarcinoma Sections by Spatially Resolved FT-IR Microspectroscopy. Applied Spectroscopy, 2002, 56, 1-9.	2.2	97
18	FT-IR imaging of polymers: an industrial appraisal. Vibrational Spectroscopy, 2002, 30, 43-52.	2.2	47

#	ARTICLE	IF	CITATIONS
19	Near-infrared spectral imaging for quality assurance of pharmaceutical products: Analysis of tablets to assess powder blend homogeneity. AAPS PharmSciTech, 2002, 3, 1-15.	3.3	82
20	Near-infrared spectral imaging for quality assurance of pharmaceutical products: Analysis of tablets to assess powder blend homogeneity. AAPS PharmSciTech, 2002, 3, 1-15.	3.3	239
21	A near Infrared View of Pharmaceutical Formulation Analysis. NIR News, 2001, 12, 16-18.	0.3	52
22	<title>Combined spectroscopic imaging and chemometric approach for automatically partitioning tissue types in human prostate tissue biopsies</title>. , 2001, 4259, 47.		3
23	Imaging of collagen and proteoglycan in cartilage sections using Fourier transform infrared spectral imaging. Arthritis and Rheumatism, 2001, 44, 846-855.	6.7	142
24	<title>Image reconstruction of FT-IR microspectrometric data</title>. , 2000, , .		4
25	Visible spectroscopic imaging studies of normal and ischemic dermal tissue. , 2000, , .		10
26	Advances in FT-IR spectroscopic imaging microscopy of biological tissue using infrared focal-plane array detectors. , 2000, , .		0
27	Evaluation Of Diseased State In Human Tissue Sections Using Infrared And Raman Imaging Microspectroscopy. Microscopy and Microanalysis, 1999, 5, 60-61.	0.4	0
28	Infrared Spectroscopic Imaging of the Biochemical Modifications Induced in the Cerebellum of the Niemannâ€“Pick type C Mouse. Journal of Biomedical Optics, 1999, 4, 7.	2.6	33
29	<title>Raman microscopy and imaging of inorganic and biological materials with liquid crystal tunable filters</title>. , 1999, , .		2
30	Raman and Infrared Microspectroscopy. , 1999, , 1945-1954.		8
31	Infrared Spectroscopic Imaging: From Planetary to Cellular Systems. Applied Spectroscopy, 1998, 52, 106A-120A.	2.2	158
32	Infrared spectroscopic imaging microscopy: Applications to biological systems. AIP Conference Proceedings, 1998, , .	0.4	2
33	Industrial and Clinical Applications of Infrared Spectroscopic Imaging Using Focal-Plane Arrays. Microscopy and Microanalysis, 1998, 4, 156-157.	0.4	0
34	Si: As Focal-Plane Array Detection for Fourier Transform Spectroscopic Imaging in the Infrared Fingerprint Region. Applied Spectroscopy, 1997, 51, 563-567.	2.2	30
35	Mercury cadmium telluride focal-plane array detection for mid-infrared Fourier-transform spectroscopic imaging. Optics Letters, 1997, 22, 742.	3.3	82
36	Applications of Fourier Transform Infrared Imaging Microscopy in Neurotoxicity. Annals of the New York Academy of Sciences, 1997, 820, 234-247.	3.8	16

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37	Visualization of silicone gel in human breast tissue using new infrared imaging spectroscopy. <i>Nature Medicine</i> , 1997, 3, 235-237.	30.7	127
38	Raman Chemical Imaging: Histopathology of Inclusions in Human Breast Tissue. <i>Analytical Chemistry</i> , 1996, 68, 1829-1833.	6.5	81
39	High-Fidelity Fourier Transform Infrared Spectroscopic Imaging of Primate Brain Tissue. <i>Applied Spectroscopy</i> , 1996, 50, 263-269.	2.2	106
40	<title>Raman imaging microscopy: a novel chemical imaging technique</title>. , 1996, , .		2
41	Fourier transform infrared chemical imaging microscopy: Applications in neurotoxicity and pathology. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1996, 54, 258-259.	0.0	0
42	Vibrational Spectroscopic Microscopy: Raman, Near-Infrared and Mid-Infrared Imaging Techniques. <i>Microscopy and Microanalysis</i> , 1995, 1, 35-46.	0.4	0
43	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
44	Fourier Transform Spectroscopic Imaging Using an Infrared Focal-Plane Array Detector. <i>Analytical Chemistry</i> , 1995, 67, 3377-3381.	6.5	425
45	Indium Antimonide (InSb) Focal Plane Array (FPA) Detection for Near-Infrared Imaging Microscopy. <i>Applied Spectroscopy</i> , 1994, 48, 607-615.	2.2	111
46	A Miniaturized, No-Moving-Parts Raman Spectrometer. <i>Applied Spectroscopy</i> , 1993, 47, 539-543.	2.2	56
47	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
48	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
49	Near-infrared fiber-optic sample cell: Applications to fourier transform Raman and near-infrared absorption and reflectance spectroscopies. <i>Journal of Raman Spectroscopy</i> , 1991, 22, 509-512.	2.5	5
50	FOURIER TRANSFORM RAMAN SPECTROSCOPY OF BIOLOGICAL MATERIALS. <i>Analytical Chemistry</i> , 1990, 62, 1101A-1111A.	6.5	0
51	Extending the Vibrational Limits in Near-Infrared Fourier Transform Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1989, 43, 156-159.	2.2	12
52	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
53	Near-infrared Fourier-transform Raman spectroscopy using fiber-optic assemblies. <i>Analytical Chemistry</i> , 1988, 60, 2658-2661.	6.5	64
54	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

#	ARTICLE	IF	CITATIONS
55	Near Infrared Chemical Imaging: Beyond the Pictures. , 0, , 335-361.		5