

# CITATION REPORT

List of articles citing

## Application of the near-infrared spectroscopy in the pharmaceutical technology

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#	Paper	IF	Citations
193	Monitoring batch-to-batch reproducibility of liquid-liquid extraction process using in-line near-infrared spectroscopy combined with multivariate analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2012</b> , 70, 178-87	3.5	39
192	Development of a Compact near Infrared Imaging Device with High-Speed and Portability for Pharmaceutical Process Monitoring. <b>2012</b> , 23, 14-17		17
191	On-line near infrared spectroscopy as a Process Analytical Technology (PAT) tool to control an industrial seeded API crystallization. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2013</b> , 83, 194-203	3.5	32
190	Quality by design (QbD) approach for developing agglomerates containing racecadotril and loperamide hydrochloride by crystallo-co-agglomeration. <i>Powder Technology</i> , <b>2013</b> , 247, 128-146	5.2	11
189	Perspectives in process analysis. <i>Journal of Chemometrics</i> , <b>2013</b> , 27, 369-378	1.6	33
188	Near infrared spectroscopy combination with PLS to monitor the parameters of naproxen tablet preparation process. <i>Analytical Methods</i> , <b>2013</b> , 5, 1337	3.2	16
187	Quantification of bioactive gentiopicroside in the medicinal plant <i>Gentiana scabra</i> Bunge using near infrared spectroscopy. <b>2013</b> , 21, 317-324		7
186	High-throughput NIR-chemometric methods for determination of drug content and pharmaceutical properties of indapamide tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2013</b> , 84, 285-92	3.5	21
185	Preparation and evaluation of agglomerated crystals by crystallo-co-agglomeration: an integrated approach of principal component analysis and Box-Behnken experimental design. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 452, 135-56	6.5	11
184	Application of near-infrared spectroscopy combined with multivariate analysis in monitoring of crude heparin purification process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2013</b> , 109, 8-13	4.4	13
183	Broadband photon time-of-flight spectroscopy of pharmaceuticals and highly scattering plastics in the VIS and close NIR spectral ranges. <i>Optics Express</i> , <b>2013</b> , 21, 20941-53	3.3	29
182	Feasibility of near Infrared Chemical Imaging for Pharmaceutical Cleaning Verification. <i>Journal of Near Infrared Spectroscopy</i> , <b>2013</b> , 21, 173-182	1.5	10
181	Recent applications of first- and second-order multivariate calibration to analytical chemistry. <b>2014</b> , 97, 39-49		7
180	Near-infrared reflectance spectroscopy as a rapid and non-destructive analysis tool for curcuminoids in turmeric. <b>2014</b> , 25, 445-52		16
179	Enhanced Characterization of Naproxen Formulation by Near Infrared Spectroscopy. <b>2014</b> , 47, 2384-2393		2
178	A novel algorithm for blending process monitoring of Angong Niu Huang intermediate using vector operation moving block standard deviation. <b>2014</b> ,		2
177	Improved PLS regression based on SVM classification for rapid analysis of coal properties by near-infrared reflectance spectroscopy. <b>2014</b> , 193, 723-729		39

176	Verification of model development technique for NIR-based real-time monitoring of ingredient concentration during blending. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 471, 264-75	6.5	21
175	Process monitoring and visualization solutions for hot-melt extrusion: a review. <b>2014</b> , 66, 180-203		50
174	Application of near-infrared spectroscopy for monitoring the formulation process of low-dose tablets. <i>Analytical Methods</i> , <b>2014</b> , 6, 1905-1913	3.2	9
173	Direct analysis in real time mass spectrometry, a process analytical technology tool for real-time process monitoring in botanical drug manufacturing. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 91, 202-9	3.5	12
172	Frontiers of Two-Dimensional Correlation Spectroscopy. Part 1. New concepts and noteworthy developments. <b>2014</b> , 1069, 3-22		93
171	A Process Analytical Technology (PAT) approach to control a new API manufacturing process: development, validation and implementation. <i>Talanta</i> , <b>2014</b> , 120, 114-25	6.2	33
170	Assessment of crystallinity in processed sucrose by near-infrared spectroscopy and application to lyophiles. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 2884-2895	3.9	6
169	Non-invasive quantification of 5 fluorouracil and gemcitabine in aqueous matrix by direct measurement through glass vials using near-infrared spectroscopy. <i>Talanta</i> , <b>2014</b> , 119, 361-6	6.2	19
168	Strategies for Selecting the Calibration Set in Pharmaceutical Near Infrared Spectroscopy Analysis. A Comparative Study. <b>2014</b> , 9, 272-281		11
167	Quantitative near-infrared spectroscopic analysis of trimethoprim by artificial neural networks combined with modified genetic algorithm. <b>2014</b> , 30, 582-586		2
166	Near-infrared spectroscopy and hyperspectral imaging: non-destructive analysis of biological materials. <b>2014</b> , 43, 8200-14		346
165	Detection of magnesium compounds in dietary supplements and medicinal products by DSC, Infrared and Raman techniques. <b>2014</b> , 116, 671-680		7
164	Water determination. <b>2014</b> , 223-241		3
163	Study on Nonlinear Multivariate Methods Combined with the Visible Near-Infrared Spectroscopy (Vis/NIRS) Technique for Detecting the Protein Content of Cheese. <b>2014</b> , 7, 3359-3369		7
162	Development and validation of NIR-chemometric methods for chemical and pharmaceutical characterization of meloxicam tablets. <i>Drug Development and Industrial Pharmacy</i> , <b>2014</b> , 40, 549-59	3.6	22
161	Automatic Correction for Window Fouling of near Infrared Probes in Fluidised Systems. <i>Journal of Near Infrared Spectroscopy</i> , <b>2014</b> , 22, 229-238	1.5	7
160	A Practical Evaluation of Qualitative and Quantitative Chemometric Models for Real-Time Monitoring of Moisture Content in a Fluidised Bed Dryer Using near Infrared Technology. <i>Journal of Near Infrared Spectroscopy</i> , <b>2014</b> , 22, 221-228	1.5	15
159	Application of near Infrared Conformance Trending for Material Quality, Container Consistency and Minimisation of Process Risk. <i>Journal of Near Infrared Spectroscopy</i> , <b>2014</b> , 22, 169-178	1.5	4

158	Evaluation of Diffuse Reflectance near Infrared Fibre Optical Sensors in Measurements for Chemical Identification and Quantification for Binary Granule Blends. <i>Journal of Near Infrared Spectroscopy</i> , <b>2015</b> , 23, 133-144	1.5	5
157	Near Infrared Spectroscopy Model Development and Variable Importance in Projection Assignment of Particle Size and Lobetyolin Content of Codonopsis Radix. <i>Journal of Near Infrared Spectroscopy</i> , <b>2015</b> , 23, 327-335	1.5	5
156	Designed blending for near infrared calibration. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 2312-22	3.9	7
155	Method validation for the analysis of licorice acid in the blending process by near infrared diffuse reflectance spectroscopy. <i>Analytical Methods</i> , <b>2015</b> , 7, 5830-5837	3.2	7
154	Strategy for design NIR calibration sets based on process spectrum and model space: An innovative approach for process analytical technology. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 114, 28-33	3.5	11
153	Utilization of Near Infrared (NIR) Spectrometry for Detection of Glass in the Waste-based Fuel. <b>2015</b> , 75, 734-741		1
152	Operationalizing Maintenance of Calibration Models Based on Near-Infrared Spectroscopy by Knowledge Integration. <b>2015</b> , 10, 287-301		8
151	Development and testing of mid-infrared sensors for in-line process monitoring in biotechnology. <b>2015</b> , 221, 1601-1610		17
150	Quantitative analysis of Mangostin in hydrophilic ointment using near-infrared spectroscopy. <i>Drug Development and Industrial Pharmacy</i> , <b>2015</b> , 41, 515-21	3.6	5
149	Input variable scaling for statistical modeling. <b>2015</b> , 74, 59-65		4
148	Near-Infrared Spectroscopy: Effective Tool for Screening of Polymorphs in Pharmaceuticals. <b>2015</b> , 50, 565-583		18
147	Integration of Near-Infrared Spectroscopy and Mechanistic Modeling for Predicting Film-Coating and Dissolution of Modified Release Tablets. <b>2015</b> , 54, 6012-6023		8
146	Computationally effective solution of the inverse problem in time-of-flight spectroscopy. <i>Optics Express</i> , <b>2015</b> , 23, 6937-45	3.3	6
145	Efficient wavenumber selection based on spectral fluctuation dividing and correlation-based clustering for calibration modeling. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2015</b> , 148, 85-94	3.8	2
144	A process analytical technology approach for the production of fixed-dose combination tablets of zidovudine and lamivudine using near infrared spectroscopy and chemical images. <b>2015</b> , 118, 252-258		5
143	Industry Perspectives on Process Analytical Technology: Tools and Applications in API Development. <b>2015</b> , 19, 63-83		90
142	Using PAT To Understand, Control, and Rapidly Scale Up the Production of a Hydrogenation Reaction and Isolation of Pharmaceutical Intermediate. <b>2015</b> , 19, 236-243		11
141	Near-Infrared Spectroscopic Screening for Bladder Disease in Africa: Training Rural Clinic Staff to Collect Data of Diagnostic Quality. <i>Journal of Spectroscopy</i> , <b>2016</b> , 2016, 1-7	1.5	2

140	Monitoring of the hydrolysis process of bear bile powder using near infrared spectroscopy and chemometrics. <b>2016</b> , 88, 18-26		9
139	Investigation of Heat-Treated Cultivation Medium for Mammalian Cells with near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , <b>2016</b> , 24, 373-380	1.5	2
138	Physical profiling and IR spectroscopy: simple and effective methods to discriminate between genuine and counterfeit samples of Viagra <sup>®</sup> and Cialis <sup>®</sup> . <i>Drug Testing and Analysis</i> , <b>2016</b> , 8, 378-87	3.5	16
137	Blend uniformity evaluation during continuous mixing in a twin screw granulator by in-line NIR using a moving F-test. <b>2016</b> , 935, 213-23		23
136	Immune-based abnormal sample identification for spectral quantitative analysis. <b>2016</b> ,		
135	Development of hydrophobic surface substrates enabling reproducible drop-and-dry spectroscopic measurements. <i>Talanta</i> , <b>2016</b> , 153, 31-7	6.2	3
134	Classifying Pharmaceutical Capsules Through X-Ray Image Analysis Based on the Agglomeration of Their Contents. <b>2016</b> , 11, 92-101		3
133	Application of On-Line NIR for Process Control during the Manufacture of Sitagliptin. <b>2016</b> , 20, 653-660		7
132	Real-time monitoring of cocrystallization processes by solvent evaporation: A near infrared study. <i>European Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 90, 76-84	5.1	14
131	Routine quality control of medicines in developing countries: Analytical challenges, regulatory infrastructures and the prevalence of counterfeit medicines in Tanzania. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 76, 60-70	14.6	31
130	Standardization of NIR data to identify adulteration in ethanol fuel. <b>2016</b> , 124, 121-126		12
129	Overall uncertainty measurement for near infrared analysis of cryptotanshinone in tanshinone extract. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2017</b> , 170, 39-47	4.4	2
128	Evaluation of a newly developed mid-infrared sensor for real-time monitoring of yeast fermentations. <b>2017</b> , 123, 651-657		15
127	Rapid discrimination and determination of antibiotics drugs in plastic syringes using near infrared spectroscopy with chemometric analysis: Application to amoxicillin and penicillin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2017</b> , 138, 249-255	3.5	12
126	In-line monitoring of multi-layered film-coating on pellets using Raman spectroscopy by MCR and PLS analyses. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2017</b> , 114, 194-201	5.7	17
125	Drug Development and Analysis Review. <b>2017</b> , 50, 837-850		6
124	Quantification of active ingredients in semi-solid pharmaceutical formulations by near infrared spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2017</b> , 142, 178-189	3.5	21
123	Portable near-infrared instruments: Application for quality control of polymorphs in pharmaceutical raw materials and calibration transfer. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2017</b> , 134, 287-294	3.5	33

122	The potential of hyperspectral images and partial least square regression for predicting total carbon, total nitrogen and their isotope composition in forest litterfall samples. <b>2017</b> , 17, 2091-2103		15
121	Designing a calibration set in spectral space for efficient development of an NIR method for tablet analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2017</b> , 145, 230-239	3.5	14
120	Process analytical techniques for hot-melt extrusion and their application to amorphous solid dispersions. <b>2017</b> , 409, 4321-4333		32
119	Vibrational spectroscopy and multivariate control charts: A new strategy for monitoring the stability of captopril in the pharmaceutical industry. <b>2017</b> , 133, 279-285		9
118	A review of existing and emerging digital technologies to combat the global trade in fake medicines. <b>2017</b> , 16, 587-602		160
117	PAT-Based Control of Fluid Bed Coating Process Using NIR Spectroscopy to Monitor the Cellulose Coating on Pharmaceutical Pellets. <i>AAPS PharmSciTech</i> , <b>2017</b> , 18, 2045-2054	3.9	14
116	Near-Infrared Spectroscopy in Identification of Pharmaceutical Raw Materials. <b>2017</b> , 1-19		
115	Rapid determination of phytic acid content in cottonseed meal via near infrared spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , <b>2017</b> , 25, 188-195	1.5	5
114	Pharmaceutical cocrystals, salts and polymorphs: Advanced characterization techniques. <i>Advanced Drug Delivery Reviews</i> , <b>2017</b> , 117, 111-146	18.5	73
113	UV imaging of multiple unit pellet system (MUPS) tablets: A case study of acetylsalicylic acid stability. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2017</b> , 119, 447-453	5.7	0
112	Differentiating between long and short range disorder in infra-red spectra: on the meaning of "crystallinity" in silica. <b>2017</b> , 19, 21783-21790		4
111	Real-time monitoring of granule properties during high shear wet granulation by near-infrared spectroscopy with a chemometrics approach. <b>2017</b> , 7, 38307-38317		7
110	Advances in control of food mixing operations. <b>2017</b> , 17, 89-93		6
109	Non-destructive NIR spectral imaging assessment of bone water: Comparison to MRI measurements. <b>2017</b> , 103, 116-124		18
108	The interprocess NIR sampling as an alternative approach to multivariate statistical process control for identifying sources of product-quality variability. <i>Drug Development and Industrial Pharmacy</i> , <b>2017</b> , 43, 379-389	3.6	5
107	Application of quality by design in the current drug development. <i>Asian Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 12, 1-8	9	77
106	Use of near-infrared spectroscopy and multipoint measurements for quality control of pharmaceutical drug products. <b>2017</b> , 409, 683-691		14
105	A Review of PAT Strategies in Secondary Solid Oral Dosage Manufacturing of Small Molecules. <i>Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 667-712	3.9	52

104	An Integrated Software System for Supporting Real-Time Near-Infrared Spectral Big Data Analysis and Management. <b>2017</b> ,		
103	Simultaneous Quantification of Paracetamol and Caffeine in Powder Blends for Tableting by NIR-Chemometry. <i>Journal of Spectroscopy</i> , <b>2017</b> , 2017, 1-8	1.5	7
102	Near infrared spectroscopy: A mature analytical technique with new perspectives - A review. <b>2018</b> , 1026, 8-36		426
101	Fast and non-destructive determination of active pharmaceutical ingredient concentration in an electrospun nanofiber patch using infrared spectroscopy. <b>2018</b> , 140, 256-261		3
100	pH value monitoring during human albumin purification with near infrared spectroscopy and chemometrics. <b>2018</b> , 11, 1850009		4
99	Assessment of Polysaccharides from Mycelia of genus Ganoderma by Mid-Infrared and Near-Infrared Spectroscopy. <i>Scientific Reports</i> , <b>2018</b> , 8, 10	4.9	81
98	Spatially Resolved Spectral Powder Analysis: Experiments and Modeling. <i>Applied Spectroscopy</i> , <b>2018</b> , 72, 521-534	3.1	5
97	Determination of the total volatile basic nitrogen (TVB-N) content in pork meat using hyperspectral fluorescence imaging. <b>2018</b> , 259, 532-539		47
96	Recent advances in the applications of vibrational spectroscopic imaging and mapping to pharmaceutical formulations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 197, 10-29	4.4	38
95	Determining particle size and water content by near-infrared spectroscopy in the granulation of naproxen sodium. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 151, 209-218	3.5	6
94	On-line soft sensing in upstream bioprocessing. <b>2018</b> , 38, 106-121		38
93	Real-time imaging as an emerging process analytical technology tool for monitoring of fluid bed coating process. <i>Pharmaceutical Development and Technology</i> , <b>2018</b> , 23, 596-601	3.4	1
92	Melt extrusion with poorly soluble drugs - An integrated review. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 535, 68-85	6.5	120
91	Overview of PAT process analysers applicable in monitoring of film coating unit operations for manufacturing of solid oral dosage forms. <i>European Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 111, 278-292	5.1	36
90	Artificially generated near-infrared spectral data for classification purposes. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2018</b> , 172, 100-108	3.8	1
89	Toward Point-of-Care Drug Quality Assurance in Developing Countries: Comparison of Liquid Chromatography and Infrared Spectroscopy Quantitation of a Small-Scale Random Sample of Amoxicillin. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2018</b> , 99, 477-481	3.2	1
88	Characterization of Mechanical Property Distributions on Tablet Surfaces. <i>Pharmaceutics</i> , <b>2018</b> , 10,	6.4	13
87	In situ analytical characterization and chemical imaging of tablet coatings using laser induced breakdown spectroscopy (LIBS). <i>Analyst, The</i> , <b>2018</b> , 143, 5000-5007	5	12



86	Tracers used in granular systems: Review. <i>Powder Technology</i> , <b>2018</b> , 340, 274-289	5.2	4
85	Determination of Total Flavonoids Contents and Antioxidant Activity of Leaf by Near-Infrared Reflectance Method. <i>International Journal of Analytical Chemistry</i> , <b>2018</b> , 2018, 8195784	1.4	18
84	Monitoring of thickness and conversion of thick pigmented UV-cured coatings by NIR hyperspectral imaging. <i>Progress in Organic Coatings</i> , <b>2018</b> , 125, 8-14	4.8	11
83	Inline acoustic monitoring to determine fluidized bed performance during pharmaceutical coating. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 549, 293-298	6.5	2
82	3D printed drug products: Non-destructive dose verification using a rapid point-and-shoot approach. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 549, 283-292	6.5	77
81	Assisted Medication Management in Elderly Care Using Miniaturised Near-Infrared Spectroscopy. <b>2018</b> , 2, 1-24		10
80	Compilation of a Near-Infrared Library for Construction of Quantitative Models of Oral Dosage Forms for Amoxicillin and Potassium Clavulanate. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 184	5	2
79	Compressed sensing hyperspectral imaging in the 0.9-2.5 $\mu$ m shortwave infrared wavelength range using a digital micromirror device and InGaAs linear array detector. <i>Applied Optics</i> , <b>2018</b> , 57, 5019-5024	1.7	8
78	Essentials of Aquaphotomics and Its Chemometrics Approaches. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 363	5	57
77	Review Article: Spectroscopic microreactors for heterogeneous catalysis. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 050801	2.9	19
76	Recognition of Pharmacological Bi-Heterocyclic Compounds by Using Terahertz Time Domain Spectroscopy and Chemometrics. <i>Sensors</i> , <b>2019</b> , 19,	3.8	6
75	Near-infrared spectroscopic applications in pharmaceutical particle technology. <i>Drug Development and Industrial Pharmacy</i> , <b>2019</b> , 45, 1565-1589	3.6	15
74	Environmentally-Controlled Near Infrared Spectroscopic Imaging of Bone Water. <i>Scientific Reports</i> , <b>2019</b> , 9, 10199	4.9	11
73	Near-infrared spectroscopy for determining the oxidation stability of diesel, biodiesel and their mixtures. <i>Chemical Papers</i> , <b>2019</b> , 73, 2987-2993	1.9	3
72	Real-Time Release Testing of Herbal Extract Powder by Near-Infrared Spectroscopy considering the Uncertainty around Specification Limits. <i>Journal of Spectroscopy</i> , <b>2019</b> , 2019, 1-10	1.5	2
71	Near-infrared spectroscopic study of molecular interaction in ethanol-water mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 222, 117183	4.4	24
70	Retrospective multivariate analysis of pharmaceutical preparations using H nuclear magnetic resonance (NMR) spectroscopy: Example of 990 heparin samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2019</b> , 173, 18-23	3.5	3
69	Discrimination of <i>Trichosanthis Fructus</i> from Different Geographical Origins Using Near Infrared Spectroscopy Coupled with Chemometric Techniques. <i>Molecules</i> , <b>2019</b> , 24,	4.8	11



68	Optical Fiber Sensor Network and Industrial Applications. <b>2019</b> , 1-46		2
67	Studies on the influence of Cyclodextrin derivatives on the physical stability of famotidine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 219, 346-357	4.4	3
66	Application of Online Near Infrared for Process Understanding of Spray-Drying Solution Preparation. <i>Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 108, 1203-1210	3.9	4
65	4-Acetamidophenol Binding Mechanism with DNA by UV-Vis and FTIR Techniques Based on Binding Energy, LUMO and HOMO Orbitals and Geometry of Molecule. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2019</b> , 233, 1645-1657	3.1	2
64	Recent breakthroughs in the stability testing of pharmaceutical compounds. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 111, 118-127	14.6	14
63	New approaches to identification and characterization of tioconazole in raw material and in pharmaceutical dosage forms. <i>Journal of Pharmaceutical Analysis</i> , <b>2019</b> , 9, 40-48	14	7
62	Evaluation of chemometric approaches for polymorphs quantification in tablets using near-infrared hyperspectral images. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2019</b> , 134, 20-28	5.7	11
61	Fluidised bed granulation of two APIs: QbD approach and development of a NIR in-line monitoring method. <i>Asian Journal of Pharmaceutical Sciences</i> , <b>2020</b> , 15, 506-517	9	14
60	A review of in-line and on-line measurement techniques to monitor industrial mixing processes. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 153, 463-495	5.5	28
59	Near infrared (NIR)-spectroscopy and in-vitro dissolution absorption system 2 (IDAS2) can help detect changes in the quality of generic drugs. <i>Drug Development and Industrial Pharmacy</i> , <b>2020</b> , 46, 80-90 <sup>3,6</sup>		2
58	Process analytical technology. <b>2020</b> , 149-173		0
57	Water determination. <b>2020</b> , 459-477		1
56	In-line characterization of dispersion uniformity evolution during a twin-screw blending extrusion based on near-infrared spectroscopy. <i>Polymer Engineering and Science</i> , <b>2020</b> , 60, 2087-2096	2.3	1
55	Application of Non-Destructive Rapid Determination of Piperine in L. (Black Pepper) Using NIR and Multivariate Statistical Analysis: A Promising Quality Control Tool. <i>Foods</i> , <b>2020</b> , 9,	4.9	1
54	Underpinning mechanistic understanding of the segregation phenomena of pharmaceutical blends using a near-infrared (NIR) spectrometer embedded segregation tester. <i>European Journal of Pharmaceutical Sciences</i> , <b>2020</b> , 154, 105516	5.1	3
53	Feasibility of rapid piperine quantification in whole and black pepper using near infrared spectroscopy and chemometrics. <i>Journal of Food Science</i> , <b>2020</b> , 85, 3094-3101	3.4	3
52	Discrimination of legal and illegal Cannabis spp. according to European legislation using near infrared spectroscopy and chemometrics. <i>Drug Testing and Analysis</i> , <b>2020</b> , 12, 1309-1319	3.5	8
51	Rapid authentication of <i>Pseudostellaria heterophylla</i> (Taizishen) from different regions by near-infrared spectroscopy combined with chemometric methods. <i>Journal of Food Science</i> , <b>2020</b> , 85, 2004-2009	3.4	4

50	Geographic Authentication of Leaves Using Multivariate Analysis and Preliminary Study on the Compositional Response to Environment. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 79	6.2	6
49	The detection and quantification of heptafluoroisobutyronitrile(CFN) and its decomposition products by infrared spectroscopy and chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 233, 118161	4.4	1
48	Raman microimaging as an analytical technique for simultaneous quantification and localization of active principles in pharmaceutical solid dosage forms. <i>Journal of Raman Spectroscopy</i> , <b>2020</b> , 51, 649-659	2.3	2
47	A Comparative Approach to Screen the Capability of Raman and Infrared (Mid- and Near-) Spectroscopy for Quantification of Low-Active Pharmaceutical Ingredient Content Solid Dosage Forms: The Case of Alprazolam. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 661-673	3.1	8
46	Non-destructive dose verification of two drugs within 3D printed polyprintlets. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 577, 119066	6.5	39
45	Quantification of Monomer Units in Insoluble Polymeric Active Pharmaceutical Ingredients Using Solid-State NMR Spectroscopy I: Patiromer. <i>AAPS PharmSciTech</i> , <b>2020</b> , 21, 116	3.9	0
44	Performance indicators for a holistic evaluation of catalyst-based degradation-A case study of selected pharmaceuticals and personal care products (PPCPs). <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123460	12.8	17
43	Review of sensing technologies for measuring powder density variations during pharmaceutical solid dosage form manufacturing. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 135, 116147	14.6	5
42	Modern Instrumental Methods in Solid Dosage Form Analysis. <b>2021</b> ,		
41	Quality by designBased development of vibrational spectroscopy methods. <b>2021</b> , 133-151		1
40	Characterization of connective tissues using near-infrared spectroscopy and imaging. <i>Nature Protocols</i> , <b>2021</b> , 16, 1297-1329	18.8	12
39	Advances in differentiation and identification of foodborne bacteria using near infrared spectroscopy. <i>Analytical Methods</i> , <b>2021</b> , 13, 2558-2566	3.2	2
38	Review on the photonic techniques suitable for automatic monitoring of the composition of multi-materials wastes in view of their posterior recycling. <i>Waste Management and Research</i> , <b>2021</b> , 39, 631-651	4	12
37	PAT Applications of NIR Spectroscopy in the Pharmaceutical Industry. <b>2021</b> , 67-88		0
36	An agile and robust in-line NIR potency deviation detection method for monitoring and control of a continuous direct compression process. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 601, 120521	6.5	3
35	Non-invasive detection of medicines and edible products by direct measurement through vials using near-infrared spectroscopy: A review. <i>Infrared Physics and Technology</i> , <b>2021</b> , 115, 103687	2.7	3
34	Near-Infrared Hyperspectral Imaging as a Monitoring Tool for On-Demand Manufacturing of Inkjet-Printed Formulations. <i>AAPS PharmSciTech</i> , <b>2021</b> , 22, 211	3.9	0
33	Determination of the quality of metronidazole formulations by near-infrared spectrophotometric analysis. <i>Talanta Open</i> , <b>2021</b> , 3, 100027	5.6	3

32	Unveiling meloxicam monohydrate process of dehydration by an at-line vibrational multi-spectroscopy approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 202, 114164	3.5	1
31	Interpretability of selected variables and performance comparison of variable selection methods in a polyethylene and polypropylene NIR classification task. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 258, 119850	4.4	1
30	Integrating sensors for monitoring blend content in a pharmaceutical continuous manufacturing plant. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 606, 120085	6.5	
29	Application of UV dissolution imaging to pharmaceutical systems. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 177, 113949	18.5	2
28	Spectroscopic evaluation on pseudopolymorphs of sodium naproxen. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 261, 120018	4.4	3
27	Differential extinction of vibrational molecular overtone transitions with gold nanorods and its role in surface enhanced near-IR absorption (SENIRA). <i>Optics Express</i> , <b>2019</b> , 27, 29471-29478	3.3	11
26	APPLICATIONS OF MINIATURIZED AND PORTABLE NEAR INFRARED (NIR), FOURIER TRANSFORM INFRARED (FT-IR) AND RAMAN SPECTROMETERS FOR THE INSPECTION AND CONTROL OF PHARMACEUTICAL PRODUCTS. <i>Ankara Universitesi Eczacilik Fakultesi Dergisi</i> , 188-203	0	2
25	Diffuse reflectance near infrared-chemometric methods development and validation of amoxicillin capsule formulations. <i>Journal of Pharmacy and Bioallied Sciences</i> , <b>2016</b> , 8, 152-60	1.1	4
24	Development and physicochemical characterization of sirolimus solid dispersions prepared by solvent evaporation method. <i>Advanced Pharmaceutical Bulletin</i> , <b>2014</b> , 4, 369-74	4.5	10
23	QUALITY BY DESIGN (QBD) COMO FERRAMENTA PARA OTIMIZA <sup>ç</sup> ÃO DOS PROCESSOS FARMAC <sup>ê</sup> UTICOS. <i>Infarma: Pharmaceutical Sciences</i> , <b>2017</b> , 29, 5-12	0.1	0
22	Nondestructive Evaluation of Solid Pharmaceutical Products Using Wavelet Transformations and Multispectral Data. <i>Journal of Testing and Evaluation</i> , <b>2018</b> , 46, 20160388	1	
21	Optical Fiber Sensor Network and Industrial Applications. <b>2019</b> , 1839-1884		
20	A Rapid and Nondestructive Method for the Prediction of Ibuprofen Tablet Hardness Using NIR Diffuse Reflectance Spectroscopy. <i>Current Pharmaceutical Analysis</i> , <b>2019</b> , 15, 439-446	0.6	0
19	A weighted twin support vector machine as a potential discriminant analysis tool and evaluation of its performance for near-infrared spectroscopic discrimination of the geographical origins of diverse agricultural products. <i>Talanta</i> , <b>2022</b> , 237, 122973	6.2	1
18	A novel spatially resolved interactance spectroscopy system to estimate degree of red coloration in red-fleshed apple. <i>Scientific Reports</i> , <b>2021</b> , 11, 21982	4.9	
17	The concentrations of immunoglobulins in bovine colostrum determined by the gold standard method are genetically correlated with their near-infrared prediction. <i>Genetics Selection Evolution</i> , <b>2021</b> , 53, 87	4.9	0
16	Elektromagnetische Eigenschaften. <b>2021</b> , 441-469		
15	A novel wavelength selection algorithm based on permutation analysis and variable combination. <b>2020</b> ,		

14	Benchtop NIR data standardization on handheld spectrometers to identify paracetamol tablets. <i>Journal of Chemometrics</i> ,	1.6	
13	Towards real time release testing of Shuxuening injection based on near infrared spectroscopy and accuracy profile. <i>Journal of Near Infrared Spectroscopy</i> , 096703352110618	1.5	
12	Application of Sine Cosine Algorithm in Eigenvalue Extraction of Infrared Spectrum. <b>2021</b> ,		
11	DataSheet_1.docx. <b>2020</b> ,		
10	Monitoring and Predicting the Size of Fine Particles Prepared in a Fluidized-Bed Granulator Using a Handheld-Type Raman Spectrometer.. <i>Chemical and Pharmaceutical Bulletin</i> , <b>2022</b> , 70, 362-368	1.9	○
9	Using Vis-NIR Spectroscopy for Predicting Quality Compounds in Foods. <i>Sensors</i> , <b>2022</b> , 22, 4845	3.8	
8	Real-Time Monitoring of Critical Quality Attributes during High-Shear Wet Granulation Process by Near-Infrared Spectroscopy Effect of Water Addition and Stirring Speed on Pharmaceutical Properties of the Granules. <i>Pharmaceuticals</i> , <b>2022</b> , 15, 822	5.2	
7	Post-Mortem Interval of Human Skeletal Remains Estimated with Handheld NIR Spectrometry. <i>Biology</i> , <b>2022</b> , 11, 1020	4.9	2
6	Shortwave Infrared Single-Pixel Spectral Imaging based on GSST Phase-Change Metasurface.		
5	Comparison of the Robustness of Pellet Film Coating with and without In-Process Coating Thickness Evaluation. <b>2022</b> , 14, 2274		○
4	Feature Reduction for the Classification of Bruise Damage to Apple Fruit Using a Contactless FT-NIR Spectroscopy with Machine Learning. <b>2023</b> , 12, 210		1
3	The use of blockchain technology in IoT-based healthcare: A concise guide. <b>2023</b> , 183-198		○
2	Influx of Near-Infrared Technology in Microplastic Community: A Bibliometric Analysis. <b>2023</b> , 2, 107-121		○
1	Infrared to Short-Wave Infrared-Emitting Phosphors for Light-Emitting Diode Applications.		○