Neil Lewis

List of Publications by Year
in descending order

43 papers	2,804 citations	186265 28 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	2162 citing authors

#	Article	IF	Citations
1	Reduced Subvisible Particle Formation in Lyophilized Intravenous Immunoglobulin Formulations Containing Polysorbate 20. Journal of Pharmaceutical Sciences, 2016, 105, 2302-2309.	3.3	14
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 Î²-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	Full Characterization of Colloidal Dynamics at Low PÃ©clet Numbers. Langmuir, 2015, 31, 10351-10357.	3.5	8
8	Structural Changes and Aggregation Mechanisms for Anti-Streptavidin IgG1 at Elevated Concentration. Journal of Physical Chemistry B, 2015, 119, 15150-15163.	2.6	22
9	A novel combination of DLS-optical microrheology and low frequency Raman spectroscopy to reveal underlying biopolymer self-assembly and gelation mechanisms. Journal of Chemical Physics, 2014, 141, 234201.	3.0	12
10	Combined Dynamic Light Scattering and Raman Spectroscopy Approach for Characterizing the Aggregation of Therapeutic Proteins. Molecules, 2014, 19, 20888-20905.	3.8	34
11	Assessment of the critical factors affecting the porosity of roller compacted ribbons and the feasibility of using NIR chemical imaging to evaluate the porosity distribution. International Journal of Pharmaceutics, 2011, 410, 1-8.	5.2	58
12	Magnesium-Induced Lipid Bilayer Microdomain Reorganizations: Implications for Membrane Fusion. Journal of Physical Chemistry B, 2009, 113, 9932-9941.	2.6	38
13	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
14	Bacterial identification by near-infrared chemical imaging of food-specific cards. Food Microbiology, 2005, 22, 577-583.	4.2	54
15	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
16	Characterization of Colorectal Adenocarcinoma Sections by Spatially Resolved FT-IR Microspectroscopy. Applied Spectroscopy, 2002, 56, 1-9.	2.2	97
17	Visible Reflectance Hyperspectral Imaging:Â Characterization of a Noninvasive, in Vivo System for Determining Tissue Perfusion. Analytical Chemistry, 2002, 74, 2021-2028.	6.5	191
18	FT-IR imaging of polymers: an industrial appraisal. Vibrational Spectroscopy, 2002, 30, 43-52.	2.2	47

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19	Imaging of collagen and proteoglycan in cartilage sections using Fourier transform infrared spectral imaging. Arthritis and Rheumatism, 2001, 44, 846-855.	6.7	142
20	Infrared and Raman imaging of biological and biomimetic samples. Fresenius' Journal of Analytical Chemistry, 2000, 366, 712-726.	1.5	91
21	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
22	Infrared Spectroscopic Imaging: From Planetary to Cellular Systems. Applied Spectroscopy, 1998, 52, 106A-120A.	2.2	158
23	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
24	Mercury cadmium telluride focal-plane array detection for mid-infrared Fourier-transform spectroscopic imaging. Optics Letters, 1997, 22, 742.	3.3	82
25	Applications of Fourier Transform Infrared Imaging Microscopy in Neurotoxicity. Annals of the New York Academy of Sciences, 1997, 820, 234-247.	3.8	16
26	Visualization of silicone gel in human breast tissue using new infrared imaging spectroscopy. Nature Medicine, 1997, 3, 235-237.	30.7	127
27	Raman Chemical Imaging:Â Histopathology of Inclusions in Human Breast Tissue. Analytical Chemistry, 1996, 68, 1829-1833.	6.5	81
28	High-Fidelity Fourier Transform Infrared Spectroscopic Imaging of Primate Brain Tissue. Applied Spectroscopy, 1996, 50, 263-269.	2.2	106
29	The design and implementation of a highâ€fidelity Raman imaging microscope. Journal of Microscopy, 1996, 184, 35-45.	1.8	35
30	Real-Time, Mid-Infrared Spectroscopic Imaging Microscopy Using Indium Antimonide Focal-Plane Array Detection. Applied Spectroscopy, 1995, 49, 672-678.	2.2	67
31	Fourier Transform Spectroscopic Imaging Using an Infrared Focal-Plane Array Detector. Analytical Chemistry, 1995, 67, 3377-3381.	6.5	425
32	Indium Antimonide (InSb) Focal Plane Array (FPA) Detection for Near-Infrared Imaging Microscopy. Applied Spectroscopy, 1994, 48, 607-615.	2.2	111
33	A Miniaturized, No-Moving-Parts Raman Spectrometer. Applied Spectroscopy, 1993, 47, 539-543.	2.2	56
34	Near-Infrared Acousto-Optic Filtered Spectroscopic Microscopy: A Solid-State Approach to Chemical Imaging. Applied Spectroscopy, 1992, 46, 553-559.	2.2	80
35	High-Fidelity Raman Imaging Spectrometry: A Rapid Method Using an Acousto-Optic Tunable Filter. Applied Spectroscopy, 1992, 46, 1211-1216.	2.2	101
36	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

#	Article	IF	Citations
37	Fourier transform Raman spectroscopy of biological materials. Analytical Chemistry, 1990, 62, 1101A-1111A.	6.5	72
38	Extending the Vibrational Limits in Near-Infrared Fourier Transform Raman Spectroscopy. Applied Spectroscopy, 1989, 43, 156-159.	2.2	12
39	Development of Near-Infrared Fourier Transform Raman Spectroscopy for the Study of Biologically Active Macromolecules. Applied Spectroscopy, 1988, 42, 1188-1193.	2.2	25
40	Near-infrared Fourier-transform Raman spectroscopy using fiber-optic assemblies. Analytical Chemistry, 1988, 60, 2658-2661.	6.5	64
41	Quantitative determination of impurities in polyene antibiotics: fourier transform Raman spectra of nystatin, amphotericin A, and amphotericin B. Analytical Chemistry, 1988, 60, 2306-2309.	6.5	19
42	Raman Spectroscopy Using dc Signal Detection and a Microcomputer: An Alternative Approach. Applied Spectroscopy, 1987, 41, 1145-1147.	2.2	2
43	Aggregation and association of polar molecules in low temperature matrices and in the gaseous phase. Journal of Molecular Structure, 1986, 141, 227-236.	3.6	16