

# Ralf KrÃ¼ger

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8093196/publications.pdf>

Version: 2024-02-01

32  
papers

1,682  
citations

394421  
19  
h-index

434195  
31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2458  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Formation in MALDI:Â The Cluster Ionization Mechanism. Chemical Reviews, 2003, 103, 427-440.	47.7	539
2	Metabolite patterns predicting sex and age in participants of the Karlsruhe Metabolomics and Nutrition (KarMeN) study. PLoS ONE, 2017, 12, e0183228.	2.5	150
3	Silica- and Alkoxysilane-Coated Ultrasmall Superparamagnetic Iron Oxide Particles:Â A Promising Tool To Label Cells for Magnetic Resonance Imaging. Langmuir, 2007, 23, 1427-1434.	3.5	141
4	Analyte Incorporation and Ionization in Matrix-Assisted Laser Desorption/Ionization Visualized by pH Indicator Molecular Probes. Analytical Chemistry, 2001, 73, 5812-5821.	6.5	84
5	Associations of current diet with plasma and urine TMAO in the KarMeN study: direct and indirect contributions. Molecular Nutrition and Food Research, 2017, 61, 1700363.	3.3	84
6	Mechanisms in MALDI analysis: surface interaction or incorporation of analytes?. International Journal of Mass Spectrometry, 2001, 210-211, 121-132.	1.5	77
7	Protein and Proteome Phosphorylation Stoichiometry Analysis by Element Mass Spectrometry. Analytical Chemistry, 2006, 78, 1987-1994.	6.5	71
8	Matrix-assisted laser desorption/ionization mass spectrometry for the characterization of ionic liquids and the analysis of amino acids, peptides and proteins in ionic liquids. Journal of Mass Spectrometry, 2004, 39, 1494-1505.	1.6	62
9	Neutral Loss-Based Phosphopeptide Recognition:Â A Collection of Caveats. Journal of Proteome Research, 2007, 6, 2866-2873.	3.7	47
10	Î¼LC coupled to ICPâ€SFMS with post-column isotope dilution analysis of sulfur for absolute protein quantification. Analytical and Bioanalytical Chemistry, 2008, 391, 537-543.	3.7	47
11	Iodoacetamide-alkylated methionine can mimic neutral loss of phosphoric acid from phosphopeptides as exemplified by nano-electrospray ionization quadrupole time-of-flight parent ion scanning. Rapid Communications in Mass Spectrometry, 2005, 19, 1709-1716.	1.5	42
12	Formation and fate of ion pairs during MALDI analysis: Anion adduct generation as an indicative tool to determine ionization processes. Journal of the American Society for Mass Spectrometry, 2002, 13, 1218-1226.	2.8	39
13	Quantification of the Fabry marker lysoGb3 in human plasma by tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 883-884, 128-135.	2.3	32
14	Plant protein phosphorylation monitored by capillary liquid chromatographyâ€element mass spectrometry. Biochemical and Biophysical Research Communications, 2007, 355, 89-96.	2.1	29
15	Trimethylamine-N-Oxide Postprandial Response in Plasma and Urine Is Lower After Fermented Compared to Non-Fermented Dairy Consumption in Healthy Adults. Nutrients, 2020, 12, 234.	4.1	27
16	A novel approach for analysis of oligonucleotideâ€cisplatin interactions by continuous elution gel electrophoresis coupled to isotope dilution inductively coupled plasma mass spectrometry and matrixâ€assisted laser desorption/ionization mass spectrometry. Electrophoresis, 2008, 29, 1451-1459.	2.4	26
17	Characterization of a gadolinium-tagged modular contrast agent by element and molecular mass spectrometry. Journal of Analytical Atomic Spectrometry, 2004, 19, 852-857.	3.0	22
18	Determination of globotriaosylceramide in plasma and urine by mass spectrometry. Clinical Chemistry and Laboratory Medicine, 2010, 48, 189-98.	2.3	22

#	ARTICLE	IF	CITATIONS
19	Matrix-analyte-interaction in MALDI-MS: Pellet and nano-electrospray preparations. International Journal of Mass Spectrometry, 2006, 249-250, 426-432.	1.5	20
20	Mass Spectrometric Sequencing of Individual Peptides from Combinatorial Libraries via Specific Generation of Chain-Terminated Sequences. ACS Combinatorial Science, 2002, 4, 79-86.	3.3	18
21	Impact of glucuronide interferences on therapeutic drug monitoring of posaconazole by tandem mass spectrometry. Clinical Chemistry and Laboratory Medicine, 2010, 48, 1723-1731.	2.3	18
22	The influence of a chronic L-carnitine administration on the plasma metabolome of male Fischer F344 rats*. Molecular Nutrition and Food Research, 2017, 61, 1600651.	3.3	15
23	High-Intensity Interval Training Decreases Resting Urinary Hypoxanthine Concentration in Young Active Men—A Metabolomic Approach. Metabolites, 2019, 9, 137.	2.9	12
24	Targeted ultra-performance liquid chromatography/tandem mass spectrometric quantification of methylated amines and selected amino acids in biofluids. Rapid Communications in Mass Spectrometry, 2020, 34, e8646.	1.5	10
25	Determination of naltrexone and 6 <sup>3</sup> H-naltrexol in human blood: comparison of high-performance liquid chromatography with spectrophotometric and tandem-mass-spectrometric detection. Analytical and Bioanalytical Chemistry, 2010, 396, 1249-1257.	3.7	9
26	Specific Wheat Fractions Influence Hepatic Fat Metabolism in Diet-Induced Obese Mice. Nutrients, 2019, 11, 2348.	4.1	9
27	Quantification of Protein Phosphorylation by <sup>1</sup> H-LC-ICP-MS. Methods in Molecular Biology, 2009, 527, 201-218.	0.9	8
28	Roux-En-Y Gastric Bypass (RYGB) Surgery during High Liquid Sucrose Diet Leads to Gut Microbiota-Related Systematic Alterations. International Journal of Molecular Sciences, 2022, 23, 1126.	4.1	7
29	Sex-Specific Relationship between the Cardiorespiratory Fitness and Plasma Metabolite Patterns in Healthy Humans—Results of the KarMeN Study. Metabolites, 2021, 11, 463.	2.9	6
30	Dietary essential $\omega$ -3-linolenic acid and linoleic acid differentially modulate TNF $\alpha$ -induced NF $\kappa$ B activity in FADS2-deficient HEK-293 cells. International Journal of Food Sciences and Nutrition, 2017, 68, 553-559.	2.8	5
31	Lipophilic compounds, but not fucoxanthin, mediate the genotoxic effect of photoautotrophic grown Phaeodactylum tricornutum in Caco-2 and HT-29 cells. Journal of Functional Foods, 2020, 64, 103671.	3.4	4
32	A New Edman-Type Reagent for High Sensitive Protein Sequencing. Principles and Practice, 2004, , 269-278.	0.3	0