Robert A Lodder

List of Publications by Citations

83 papers	**3,475** citations	**19** h-index	**58** g-index
94 ext. papers	**3,816** ext. citations	**4.3** avg, IF	**4.06** L-index

#	Paper	IF	Citations
83	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part I. *Circulation*, **2003**, 108, 1664-72	16.7	1985
82	Detection of lipid pool, thin fibrous cap, and inflammatory cells in human aortic atherosclerotic plaques by near-infrared spectroscopy. *Circulation*, **2002**, 105, 923-7	16.7	254
81	Near-infrared spectroscopy and imaging for the monitoring of powder blend homogeneity. *Journal of Pharmaceutical Sciences*, **2001**, 90, 1298-307	3.9	153
80	Near-IR imaging of atheromas in living arterial tissue. *Analytical Chemistry*, **1993**, 65, 1247-56	7.8	87
79	Near-infrared spectroscopic determination of residual moisture in lyophilized sucrose through intact glass vials. *Pharmaceutical Research*, **1989**, 6, 961-5	4.5	86
78	Nondestructive near-infrared analysis of intact tablets for determination of degradation products. *Journal of Pharmaceutical Sciences*, **1990**, 79, 622-7	3.9	64
77	Biological and Medical Applications of Near-Infrared Spectrometry. *Applied Spectroscopy*, **1996**, 50, 18A-34A	3.4	60
76	Mechanisms contributing to angiotensin II regulation of body weight. *American Journal of Physiology - Endocrinology and Metabolism*, **1998**, 274, E867-76	6	49
75	Detection of capsule tampering by near-infrared reflectance analysis. *Analytical Chemistry*, **1987**, 59, 1921-1930	7.8	43
74	Analysis of Intact Tablets by Near-Infrared Reflectance Spectrometry. *Applied Spectroscopy*, **1988**, 42, 556-558	3.1	36
73	Spectrophotometric prediction of the dissolution rate of carbamazepine tablets. *Pharmaceutical Research*, **1991**, 8, 974-8	4.5	35
72	Determination of moisture in intact gelatin capsules by near-infrared spectrophotometry. *Pharmaceutical Research*, **1995**, 12, 161-3	4.5	34
71	Advances and Perspectives in Near-Infrared Spectrophotometry. *Critical Reviews in Analytical Chemistry*, **1991**, 22, 443-475	5.2	34
70	Near-infrared spectroscopy for the determination of testosterone in thin-film composites. *Journal of Pharmaceutical and Biomedical Analysis*, **2003**, 33, 181-9	3.5	27
69	Synchrotron infrared microspectroscopic analysis of collagens I, III, and elastin on the shoulders of human thin-cap fibroatheromas. *Vibrational Spectroscopy*, **2005**, 38, 53-59	2.1	24
68	Detection of Subpopulations in Near-Infrared Reflectance Analysis. *Applied Spectroscopy*, **1988**, 42, 1500-1512	3.1	24
67	Effect of diets containing sucrose vs. D-tagatose in hypercholesterolemic mice. *Obesity*, **2009**, 17, 269-75	8	23

66	Determination of extent of formaldehyde-induced crosslinking in hard gelatin capsules by near-infrared spectrophotometry. *Pharmaceutical Research*, **1997**, 14, 1046-50	4.5	23
65	Quantile BEAST Attacks the False-Sample Problem in Near-Infrared Reflectance Analysis. *Applied Spectroscopy*, **1988**, 42, 1351-1365	3.1	22
64	Quantile Analysis: A Method for Characterizing Data Distributions. *Applied Spectroscopy*, **1988**, 42, 1512-1520	3.5	18
63	Acoustic-resonance spectrometry as a process analytical technology for rapid and accurate tablet identification. *AAPS PharmSciTech*, **2006**, 7, E25	3.9	17
62	Wet granulation in rotary processor and fluid bed: comparison of granule and tablet properties. *AAPS PharmSciTech*, **2006**, 7, E22	3.9	17
61	Detection of formaldehyde-induced crosslinking in soft elastic gelatin capsules using near-infrared spectrophotometry. *Pharmaceutical Development and Technology*, **1998**, 3, 209-14	3.4	17
60	Near-infrared spectrometry of abdominal aortic aneurysm in the ApoE-/- mouse. *Analytical Chemistry*, **2003**, 75, 3650-5	7.8	16
59	Applications of integrated sensing and processing in spectroscopic imaging and sensing. *Journal of Chemometrics*, **2005**, 19, 533-542	1.6	15
58	Multispectral imaging of tablets in blister packaging. *AAPS PharmSciTech*, **2001**, 2, E9	3.9	15
57	Effects of Three Low-Doses of D-Tagatose on Glycemic Control Over Six Months in Subjects with Mild Type 2 Diabetes Mellitus Under Control with Diet and Exercise **2014**, 2, 1057		15
56	Near-infrared spectrometry for the quantification of dermal absorption of econazole nitrate and 4-cyanophenol. *Pharmaceutical Research*, **2006**, 23, 835-43	4.5	14
55	Theoretical and experimental characterization of a near-field scanning microwave microscope (NSMM). *IEEE Transactions on Microwave Theory and Techniques*, **2003**, 51, 91-99	4.1	14
54	Hyperspectral techniques in analysis of oral dosage forms. *Journal of Biomedical Optics*, **2002**, 7, 561-70	3.5	14
53	DDDAS Approaches to Wildland Fire Modeling and Contaminant Tracking **2006**,		13
52	Hyperspectral imaging technology for pharmaceutical analysis **2002**, 4626, 136		13
51	Near-infrared spectrophotometric monitoring of stroke-related changes in the protein and lipid composition of whole gerbil brains. *Analytical Chemistry*, **1993**, 65, 1305-13	7.8	13
50	Integrated Sensing and Processing Acoustic Resonance Spectrometry (ISP-ARS) for Sample Classification. *Journal of Pharmaceutical Innovation*, **2007**, 2, 125-134	1.8	12
49	Near infrared spectrometry for the quantification of human dermal absorption of econazole nitrate and estradiol. *Pharmaceutical Research*, **2007**, 24, 186-93	4.5	12

48	Hyperspectral integrated computational imaging. *Analytical and Bioanalytical Chemistry*, **2005**, 382, 868-72	14	10
47	Optimization of Acoustic-Resonance Spectrometry for Analysis of Intact Tablets and Prediction of Dissolution Rate. *Applied Spectroscopy*, **1994**, 48, 517-524	3.1	10
46	Near-IR Identification of Woods for Restoration of Historic Buildings and Furniture. *Applied Spectroscopy*, **1993**, 47, 287-291	3.1	10
45	Molecular factor computing for predictive spectroscopy. *Pharmaceutical Research*, **2007**, 24, 1441-9	4.5	9
44	Cardiovascular Near-Infrared Imaging. *Journal of Near Infrared Spectroscopy*, **1998**, 6, A21-A25	1.5	9
43	Identification of Wood Species by Acoustic-Resonance Spectrometry Using Multivariate Subpopulation Analysis. *Applied Spectroscopy*, **1993**, 47, 1880-1886	3.1	9
42	Safety and Efficacy of D-Tagatose in Glycemic Control in Subjects with Type 2 Diabetes **2015**, 3,		9
41	PHARMACEUTICAL APPLICATIONS OF NEAR-INFRARED SPECTROMETRY **1993**, 93-112		9
40	26Al-containing acidic and basic sodium aluminum phosphate preparation and use in studies of oral aluminum bioavailability from foods utilizing 26Al as an aluminum tracer. *Nuclear Instruments & Methods in Physics Research B*, **2005**, 229, 471-478	1.2	8
39	A Disposable Liquid Microcell for Near-Infrared Reflectance Analysis. *Applied Spectroscopy*, **1988**, 42, 518-519	3.1	8
38	Assessment of the feasibility of determination of cholesterol and other blood constituents by near-infrared reflectance analysis. *Talanta*, **1989**, 36, 193-8	6.2	7
37	Determination of Cholesterol Using a Novel Magnetohydrodynamic Acoustic-Resonance Near-IR (MARNIR) Spectrometer. *Applied Spectroscopy*, **1993**, 47, 887-890	3.1	6
36	Near-infrared spectrometry of microorganisms in liquid pharmaceuticals. *Analytical Chemistry*, **1990**, 62, 2514-21	7.8	6
35	High prevalence of cholesterol-rich atherosclerotic lesions in ancient mummies: A near-infrared spectroscopy study. *American Heart Journal*, **2019**, 216, 113-116	4.9	5
34	BSN723T Prevents Atherosclerosis and Weight Gain in ApoE Knockout Mice Fed a Western Diet **2015**, 6,		5
33	Imminent cardiac risk assessment via optical intravascular biochemical analysis. *Analyst, The*, **2009**, 134, 1099-106	5	4
32	**2007**,		4
31	Corrections to "Erratum: Near-infrared spectroscopy and imaging for the monitoring of powder blend homogeneity". *Journal of Pharmaceutical Sciences*, **2001**, 90, 1915	3.9	4

30	Subsurface Image Reconstruction by Near-Infrared Reflectance Analysis. *Applied Spectroscopy*, **1988**, 42, 309-312	3.1	4
29	The Effect of D-Tagatose on Fructose Absorption in a Rat Model. *Journal of Developing Drugs*, **2013**, 2,		3
28	Making your BEST case: near-IR spectral identification of soil. *Analytical Chemistry*, **1993**, 65, 434A-439A	7.8	3
27	Dynamically Identifying and Tracking Contaminants in Water Bodies. *Lecture Notes in Computer Science*, **2007**, 1002-1009	0.9	3
26	Dynamic Data-Driven Application Systems for Empty Houses, Contaminat Tracking, and Wildland Fireline Prediction **2007**, 255-272		3
25	Human Identification and Localization by Robots in Collaborative Environments. *Procedia Computer Science*, **2017**, 108, 1602-1611	1.6	2
24	DDDAS Design of Drug Interventions for the Treatment of Dyslipidemia in ApoE Mice. *Journal of Developing Drugs*, **2013**, 2,		2
23	NIR spectrometry for the characterization of fuel components in a novel tamper-resistant pill bottle. *Journal of Pharmaceutical Innovation*, **2006**, 1, 54-61	1.8	2
22	In vivo applications of a molecular computing-based high-throughput NIR spectrometer **2004**, 5329, 239		2
21	Bacterial monitoring in vials using a spectrophotometric assimilation method. *Pharmaceutical Research*, **1992**, 9, 357-64	4.5	2
20	Applications of cellular automata: attractors and fractals in analytical chemistry?. *TrAC - Trends in Analytical Chemistry*, **1988**, 7, 240-244	14.6	2
19	Advantages of Multiscale Detection of Defective Pills during Manufacturing. *Lecture Notes in Computer Science*, **2010**, 8-16	0.9	2
18	The Development of a Novel Pharmaceutical Formulation of D-Tagatose for Spray-Drying. *Journal of Pharmaceutical Innovation*, **2020**, 1	1.8	2
17	Integrated Sensing and Processing Acoustic Resonance Spectrometry (ISP-ARS) in Differentiating d-Tagatose and Other Toll Manufactured Drugs. *Journal of Pharmaceutical Innovation*, **2008**, 3, 152-160	1.8	1
16	Using the Internet as an analytical instrument. *TrAC - Trends in Analytical Chemistry*, **2001**, 20, 219-224	14.6	1
15	NIR spectrometric imaging. *European Journal of Pharmaceutical Sciences*, **1994**, 2, 84	5.1	1
14	DDDAS Predictions for Water Spills. *Lecture Notes in Computer Science*, **2008**, 54-63	0.9	1
13	Weighted analysis of 2Sfucosyllactose, 3-fucosyllactose, lacto-N-tetraose, 3Ssialyllactose, and 6Ssialyllactose concentrations in human milk.. *Food and Chemical Toxicology*, **2022**, 163, 112877	4.7	1

12	Intra-Lot and Inter-Lot Variability in Ceftaroline Fosamil. **2021**, 2021,		1
11	Intra-Lot and Inter-Lot Variability in Cosyntropin. **2021**, 2021,		1
10	Spectrometric Results of Process Variations in Dacarbazine. **2022**, 2022,		1
9	Levothyroxine Variations by Process Analytical Technology. **2022**, 2022,		1
8	FTNIR Spectrometry of Micafungin Sodium Quality. **2022**, 2022,		1
7	Lack of Content Uniformity in MMR Vaccine. **2022**, 2022,		1
6	Variability in Content of Piperacillin and Tazobactam Injection. **2022**, 2022,		1
5	Data-Driven Design of an Ebola Therapeutic. *Procedia Computer Science*, **2017**, 108, 1612-1621	1.6	0
4	FDA Approaches in Monitoring Drug Quality, Forces Impacting the Drug Quality, and Recent Alternative Strategies to Assess Quality in the US Drug Supply. *Journal of Pharmaceutical Innovation*,	1.8	0
3	Nonparametric Approach to Weak Signal Detection in the Search for Extraterrestrial Intelligence (SETI). *Lecture Notes in Computer Science*, **2019**, 3-15	0.9	
2	International conference on computational science, ICCS 2010 data-driven pill monitoring. *Procedia Computer Science*, **2010**, 1, 1213-1220	1.6	
1	International conference on computational science, ICCS 2010 data-driven pill monitoring. *Procedia Computer Science*, **2010**, 1, 1251-1258	1.6	