

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

38720

50
h-index

37183

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.	2.0	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.	0.7	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.	2.0	5
4	Portable vs. Benchtop NIR-Sensor Technology for Classification and Quality Evaluation of Black Truffle. <i>Molecules</i> , 2022, 27, 589.	1.7	9
5	The Crosslinker Matters: Vinylimidazole-Based Anion Exchange Polymer for Dispersive Solid-Phase Extraction of Phenolic Acids. <i>Separations</i> , 2022, 9, 72.	1.1	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.	2.0	3
7	Miniaturized NIR Spectroscopy in Food Analysis and Quality Control: Promises, Challenges, and Perspectives. <i>Foods</i> , 2022, 11, 1465.	1.9	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.	2.0	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.	1.3	7
11	<i>Theae nigrae folium</i> : Comparing the analytical performance of benchtop and handheld near-infrared spectrometers. <i>Talanta</i> , 2021, 221, 121165.	2.9	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.	3.0	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.	2.9	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.	1.3	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.	1.1	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.	2.0	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.	1.4	43
18	Principles and Applications of Miniaturized Near-Infrared (NIR) Spectrometers. <i>Chemistry - A European Journal</i> , 2021, 27, 1514-1532.	1.7	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.	18.7	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.	1.6	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.	2.0	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.	0.7	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.	2.0	26
24	Application of mid-infrared microscopic imaging for the diagnosis and classification of human lymphomas. <i>Journal of Biophotonics</i> , 2021, 14, e202100079.	1.1	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.	1.2	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.	1.7	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.	1.7	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.	2.0	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.	1.1	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.	1.7	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.	1.7	25
33	Anharmonicity and Spectra-Structure Correlations in MIR and NIR Spectra of Crystalline Menadione (Vitamin K3). <i>Molecules</i> , 2021, 26, 6779.	1.7	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.	2.0	2
36	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020, 14, 28-117.	7.3	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.	2.9	12
38	Deposition-Dependent Morphology and Infrared Vibrational Spectra of Brominated Tetraazaperopyrene Layers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 769-779.	1.5	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.	7.2	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.	1.6	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.	1.6	1
42	Profiling of Mitochondrial DNA Heteroplasmy in a Prospective Oral Squamous Cell Carcinoma Study. <i>Cancers</i> , 2020, 12, 1933.	1.7	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.	2.7	1
44	Principles and Applications of Vibrational Spectroscopic Imaging in Plant Science: A Review. <i>Frontiers in Plant Science</i> , 2020, 11, 1226.	1.7	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.	2.1	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.	1.9	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.	2.3	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.	2.0	17
49	Amino Acid Profiles and Compositions of Different Cultivars of <i>Panicum miliaceum</i> L.. <i>Chromatographia</i> , 2020, 83, 829-837.	0.7	16
50	Near-Infrared Spectroscopy in Bio-Applications. <i>Molecules</i> , 2020, 25, 2948.	1.7	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.	1.3	6
52	Differentiation of South African Game Meat Using Near-Infrared (NIR) Spectroscopy and Hierarchical Modelling. <i>Molecules</i> , 2020, 25, 1845.	1.7	10
53	Biomolecular and bioanalytical applications of infrared spectroscopy – A review. <i>Analytica Chimica Acta</i> , 2020, 1133, 150-177.	2.6	107
54	Handheld near-infrared spectrometers: Where are we heading?. <i>NIR News</i> , 2020, 31, 28-35.	1.6	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. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13017-13029.	1.3	14
56	Investigations into the total antioxidant capacities of cultivars of gluten-free grains using near-infrared spectroscopy. <i>Food Control</i> , 2019, 95, 189-195.	2.8	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. <i>Molecules</i> , 2019, 24, 2480.	1.7	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 <i>Panicum miliaceum</i> L.. <i>Talanta</i> , 2019, 205, 120115.	2.9	28
59	Improved Intestinal Mucus Permeation of Vancomycin via Incorporation Into Nanocarrier Containing Papain-Palmitate. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 3329-3339.	1.6	11
60	Identification of the historic photographic print materials using portable NIR and PCA. <i>Microchemical Journal</i> , 2019, 150, 104202.	2.3	7
61	IR Spectra of Crystalline Nucleobases: Combination of Periodic Harmonic Calculations with Anharmonic Corrections Based on Finite Models. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10001-10013.	1.2	18
62	The essential role of omni-capable research laboratories in advancing analytical spectroscopy. <i>NIR News</i> , 2019, 30, 30-34.	1.6	0
63	Investigations into the Performance of a Novel Pocket-Sized Near-Infrared Spectrometer for Cheese Analysis. <i>Molecules</i> , 2019, 24, 428.	1.7	38
64	Spectra – Structure Correlations in Isotopomers of Ethanol (CX ₃ CX ₂ OX; X = H, D): Combined Near-Infrared and Anharmonic Computational Study. <i>Molecules</i> , 2019, 24, 2189.	1.7	19
65	Resonant Plasmonic Nanoslits Enable in Vitro Observation of Single-Monolayer Collagen-Peptide Dynamics. <i>ACS Sensors</i> , 2019, 4, 1966-1972.	4.0	16
66	Novel asymmetric 1,3-di(alkyloxy)imidazolium based ionic liquids for liquid-phase microextraction of selected analgesics and estrogens from aqueous samples. <i>Journal of Molecular Liquids</i> , 2019, 289, 111157.	2.3	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. <i>NIR News</i> , 2019, 30, 11-13.	1.6	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. <i>Molecules</i> , 2019, 24, 1402.	1.7	38
69	Forensic classification of black inkjet prints using Fourier transform near-infrared spectroscopy and Linear Discriminant Analysis. <i>Forensic Science International</i> , 2019, 299, 128-134.	1.3	23
70	Celebrating the 20th Anniversary of NIR Spectroscopy at the University of Innsbruck, Austria: Contributions to material-, bio-, medicinal plant and food analysis. <i>NIR News</i> , 2019, 30, 22-25.	1.6	2
71	Critical Review on the Utilization of Handheld and Portable Raman Spectrometry in Meat Science. <i>Foods</i> , 2019, 8, 49.	1.9	39
72	Comparison of Multivariate Regression Models Based on Water- and Carbohydrate-Related Spectral Regions in the Near-Infrared for Aqueous Solutions of Glucose. <i>Molecules</i> , 2019, 24, 3696.	1.7	14

#	ARTICLE	IF	CITATIONS
73	Advances in Near-Infrared Spectroscopy and Related Computational Methods. <i>Molecules</i> , 2019, 24, 4370.	1.7	13
74	Chemical Identification of Single Ultrafine Particles Using Surface-Enhanced Infrared Absorption. <i>Physical Review Applied</i> , 2019, 11, .	1.5	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.	1.4	7
76	Breakthrough Potential in Near-Infrared Spectroscopy: Spectra Simulation. A Review of Recent Developments. <i>Frontiers in Chemistry</i> , 2019, 7, 48.	1.8	170
77	Hemodialysis monitoring using mid- and near-infrared spectroscopy with partial least squares regression. <i>Journal of Biophotonics</i> , 2018, 11, e201700365.	1.1	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.	1.1	17
79	Infrared spectroscopic imaging studies of medicinal plants. <i>NIR News</i> , 2018, 29, 9-14.	1.6	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.	2.0	7
81	In-situ surface-enhanced Raman scattering and FT-Raman spectroscopy of black prints. <i>Vibrational Spectroscopy</i> , 2018, 94, 16-21.	1.2	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.	0.7	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.	1.1	5
85	Direct Determination of Ni ²⁺ -Capacity of IMAC Materials Using Near-Infrared Spectroscopy. <i>Molecules</i> , 2018, 23, 3072.	1.7	6
86	Synthesis and Application of Histidine-Modified Poly(Glycidyl Methacrylate/Ethylene Glycol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T <i>Chromatographia</i> , 2018, 81, 1467-1474.	0.7	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.	2.9	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.	2.8	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.	2.3	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.	1.2	39
93	Impact of Metal-Optical Properties on Surface-Enhanced Infrared Absorption. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15678-15687.	1.5	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.	2.9	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.	2.6	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.	1.1	27
97	Thiolated chitosan micelles: Highly mucoadhesive drug carriers. <i>Carbohydrate Polymers</i> , 2017, 167, 250-258.	5.1	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.	1.2	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.	1.3	22
100	Nanoantenna-Enhanced Infrared Spectroscopic Chemical Imaging. <i>ACS Sensors</i> , 2017, 2, 655-662.	4.0	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.	1.6	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.	2.9	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.	0.7	25
104	Surface-Enhanced Infrared Spectroscopy Using Resonant Nanoantennas. <i>Chemical Reviews</i> , 2017, 117, 5110-5145.	23.0	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.	1.1	48
106	Selected latest applications of molecular spectroscopy in natural product analysis. <i>Phytochemistry Letters</i> , 2017, 20, 491-498.	0.6	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.	1.7	94
108	Theoretical and technical advancements of near-infrared spectroscopy and its operational impact in industry. <i>NIR News</i> , 2017, 28, 17-21.	1.6	4

#	ARTICLE	IF	CITATIONS
109	In-Tip Lanthanum Oxide Monolith for the Enrichment of Phosphorylated Biomolecules. <i>Analytical Chemistry</i> , 2017, 89, 10232-10238.	3.2	23
110	Miniaturized NIR spectroscopy for the determination of main carbohydrates in syrup. <i>NIR News</i> , 2017, 28, 3-6.	1.6	15
111	Do CAD/CAM dentures really release less monomer than conventional dentures?. <i>Clinical Oral Investigations</i> , 2017, 21, 1697-1705.	1.4	97
112	Quantum chemical calculation of NIR spectra of practical materials. <i>NIR News</i> , 2017, 28, 13-20.	1.6	12
113	A Review of Mid-Infrared and Near-Infrared Imaging: Principles, Concepts and Applications in Plant Tissue Analysis. <i>Molecules</i> , 2017, 22, 168.	1.7	257
114	Advances of Vibrational Spectroscopic Technologies in Life Sciences. <i>Molecules</i> , 2017, 22, 278.	1.7	7
115	Recent Developments in Solid-Phase Extraction for Near and Attenuated Total Reflection Infrared Spectroscopic Analysis. <i>Molecules</i> , 2016, 21, 633.	1.7	11
116	Plasmonic Light Scattering and Infrared Vibrational Signal Enhancement. <i>ACS Symposium Series</i> , 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. <i>Food Control</i> , 2016, 68, 97-104.	2.8	40
118	Development of oral self nano-emulsifying delivery system(s) of lanreotide with improved stability against presystemic thiol-disulfide exchange reactions. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 923-929.	2.4	25
119	High-Temperature Carbon Deposition on Oxide Surfaces by CO Disproportionation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1795-1807.	1.5	32
120	Gadolinium oxide: Exclusive selectivity and sensitivity in the enrichment of phosphorylated biomolecules. <i>Journal of Separation Science</i> , 2016, 39, 4175-4182.	1.3	6
121	An industry perspective of food fraud. <i>Current Opinion in Food Science</i> , 2016, 10, 32-37.	4.1	37
122	How Intrinsic Phonons Manifest in Infrared Plasmonic Resonances of Crystalline Lead Nanowires. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19302-19307.	1.5	3
123	Porous Gold Nanowires: Plasmonic Response and Surface-Enhanced Infrared Absorption. <i>Advanced Optical Materials</i> , 2016, 4, 1838-1845.	3.6	22
124	Computational and quantum chemical study on high-frequency dielectric function of tert-butylmethyl ether in mid-infrared and near-infrared regions. <i>Journal of Molecular Liquids</i> , 2016, 224, 1189-1198.	2.3	9
125	The Future Role of near Infrared Spectroscopy in Polymer and Chemical Analysis. <i>NIR News</i> , 2016, 27, 17-23.	1.6	6
126	Modern Safety Control for Meat Products: Near Infrared Spectroscopy Utilised for Detection of Contaminations and Adulterations of Premium Veal Products. <i>NIR News</i> , 2016, 27, 11-13.	1.6	11

#	ARTICLE	IF	CITATIONS
127	2,2â€²Dithiodinicotinyl ligands: Key to more reactive thiomers. International Journal of Pharmaceutics, 2016, 503, 199-206.	2.6	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.	4.2	20
129	Vibrational spectroscopic methods for the overall quality analysis of washing powders. Talanta, 2016, 148, 329-335.	2.9	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.	2.8	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.	2.9	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.	7.8	138
133	Novel bioadhesive polymers as intra-articular agents: Chondroitin sulfate-cysteine conjugates. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 101, 25-32.	2.0	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.	1.3	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.	1.3	29
136	Can thiolation render a low molecular weight polymer of just 20-kDa mucoadhesive?. Drug Development and Industrial Pharmacy, 2016, 42, 686-693.	0.9	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.	1.2	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.	1.7	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.	1.1	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.	4.5	27
141	Synthesis and In Vitro Evaluation of Thiolated Carrageenan. Journal of Pharmaceutical Sciences, 2015, 104, 2523-2530.	1.6	24
142	Mucus permeating carriers: formulation and characterization of highly densely charged nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 97, 273-279.	2.0	113
143	Poly(N-vinylimidazole/ethylene glycol dimethacrylate) for the purification and isolation of phenolic acids. Analytica Chimica Acta, 2015, 885, 199-206.	2.6	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.	5.1	51

#	ARTICLE	IF	CITATIONS
145	Newly Fabricated Magnetic Lanthanide Oxides Core-Shell Nanoparticles in Phosphoproteomics. <i>Analytical Chemistry</i> , 2015, 87, 4726-4732.	3.2	28
146	Gold Nanoantennas on a Pedestal for Plasmonic Enhancement in the Infrared. <i>ACS Photonics</i> , 2015, 2, 497-505.	3.2	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.	2.8	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.	3.2	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.	1.5	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.	1.2	4
152	Advances of infrared spectroscopy in natural product research. <i>Phytochemistry Letters</i> , 2015, 11, 384-393.	0.6	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.	1.1	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.	1.7	12
155	Au-Nanomaterials as a Superior Choice for Near-Infrared Photothermal Therapy. <i>Molecules</i> , 2014, 19, 20580-20593.	1.7	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.	2.0	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.	1.2	45
158	Computational Vibrational Spectroscopy of glycine in aqueous solution – Fundamental considerations towards feasible methodologies. <i>Chemical Physics</i> , 2014, 435, 21-28.	0.9	16
159	Advances of vibrational spectroscopic methods in phytomics and bioanalysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 87, 26-35.	1.4	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.	1.3	28
161	Surface-Enhanced Infrared Spectroscopy Using Nanometer-Sized Gaps. <i>ACS Nano</i> , 2014, 8, 4908-4914.	7.3	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.	2.6	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.	1.3	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.	1.9	10
165	Structure and Dynamics of Chromatographically Relevant Fe(III)-Chelates. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12232-12238.	1.2	4
166	Reproducible quantification of ethanol in gasoline via a customized mobile near-infrared spectrometer. <i>Analytica Chimica Acta</i> , 2014, 826, 61-68.	2.6	70
167	Alps food authentication, typicality and intrinsic quality by near infrared spectroscopy. <i>Food Research International</i> , 2014, 62, 984-990.	2.9	31
168	Quantitative Analysis of Salicylic Acid and its Derivatives in <i>Primulae radix</i> by High Performance Liquid Chromatography-Diode Array Detection- Electro spray Ionization Mass Spectrometry (HPLC-DAD-ESI-MS) and Simultaneous Determination of Total Polyphenol Content (TPC). <i>Current Analytical Chemistry</i> , 2014, 10, 271-279.	0.6	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.	1.9	14
171	Fourier transform infrared imaging analysis in discrimination studies of bladder cancer. <i>Analyst</i> , The, 2013, 138, 5719.	1.7	12
172	Solid-phase extraction of galloyl- and caffeoylquinic acids from natural sources (<i>Galpimia 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.	1.4	27
173	Simultaneous quantification of verbenaol 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.	1.4	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.	2.9	30
175	MALDI-MS tissue imaging identification of biliverdin reductase B overexpression in prostate cancer. <i>Journal of Proteomics</i> , 2013, 91, 500-514.	1.2	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.	2.0	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.	1.3	31
178	Optical Nanoantennas for Multiband Surface-Enhanced Infrared and Raman Spectroscopy. <i>ACS Nano</i> , 2013, 7, 3522-3531.	7.3	201
179	Selective enrichment of phosphopeptides by a metal-organic framework. <i>Analytical Methods</i> , 2013, 5, 2379.	1.3	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.	2.1	17

#	ARTICLE	IF	CITATIONS
181	Functionalized diamond nanopowder for phosphopeptides enrichment from complex biological fluids. <i>Analytica Chimica Acta</i> , 2013, 775, 75-84.	2.6	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.	0.6	23
184	Advanced Vibrational Spectroscopic Imaging of Human Tissue in Life Science. <i>Current Proteomics</i> , 2012, 9, 132-142.	0.1	13
185	Role of Infrared Spectroscopy in Proteomics and Subsequently the Biomarker Analysis. <i>Current Proteomics</i> , 2012, 9, 118-131.	0.1	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.	0.7	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.	2.4	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.	1.7	37
189	Fourier transform infrared imaging analysis in discrimination studies of squamous cell carcinoma. <i>Analyst, The</i> , 2012, 137, 3965.	1.7	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.	1.8	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.	2.4	13
192	Synthesis and In Vitro Characterization of a Preactivated Thiomer via Polymerization Reaction. <i>Biomacromolecules</i> , 2012, 13, 3054-3063.	2.6	15
193	Versatile nanocomposites in phosphoproteomics: A review. <i>Analytica Chimica Acta</i> , 2012, 747, 7-18.	2.6	31
194	Silica-Lanthanum Oxide: Pioneer Composite of Rare-Earth Metal Oxide in Selective Phosphopeptides Enrichment. <i>Analytical Chemistry</i> , 2012, 84, 10180-10185.	3.2	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	1.9	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.	1.6	13
197	Chemically modified diamond-like carbon (DLC) for protein enrichment and profiling by MALDI-MS. <i>Amino Acids</i> , 2012, 43, 823-831.	1.2	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. <i>Journal of Drug Targeting</i> , 2011, 19, 562-572.	2.1	16
200	Ursolic acid causes DNA-damage, P53-mediated, mitochondria- and caspase-dependent human endothelial cell apoptosis, and accelerates atherosclerotic plaque formation <i>in vivo</i> . <i>Atherosclerosis</i> , 2011, 219, 402-408.	0.4	45
201	Editorial [Hot Topic: Infrared Spectroscopy of Natural Compounds in Medicinal Plants (Guest Editor: Tj ETQq1 1 0.784314 rgBT /Over 0.2	0.2	2
202	Preparation of polymer based sorbents for solid phase extraction of polyphenolic compounds. <i>Open Chemistry</i> , 2011, 9, 206-212.	1.0	16
203	Near-Infrared Imaging Spectroscopy as a Tool to Discriminate Two Cryptic Tetramorium Ant Species. <i>Journal of Chemical Ecology</i> , 2011, 37, 549-552.	0.9	20
204	Infrared Spectroscopy: A Novel Tool for the Physicochemical Characterization of Particulate, Monolithic and Coated Stationary Phases. <i>Chromatographia</i> , 2011, 73, 29-34.	0.7	5
205	Novel multifunctional chitosan-GMA-IDA-Cu(II) nanospheres for high dynamic range characterization of the human plasma proteome. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 747-756.	1.9	8
206	Surface-assisted laser desorption/ionization-mass spectrometry using TiO ₂ -coated steel targets for the analysis of small molecules. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1963-1974.	1.9	41
207	Peptide mapping using capillary electrophoresis offline coupled to matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Electrophoresis</i> , 2011, 32, 2830-2839.	1.3	15
208	Protein profiling for cancer biomarker discovery using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry and infrared imaging: A review. <i>Analytica Chimica Acta</i> , 2011, 690, 26-34.	2.6	48
209	Near-infrared reflection spectroscopy (NIRS) as a successful tool for simultaneous identification and particle size determination of amoxicillin trihydrate. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 54, 1059-1064.	1.4	51
210	GC-MS method for the simultaneous determination of β -blockers, flavonoids, isoflavones and their metabolites in human urine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 56, 93-102.	1.4	61
211	Application of Near-Infrared Spectroscopy (NIRS) as a Tool for Quality Control in Traditional Chinese Medicine (TCM). <i>Current Bioactive Compounds</i> , 2011, 7, 75-84.	0.2	12
212	Role of Infrared Spectroscopy in Medicinal Plants Research in Pakistan. <i>Current Bioactive Compounds</i> , 2011, 7, 85-92.	0.2	0
213	Advances of Infrared Spectroscopic Imaging and Mapping Technologies of Plant Material. <i>Current Bioactive Compounds</i> , 2011, 7, 106-117.	0.2	16
214	A Workflow for Preprocessing and Proteomic Biomarker Identification on Mass-Spectrometry Data. , 2011, , .		0
215	Monolithic Stationary Phases in HPLC. <i>Chromatographic Science</i> , 2010, , 3-45.	0.1	1
216	CE coupled to MALDI with novel covalently coated capillaries. <i>Electrophoresis</i> , 2010, 31, 618-629.	1.3	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.	0.7	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.	0.7	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.	0.6	10
220	Infrared-Spectroscopy: A Non-Invasive Tool for Medical Diagnostics and Drug Analysis. <i>Current Medicinal Chemistry</i> , 2010, 17, 2956-2966.	1.2	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.	3.2	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.	2.0	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.	1.2	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.	1.2	36
226	Recent Applications of Organic Monoliths in Capillary Liquid Chromatographic Separation of Biomolecules. <i>Journal of Chromatographic Science</i> , 2009, 47, 418-431.	0.7	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.	1.3	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.	1.3	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.	1.2	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.	1.2	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.	1.8	81
232	Simultaneous Quantification of Neomycin and Bacitracin by LC-ELSD. <i>Chromatographia</i> , 2009, 69, 1181-1188.	0.7	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.	3.2	8
234	Ultrafast Microwave-Assisted In-Tip Digestion of Proteins. <i>Journal of Proteome Research</i> , 2009, 8, 4225-4230.	1.8	41

#	ARTICLE	IF	CITATIONS
235	New stationary phases for enrichment and separation in the "omics" era. <i>Bioanalysis</i> , 2009, 1, 151-169.	0.6	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.	1.2	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.	1.2	9
238	Nano-structured support materials, their characterisation and serum protein profiling through MALDI/TOF-MS. <i>Amino Acids</i> , 2008, 34, 279-286.	1.2	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.	1.3	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.	1.2	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.	1.3	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.	3.2	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.	0.6	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.	2.1	23
246	Current Advances in Antibody Immobilization on Different Surfaces and Beads. <i>Current Proteomics</i> , 2008, 5, 115-128.	0.1	4
247	When Size Matters"Near Infrared Reflection Spectroscopy of Nanostructured Materials. <i>Journal of Near Infrared Spectroscopy</i> , 2008, 16, 211-221.	0.8	6
248	Carbon Based Sample Supports and Matrices for Laser Desorption/Ionization Mass Spectrometry. <i>Recent Patents on Nanotechnology</i> , 2007, 1, 113-119.	0.7	10
249	Evaluation of extraction methods for the simultaneous analysis of simple and macrocyclic trichothecenes. <i>Talanta</i> , 2007, 73, 251-257.	2.9	35
250	Development and Application of C60-Fullerene Bound Silica for Solid-Phase Extraction of Biomolecules. <i>Analytical Chemistry</i> , 2007, 79, 8144-8153.	3.2	96
251	Alternative profiling platform based on MELDI and its applicability in clinical proteomics. <i>Expert Review of Proteomics</i> , 2007, 4, 447-452.	1.3	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.	1.8	51

#	ARTICLE	IF	CITATIONS
253	Mass Spectrometric Identification of Serum Peptides Employing Derivatized Poly(glycidyl) Tj ETQq1 1 0.784314 rgBT ₁ /Overlock 10 Tf 50	1.8	31
254	CEC and EKC of natural compounds. <i>Electrophoresis</i> , 2007, 28, 1645-1657.	1.3	24
255	Analysis of flavonoids by CE using capacitively coupled contactless conductivity detection. <i>Electrophoresis</i> , 2007, 28, 799-805.	1.3	22
256	Recent advances in capillary electrophoresis for biomarker discovery. <i>Journal of Separation Science</i> , 2007, 30, 192-201.	1.3	24
257	Monolithic poly[(trimethylsilyl-4-methylstyrene)-co- bis(4-vinylbenzyl)dimethylsilane] stationary phases for the fast separation of proteins and oligonucleotides. <i>Journal of Chromatography A</i> , 2007, 1147, 53-58.	1.8	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. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1763-1769.	1.9	10
259	Nanocrystalline Diamondâ€”An Excellent Platform for Life Science Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 4581-4587.	0.9	34
260	Capillary Electrophoresis Coupled To Mass Spectrometry for Forensic Analysis. <i>Open Chemical Engineering Journal</i> , 2007, 1, 30-43.	0.4	5
261	Medicinal applications of fullerenes. <i>International Journal of Nanomedicine</i> , 2007, 2, 639-49.	3.3	402
262	Nanocrystalline diamond--an excellent platform for life science applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 4581-7.	0.9	5
263	Oral peptide delivery: Are there remarkable effects on drugs through sulfhydryl conjugation?. <i>Journal of Drug Targeting</i> , 2006, 14, 117-125.	2.1	12
264	Near Infrared Spectroscopy, Cluster and Multivariate Analysisâ€”Characterisation of Silica Materials for Liquid Chromatography. <i>Journal of Near Infrared Spectroscopy</i> , 2006, 14, 51-57.	0.8	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. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2954-2960.	0.7	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. <i>Analytica Chimica Acta</i> , 2006, 580, 223-230.	2.6	34
267	Strong binding of bioactive BMP-2 to nanocrystalline diamond by physisorption. <i>Biomaterials</i> , 2006, 27, 4547-4556.	5.7	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. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1203-1208.	1.2	63
269	Progress in capillary electrophoresis of biomarkers and metabolites between 2002 and 2005. <i>Electrophoresis</i> , 2006, 27, 111-125.	1.3	29
270	Capillary electrochromatography of biologically relevant flavonoids. <i>Electrophoresis</i> , 2006, 27, 787-792.	1.3	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.	1.3	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.	1.3	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.	1.3	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.	2.6	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.	0.7	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.	2.0	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.	4.8	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.	1.3	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.	1.3	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.	1.3	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.	1.3	24
282	Phosphoproteomic analysis using immobilized metal ion affinity chromatography on the basis of cellulose powder. <i>Proteomics</i> , 2005, 5, 46-54.	1.3	46
283	Sample Preparation Techniques for Mass Spectrometry in Proteomics Using Recently Developed Highly Selective Materials. <i>Current Proteomics</i> , 2005, 2, 269-285.	0.1	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.	1.8	45
285	Poly(Glycidyl Methacrylate/Divinylbenzene)-IDA-Fellin Phosphoproteomics. <i>Journal of Proteome Research</i> , 2005, 4, 2312-2319.	1.8	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.	0.3	60
287	Recent progress in high-performance capillary bioseparations. <i>Electrophoresis</i> , 2003, 24, 3977-3997.	1.3	31
288	Disruption of vascular endothelial homeostasis by tobacco smoke"impact on atherosclerosis. <i>FASEB Journal</i> , 2003, 17, 2302-2304.	0.2	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.	1.8	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.	1.3	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.	1.2	18
294	Recent developments in polymer-based sorbents for solid-phase extraction. <i>Journal of Chromatography A</i> , 2000, 885, 51-72.	1.8	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.	1.8	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.	0.7	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.	0.7	21
298	Histidine77, Glutamic Acid81, Glutamic Acid123, Threonine126, Asparagine194, and Tryptophan197 of the Human Emopamil Binding Protein Are Required for in Vivo Sterol $^{18}\alpha^{17}$ Isomerization. <i>Biochemistry</i> , 1999, 38, 1119-1127.	1.2	40