

Christian GÃ¼nter Kirchler

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

433
citations

840585

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all docs

22
docs citations

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times ranked

312
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. <i>Analyst, The</i> , 2017, 142, 455-464.	1.7	94
2	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
3	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
4	<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
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. <i>Molecules</i> , 2019, 24, 1402.	1.7	38
6	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
7	Critical Evaluation of NIR and ATR-IR Spectroscopic Quantifications of Rosmarinic Acid in Rosmarini folium Supported by Quantum Chemical Calculations. <i>Planta Medica</i> , 2017, 83, 1076-1084.	0.7	25
8	Miniaturized NIR spectroscopy for the determination of main carbohydrates in syrup. <i>NIR News</i> , 2017, 28, 3-6.	1.6	15
9	Hemodialysis monitoring using mid- and near-infrared spectroscopy with partial least squares regression. <i>Journal of Biophotonics</i> , 2018, 11, e201700365.	1.1	14
10	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
11	Near-infrared and Mid-infrared Spectroscopic Techniques for a Fast and Nondestructive Quality Control of <i>Thymi herba</i> . <i>Planta Medica</i> , 2018, 84, 420-427.	0.7	11
12	Synthesis and crystal structures of non-symmetric 1,3-di(alkyloxy)imidazolium salts. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2017, 72, 617-626.	0.3	10
13	Differentiation of South African Game Meat Using Near-Infrared (NIR) Spectroscopy and Hierarchical Modelling. <i>Molecules</i> , 2020, 25, 1845.	1.7	10
14	Comparative study of substituted poly(4-vinylbenzyl chloride/ethylene glycol dimethacrylate) sorbents for enrichment of selected pharmaceuticals and estrogens from aqueous samples. <i>Journal of Hazardous Materials</i> , 2018, 355, 180-186.	6.5	9
15	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
16	Direct Determination of Ni ²⁺ -Capacity of IMAC Materials Using Near-Infrared Spectroscopy. <i>Molecules</i> , 2018, 23, 3072.	1.7	6
17	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
18	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

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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. <i>Journal of Separation Science</i> , 2018, 41, 704-712.	1.3	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. <i>Molecules</i> , 2019, 24, 2480.	1.7	5
21	Synthesis and Application of Histidine-Modified Poly(Glycidyl Methacrylate/Ethylene Glycol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T <i>Chromatographia</i> , 2018, 81, 1467-1474.	0.7	2
22	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