

Robert Winkler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99 papers	2,208 citations	25 h-index	44 g-index
125 ext. papers	2,660 ext. citations	5.1 avg, IF	5.12 L-index

#	Paper	IF	Citations
99	MoBiMS: A modular miniature mass analyzer for the real-time monitoring of gases and volatile compounds in biological systems. <i>Microchemical Journal</i> , 2022 , 175, 107090	4.8	1
98	Loss of Sensory Cup Quality: Physiological and Chemical Changes during Green Coffee Storage.. <i>Plant Foods for Human Nutrition</i> , 2022 , 77, 1	3.9	1
97	Analyzing the Distribution of Specialized Metabolites from Plant Native Tissues with Laser Desorption Low-Temperature Plasma Mass Spectrometry Imaging.. <i>Methods in Molecular Biology</i> , 2022 , 2469, 145-154	1.4	
96	Mass Fingerprinting for High-Throughput Analyses of Food: Authentication and Quality Control 2022 , 3-16		
95	Evaluation of Metabolomic Profile and Growth of Moringa oleifera L. Cultivated with Vermicompost under Different Soil Types. <i>Agronomy</i> , 2021 , 11, 2061	3.6	0
94	CHD1 controls H3.3 incorporation in adult brain chromatin to maintain metabolic homeostasis and normal lifespan. <i>Cell Reports</i> , 2021 , 37, 109769	10.6	0
93	Novel UV filters from Pentacalia pulchella extracts with photoprotective properties and antioxidant activity. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 1585-1597	4.2	2
92	Effects of the Developmental Regulator BOLITA on the Plant Metabolome. <i>Genes</i> , 2021 , 12,	4.2	1
91	Contrast optimization of mass spectrometry imaging (MSI) data visualization by threshold intensity quantization (TriQ). <i>PeerJ Computer Science</i> , 2021 , 7, e585	2.7	
90	ProtyQuant: Comparing label-free shotgun proteomics datasets using accumulated peptide probabilities. <i>Journal of Proteomics</i> , 2021 , 230, 103985	3.9	0
89	The emerging role of 3D-printing in ion mobility spectrometry and mass spectrometry. <i>Analytical Methods</i> , 2021 , 13, 852-861	3.2	5
88	MeteoMex: open infrastructure for networked environmental monitoring and agriculture 4.0. <i>PeerJ Computer Science</i> , 2021 , 7, e343	2.7	4
87	Protein extract of Bromelia karatas L. rich in cysteine proteases (ananain- and bromelain-like) has antibacterial activity against foodborne pathogens Listeria monocytogenes and Salmonella Typhimurium. <i>Folia Microbiologica</i> , 2021 , 1	2.8	0
86	Metabolic response to larval herbivory in three species. <i>Plant Signaling and Behavior</i> , 2021 , 1962050	2.5	0
85	Modulation of Aleurone Peroxidases in Kernels of Insect-Resistant Maize (L.; Pob84-C3R) After Mechanical and Insect Damage. <i>Frontiers in Plant Science</i> , 2020 , 11, 781	6.2	1
84	Prediction of the antioxidant capacity of maize (Zea mays) hybrids using mass fingerprinting and data mining. <i>Food Bioscience</i> , 2020 , 37, 100647	4.9	1
83	Mass spectrometry imaging of thin-layer chromatography plates using laser desorption/low-temperature plasma ionisation. <i>Analyst, The</i> , 2020 , 145, 3885-3891	5	8

82	Distinct gene expression and secondary metabolite profiles in tomato mutants having impaired mycorrhizal colonization. <i>PeerJ</i> , 2020 , 8, e8888	3.1	2
81	Proteomic analysis and interactions network in leaves of mycorrhizal and nonmycorrhizal sorghum plants under water deficit. <i>PeerJ</i> , 2020 , 8, e8991	3.1	4
80	Metabolomic effects of the colonization of <i>Medicago truncatula</i> by the facultative endophyte <i>Arthrobacter agilis</i> UMCV2 in a foliar inoculation system. <i>Scientific Reports</i> , 2020 , 10, 8426	4.9	10
79	Open LabBot and RmsiGUI: Community development kit for sampling automation and ambient imaging. <i>Microchemical Journal</i> , 2020 , 152, 104343	4.8	9
78	Mass Fingerprints of Tomatoes Fertilized with Different Nitrogen Sources Reveal Potential Biomarkers of Organic Farming. <i>Plant Foods for Human Nutrition</i> , 2019 , 74, 247-254	3.9	3
77	Software solutions for evaluation and visualization of laser ablation inductively coupled plasma mass spectrometry imaging (LA-ICP-MSI) data: a short overview. <i>Journal of Cheminformatics</i> , 2019 , 11, 16	8.6	21
76	Plasma protein adsorption on FeO-PEG nanoparticles activates the complement system and induces an inflammatory response. <i>International Journal of Nanomedicine</i> , 2019 , 14, 2055-2067	7.3	20
75	Screening for Green Coffee with Sensorial Defects Due to Aging During Storage by MALDI-ToF Mass Fingerprinting. <i>Food Analytical Methods</i> , 2019 , 12, 1571-1576	3.4	3
74	A Mass Spectrometry-Based Study Shows that Volatiles Emitted by UMCV2 Increase the Content of Brassinosteroids in in Response to Iron Deficiency Stress. <i>Molecules</i> , 2019 , 24,	4.8	3
73	Effects of Water Availability in the Soil on Tropane Alkaloid Production in Cultivated. <i>Metabolites</i> , 2019 , 9,	5.6	6
72	Metabolomic Markers for the Early Selection of Plants with Desirable Cup Quality Traits. <i>Metabolites</i> , 2019 , 9,	5.6	10
71	Low-Temperature Plasma Ionization 2019 , 105-124		0
70	from Predator to Prey: Role of the Mitogen-Activated Protein Kinase Tmk3 in Fungal Chemical Defense against Fungivory by Larvae. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	11
69	Elucidating the Distribution of Plant Metabolites from Native Tissues with Laser Desorption Low-Temperature Plasma Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2019 , 91, 2734-2743	7.8	26
68	Increase of peroxidase activity in tropical maize after recurrent selection to storage pest resistance. <i>Journal of Stored Products Research</i> , 2018 , 75, 47-55	2.5	5
67	In vivo monitoring of nicotine biosynthesis in tobacco leaves by low-temperature plasma mass spectrometry. <i>Talanta</i> , 2018 , 185, 324-327	6.2	9
66	Postharvest insect resistance in maize. <i>Journal of Stored Products Research</i> , 2018 , 77, 66-76	2.5	19
65	<i>Funaria hygrometrica</i> Hedw. elevated tolerance to DO: its use for the production of highly deuterated metabolites. <i>Planta</i> , 2018 , 247, 405-412	4.7	3

64	In vitro UV absorption properties and radical scavenging capacity of <i>Morella parvifolia</i> (Benth.) Parra-Os. extracts. <i>Brazilian Journal of Pharmaceutical Sciences</i> , 2018 , 54,	1.8	4
63	Modulation of steroidal glycoalkaloid biosynthesis in tomato (<i>Solanum lycopersicum</i>) by jasmonic acid. <i>Plant Science</i> , 2018 , 277, 155-165	5.3	14
62	The organophosphate pesticide methamidophos opens the blood-testis barrier and covalently binds to ZO-2 in mice. <i>Toxicology and Applied Pharmacology</i> , 2018 , 360, 257-272	4.6	16
61	Down-regulation of PvTRX1h increases nodule number and affects auxin, starch, and metabolic fingerprints in the common bean (<i>Phaseolus vulgaris</i> L.). <i>Plant Science</i> , 2018 , 274, 45-58	5.3	9
60	Low-temperature plasma (LTP) jets for mass spectrometry (MS): Ion processes, instrumental set-ups, and application examples. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 89, 133-145	14.6	32
59	Automated chemical fingerprinting of Mexican spirits derived from Agave (tequila and mezcal) using direct-injection electrospray ionisation (DIESI) and low-temperature plasma (LTP) mass spectrometry. <i>Analytical Methods</i> , 2017 , 9, 5023-5028	3.2	19
58	Lipidomic profiles of <i>Drosophila melanogaster</i> and cactophilic fly species: models of human metabolic diseases. <i>Integrative Biology (United Kingdom)</i> , 2017 , 9, 885-891	3.7	4
57	A comparison of the human and mouse protein corona profiles of functionalized SiO nanocarriers. <i>Nanoscale</i> , 2017 , 9, 13651-13660	7.7	36
56	Genomic history of the origin and domestication of common bean unveils its closest sister species. <i>Genome Biology</i> , 2017 , 18, 60	18.3	79
55	Rapid Classification of Coffee Products by Data Mining Models from Direct Electrospray and Plasma-Based Mass Spectrometry Analyses. <i>Food Analytical Methods</i> , 2017 , 10, 1359-1368	3.4	20
54	The Flavonoid Fraction from <i>Rhoeo discolor</i> Leaves Acts Antiviral Against Influenza A Virus. <i>Records of Natural Products</i> , 2017 , 11, 532-546	1.9	10
53	Improved Representation of Biological Information by Using Correlation as Distance Function for Heatmap Cluster Analysis. <i>American Journal of Plant Sciences</i> , 2017 , 08, 502-516	0.5	11
52	Photoprotective Potential of <i>Baccharis antioquiensis</i> (Asteraceae) as Natural Sunscreen. <i>Photochemistry and Photobiology</i> , 2016 , 92, 742-52	3.6	17
51	Template for 3D Printing a Low-Temperature Plasma Probe. <i>Analytical Chemistry</i> , 2016 , 88, 6976-80	7.8	40
50	Popper and the Omics. <i>Frontiers in Plant Science</i> , 2016 , 7, 195	6.2	2
49	Structural Basis for Redox Regulation of Cytoplasmic and Chloroplastic Triosephosphate Isomerases from. <i>Frontiers in Plant Science</i> , 2016 , 7, 1817	6.2	17
48	MSI.R scripts reveal volatile and semi-volatile features in low-temperature plasma mass spectrometry imaging (LTP-MSI) of chilli (<i>Capsicum annuum</i>). <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5673-84	4.4	17
47	SpiderMass: Semantic database creation and tripartite metabolite identification strategy. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 538-41	2.2	13

46	GridMass: a fast two-dimensional feature detection method for LC/MS. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 165-74	2.2	34
45	Metabolic fingerprinting of Arabidopsis thaliana accessions. <i>Frontiers in Plant Science</i> , 2015 , 6, 365	6.2	13
44	The Phaseolus vulgaris PvTRX1h gene regulates plant hormone biosynthesis in embryogenic callus from common bean. <i>Frontiers in Plant Science</i> , 2015 , 6, 577	6.2	16
43	Identification of B6T173 (ZmPrx35) as the prevailing peroxidase in highly insect-resistant maize (Zea mays, p84C3) kernels by activity-directed purification. <i>Frontiers in Plant Science</i> , 2015 , 6, 670	6.2	7
42	Metabolic profiling of plant extracts using direct-injection electrospray ionization mass spectrometry allows for high-throughput phenotypic characterization according to genetic and environmental effects. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 1042-52	5.7	25
41	Reduction of aflatoxin B1 during tortilla production and identification of degradation by-products by direct-injection electrospray mass spectrometry (DIESI-MS). <i>Salud Publica De Mexico</i> , 2015 , 57, 50-7	1.7	9
40	An evolving computational platform for biological mass spectrometry: workflows, statistics and data mining with MASSyPup64. <i>PeerJ</i> , 2015 , 3, e1401	3.1	16
39	Preventive and therapeutic potential of peptides from cereals against cancer. <i>Journal of Proteomics</i> , 2014 , 111, 165-83	3.9	70
38	MASSyPup--an Out of the box solution for the analysis of mass spectrometry data. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 37-42	2.2	14
37	Plug and Play Assembly of a low-temperature plasma ionization mass spectrometry imaging (LTP-MSI) system. <i>Journal of Proteomics</i> , 2014 , 102, 60-5	3.9	36
36	Proteomic analysis of Entamoeba histolytica in vivo assembled pre-mRNA splicing complexes. <i>Journal of Proteomics</i> , 2014 , 111, 30-45	3.9	10
35	Vinylogous chain branching catalysed by a dedicated polyketide synthase module. <i>Nature</i> , 2013 , 502, 124-8	50.4	93
34	Design of a low-temperature plasma (LTP) probe with adjustable output temperature and variable beam diameter for the direct detection of organic molecules. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 629-34	2.2	25
33	Lysine-directed staining of proteins for MS-based analyses. <i>Electrophoresis</i> , 2013 , 34, 401-4	3.6	1
32	Metabolic phenotyping for the classification of coffee trees and the exploration of selection markers. <i>Molecular BioSystems</i> , 2013 , 9, 693-9		25
31	Phenotypic comparison of samdc and spe mutants reveals complex relationships of polyamine metabolism in Ustilago maydis. <i>Microbiology (United Kingdom)</i> , 2012 , 158, 674-684	2.9	10
30	Fungal Arabinofuranosidases of glycosyl hydrolase families 51 and 54 show a dual arabinofuranosyl- and galactofuranosyl-hydrolyzing activity. <i>Biological Chemistry</i> , 2012 , 393, 767-75	4.5	10
29	Evaluating the physiological state of maize (Zea mays L.) plants by direct-injection electrospray mass spectrometry (DIESI-MS). <i>Molecular BioSystems</i> , 2012 , 8, 1658-60		19

28	Proteome analysis of the farnesol-induced stress response in <i>Aspergillus nidulans</i> --The role of a putative dehydrin. <i>Journal of Proteomics</i> , 2012 , 75, 4038-49	3.9	21
27	Accelerated identification of proteins by mass spectrometry by employing covalent pre-gel staining with Uniblue A. <i>PLoS ONE</i> , 2012 , 7, e31438	3.7	7
26	Comparative and functional genomics provide insights into the pathogenicity of dermatophytic fungi. <i>Genome Biology</i> , 2011 , 12, R7	18.3	147
25	Mass spectrometry-based protein patterns in the diagnosis of sepsis/systemic inflammatory response syndrome. <i>Shock</i> , 2011 , 36, 560-9	3.4	16
24	Colorimetric protein quantification in aqueous two-phase systems. <i>Process Biochemistry</i> , 2011 , 46, 413-418	4.8	20
23	A ribonucleotide reductase-like electron transfer system in the nitroaryl-forming N-oxygenase AurF. <i>ChemBioChem</i> , 2011 , 12, 1832-5	3.8	9
22	Analysis of the <i>Aspergillus fumigatus</i> proteome reveals metabolic changes and the activation of the pseurotin A biosynthesis gene cluster in response to hypoxia. <i>Journal of Proteome Research</i> , 2011 , 10, 2508-24	5.6	103
21	An FMN hydrolase of the haloacid dehalogenase superfamily is active in plant chloroplasts. <i>Journal of Biological Chemistry</i> , 2011 , 286, 42091-42098	5.4	14
20	Activity-directed identification of maize kernel peroxidases associated with postharvest insect resistance. <i>Molecular BioSystems</i> , 2010 , 6, 1810-2		11
19	Structural and biochemical basis for the firm chemo- and regioselectivity of the nitro-forming N-oxygenase AurF. <i>Chemical Communications</i> , 2010 , 46, 7760-2	5.8	6
18	ESIprot: a universal tool for charge state determination and molecular weight calculation of proteins from electrospray ionization mass spectrometry data. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 285-94	2.2	48
17	A novel immune evasion strategy of <i>Candida albicans</i> : proteolytic cleavage of a salivary antimicrobial peptide. <i>PLoS ONE</i> , 2009 , 4, e5039	3.7	100
16	Production of pyomelanin, a second type of melanin, via the tyrosine degradation pathway in <i>Aspergillus fumigatus</i> . <i>Applied and Environmental Microbiology</i> , 2009 , 75, 493-503	4.8	158
15	Two-dimensional proteome reference maps for the human pathogenic filamentous fungus <i>Aspergillus fumigatus</i> . <i>Proteomics</i> , 2009 , 9, 1407-15	4.8	66
14	Proteomic analysis of human papillomavirus-related oral squamous cell carcinoma: identification of thioredoxin and epidermal-fatty acid binding protein as upregulated protein markers in microdissected tumor tissue. <i>Proteomics</i> , 2009 , 9, 2193-201	4.8	27
13	Global distribution and evolution of a toxinogenic <i>Burkholderia-Rhizopus</i> symbiosis. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2982-6	4.8	65
12	Evolution of host resistance in a toxin-producing bacterial-fungal alliance. <i>ISME Journal</i> , 2008 , 2, 632-41	11.9	66
11	Biosynthesis of nitro compounds. <i>ChemBioChem</i> , 2007 , 8, 973-7	3.8	75

10	A binuclear manganese cluster that catalyzes radical-mediated N-oxygenation. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8605-8	16.4	28
9	A Binuclear Manganese Cluster That Catalyzes Radical-Mediated N-Oxygenation. <i>Angewandte Chemie</i> , 2007 , 119, 8759-8762	3.6	6
8	Monitoring phosphatase reactions of multiple phosphorylated substrates by reversed-phase HPLC. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 853, 204-13	3.2	3
7	Structure and action of the N-oxygenase AurF from <i>Streptomyces thioluteus</i> . <i>Journal of Molecular Biology</i> , 2007 , 373, 65-74	6.5	44
6	Regio- and chemoselective enzymatic N-oxygenation in vivo, in vitro, and in flow. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 8016-8	16.4	39
5	Regio- and Chemoselective Enzymatic N-Oxygenation In Vivo, In Vitro, and in Flow. <i>Angewandte Chemie</i> , 2006 , 118, 8184-8186	3.6	14
4	The expression of selected non-ribosomal peptide synthetases in <i>Aspergillus fumigatus</i> is controlled by the availability of free iron. <i>FEMS Microbiology Letters</i> , 2005 , 248, 83-91	2.9	42
3	Sequential enzymatic oxidation of aminoarenes to nitroarenes via hydroxylamines. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4083-7	16.4	64
2	Sequenzielle enzymatische Oxidation von Aminoarenen zu Nitroarenen Ber Hydroxylamine. <i>Angewandte Chemie</i> , 2005 , 117, 4152-4155	3.6	22
1	Formatting Open Science: agilely creating multiple document formats for academic manuscripts with Pandoc Scholar. <i>PeerJ Computer Science</i> , 3, e112	2.7	4