

Christian W Huck

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5397632/publications.pdf>

Version: 2024-02-01

298
papers

12,370
citations

38738
50
h-index

37202
96
g-index

308
all docs

308
docs citations

308
times ranked

13579
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid discrimination of <i>Curcuma longa</i> and <i>Curcuma xanthorrhiza</i> using Direct Analysis in Real Time Mass Spectrometry and Near Infrared Spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120347.	3.9	14
2	Quantification of Silymarin in <i>Silybi mariani fructus</i> : Challenging the Analytical Performance of Benchtop vs. Handheld NIR Spectrometers on Whole Seeds. <i>Planta Medica</i> , 2022, 88, 20-32.	1.3	6
3	A unique approach for in-situ monitoring of the THCA decarboxylation reaction in solid state. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120471.	3.9	5
4	Portable vs. Benchtop NIR-Sensor Technology for Classification and Quality Evaluation of Black Truffle. <i>Molecules</i> , 2022, 27, 589.	3.8	9
5	The Crosslinker Matters: Vinylimidazole-Based Anion Exchange Polymer for Dispersive Solid-Phase Extraction of Phenolic Acids. <i>Separations</i> , 2022, 9, 72.	2.4	1
6	Visible and Near-Infrared hyperspectral imaging (HSI) can reliably quantify CD3 and CD45 positive inflammatory cells in myocarditis: Pilot study on formalin-fixed paraffin-embedded specimens from myocard obtained during autopsy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 274, 121092.	3.9	3
7	Miniaturized NIR Spectroscopy in Food Analysis and Quality Control: Promises, Challenges, and Perspectives. <i>Foods</i> , 2022, 11, 1465.	4.3	64
8	In silico NIR spectroscopy – A review. Molecular fingerprint, interpretation of calibration models, understanding of matrix effects and instrumental difference. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 279, 121438.	3.9	13
9	Infrared and near-infrared spectroscopic techniques for the quality control of herbal medicines. , 2022, , 603-627.		1
10	Post-Mortem Interval of Human Skeletal Remains Estimated with Handheld NIR Spectrometry. <i>Biology</i> , 2022, 11, 1020.	2.8	7
11	<i>Theae nigrae folium</i> : Comparing the analytical performance of benchtop and handheld near-infrared spectrometers. <i>Talanta</i> , 2021, 221, 121165.	5.5	39
12	Analytical Study of Solution-Processed Tin Oxide as Electron Transport Layer in Printed Perovskite Solar Cells. <i>Advanced Materials Technologies</i> , 2021, 6, 2000282.	5.8	16
13	Near-infrared spectroscopy in quality control of <i>Piper nigrum</i> : A comparison of performance of benchtop and handheld spectrometers. <i>Talanta</i> , 2021, 223, 121809.	5.5	36
14	Fatty acid profiling of bovine milk and cheese from six European areas by GC-FID and GC-MS. <i>International Journal of Dairy Technology</i> , 2021, 74, 215-224.	2.8	14
15	Hyperspectral imaging as a diagnostic tool to differentiate between amalgam tattoos and other dark pigmented intraoral lesions. <i>Journal of Biophotonics</i> , 2021, 14, e202000424.	2.3	4
16	Challenging handheld NIR spectrometers with moisture analysis in plant matrices: Performance of PLSR vs. GPR vs. ANN modelling. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 249, 119342.	3.9	29
17	NIR spectroscopy of natural medicines supported by novel instrumentation and methods for data analysis and interpretation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 193, 113686.	2.8	43
18	Principles and Applications of Miniaturized Near-Infrared (NIR) Spectrometers. <i>Chemistry - A European Journal</i> , 2021, 27, 1514-1532.	3.3	169

#	ARTICLE	IF	CITATIONS
19	Advances, challenges and perspectives of quantum chemical approaches in molecular spectroscopy of the condensed phase. <i>Chemical Society Reviews</i> , 2021, 50, 10917-10954.	38.1	34
20	Novel near-infrared and Raman spectroscopic technologies for print and photography identification, classification, and authentication. <i>NIR News</i> , 2021, 32, 11-16.	0.3	2
21	Mid-infrared spectroscopy as process analytical technology tool for estimation of THC and CBD content in Cannabis flowers and extracts. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 251, 119422.	3.9	28
22	Simultaneous Quantification of 14 Compounds in <i>Achillea millefolium</i> by GC-MS Analysis and Near-Infrared Spectroscopy Combined with Multivariate Techniques. <i>Journal of Analytical Methods in Chemistry</i> , 2021, 2021, 1-10.	1.6	2
23	Current and future research directions in computer-aided near-infrared spectroscopy: A perspective. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 254, 119625.	3.9	26
24	Application of mid-infrared microscopic imaging for the diagnosis and classification of human lymphomas. <i>Journal of Biophotonics</i> , 2021, 14, e202100079.	2.3	7
25	Theoretical Simulation of Near-Infrared Spectrum of Piperine: Insight into Band Origins and the Features of Regression Models. <i>Applied Spectroscopy</i> , 2021, 75, 1022-1032.	2.2	20
26	Anharmonic DFT Study of Near-Infrared Spectra of Caffeine: Vibrational Analysis of the Second Overtones and Ternary Combinations. <i>Molecules</i> , 2021, 26, 5212.	3.8	12
27	Innovative Combination of Dispersive Solid Phase Extraction Followed by NIR-Detection and Multivariate Data Analysis for Prediction of Total Polyphenolic Content. <i>Molecules</i> , 2021, 26, 4807.	3.8	3
28	Spectra-structure correlations in NIR region of polymers from quantum chemical calculations. The cases of aromatic ring, C=O, C-N and C-Cl functionalities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120085.	3.9	26
29	Near-Infrared Spectra of High-Density Crystalline H ₂ O Ices II, IV, V, VI, IX, and XII. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1062-1068.	2.5	6
30	Bio-applications of NIR Spectroscopy. , 2021, , 413-435.		3
31	Cell-specific expression of <i>Hfe</i> determines the outcome of <i>Salmonella enterica</i> serovar Typhimurium infection in mice. <i>Haematologica</i> , 2021, 106, 0-0.	3.5	4
32	Insect Protein Content Analysis in Handcrafted Fitness Bars by NIR Spectroscopy. Gaussian Process Regression and Data Fusion for Performance Enhancement of Miniaturized Cost-Effective Consumer-Grade Sensors. <i>Molecules</i> , 2021, 26, 6390.	3.8	25
33	Anharmonicity and Spectra-Structure Correlations in MIR and NIR Spectra of Crystalline Menadione (Vitamin K3). <i>Molecules</i> , 2021, 26, 6779.	3.8	5
34	Near-Infrared (NIR) Sensors in Environmental Analysis. , 2021, , .		2
35	The coupling of localised, vibrational modes – Probing OH-bands of organic molecules via a two dimensional Numerov approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117377.	3.9	2
36	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020, 14, 28-117.	14.6	2,153

#	ARTICLE	IF	CITATIONS
37	Quantification of melamine in infant formula using a handheld Raman spectrometer “ Performance boost with customized Arduino-controlled rotation setup. <i>Talanta</i> , 2020, 209, 120488.	5.5	12
38	Deposition-Dependent Morphology and Infrared Vibrational Spectra of Brominated Tetraazaperopyrene Layers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 769-779.	3.1	2
39	Enriching and Quantifying Porous Single Layer 2D Polymers by Exfoliation of Chemically Modified van der Waals Crystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5683-5695.	13.8	31
40	Enriching and Quantifying Porous Single Layer 2D Polymers by Exfoliation of Chemically Modified van der Waals Crystals. <i>Angewandte Chemie</i> , 2020, 132, 5732-5744.	2.0	7
41	Scald-Cold: Joint Austrian-Italian consortium in the Euregio project for the comprehensive dissection of the superficial scald in apples. <i>NIR News</i> , 2020, 31, 5-9.	0.3	1
42	Profiling of Mitochondrial DNA Heteroplasmy in a Prospective Oral Squamous Cell Carcinoma Study. <i>Cancers</i> , 2020, 12, 1933.	3.7	11
43	Interface properties and dopability of an organic semiconductor: TAPP-Br variable as molecule but inert in the condensed phase. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9898-9908.	5.5	1
44	Principles and Applications of Vibrational Spectroscopic Imaging in Plant Science: A Review. <i>Frontiers in Plant Science</i> , 2020, 11, 1226.	3.6	35
45	Near-Infrared Spectroscopy as a Rapid Screening Method for the Determination of Total Anthocyanin Content in <i>Sambucus Fructus</i> . <i>Sensors</i> , 2020, 20, 4983.	3.8	29
46	Suitability of Biodegradable Materials in Comparison with Conventional Packaging Materials for the Storage of Fresh Pork Products over Extended Shelf-Life Periods. <i>Foods</i> , 2020, 9, 1802.	4.3	8
47	Effect of conformational isomerism on NIR spectra of ethanol isotopologues. Spectroscopic and anharmonic DFT study. <i>Journal of Molecular Liquids</i> , 2020, 310, 113271.	4.9	14
48	Vibrational coupling to hydration shell “ Mechanism to performance enhancement of qualitative analysis in NIR spectroscopy of carbohydrates in aqueous environment. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 237, 118359.	3.9	17
49	Amino Acid Profiles and Compositions of Different Cultivars of <i>Panicum miliaceum</i> L.. <i>Chromatographia</i> , 2020, 83, 829-837.	1.3	16
50	Near-Infrared Spectroscopy in Bio-Applications. <i>Molecules</i> , 2020, 25, 2948.	3.8	185
51	Preliminary study on using near-infrared spectroscopy at 1.6–2.4 µm for document examination. <i>Infrared Physics and Technology</i> , 2020, 105, 103212.	2.9	6
52	Differentiation of South African Game Meat Using Near-Infrared (NIR) Spectroscopy and Hierarchical Modelling. <i>Molecules</i> , 2020, 25, 1845.	3.8	10
53	Biomolecular and bioanalytical applications of infrared spectroscopy “ A review. <i>Analytica Chimica Acta</i> , 2020, 1133, 150-177.	5.4	107
54	Handheld near-infrared spectrometers: Where are we heading?. <i>NIR News</i> , 2020, 31, 28-35.	0.3	96

#	ARTICLE	IF	CITATIONS
55	Solvation effects on wavenumbers and absorption intensities of the OH-stretch vibration in phenolic compounds – electrical- and mechanical anharmonicity – via a combined DFT/Numerov approach. Physical Chemistry Chemical Physics, 2020, 22, 13017-13029.	2.8	14
56	Investigations into the total antioxidant capacities of cultivars of gluten-free grains using near-infrared spectroscopy. Food Control, 2019, 95, 189-195.	5.5	20
57	At-Line Monitoring of the Extraction Process of Rosmarini Folium via Wet Chemical Assays, UHPLC Analysis, and Newly Developed Near-Infrared Spectroscopic Analysis Methods. Molecules, 2019, 24, 2480.	3.8	5
58	Investigations into the use of handheld near-infrared spectrometer and novel semi-automated data analysis for the determination of protein content in different cultivars of Panicum miliaceum L.. Talanta, 2019, 205, 120115.	5.5	28
59	Improved Intestinal Mucus Permeation of Vancomycin via Incorporation Into Nanocarrier Containing Papain-Palmitate. Journal of Pharmaceutical Sciences, 2019, 108, 3329-3339.	3.3	11
60	Identification of the historic photographic print materials using portable NIR and PCA. Microchemical Journal, 2019, 150, 104202.	4.5	7
61	IR Spectra of Crystalline Nucleobases: Combination of Periodic Harmonic Calculations with Anharmonic Corrections Based on Finite Models. Journal of Physical Chemistry B, 2019, 123, 10001-10013.	2.6	18
62	The essential role of omni-capable research laboratories in advancing analytical spectroscopy. NIR News, 2019, 30, 30-34.	0.3	0
63	Investigations into the Performance of a Novel Pocket-Sized Near-Infrared Spectrometer for Cheese Analysis. Molecules, 2019, 24, 428.	3.8	38
64	Spectra – Structure Correlations in Isotopomers of Ethanol (CX ₃ CX ₂ OX; X = H, D): Combined Near-Infrared and Anharmonic Computational Study. Molecules, 2019, 24, 2189.	3.8	19
65	Resonant Plasmonic Nanoslits Enable in Vitro Observation of Single-Monolayer Collagen-Peptide Dynamics. ACS Sensors, 2019, 4, 1966-1972.	7.8	16
66	Novel asymmetric 1,3-di(alkyloxy)imidazolium based ionic liquids for liquid-phase microextraction of selected analgesics and estrogens from aqueous samples. Journal of Molecular Liquids, 2019, 289, 111157.	4.9	7
67	The fundamental handbook for analytical spectroscopy. Release of the second edition of – Chemometrics in spectroscopy –™ by Howard Mark and Jerry Workman, Jr. and its impact on the spectroscopic community. NIR News, 2019, 30, 11-13.	0.3	0
68	Distinct Difference in Sensitivity of NIR vs. IR Bands of Melamine to Inter-Molecular Interactions with Impact on Analytical Spectroscopy Explained by Anharmonic Quantum Mechanical Study. Molecules, 2019, 24, 1402.	3.8	38
69	Forensic classification of black inkjet prints using Fourier transform near-infrared spectroscopy and Linear Discriminant Analysis. Forensic Science International, 2019, 299, 128-134.	2.2	23
70	Celebrating the 20th Anniversary of NIR Spectroscopy at the University of Innsbruck, Austria: Contributions to material-, bio-, medicinal plant and food analysis. NIR News, 2019, 30, 22-25.	0.3	2
71	Critical Review on the Utilization of Handheld and Portable Raman Spectrometry in Meat Science. Foods, 2019, 8, 49.	4.3	39
72	Comparison of Multivariate Regression Models Based on Water- and Carbohydrate-Related Spectral Regions in the Near-Infrared for Aqueous Solutions of Glucose. Molecules, 2019, 24, 3696.	3.8	14

#	ARTICLE	IF	CITATIONS
73	Advances in Near-Infrared Spectroscopy and Related Computational Methods. <i>Molecules</i> , 2019, 24, 4370.	3.8	13
74	Chemical Identification of Single Ultrafine Particles Using Surface-Enhanced Infrared Absorption. <i>Physical Review Applied</i> , 2019, 11, .	3.8	11
75	Optimization of an innovative vinylimidazole-based monolithic stationary phase and its use for pressured capillary electrochromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 162, 117-123.	2.8	7
76	Breakthrough Potential in Near-Infrared Spectroscopy: Spectra Simulation. A Review of Recent Developments. <i>Frontiers in Chemistry</i> , 2019, 7, 48.	3.6	170
77	Hemodialysis monitoring using mid- and near-infrared spectroscopy with partial least squares regression. <i>Journal of Biophotonics</i> , 2018, 11, e201700365.	2.3	14
78	Noninvasive, high-speed, near-infrared imaging of the biomolecular distribution and molecular mechanism of embryonic development in fertilized fish eggs. <i>Journal of Biophotonics</i> , 2018, 11, e201700115.	2.3	17
79	Infrared spectroscopic imaging studies of medicinal plants. <i>NIR News</i> , 2018, 29, 9-14.	0.3	0
80	Handling of uncertainty due to interference fringe in FT-NIR transmittance spectroscopy – Performance comparison of interference elimination techniques using glucose-water system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 208-215.	3.9	7
81	In-situ surface-enhanced Raman scattering and FT-Raman spectroscopy of black prints. <i>Vibrational Spectroscopy</i> , 2018, 94, 16-21.	2.2	12
82	Near-infrared and Mid-infrared Spectroscopic Techniques for a Fast and Nondestructive Quality Control of Thymi herba. <i>Planta Medica</i> , 2018, 84, 420-427.	1.3	11
83	Near-Infrared Spectroscopy in Biological Molecules and Tissues. , 2018, , 1-19.		3
84	Amalgam tattoo versus melanocytic neoplasm - Differential diagnosis of dark pigmented oral mucosa lesions using infrared spectroscopy. <i>PLoS ONE</i> , 2018, 13, e0207026.	2.5	5
85	Direct Determination of Ni ²⁺ -Capacity of IMAC Materials Using Near-Infrared Spectroscopy. <i>Molecules</i> , 2018, 23, 3072.	3.8	6
86	Synthesis and Application of Histidine-Modified Poly(Glycidyl Methacrylate/Ethylene Glycol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 To Chromatographia, 2018, 81, 1467-1474.	1.3	2
87	Advanced Infrared Spectroscopic Technologies for Natural Product Quality Control. , 2018, , 279-294.		0
88	Near-IR Spectroscopy and Its Applications. , 2018, , 11-38.		24
89	Evaluation of the performance of three hand-held near-infrared spectrometer through investigation of total antioxidant capacity in gluten-free grains. <i>Talanta</i> , 2018, 189, 233-240.	5.5	48
90	Near infrared spectroscopy as an alternative quick method for simultaneous detection of multiple adulterants in whey protein-based sports supplement. <i>Food Control</i> , 2018, 94, 331-340.	5.5	14

#	ARTICLE	IF	CITATIONS
91	NIR spectra simulation of thymol for better understanding of the spectra forming factors, phase and concentration effects and PLS regression features. <i>Journal of Molecular Liquids</i> , 2018, 268, 895-902.	4.9	42
92	NIR Spectra Simulations by Anharmonic DFT-Saturated and Unsaturated Long-Chain Fatty Acids. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6931-6944.	2.6	39
93	Impact of Metal-Optical Properties on Surface-Enhanced Infrared Absorption. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15678-15687.	3.1	14
94	Comparison of sensitivity to artificial spectral errors and multivariate LOD in NIR spectroscopy – Determining the performance of miniaturizations on melamine in milk powder. <i>Talanta</i> , 2017, 166, 109-118.	5.5	30
95	An innovative monolithic zwitterionic stationary phase for the separation of phenolic acids in coffee bean extracts by capillary electrochromatography. <i>Analytica Chimica Acta</i> , 2017, 963, 136-142.	5.4	26
96	Influence of Non-fundamental Modes on Mid-infrared Spectra: Anharmonic DFT Study of Aliphatic Ethers. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1412-1424.	2.5	27
97	Thiolated chitosan micelles: Highly mucoadhesive drug carriers. <i>Carbohydrate Polymers</i> , 2017, 167, 250-258.	10.2	66
98	Novel Molecular Spectroscopic Multimethod Approach for Monitoring Water Absorption/Desorption Kinetics of CAD/CAM Poly(Methyl Methacrylate) Prosthodontics. <i>Applied Spectroscopy</i> , 2017, 71, 1600-1612.	2.2	6
99	Assessing the predictability of anharmonic vibrational modes at the example of hydroxyl groups – ad hoc construction of localised modes and the influence of structural solute – solvent motifs. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11990-12001.	2.8	22
100	Nanoantenna-Enhanced Infrared Spectroscopic Chemical Imaging. <i>ACS Sensors</i> , 2017, 2, 655-662.	7.8	19
101	Comparison of multivariate analysis methods for extracting the paraffin component from the paraffin-embedded cancer tissue spectra for Raman imaging. <i>Scientific Reports</i> , 2017, 7, 44890.	3.3	42
102	Application of benchtop and portable near-infrared spectrometers for predicting the optimum harvest time of <i>Verbena officinalis</i> . <i>Talanta</i> , 2017, 169, 70-76.	5.5	43
103	Critical Evaluation of NIR and ATR-IR Spectroscopic Quantifications of Rosmarinic Acid in <i>Rosmarini folium</i> Supported by Quantum Chemical Calculations. <i>Planta Medica</i> , 2017, 83, 1076-1084.	1.3	25
104	Surface-Enhanced Infrared Spectroscopy Using Resonant Nanoantennas. <i>Chemical Reviews</i> , 2017, 117, 5110-5145.	47.7	457
105	Temperature Drift of Conformational Equilibria of Butyl Alcohols Studied by Near-Infrared Spectroscopy and Fully Anharmonic DFT. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1950-1961.	2.5	48
106	Selected latest applications of molecular spectroscopy in natural product analysis. <i>Phytochemistry Letters</i> , 2017, 20, 491-498.	1.2	17
107	Critical evaluation of spectral information of benchtop vs. portable near-infrared spectrometers: quantum chemistry and two-dimensional correlation spectroscopy for a better understanding of PLS regression models of the rosmarinic acid content in <i>Rosmarini folium</i> . <i>Analyst</i> , The, 2017, 142, 455-464.	3.5	94
108	Theoretical and technical advancements of near-infrared spectroscopy and its operational impact in industry. <i>NIR News</i> , 2017, 28, 17-21.	0.3	4

#	ARTICLE	IF	CITATIONS
109	In-Tip Lanthanum Oxide Monolith for the Enrichment of Phosphorylated Biomolecules. Analytical Chemistry, 2017, 89, 10232-10238.	6.5	23
110	Miniaturized NIR spectroscopy for the determination of main carbohydrates in syrup. NIR News, 2017, 28, 3-6.	0.3	15
111	Do CAD/CAM dentures really release less monomer than conventional dentures?. Clinical Oral Investigations, 2017, 21, 1697-1705.	3.0	97
112	Quantum chemical calculation of NIR spectra of practical materials. NIR News, 2017, 28, 13-20.	0.3	12
113	A Review of Mid-Infrared and Near-Infrared Imaging: Principles, Concepts and Applications in Plant Tissue Analysis. Molecules, 2017, 22, 168.	3.8	257
114	Advances of Vibrational Spectroscopic Technologies in Life Sciences. Molecules, 2017, 22, 278.	3.8	7
115	Recent Developments in Solid-Phase Extraction for Near and Attenuated Total Reflection Infrared Spectroscopic Analysis. Molecules, 2016, 21, 633.	3.8	11
116	Plasmonic Light Scattering and Infrared Vibrational Signal Enhancement. ACS Symposium Series, 2016, , 1-19.	0.5	3
117	Evaluation of benchtop versus portable near-infrared spectroscopic method combined with multivariate approaches for the fast and simultaneous quantitative analysis of main sugars in syrup formulations. Food Control, 2016, 68, 97-104.	5.5	40
118	Development of oral self nano-emulsifying delivery system(s) of lanreotide with improved stability against presystemic thiol-disulfide exchange reactions. Expert Opinion on Drug Delivery, 2016, 13, 923-929.	5.0	25
119	High-Temperature Carbon Deposition on Oxide Surfaces by CO Disproportionation. Journal of Physical Chemistry C, 2016, 120, 1795-1807.	3.1	32
120	Gadolinium oxide: Exclusive selectivity and sensitivity in the enrichment of phosphorylated biomolecules. Journal of Separation Science, 2016, 39, 4175-4182.	2.5	6
121	An industry perspective of food fraud. Current Opinion in Food Science, 2016, 10, 32-37.	8.0	37
122	How Intrinsic Phonons Manifest in Infrared Plasmonic Resonances of Crystalline Lead Nanowires. Journal of Physical Chemistry C, 2016, 120, 19302-19307.	3.1	3
123	Porous Gold Nanowires: Plasmonic Response and Surface-Enhanced Infrared Absorption. Advanced Optical Materials, 2016, 4, 1838-1845.	7.3	22
124	Computational and quantum chemical study on high-frequency dielectric function of tert-butylmethyl ether in mid-infrared and near-infrared regions. Journal of Molecular Liquids, 2016, 224, 1189-1198.	4.9	9
125	The Future Role of near Infrared Spectroscopy in Polymer and Chemical Analysis. NIR News, 2016, 27, 17-23.	0.3	6
126	Modern Safety Control for Meat Products: Near Infrared Spectroscopy Utilised for Detection of Contaminations and Adulterations of Premium Veal Products. NIR News, 2016, 27, 11-13.	0.3	11

#	ARTICLE	IF	CITATIONS
127	2,2â€²Dithiodinicotinyl ligands: Key to more reactive thiomers. International Journal of Pharmaceutics, 2016, 503, 199-206.	5.2	18
128	New approach to optimize near-infrared spectra with design of experiments and determination of milk compounds as influence factors for changing milk over time. Food Chemistry, 2016, 212, 552-560.	8.2	20
129	Vibrational spectroscopic methods for the overall quality analysis of washing powders. Talanta, 2016, 148, 329-335.	5.5	5
130	Simultaneous detection of total antioxidant capacity and total soluble solids content by Fourier transform near-infrared (FT-NIR) spectroscopy: A quick and sensitive method for on-site analyses of apples. Food Control, 2016, 66, 27-37.	5.5	60
131	Near-infrared reflection spectroscopy and partial least squares regression to predict Î±-farnesene and conjugated trienol content in apples during storage. Postharvest Biology and Technology, 2016, 117, 49-56.	6.0	10
132	Food fraud: An exploratory study for measuring consumer perception towards mislabeled food products and influence on self-authentication intentions. Trends in Food Science and Technology, 2016, 50, 211-218.	15.1	138
133	Novel bioadhesive polymers as intra-articular agents: Chondroitin sulfate-cysteine conjugates. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 101, 25-32.	4.3	31
134	Multi-method Approach to Trace the Geographical Origin of Alpine Milk: a Case Study of Tyrol Region. Food Analytical Methods, 2016, 9, 1262-1273.	2.6	38
135	Comparison of near-infrared diffuse reflectance (NIR) and attenuated-total-reflectance mid-infrared (ATR-IR) spectroscopic determination of the antioxidant capacity of Sambuci flos with classic wet chemical methods (assays). Analytical Methods, 2016, 8, 97-104.	2.7	29
136	Can thiolation render a low molecular weight polymer of just 20-kDa mucoadhesive?. Drug Development and Industrial Pharmacy, 2016, 42, 686-693.	2.0	11
137	Critical Review Upon the Role and Potential of Fluorescence and Near-Infrared Imaging and Absorption Spectroscopy in Cancer Related Cells, Serum, Saliva, Urine and Tissue Analysis. Current Medicinal Chemistry, 2016, 23, 3052-3077.	2.4	35
138	A Near Infrared Spectroscopy (NIRS) and Chemometric Approach to Improve Apple Fruit Quality Management: A Case Study on the Cultivars â€œCripps Pinkâ€ and â€œBraeburnâ€. Molecules, 2015, 20, 13603-13619.	3.8	27
139	Nmnat1-Rbp7 Is a Conserved Fusion-Protein That Combines NAD+ Catalysis of Nmnat1 with Subcellular Localization of Rbp7. PLoS ONE, 2015, 10, e0143825.	2.5	1
140	Metallic Properties of the Si(111) âˆ’ 5 Å— 2 Å— Au Surface from Infrared Plasmon Polaritons and Ab Initio Theory. Nano Letters, 2015, 15, 4155-4160.	9.1	27
141	Synthesis and In Vitro Evaluation of Thiolated Carrageenan. Journal of Pharmaceutical Sciences, 2015, 104, 2523-2530.	3.3	24
142	Mucus permeating carriers: formulation and characterization of highly densely charged nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 97, 273-279.	4.3	113
143	Poly(N-vinylimidazole/ethylene glycol dimethacrylate) for the purification and isolation of phenolic acids. Analytica Chimica Acta, 2015, 885, 199-206.	5.4	19
144	Synthesis and characterization of thiolated Î²-cyclodextrin as a novel mucoadhesive excipient for intra-oral drug delivery. Carbohydrate Polymers, 2015, 132, 187-195.	10.2	51

#	ARTICLE	IF	CITATIONS
145	Newly Fabricated Magnetic Lanthanide Oxides Core-Shell Nanoparticles in Phosphoproteomics. <i>Analytical Chemistry</i> , 2015, 87, 4726-4732.	6.5	28
146	Gold Nanoantennas on a Pedestal for Plasmonic Enhancement in the Infrared. <i>ACS Photonics</i> , 2015, 2, 497-505.	6.6	76
147	Methods for detection of pork adulteration in veal product based on FT-NIR spectroscopy for laboratory, industrial and on-site analysis. <i>Food Control</i> , 2015, 57, 258-267.	5.5	106
148	Infrared Spectroscopic Technologies for the Quality Control of Herbal Medicines. , 2015, , 477-493.		4
149	Plasmonic Enhancement of Infrared Vibrational Signals: Nanoslits versus Nanorods. <i>ACS Photonics</i> , 2015, 2, 1489-1497.	6.6	95
150	Importance of Plasmonic Scattering for an Optimal Enhancement of Vibrational Absorption in SEIRA with Linear Metallic Antennas. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26652-26662.	3.1	75
151	The performance of RI-MP2 based potential energy surfaces in a vibrational self-consistent field treatment. <i>Chemical Physics Letters</i> , 2015, 619, 66-70.	2.6	4
152	Advances of infrared spectroscopy in natural product research. <i>Phytochemistry Letters</i> , 2015, 11, 384-393.	1.2	54
153	Validation of Next-Generation Sequencing of Entire Mitochondrial Genomes and the Diversity of Mitochondrial DNA Mutations in Oral Squamous Cell Carcinoma. <i>PLoS ONE</i> , 2015, 10, e0135643.	2.5	41
154	Largely Reduced Grid Densities in a Vibrational Self-Consistent Field Treatment Do Not Significantly Impact the Resulting Wavenumbers. <i>Molecules</i> , 2014, 19, 21253-21275.	3.8	12
155	Au-Nanomaterials as a Superior Choice for Near-Infrared Photothermal Therapy. <i>Molecules</i> , 2014, 19, 20580-20593.	3.8	86
156	The impact of highly correlated potential energy surfaces on the anharmonically corrected IR spectrum of acetonitrile. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 545-555.	3.9	5
157	Automatic sample rotation for simultaneous determination of geographical origin and quality characteristics of apples based on near infrared spectroscopy (NIRS). <i>Vibrational Spectroscopy</i> , 2014, 72, 97-104.	2.2	45
158	Computational Vibrational Spectroscopy of glycine in aqueous solution – Fundamental considerations towards feasible methodologies. <i>Chemical Physics</i> , 2014, 435, 21-28.	1.9	16
159	Advances of vibrational spectroscopic methods in phytomics and bioanalysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 87, 26-35.	2.8	27
160	Comparison of NIR and ATR-IR spectroscopy for the determination of the antioxidant capacity of <i>Primulae flos cum calycibus</i> . <i>Analytical Methods</i> , 2014, 6, 6343.	2.7	28
161	Surface-Enhanced Infrared Spectroscopy Using Nanometer-Sized Gaps. <i>ACS Nano</i> , 2014, 8, 4908-4914.	14.6	192
162	Zirconium silicate assisted removal of residual proteins after organic solvent deproteinization of human plasma, enhancing the stability of the LC-ESI-MS response for the bioanalysis of small molecules. <i>Analytica Chimica Acta</i> , 2014, 852, 284-292.	5.4	7

#	ARTICLE	IF	CITATIONS
163	Solid-phase extraction of plant thionins employing aluminum silicate based extraction columns. <i>Journal of Separation Science</i> , 2014, 37, 2200-2207.	2.5	4
164	A Dissociative Quantum Mechanical/Molecular Mechanical Molecular Dynamics Simulation and Infrared Experiments Reveal Characteristics of the Strongly Hydrolytic Arsenic(III). <i>Inorganic Chemistry</i> , 2014, 53, 11861-11870.	4.0	10
165	Structure and Dynamics of Chromatographically Relevant Fe(III)-Chelates. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12232-12238.	2.6	4
166	Reproducible quantification of ethanol in gasoline via a customized mobile near-infrared spectrometer. <i>Analytica Chimica Acta</i> , 2014, 826, 61-68.	5.4	70
167	Alps food authentication, typicality and intrinsic quality by near infrared spectroscopy. <i>Food Research International</i> , 2014, 62, 984-990.	6.2	31
168	Quantitative Analysis of Salicylic Acid and its Derivatives in <i>Primulae radix</i> by High Performance Liquid Chromatography-Diode Array Detection- Electrospray Ionization Mass Spectrometry (HPLC-DAD-ESI-MS) and Simultaneous Determination of Total Polyphenol Content (TPC). <i>Current Analytical Chemistry</i> , 2014, 10, 271-279.	1.2	5
169	Chapter 10. Near-infrared spectroscopic studies of nanostructured materials. <i>Spectroscopic Properties of Inorganic and Organometallic Compounds</i> , 2014, , 274-285.	0.4	0
170	Solid-phase extraction method for the isolation of plant thionins from European mistletoe, wheat and barley using zirconium silicate embedded in poly(styrene-co-divinylbenzene) hollow-monoliths. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7509-7521.	3.7	14
171	Fourier transform infrared imaging analysis in discrimination studies of bladder cancer. <i>Analyst</i> , The, 2013, 138, 5719.	3.5	12
172	Solid-phase extraction of galloyl- and caffeoylquinic acids from natural sources (<i>Galphimia glauca</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 spin columns. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 84, 148-158.	2.8	27
173	Simultaneous quantification of verbenalin and verbascoside in <i>Verbena officinalis</i> by ATR-IR and NIR spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 84, 97-102.	2.8	52
174	Rapid determination of baicalin and total baicalein content in <i>Scutellariae radix</i> by ATR-IR and NIR spectroscopy. <i>Talanta</i> , 2013, 114, 304-310.	5.5	30
175	MALDI-MS tissue imaging identification of biliverdin reductase B overexpression in prostate cancer. <i>Journal of Proteomics</i> , 2013, 91, 500-514.	2.4	45
176	Comparison of NIR chemical imaging with conventional NIR, Raman and ATR-IR spectroscopy for quantification of furosemide crystal polymorphs in ternary powder mixtures. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 616-625.	4.3	48
177	A chromatographic and spectroscopic analytical platform for the characterization of St John's wort extract adulterations. <i>Analytical Methods</i> , 2013, 5, 616-628.	2.7	31
178	Optical Nanoantennas for Multiband Surface-Enhanced Infrared and Raman Spectroscopy. <i>ACS Nano</i> , 2013, 7, 3522-3531.	14.6	201
179	Selective enrichment of phosphopeptides by a metal-organic framework. <i>Analytical Methods</i> , 2013, 5, 2379.	2.7	36
180	Combined Ab Initio Computational and Infrared Spectroscopic Study of the <i>cis</i> - and <i>trans</i> -Bis(glycinato)copper(II) Complexes in Aqueous Environment. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1502-1506.	4.6	17

#	ARTICLE	IF	CITATIONS
181	Functionalized diamond nanopowder for phosphopeptides enrichment from complex biological fluids. <i>Analytica Chimica Acta</i> , 2013, 775, 75-84.	5.4	30
182	Near-Infrared (NIR) Spectroscopy as a Tool for Quality Control of Traditional Chinese Herbal Medicines. <i>Annals of Traditional Chinese Medicine</i> , 2013, , 213-222.	0.1	0
183	Near Infrared Spectroscopy (NIRS) as a Tool to Analyze Phenolic Compounds in Plants. <i>Current Analytical Chemistry</i> , 2013, 9, 417-423.	1.2	23
184	Advanced Vibrational Spectroscopic Imaging of Human Tissue in Life Science. <i>Current Proteomics</i> , 2012, 9, 132-142.	0.3	13
185	Role of Infrared Spectroscopy in Proteomics and Subsequently the Biomarker Analysis. <i>Current Proteomics</i> , 2012, 9, 118-131.	0.3	0
186	Near Infrared Spectroscopy Patents for the Physicochemical Characterization of Nanomaterials: The Road from Production to Routine High-Throughput Quality Control. <i>Recent Patents on Nanotechnology</i> , 2012, 6, 135-141.	1.3	5
187	Identification of Milk Origin and Process-Induced Changes in Milk by Stable Isotope Ratio Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 11268-11273.	5.2	53
188	Morphological and tissue characterization of the medicinal fungus <i>Hericium coralloides</i> by a structural and molecular imaging platform. <i>Analyst, The</i> , 2012, 137, 1584-1595.	3.5	37
189	Fourier transform infrared imaging analysis in discrimination studies of squamous cell carcinoma. <i>Analyst, The</i> , 2012, 137, 3965.	3.5	58
190	Traceability study of hay with a mass spectrometer based on ion-molecule reactions of krypton, xenon and mercury using multivariate data analysis. <i>International Journal of Environmental Analytical Chemistry</i> , 2012, 92, 237-254.	3.3	0
191	Characterization of Glucocerebrosides and the Active Metabolite 4,8-Sphingadienine from <i>Arisaema amurense</i> and <i>Pinellia ternata</i> by NMR and CD Spectroscopy and ESI-MS/CID-MS. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 7204-7210.	5.2	13
192	Synthesis and In Vitro Characterization of a Preactivated Thiomers via Polymerization Reaction. <i>Biomacromolecules</i> , 2012, 13, 3054-3063.	5.4	15
193	Versatile nanocomposites in phosphoproteomics: A review. <i>Analytica Chimica Acta</i> , 2012, 747, 7-18.	5.4	31
194	Silica/Lanthanum Oxide: Pioneer Composite of Rare-Earth Metal Oxide in Selective Phosphopeptides Enrichment. <i>Analytical Chemistry</i> , 2012, 84, 10180-10185.	6.5	40
195	Fourier transform infrared imaging analysis in discrimination studies of St. John's wort (<i>Hypericum</i>) Tj ETQq1 1 0.784314 rgBTJ/Overlock	3.7	22
196	Near Infrared Spectroscopy as a Tool for Quality Control of Food of the Alpine Region – A Short Report about a Cross-Border Project. <i>NIR News</i> , 2012, 23, 11-17.	0.3	13
197	Chemically modified diamond-like carbon (DLC) for protein enrichment and profiling by MALDI-MS. <i>Amino Acids</i> , 2012, 43, 823-831.	2.7	10
198	Applications of Carbon Nanomaterials for MALDI-TOF-MS and Electrochemical Analysis of Insulin. , 2012, , 202-223.		0

#	ARTICLE	IF	CITATIONS
199	Thiolated polyacrylic acid-modified iron oxide nanoparticles for <i>in vitro</i> labeling and MRI of stem cells. Journal of Drug Targeting, 2011, 19, 562-572.	4.4	16
200	Ursolic acid causes DNA-damage, P53-mediated, mitochondria- and caspase-dependent human endothelial cell apoptosis, and accelerates atherosclerotic plaque formation in vivo. Atherosclerosis, 2011, 219, 402-408.	0.8	45
201	Editorial [Hot Topic: Infrared Spectroscopy of Natural Compounds in Medicinal Plants (Guest Editor: Tj ETQq1 1 0.784314 rgBT /Overdo	0.5	2
202	Preparation of polymer based sorbents for solid phase extraction of polyphenolic compounds. Open Chemistry, 2011, 9, 206-212.	1.9	16
203	Near-Infrared Imaging Spectroscopy as a Tool to Discriminate Two Cryptic Tetramorium Ant Species. Journal of Chemical Ecology, 2011, 37, 549-552.	1.8	20
204	Infrared Spectroscopy: A Novel Tool for the Physicochemical Characterization of Particulate, Monolithic and Coated Stationary Phases. Chromatographia, 2011, 73, 29-34.	1.3	5
205	Novel multifunctional chitosan-GMA-IDA-Cu(II) nanospheres for high dynamic range characterization of the human plasma proteome. Analytical and Bioanalytical Chemistry, 2011, 400, 747-756.	3.7	8
206	Surface-assisted laser desorption/ionization-mass spectrometry using TiO ₂ -coated steel targets for the analysis of small molecules. Analytical and Bioanalytical Chemistry, 2011, 401, 1963-1974.	3.7	41
207	Peptide mapping using capillary electrophoresis offline coupled to matrix-assisted laser desorption ionization time of flight mass spectrometry. Electrophoresis, 2011, 32, 2830-2839.	2.4	15
208	Protein profiling for cancer biomarker discovery using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry and infrared imaging: A review. Analytica Chimica Acta, 2011, 690, 26-34.	5.4	48
209	Near-infrared reflection spectroscopy (NIRS) as a successful tool for simultaneous identification and particle size determination of amoxicillin trihydrate. Journal of Pharmaceutical and Biomedical Analysis, 2011, 54, 1059-1064.	2.8	51
210	GC-MS method for the simultaneous determination of β -blockers, flavonoids, isoflavones and their metabolites in human urine. Journal of Pharmaceutical and Biomedical Analysis, 2011, 56, 93-102.	2.8	61
211	Application of Near-Infrared Spectroscopy (NIRS) as a Tool for Quality Control in Traditional Chinese Medicine (TCM). Current Bioactive Compounds, 2011, 7, 75-84.	0.5	12
212	Role of Infrared Spectroscopy in Medicinal Plants Research in Pakistan. Current Bioactive Compounds, 2011, 7, 85-92.	0.5	0
213	Advances of Infrared Spectroscopic Imaging and Mapping Technologies of Plant Material. Current Bioactive Compounds, 2011, 7, 106-117.	0.5	16
214	A Workflow for Preprocessing and Proteomic Biomarker Identification on Mass-Spectrometry Data. , 2011, , .		0
215	Monolithic Stationary Phases in HPLC. Chromatographic Science, 2010, , 3-45.	0.1	1
216	CE coupled to MALDI with novel covalently coated capillaries. Electrophoresis, 2010, 31, 618-629.	2.4	30

#	ARTICLE	IF	CITATIONS
217	Laser desorption/ionization mass spectrometric analysis of small molecules using fullerene-derivatized silica as energy-absorbing material. <i>Journal of Mass Spectrometry</i> , 2010, 45, 545-552.	1.6	36
218	Online coupling of thin layer chromatography with matrix-assisted laser desorption/ionization time-of-flight mass spectrometry: synthesis and application of a new material for the identification of carbohydrates by thin layer chromatography/matrix free ma. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2759-2764.	1.5	8
219	Near-infrared diffuse reflection spectroscopy and multivariate calibration hyphenated with thin-layer chromatography for quality control of a phytomedicine and simultaneous quantification of methoxylated flavones. <i>Journal of Planar Chromatography - Modern TLC</i> , 2010, 23, 348-352.	1.2	10
220	Infrared-Spectroscopy: A Non-Invasive Tool for Medical Diagnostics and Drug Analysis. <i>Current Medicinal Chemistry</i> , 2010, 17, 2956-2966.	2.4	6
221	Online Process Control of a Pharmaceutical Intermediate in a Fluidized-Bed Drier Environment Using Near-Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2010, 82, 4209-4215.	6.5	41
222	Prospects for multivariate classification of a pharmaceutical intermediate with near-infrared spectroscopy as a process analytical technology (PAT) production control supplement. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 76, 320-327.	4.3	31
223	Characterization of normal and malignant prostate tissue by Fourier transform infrared microspectroscopy. <i>Molecular BioSystems</i> , 2010, 6, 2287.	2.9	49
224	Quantification of Low-Density and High-Density Lipoproteins in Human Serum by Material Enhanced Infrared Spectroscopy (MEIRS). <i>Current Medicinal Chemistry</i> , 2009, 16, 4601-4608.	2.4	13
225	Development and Application of Fourier-Transform Infrared Chemical Imaging of Tumour in Human Tissue. <i>Current Medicinal Chemistry</i> , 2009, 16, 318-326.	2.4	36
226	Recent Applications of Organic Monoliths in Capillary Liquid Chromatographic Separation of Biomolecules. <i>Journal of Chromatographic Science</i> , 2009, 47, 418-431.	1.4	26
227	Use of fullerene-, octadecyl-, and triacontyl silica for solid phase extraction of tryptic peptides obtained from unmodified and <i>in vitro</i> glycosylated human serum albumin and fibrinogen. <i>Journal of Separation Science</i> , 2009, 32, 295-308.	2.5	26
228	Monolithic poly(1,2-bis(p-vinylphenyl)ethane) capillary columns for simultaneous separation of low- and high-molecular-weight compounds. <i>Journal of Separation Science</i> , 2009, 32, 2510-2520.	2.5	33
229	Derivatized graphitic nanofibres (GNF) as a new support material for mass spectrometric analysis of peptides and proteins. <i>Amino Acids</i> , 2009, 37, 341-348.	2.7	13
230	Near-infrared reflection spectroscopy and partial least squares regression for determining the total carbon coverage of silica packings for liquid chromatography. <i>Vibrational Spectroscopy</i> , 2009, 49, 155-161.	2.2	16
231	Influence of the polymerisation time on the porous and chromatographic properties of monolithic poly(1,2-bis(p-vinylphenyl)ethane) capillary columns. <i>Journal of Chromatography A</i> , 2009, 1216, 7747-7754.	3.7	81
232	Simultaneous Quantification of Neomycin and Bacitracin by LC-ELSD. <i>Chromatographia</i> , 2009, 69, 1181-1188.	1.3	3
233	Near-Infrared Spectroscopic Study on Guest-Host Interactions Among G0-G7 Amine-Terminated Poly(amidoamine) Dendrimers and Porous Silica Materials for Simultaneously Determining the Molecular Weight and Particle Diameter by Multivariate Calibration Techniques. <i>Analytical Chemistry</i> , 2009, 81, 5655-5662.	6.5	8
234	Ultrafast Microwave-Assisted In-Tip Digestion of Proteins. <i>Journal of Proteome Research</i> , 2009, 8, 4225-4230.	3.7	41

#	ARTICLE	IF	CITATIONS
235	New stationary phases for enrichment and separation in the "omics" era. <i>Bioanalysis</i> , 2009, 1, 151-169.	1.5	7
236	Efficacy of Silver Nanoparticles-Impregnated External Ventricular Drain Catheters in Patients with Acute Occlusive Hydrocephalus. <i>Neurocritical Care</i> , 2008, 8, 360-365.	2.4	99
237	Near infrared spectroscopy compared to liquid chromatography coupled to mass spectrometry and capillary electrophoresis as a detection tool for peptide reaction monitoring. <i>Amino Acids</i> , 2008, 34, 605-616.	2.7	9
238	Nano-structured support materials, their characterisation and serum protein profiling through MALDI/TOF-MS. <i>Amino Acids</i> , 2008, 34, 279-286.	2.7	11
239	Analysis of protein phosphorylation by monolithic extraction columns based on poly(divinylbenzene) containing embedded titanium dioxide and zirconium dioxide nanoparticles. <i>Proteomics</i> , 2008, 8, 4593-4602.	2.2	93
240	Characterisation of different types of hay by solid-phase microextraction-gas chromatography mass spectrometry and multivariate data analysis. <i>Phytochemical Analysis</i> , 2008, 19, 359-367.	2.4	11
241	Fast, noninvasive and simultaneous near-infrared spectroscopic characterisation of physicochemical stationary phases' properties: From silica particles towards monoliths. <i>Journal of Separation Science</i> , 2008, 31, 2541-2550.	2.5	6
242	Analysis of Proteins by Capillary Electrophoresis. , 2008, 384, 507-540.		7
243	Nanostructured Diamond-Like Carbon on Digital Versatile Disc as a Matrix-Free Target for Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 7467-7472.	6.5	66
244	Silver segregation and bacterial growth of intraventricular catheters impregnated with silver nanoparticles in cerebrospinal fluid drainages. <i>Neurological Research</i> , 2008, 30, 285-287.	1.3	79
245	Effect of a thiolated polymer on oral paclitaxel absorption and tumor growth in rats. <i>Journal of Drug Targeting</i> , 2008, 16, 149-155.	4.4	23
246	Current Advances in Antibody Immobilization on Different Surfaces and Beads. <i>Current Proteomics</i> , 2008, 5, 115-128.	0.3	4
247	When Size Matters"Near Infrared Reflection Spectroscopy of Nanostructured Materials. <i>Journal of Near Infrared Spectroscopy</i> , 2008, 16, 211-221.	1.5	6
248	Carbon Based Sample Supports and Matrices for Laser Desorption/Ionization Mass Spectrometry. Recent Patents on Nanotechnology, 2007, 1, 113-119.	1.3	10
249	Evaluation of extraction methods for the simultaneous analysis of simple and macrocyclic trichothecenes. <i>Talanta</i> , 2007, 73, 251-257.	5.5	35
250	Development and Application of C60-Fullerene Bound Silica for Solid-Phase Extraction of Biomolecules. <i>Analytical Chemistry</i> , 2007, 79, 8144-8153.	6.5	96
251	Alternative profiling platform based on MELDI and its applicability in clinical proteomics. <i>Expert Review of Proteomics</i> , 2007, 4, 447-452.	3.0	24
252	A New Analytical Material-Enhanced Laser Desorption Ionization (MELDI) Based Approach for the Determination of Low-Mass Serum Constituents Using Fullerene Derivatives for Selective Enrichment. <i>Journal of Proteome Research</i> , 2007, 6, 44-53.	3.7	51

#	ARTICLE	IF	CITATIONS
253	Mass Spectrometric Identification of Serum Peptides Employing Derivatized Poly(glycidyl) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	3.7	31
254	CEC and EKC of natural compounds. Electrophoresis, 2007, 28, 1645-1657.	2.4	24
255	Analysis of flavonoids by CE using capacitively coupled contactless conductivity detection. Electrophoresis, 2007, 28, 799-805.	2.4	22
256	Recent advances in capillary electrophoresis for biomarker discovery. Journal of Separation Science, 2007, 30, 192-201.	2.5	24
257	Monolithic poly[(trimethylsilyl-4-methylstyrene)-co- bis(4-vinylbenzyl)dimethylsilane] stationary phases for the fast separation of proteins and oligonucleotides. Journal of Chromatography A, 2007, 1147, 53-58.	3.7	23
258	Analysis of glutathione in supernatants and lysates of a human proximal tubular cell line from perfusion culture upon intoxication with cadmium chloride by HPLC and LC-ESI-MS. Analytical and Bioanalytical Chemistry, 2007, 388, 1763-1769.	3.7	10
259	Nanocrystalline Diamondâ€”An Excellent Platform for Life Science Applications. Journal of Nanoscience and Nanotechnology, 2007, 7, 4581-4587.	0.9	34
260	Capillary Electrophoresis Coupled To Mass Spectrometry for Forensic Analysis. Open Chemical Engineering Journal, 2007, 1, 30-43.	0.5	5
261	Medicinal applications of fullerenes. International Journal of Nanomedicine, 2007, 2, 639-49.	6.7	402
262	Nanocrystalline diamond--an excellent platform for life science applications. Journal of Nanoscience and Nanotechnology, 2007, 7, 4581-7.	0.9	5
263	Oral peptide delivery: Are there remarkable effects on drugs through sulfhydryl conjugation?. Journal of Drug Targeting, 2006, 14, 117-125.	4.4	12
264	Near Infrared Spectroscopy, Cluster and Multivariate Analysisâ€”Characterisation of Silica Materials for Liquid Chromatography. Journal of Near Infrared Spectroscopy, 2006, 14, 51-57.	1.5	16
265	Ultra-fast mass fingerprinting by high-affinity capture of peptides and proteins on derivatized poly(glycidyl methacrylate/divinylbenzene) for the analysis of serum and cell lysates. Rapid Communications in Mass Spectrometry, 2006, 20, 2954-2960.	1.5	33
266	Comparative analysis of naphthodianthrone and phloroglucine derivatives in St. John's Wort extracts by near infrared spectroscopy, high-performance liquid chromatography and capillary electrophoresis. Analytica Chimica Acta, 2006, 580, 223-230.	5.4	34
267	Strong binding of bioactive BMP-2 to nanocrystalline diamond by physisorption. Biomaterials, 2006, 27, 4547-4556.	11.4	93
268	Material-enhanced laser desorption/ionization (MELDI)â€”A new protein profiling tool utilizing specific carrier materials for time of flight mass spectrometric analysis. Journal of the American Society for Mass Spectrometry, 2006, 17, 1203-1208.	2.8	63
269	Progress in capillary electrophoresis of biomarkers and metabolites between 2002 and 2005. Electrophoresis, 2006, 27, 111-125.	2.4	29
270	Capillary electrochromatography of biologically relevant flavonoids. Electrophoresis, 2006, 27, 787-792.	2.4	25

#	ARTICLE	IF	CITATIONS
271	Biomarker discovery in breast cancer serum using 2-D differential gel electrophoresis/ MALDI-TOF/TOF and data validation by routine clinical assays. <i>Electrophoresis</i> , 2006, 27, 1641-1650.	2.4	121
272	Progress in capillary electrophoresis coupled to matrix-assisted laser desorption/ionization “ time of flight mass spectrometry. <i>Electrophoresis</i> , 2006, 27, 2063-2074.	2.4	49
273	Monolithic poly(glycidyl methacrylate-co-divinylbenzene) capillary columns functionalized to strong anion exchangers for nucleotide and oligonucleotide separation. <i>Journal of Separation Science</i> , 2006, 29, 2478-2484.	2.5	56
274	Analysis of caffeine, theobromine and theophylline in coffee by near infrared spectroscopy (NIRS) compared to high-performance liquid chromatography (HPLC) coupled to mass spectrometry. <i>Analytica Chimica Acta</i> , 2005, 538, 195-203.	5.4	158
275	Amino-Functionalized Monolithic Poly(glycidyl methacrylate-co-divinylbenzene) Ion-Exchange Stationary Phases for the Separation of Oligonucleotides. <i>Chromatographia</i> , 2005, 62, s31-s36.	1.3	42
276	Polystyrene/Divinylbenzene Based Monolithic and Encapsulated Capillary Columns for the Analysis of Nucleic Acids by High-Performance Liquid Chromatography-Electrospray Ionisation Mass Spectrometry. <i>Engineering in Life Sciences</i> , 2005, 5, 431-435.	3.6	7
277	The use of thiolated polymers as carrier matrix in oral peptide delivery“Proof of concept. <i>Journal of Controlled Release</i> , 2005, 106, 26-33.	9.9	52
278	Analysis of drugs, natural and bioactive compounds containing phenolic groups by capillary electrophoresis coupled to mass spectrometry. <i>Electrophoresis</i> , 2005, 26, 1319-1333.	2.4	56
279	Quantitative detection of phosphoproteins by combination of two-dimensional difference gel electrophoresis and phosphospecific fluorescent staining. <i>Electrophoresis</i> , 2005, 26, 2850-2854.	2.4	73
280	Enrichment of low-abundant serum proteins by albumin/immunoglobulin G immunoaffinity depletion under partly denaturing conditions. <i>Electrophoresis</i> , 2005, 26, 2843-2849.	2.4	51
281	Influence of the pore structure on the properties of silica based reversed phase packings for LC. <i>Journal of Separation Science</i> , 2005, 28, 313-324.	2.5	24
282	Phosphoproteomic analysis using immobilized metal ion affinity chromatography on the basis of cellulose powder. <i>Proteomics</i> , 2005, 5, 46-54.	2.2	46
283	Sample Preparation Techniques for Mass Spectrometry in Proteomics Using Recently Developed Highly Selective Materials. <i>Current Proteomics</i> , 2005, 2, 269-285.	0.3	4
284	Derivatized Cellulose Combined with MALDI-TOF MS: A New Tool for Serum Protein Profiling. <i>Journal of Proteome Research</i> , 2005, 4, 2320-2326.	3.7	45
285	Poly(Glycidyl Methacrylate/Divinylbenzene)-IDA-Fellin Phosphoproteomics. <i>Journal of Proteome Research</i> , 2005, 4, 2312-2319.	3.7	66
286	Development and evaluation of an in vitro model for the analysis of cigarette smoke effects on cultured cells and tissues. <i>Journal of Pharmacological and Toxicological Methods</i> , 2004, 50, 45-51.	0.7	60
287	Recent progress in high-performance capillary bioseparations. <i>Electrophoresis</i> , 2003, 24, 3977-3997.	2.4	31
288	Disruption of vascular endothelial homeostasis by tobacco smoke“impact on atherosclerosis. <i>FASEB Journal</i> , 2003, 17, 2302-2304.	0.5	84

#	ARTICLE	IF	CITATIONS
289	Chapter 5 HPLC of carbohydrates with cation- and anion-exchange silica and resin-based stationary phases. <i>Journal of Chromatography Library</i> , 2002, 66, 165-205.	0.1	6
290	Fast analysis of flavonoids in plant extracts by liquid chromatography–ultraviolet absorbance detection on poly(carboxylic acid)-coated silica and electrospray ionization tandem mass spectrometric detection. <i>Journal of Chromatography A</i> , 2002, 943, 33-38.	3.7	36
291	Analysis of three flavonoids by CE-uV and CE-ESI-MS. Determination of naringenin from a phytomedicine. <i>Journal of Separation Science</i> , 2002, 25, 903-908.	2.5	34
292	Determination of flavonoids and stilbenes in red wine and related biological products by HPLC and HPLC–ESI–MS–MS. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 371, 73-80.	1.5	72
293	Evaluation of detection methods for the reversed-phase HPLC determination of 3,4,5-trimethoxyflavone in different phytopharmaceutical products and in human serum. <i>Phytochemical Analysis</i> , 2001, 12, 104-109.	2.4	18
294	Recent developments in polymer-based sorbents for solid-phase extraction. <i>Journal of Chromatography A</i> , 2000, 885, 51-72.	3.7	281
295	Isolation and characterization of methoxylated flavones in the flowers of <i>Primula veris</i> by liquid chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2000, 870, 453-462.	3.7	67
296	Development and Evaluation of a New Method for the Determination of the Carotenoid Content in Selected Vegetables by HPLC and HPLC–MS–MS. <i>Journal of Chromatographic Science</i> , 2000, 38, 441-449.	1.4	64
297	Isolation and Structural Elucidation of 3,4,5-Trimethoxyflavone from the Flowers of <i>Primula veris</i> . <i>Planta Medica</i> , 1999, 65, 491-491.	1.3	21
298	Histidine77, Glutamic Acid81, Glutamic Acid123, Threonine126, Asparagine194, and Tryptophan197 of the Human Emopamil Binding Protein Are Required for in Vivo Sterol 8 \rightarrow 7 Isomerization. <i>Biochemistry</i> , 1999, 38, 1119-1127.	2.5	40