

Christian GÃ¼nter Kirchler

List of Publications by Year in descending order

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papers

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	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 Rosmarini folium. Analyst, The, 2017, 142, 455-464.	3.5	94
2	Application of benchtop and portable near-infrared spectrometers for predicting the optimum harvest time of Verbena officinalis. Talanta, 2017, 169, 70-76.	5.5	43
3	NIR spectra simulation of thymol for better understanding of the spectra forming factors, phase and concentration effects and PLS regression features. Journal of Molecular Liquids, 2018, 268, 895-902.	4.9	42
4	Theae nigrae folium: Comparing the analytical performance of benchtop and handheld near-infrared spectrometers. Talanta, 2021, 221, 121165.	5.5	39
5	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
6	Comparison of sensitivity to artificial spectral errors and multivariate LOD in NIR spectroscopy â€œ Determining the performance of miniaturizations on melamine in milk powder. Talanta, 2017, 166, 109-118.	5.5	30
7	Critical Evaluation of NIR and ATR-IR Spectroscopic Quantifications of Rosmarinic Acid in Rosmarini folium Supported by Quantum Chemical Calculations. Planta Medica, 2017, 83, 1076-1084.	1.3	25
8	Miniaturized NIR spectroscopy for the determination of main carbohydrates in syrup. NIR News, 2017, 28, 3-6.	0.3	15
9	Hemodialysis monitoring using midâ€and nearâ€infrared spectroscopy with partial least squares regression. Journal of Biophotonics, 2018, 11, e201700365.	2.3	14
10	Near infrared spectroscopy as an alternative quick method for simultaneous detection of multiple adulterants in whey protein-based sports supplement. Food Control, 2018, 94, 331-340.	5.5	14
11	Near-infrared and Mid-infrared Spectroscopic Techniques for a Fast and Nondestructive Quality Control of Thymi herba. Planta Medica, 2018, 84, 420-427.	1.3	11
12	Synthesis and crystal structures of non-symmetric 1,3-di(alkyloxy)imidazolium salts. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2017, 72, 617-626.	0.7	10
13	Differentiation of South African Game Meat Using Near-Infrared (NIR) Spectroscopy and Hierarchical Modelling. Molecules, 2020, 25, 1845.	3.8	10
14	Comparative study of substituted poly(4-vinylbenzyl chloride/ethylene glycol dimethacrylate) sorbents for enrichment of selected pharmaceuticals and estrogens from aqueous samples. Journal of Hazardous Materials, 2018, 355, 180-186.	12.4	9
15	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
16	Direct Determination of Ni ²⁺ -Capacity of IMAC Materials Using Near-Infrared Spectroscopy. Molecules, 2018, 23, 3072.	3.8	6
17	Quantification of Silymarin in Silybi mariani fructus: Challenging the Analytical Performance of Benchtop vs. Handheld NIR Spectrometers on Whole Seeds. Planta Medica, 2022, 88, 20-32.	1.3	6
18	Near-Infrared Spectra of High-Density Crystalline H ₂ O Ices II, IV, V, VI, IX, and XII. Journal of Physical Chemistry A, 2021, 125, 1062-1068.	2.5	6

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19	Determination of the clean-up efficiency of the solid-phase extraction of rosemary extracts: Application of full-factorial design in hyphenation with Gaussian peak fit function. Journal of Separation Science, 2018, 41, 704-712.	2.5	5
20	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
21	Synthesis and Application of Histidine-Modified Poly(Glycidyl Methacrylate/Ethylene Glycol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Chromatographia, 2018, 81, 1467-1474.	1.3	2
22	The coupling of localised, vibrational modes – Probing OH-bands of organic molecules via a two dimensional Numerov approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117377.	3.9	2