Robert A Lodder

List of Publications by Year
in descending order

85 papers	4,109 citations	361413 20 h-index	114465 63 g-index
94 all docs	94 docs citations	94 times ranked	4083 citing authors

#	Article	IF	Citations
1	From Vulnerable Plaque to Vulnerable Patient. Circulation, 2003, 108, 1664-1672.	1.6	2,308
2	Detection of Lipid Pool, Thin Fibrous Cap, and Inflammatory Cells in Human Aortic Atherosclerotic Plaques by Near-Infrared Spectroscopy. Circulation, 2002, 105, 923-927.	1.6	287
3	Near‑infrared spectroscopy and imaging for the monitoring of powder blend homogeneity. Journal of Pharmaceutical Sciences, 2001, 90, 1298-1307.	3.3	168
4	Near-infrared spectroscopic determination of residual moisture in lyophilized sucrose through intact glass vials. Pharmaceutical Research, 1989, 06, 961-965.	3.5	98
5	Near-IR imaging of atheromas in living arterial tissue. Analytical Chemistry, 1993, 65, 1247-1256.	6.5	95
6	Biological and Medical Applications of Near-Infrared Spectrometry. Applied Spectroscopy, 1996, 50, 18A-34A.	2.2	79
7	Nondestructive Near-Infrared Analysis of Intact Tablets for Determination of Degradation Products. Journal of Pharmaceutical Sciences, 1990, 79, 622-627.	3.3	78
8	Mechanisms contributing to angiotensin II regulation of body weight. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E867-E876.	3.5	65
9	Detection of capsule tampering by near-infrared reflectance analysis. Analytical Chemistry, 1987, 59, 1921-1930.	6.5	64
10	Analysis of Intact Tablets by Near-Infrared Reflectance Spectrometry. Applied Spectroscopy, 1988, 42, 556-558.	2.2	56
11	Advances and Perspectives in Near-Infrared Spectrophotometry. Critical Reviews in Analytical Chemistry, 1991, 22, 443-475.	3.5	42
12	Spectrophotometric prediction of the dissolution rate of carbamazepine tablets. Pharmaceutical Research, 1991, 08, 974-978.	3.5	38
13	Determination of moisture in intact gelatin capsules by near-infrared spectrophotometry. Pharmaceutical Research, 1995, 12, 161-163.	3.5	37
14	Determination of extent of formaldehyde-induced crosslinking in hard gelatin capsules by near-infrared spectrophotometry. Pharmaceutical Research, 1997, 14, 1046-1050.	3.5	32
15	Detection of Subpopulations in Near-Infrared Reflectance Analysis. Applied Spectroscopy, 1988, 42, 1500-1512.	2.2	31
16	Near-infrared spectroscopy for the determination of testosterone in thin-film composites. Journal of Pharmaceutical and Biomedical Analysis, 2003, 33, 181-189.	2.8	31
17	Quantile Analysis: A Method for Characterizing Data Distributions. Applied Spectroscopy, 1988, 42, 1512-1520.	2.2	29
18	Quantile BEAST Attacks the False-Sample Problem in Near-Infrared Reflectance Analysis. Applied Spectroscopy, 1988, 42, 1351-1365.	2.2	28

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19	Effect of Diets Containing Sucrose vs. D€tagatose in Hypercholesterolemic Mice. Obesity, 2009, 17, 269-275.	3.0	27
20	Synchrotron infrared microspectroscopic analysis of collagens I, III, and elastin on the shoulders of human thin-cap fibroatheromas. Vibrational Spectroscopy, 2005, 38, 53-59.	2.2	25
21	Detection of Formaldehyde-Induced Crosslinking in Soft Elastic Gelatin Capsules Using Near-Infrared Spectrophotometry. Pharmaceutical Development and Technology, 1998, 3, 209-214.	2.4	20
22	Multispectral imaging of tablets in blister packaging. AAPS PharmSciTech, 2001, 2, 38-44.	3.3	20
23	Near-Infrared Spectrometry for the Quantification of Dermal Absorption of Econazole Nitrate and 4-Cyanophenol. Pharmaceutical Research, 2006, 23, 835-843.	3.5	20
24	Hyperspectral techniques in analysis of oral dosage forms. Journal of Biomedical Optics, 2002, 7, 561.	2.6	19
25	Theoretical and experimental characterization of a near-field scanning microwave microscope (NSMM). IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 91-99.	4.6	19
26	Acoustic-resonance spectrometry as a process analytical technology for the quantification of active pharmaceutical ingredient in semi-solids. AAPS PharmSciTech, 2006, 7, E22-E29.	3.3	19
27	Near-infrared spectrophotometric monitoring of stroke-related changes in the protein and lipid composition of whole gerbil brains. Analytical Chemistry, 1993, 65, 1305-1313.	6.5	18
28	Acoustic-resonance spectrometry as a process analytical technology for rapid and accurate tablet identification. AAPS PharmSciTech, 2006, 7, E175-E183.	3.3	18
29	Near-Infrared Spectrometry of Abdominal Aortic Aneurysm in the ApoE-/-Mouse. Analytical Chemistry, 2003, 75, 3650-3655.	6.5	17
30	Applications of integrated sensing and processing in spectroscopic imaging and sensing. Journal of Chemometrics, 2005, 19, 533-542.	1.3	17
31	DDDAS Approaches to Wildland Fire Modeling and Contaminant Tracking. , 2006, , .		17
32	<title>Hyperspectral imaging technology for pharmaceutical analysis</title>. , 2002, 4626, 136.		16
33	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. Journal of Endocrinology, Diabetes & Obesity, 2014, 2, 1057.	0.7	16
34	A Disposable Liquid Microcell for Near-Infrared Reflectance Analysis. Applied Spectroscopy, 1988, 42, 518-519.	2.2	13
35	Near Infrared Spectrometry for the Quantification of Human Dermal Absorption of Econazole Nitrate and Estradiol. Pharmaceutical Research, 2006, 24, 186-193.	3.5	13
36	Integrated Sensing and Processing Acoustic Resonance Spectrometry (ISP-ARS) for Sample Classification. Journal of Pharmaceutical Innovation, 2007, 2, 125-134.	2.4	12

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37	PHARMACEUTICAL APPLICATIONS OF NEAR-INFRARED SPECTROMETRY. , 1993, , 93-112.		12
38	Near-IR Identification of Woods for Restoration of Historic Buildings and Furniture. Applied Spectroscopy, 1993, 47, 287-291.	2.2	11
39	Optimization of Acoustic-Resonance Spectrometry for Analysis of Intact Tablets and Prediction of Dissolution Rate. Applied Spectroscopy, 1994, 48, 517-524.	2.2	11
40	Cardiovascular Near-Infrared Imaging. Journal of Near Infrared Spectroscopy, 1998, 6, A21-A25.	1.5	11
41	Assessment of the feasibility of determination of cholesterol and other blood constituents by near-infrared reflectance analysis. Talanta, 1989, 36, 193-198.	5.5	10
42	Near-Infrared Spectrometry of Microorganisms in Liquid Pharmaceuticals. Analytical Chemistry, 1990, 62, 2514-2521.	6.5	10
43	Identification of Wood Species by Acoustic-Resonance Spectrometry Using Multivariate Subpopulation Analysis. Applied Spectroscopy, 1993, 47, 1880-1886.	2.2	10
44	Hyperspectral integrated computational imaging. Analytical and Bioanalytical Chemistry, 2005, 382, 868-872.	3.7	10
45	Molecular Factor Computing for Predictive Spectroscopy. Pharmaceutical Research, 2007, 24, 1441-1449.	3.5	10
46	Safety and Efficacy of D-Tagatose in Glycemic Control in Subjects with Type 2 Diabetes. Journal of Endocrinology, Diabetes & Obesity, 2015, 3, .	0.7	10
47	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.	1.4	9
48	Weighted analysis of 2â€²-fucosyllactose, 3-fucosyllactose, lacto-N-tetraose, 3â€²-sialyllactose, and 6â€²-sialyllactose concentrations in human milk. Food and Chemical Toxicology, 2022, 163, 112877.	3.6	8
49	Detecting Life and Biology-Related Parameters on Mars. , 2007, , .		7
50	BSN723T Prevents Atherosclerosis and Weight Gain in ApoE Knockout Mice Fed a Western Diet. WebmedCentral, 2015, 6, .	0.0	7
51	Determination of Cholesterol Using a Novel Magnetohydrodynamic Acoustic-Resonance Near-IR (MARNIR) Spectrometer. Applied Spectroscopy, 1993, 47, 887-890.	2.2	6
52	High prevalence of cholesterol-rich atherosclerotic lesions in ancient mummies: A near-infrared spectroscopy study. American Heart Journal, 2019, 216, 113-116.	2.7	6
53	The Development of a Novel Pharmaceutical Formulation of D-Tagatose for Spray-Drying. Journal of Pharmaceutical Innovation, 2022, 17, 194-206.	2.4	6
54	Subsurface Image Reconstruction by Near-Infrared Reflectance Analysis. Applied Spectroscopy, 1988, 42, 309-312.	2.2	4

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55	Corrections to "Erratum: Near-infrared spectroscopy and imaging for the monitoring of powder blend homogeneity". Journal of Pharmaceutical Sciences, 2001, 90, 1915.	3.3	4
56	Imminent cardiac risk assessment via optical intravascular biochemical analysis. Analyst, The, 2009, 134, 1099.	3.5	4
57	Dynamically Identifying and Tracking Contaminants in Water Bodies. Lecture Notes in Computer Science, 2007, , 1002-1009.	1.3	4
58	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, 2022, 17, 269-282.	2.4	4
59	Bacterial monitoring in vials using a spectrophotometric assimilation method. Pharmaceutical Research, 1992, 09, 357-364.	3.5	3
60	Making your BEST case: near-IR spectral identification of soil. Analytical Chemistry, 1993, 65, 434A-439A.	6.5	3
61	In vivo applications of a molecular computing-based high-throughput NIR spectrometer. , 2004, 5329, 239.		3
62	The Effect of D-Tagatose on Fructose Absorption in a Rat Model. Journal of Developing Drugs, 2013, 02, .	0.9	3
63	Dynamic Data-Driven Application Systems for Empty Houses, Contaminat Tracking, and Wildland Fireline Prediction. , 2007, , 255-272.		3
64	Advantages of Multiscale Detection of Defective Pills during Manufacturing. Lecture Notes in Computer Science, 2010, , 8-16.	1.3	3
65	Applications of cellular automata: attractors and fractals in analytical chemistry?. TrAC - Trends in Analytical Chemistry, 1988, 7, 240-244.	11.4	2
66	NIR spectrometry for the characterization of fuel components in a novel tamper-resistant pill bottle. Journal of Pharmaceutical Innovation, 2006, 1, 54-61.	2.4	2
67	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.	2.4	2
68	DDDAS Design of Drug Interventions for the Treatment of Dyslipidemia in ApoE-/- Mice. Journal of Developing Drugs, 2013, 02, .	0.9	2
69	Human Identification and Localization by Robots in Collaborative Environments. Procedia Computer Science, 2017, 108, 1602-1611.	2.0	2
70	One run kinetics - A computer program. Journal of Chemical Education, 1985, 62, 791.	2.3	1
71	NIR spectrometric imaging. European Journal of Pharmaceutical Sciences, 1994, 2, 84.	4.0	1
72	Using the Internet as an analytical instrument. TrAC - Trends in Analytical Chemistry, 2001, 20, 219-224.	11.4	1

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73	Real-time broad-band measurement of cholesterol, collagen, and elastin using a novel rotary switch spectrometer. , 2006, , .		1
74	International conference on computational science, ICCS 2010 data-driven pill monitoring. Procedia Computer Science, 2010, 1, 1251-1258.	2.0	1
75	Data-Driven Design of an Ebola Therapeutic. Procedia Computer Science, 2017, 108, 1612-1621.	2.0	1
76	Intra-Lot and Inter-Lot Variability in Ceftaroline Fosamil.. , 2021, 2021, .		1
77	Intra-Lot and Inter-Lot Variability in Cosyntropin.. , 2021, 2021, .		1
78	Spectrometric Results of Process Variations in Dacarbazine.. , 2022, 2022, .		1
79	Levothyroxine Variations by Process Analytical Technology.. , 2022, 2022, .		1
80	FTNIR Spectrometry of Micafungin Sodium Quality.. , 2022, 2022, .		1
81	Lack of Content Uniformity in MMR Vaccine.. , 2022, 2022, .		1
82	Variability in Content of Piperacillin and Tazobactam Injection.. , 2022, 2022, .		1
83	International conference on computational science, ICCS 2010 data-driven pill monitoring. Procedia Computer Science, 2010, 1, 1213-1220.	2.0	0
84	Nonparametric Approach to Weak Signal Detection in the Search for Extraterrestrial Intelligence (SETI). Lecture Notes in Computer Science, 2019, , 3-15.	1.3	0
85	The Truth Is on the Shelves. Journal of Pharmaceutical Innovation, 0, , .	2.4	0