Mark W Sumarah

List of Publications by Year
in descending order

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97 papers	2,981 citations	172457 29 h-index	206112 48 g-index
97 all docs	97 docs citations	97 times ranked	4055 citing authors

#	Article	IF	Citations
1	Accelerated Biodegradation of Veterinary Antibiotics in Agricultural Soil following Long-Term Exposure, and Isolation of a Sulfamethazine-degrading Microbacterium sp.. Journal of Environmental Quality, 2013, 42, 173-178.	2.0	126
2	A multi-platform metabolomics approach identifies highly specific biomarkers of bacterial diversity in the vagina of pregnant and non-pregnant women. Scientific Reports, 2015, 5, 14174.	3.3	113
3	Aflatoxin exposure in Nigerian children with severe acute malnutrition. Food and Chemical Toxicology, 2018, 111, 356-362.	3.6	92
4	Production of Metabolites from thePenicillium roquefortiComplex. Journal of Agricultural and Food Chemistry, 2006, 54, 3756-3763.	5.2	89
5	Pharmaceuticals and pesticides in secondary effluent wastewater: Identification and enhanced removal by acid-activated ferrate(VI). Water Research, 2019, 148, 272-280.	11.3	85
6	Probiotic Lactobacillus rhamnosus Reduces Organophosphate Pesticide Absorption and Toxicity to Drosophila melanogaster. Applied and Environmental Microbiology, 2016, 82, 6204-6213.	3.1	83
7	Effect of chemotherapy on the microbiota and metabolome of human milk, a case report. Microbiome, 2014, 2, 24.	11.1	81
8	Neonicotinoid-induced pathogen susceptibility is mitigated by Lactobacillus plantarum immune stimulation in a Drosophila melanogaster model. Scientific Reports, 2017, 7, 2703.	3.3	77
9	Secondary metabolites from anti-insect extracts of endophytic fungi isolated from Picea rubens. Phytochemistry, 2010, 71, 760-765.	2.9	73
10	Characterization of Polyketide Metabolites from Foliar Endophytes of Picea glauca. Journal of Natural Products, 2008, 71, 1393-1398.	3.0	72
11	Characterisation of antagonistic Bacillus and Pseudomonas strains for biocontrol potential and suppression of dampingâ€off and root rot diseases. Annals of Applied Biology, 2015, 166, 456-471.	2.5	71
12	Reduced persistence of the macrolide antibiotics erythromycin, clarithromycin and azithromycin in agricultural soil following several years of exposure in the field. Science of the Total Environment, 2016, 562, 136-144.	8.0	71
13	Effect of a Rugulosin-producing Endophyte in Picea glauca on Choristoneura fumiferana. Journal of Chemical Ecology, 2008, 34, 362-368.	1.8	70
14	Antifungal metabolites from fungal endophytes of Pinus strobus. Phytochemistry, 2011, 72, 1833-1837.	2.9	68
15	NbEXPA1, an Î±â€expansin, is plasmodesmataâ€specific and a novel host factor for potyviral infection. Plant Journal, 2017, 92, 846-861.	5.7	60
16	Isolation and metabolite production by Penicillium roqueforti, P. paneum and P. crustosum isolated in Canada. Mycopathologia, 2005, 159, 571-577.	3.1	56
17	Microbiota-Mediated Modulation of Organophosphate Insecticide Toxicity by Species-Dependent Interactions with Lactobacilli in a Drosophila melanogaster Insect Model. Applied and Environmental Microbiology, 2018, 84, .	3.1	55
18	A Systems Biology Approach Investigating the Effect of Probiotics on the Vaginal Microbiome and Host Responses in a Double Blind, Placebo-Controlled Clinical Trial of Post-Menopausal Women. PLoS ONE, 2014, 9, e104511.	2.5	55

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19	Spread and persistence of a rugulosin-producing endophyte in Picea glauca seedlings. Mycological Research, 2008, 112, 731-736.	2.5	54
20	Promising Prebiotic Candidate Established by Evaluation of Lactitol, Lactulose, Raffinose, and Oligofructose for Maintenance of a Lactobacillus-Dominated Vaginal Microbiota. Applied and Environmental Microbiology, 2018, 84, .	3.1	54
21	A Novel Millet-Based Probiotic Fermented Food for the Developing World. Nutrients, 2017, 9, 529.	4.1	53
22	Inhibition of Phytophthora species by secondary metabolites produced by the dark septate endophyte Phialocephala europaea. Fungal Ecology, 2013, 6, 12-18.	1.6	50
23	Griseofulvin-producing Xylaria endophytes of Pinus strobus and Vaccinium angustifolium: evidence for a conifer-understory species endophyte ecology. Fungal Ecology, 2014, 11, 107-113.	1.6	47
24	Nontargeted Analysis Study Reporting Tool: A Framework to Improve Research Transparency and Reproducibility. Analytical Chemistry, 2021, 93, 13870-13879.	6.5	47
25	Repellent and Attractive Effects of Î±-, Î²-, and Dihydro-Î²- Ionone to Generalist and Specialist Herbivores. Journal of Chemical Ecology, 2016, 42, 107-117.	1.8	45
26	Biodegradation of benzalkonium chlorides singly and in mixtures by a Pseudomonas sp. isolated from returned activated sludge. Journal of Hazardous Materials, 2015, 299, 595-602.	12.4	44
27	Enzymatic transformation of aflatoxin B1 by Rh_DypB peroxidase and characterization of the reaction products. Chemosphere, 2020, 250, 126296.	8.2	41
28	Isolation and Structure Elucidation by LC-MS-SPE/NMR:â€‰ PR Toxin- and Cuspidatol-Related Eremophilane Sesquiterpenes from Penicillium roqueforti. Journal of Natural Products, 2007, 70, 121-123.	3.0	40
29	Persistence of the tricyclic antidepressant drugs amitriptyline and nortriptyline in agriculture soils. Environmental Toxicology and Chemistry, 2013, 32, 509-516.	4.3	35
30	Mycotoxins that affect the North American agri-food sector: state of the art and directions for the future. World Mycotoxin Journal, 2014, 7, 63-82.	1.4	34
31	Glyoxylate cycle and metabolism of organic acids in the scutellum of barley seeds during germination. Plant Science, 2016, 248, 37-44.	3.6	33
32	A survey of xerophilic Aspergillus from indoor environment, including descriptions of two new section Aspergillus species producing eurotium-like sexual states. MycoKeys, 0, 19, 1-30.	1.9	32
33	Data independent acquisition-digital archiving mass spectrometry: application to single kernel mycotoxin analysis of Fusarium graminearum infected maize. Analytical and Bioanalytical Chemistry, 2016, 408, 3083-3091.	3.7	31
34	Chaetoglobosins and azaphilones produced by Canadian strains of Chaetomium globosum isolated from the indoor environment. Mycotoxin Research, 2013, 29, 47-54.	2.3	30
35	Horizontal transmission of the Picea glauca foliar endophyte Phialocephala scopiformis CBS 120377. Fungal Ecology, 2009, 2, 98-101.	1.6	29
36	Identification of six new Alternaria sulfoconjugated metabolites by highâ€resolution neutral loss filtering. Rapid Communications in Mass Spectrometry, 2015, 29, 1805-1810.	1.5	29

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37	Investigating probiotic yoghurt to reduce an aflatoxin B1 biomarker among school children in eastern Kenya: Preliminary study. International Dairy Journal, 2016, 63, 124-129.	3.0	29
38	Mechanistic Insight into the Biosynthesis and Detoxification of Fumonisin Mycotoxins. ACS Chemical Biology, 2016, 11, 2618-2625.	3.4	29
39	Interacting climate change environmental factors effects on Fusarium langsethiae growth, expression of Tri genes and T-2/HT-2 mycotoxin production on oat-based media and in stored oats. Fungal Biology, 2019, 123, 618-624.	2.5	29
40	MsmiR156 affects global gene expression and promotes root regenerative capacity and nitrogen fixation activity in alfalfa. Transgenic Research, 2017, 26, 541-557.	2.4	28
41	Measurement of a rugulosin-producing endophyte in white spruce seedlings. Mycologia, 2005, 97, 770-776.	1.9	27
42	Product ion filtering with rapid polarity switching for the detection of all fumonisins and AAL-toxins. Rapid Communications in Mass Spectrometry, 2015, 29, 2131-2139.	1.5	26
43	Spectral Counting Approach to Measure Selectivity of High-Resolution LCâ€“MS Methods for Environmental Analysis. Analytical Chemistry, 2017, 89, 2747-2754.	6.5	26
44	New azaphilones from Chaetomium globosum isolated from the built environment. Tetrahedron Letters, 2013, 54, 568-572.	1.4	25
45	Toxicity reduction and improved biodegradability of benzalkonium chlorides by ozone/hydrogen peroxide advanced oxidation process. Separation and Purification Technology, 2017, 185, 72-82.	7.9	25
46	Comparing genotype and chemotype of Fusarium graminearum from cereals in Ontario, Canada. PLoS ONE, 2019, 14, e0216735.	2.5	25
47	Diversity of Mycotoxin-Producing Black Aspergilli in Canadian Vineyards. Journal of Agricultural and Food Chemistry, 2016, 64, 1583-1589.	5.2	24
48	veA Gene Acts as a Positive Regulator of Conidia Production, Ochratoxin A Biosynthesis, and Oxidative Stress Tolerance in Aspergillus niger. Journal of Agricultural and Food Chemistry, 2018, 66, 13199-13208.	5.2	24
49	Metabolomic Profiling of Fungal Pathogens Responsible for Root Rot in American Ginseng. Metabolites, 2020, 10, 35.	2.9	23
50	Anti-insect secondary metabolites from fungal endophytes of conifer trees. Natural Product Communications, 2009, 4, 1497-504.	0.5	23
51	Diagnostic fragmentation filtering for the discovery of new chaetoglobosins and cytochalasins. Rapid Communications in Mass Spectrometry, 2019, 33, 133-139.	1.5	22
52	Metabolomic-guided discovery of cyclic nonribosomal peptides from Xylaria ellisii sp. nov., a leaf and stem endophyte of Vaccinium angustifolium. Scientific Reports, 2020, 10, 4599.	3.3	22
53	The antihistamine diphenhydramine is extremely persistent in agricultural soil. Science of the Total Environment, 2012, 439, 136-140.	8.0	20
54	Metabolic derangements identified through untargeted metabolomics in a cross-sectional study of Nigerian children with severe acute malnutrition. Metabolomics, 2017, 13, 1.	3.0	20

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55	Metabolites of Trichoderma species isolated from damp building materials. Canadian Journal of Microbiology, 2017, 63, 621-632.	1.7	20
56	Pilot assessment of probiotics for pregnant women in Rwanda. PLoS ONE, 2018, 13, e0195081.	2.5	19
57	Aflatoxin, Fumonisin and Shiga Toxin-Producing Escherichia coli Infections in Calves and the Effectiveness of CelmanaxÂ®/Dairymanâ€™s Choiceâ„¢ Applications to Eliminate Morbidity and Mortality Losses. Toxins, 2013, 5, 1872-1895.	3.4	18
58	Uptake and phytotoxic effect of benzalkonium chlorides in Lepidium sativum and Lactuca sativa. Journal of Environmental Management, 2018, 206, 490-497.	7.8	18
59	Characterization of aromatic aminotransferases from Ephedra sinica Stapf. Amino Acids, 2016, 48, 1209-1220.	2.7	16
60	Application of C8 liquid chromatography-tandem mass spectrometry for the analysis of enniatins and bassianolides. Journal of Chromatography A, 2017, 1508, 65-72.	3.7	16
61	Trienylfuranol A and trienylfuranone Aâ€“B: metabolites isolated from an endophytic fungus, Hypoxylon submoniticulosum, in the raspberry Rubus idaeus. Journal of Antibiotics, 2017, 70, 721-725.	2.0	15
62	Epoxynemanione A, nemanifuranones Aâ€“F, and nemanilactones Aâ€“C, from Nemania serpens, an endophytic fungus isolated from Riesling grapevines. Phytochemistry, 2017, 140, 16-26.	2.9	15
63	Mycotoxin Testing Paradigm: Challenges and Opportunities for the Future. Journal of AOAC INTERNATIONAL, 2019, 102, 1681-1688.	1.5	15
64	Measurement of a rugulosin-producing endophyte in white spruce seedlings. Mycologia, 2005, 97, 770-776.	1.9	14
65	Anti-Insect Secondary Metabolites from Fungal Endophytes of Conifer Trees. Natural Product Communications, 2009, 4, 1934578X0900401.	0.5	14
66	Identification and Characterization of an Aspergillus niger Amine Oxidase that Detoxifies Intact Fumonisins. Journal of Agricultural and Food Chemistry, 2020, 68, 13779-13790.	5.2	14
67	Improved methods for biomarker analysis of the big five mycotoxins enables reliable exposure characterization in a population of childbearing age women in Rwanda. Food and Chemical Toxicology, 2021, 147, 111854.	3.6	13
68	Structure Activity Relationship for Fumonisin Phytotoxicity. Chemical Research in Toxicology, 2021, 34, 1604-1611.	3.3	13
69	Persistence and dissipation pathways of the antidepressant sertraline in agricultural soils. Science of the Total Environment, 2013, 452-453, 296-301.	8.0	12
70	Unraveling the Ergot Alkaloid and Indole Diterpenoid Metabolome in the Claviceps purpurea Species Complex Using LCâ€“HRMS/MS Diagnostic Fragmentation Filtering. Journal of Agricultural and Food Chemistry, 2021, 69, 7137-7148.	5.2	12
71	Characterization of (16R) and (16S)-hydroxyroquefortine C; diastereomeric metabolites from Penicillium crustosum DAOM 215343. Tetrahedron Letters, 2012, 53, 956-958.	1.4	11
72	Multilaboratory Collaborative Study of a Nontarget Data Acquisition for Target Analysis (nDATA) Workflow Using Liquid Chromatography-High-Resolution Accurate Mass Spectrometry for Pesticide Screening in Fruits and Vegetables. Journal of Agricultural and Food Chemistry, 2021, 69, 13200-13216.	5.2	11

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73	High-Throughput Quantitation of Neonicotinoids in Lyophilized Surface Water by LC-APCI-MS/MS. Journal of AOAC INTERNATIONAL, 2018, 101, 1940-1947.	1.5	10
74	Screening of Fungal Endophytes Isolated from Eastern White Pine Needles. , 2015, , 195-206.		10
75	Tracing major metabolites of quinoxalineâ€1,4â€dioxides in abalone with highâ€performance liquid chromatography tandem positiveâ€mode electrospray ionization mass spectrometry. Journal of the Science of Food and Agriculture, 2019, 99, 5550-5557.	3.5	9
76	Malodorous biogenic amines in Escherichia coli-caused urinary tract infections in womenâ€"a metabolomics approach. Scientific Reports, 2020, 10, 9703.	3.3	9
77	MycoKey Round Table Discussions of Future Directions in Research on Chemical Detection Methods, Genetics and Biodiversity of Mycotoxins. Toxins, 2018, 10, 109.	3.4	8
78	Fate of micropollutants in chemically enhanced primary treatment using recovered coagulants. Journal of Environmental Management, 2020, 269, 110815.	7.8	8
79	Interstrain Variability of Human Vaginal Lactobacillus crispatus for Metabolism of Biogenic Amines and Antimicrobial Activity against Urogenital Pathogens. Molecules, 2021, 26, 4538.	3.8	8
80	Monitoring of Environmental Contaminants in Mixedâ€Use Watersheds Combining Targeted and Nontargeted Analysis with Passive Sampling. Environmental Toxicology and Chemistry, 2022, 41, 1131-1143.	4.3	8
81	Identification of N,Nâ€²,Nâ€³-triacetylfusarinine C as a key metabolite for root rot disease virulence in American ginseng. Journal of Ginseng Research, 2021, 45, 156-162.	5.7	7
82	Normalization of LC-MS mycotoxin determination using the N-alkylpyridinium-3-sulfonates (NAPS) retention index system. Journal of Chromatography A, 2021, 1639, 461901.	3.7	7
83	New diplosporin and agistatine derivatives produced by the fungal endophyte Xylaria sp. isolated from Vitis labrusca. Phytochemistry Letters, 2014, 9, 179-183.	1.2	6
84	Chemotaxonomic Profiling of Canadian Alternaria Populations Using High-Resolution Mass Spectrometry. Metabolites, 2020, 10, 238.	2.9	6
85	Simultaneous quantification of five pharmaceuticals and personal care products in biosolids and their fate in thermo-alkaline treatment. Journal of Environmental Management, 2021, 278, 111404.	7.8	6
86	Simplified Synthesis and Stability Assessment of Aflatoxin B1-Lysine and Aflatoxin G1-Lysine. Toxins, 2022, 14, 56.	3.4	6
87	Resorcylic acid lactones from the ginseng pathogen Ilyonectria mors-panacis. Phytochemistry Letters, 2022, 48, 94-99.	1.2	6
88	Natural Product Discovery with LC-MS/MS Diagnostic Fragmentation Filtering: Application for Microcystin Analysis. Journal of Visualized Experiments, 2019, , .	0.3	5
89	Diagnostic Fragmentation Filtering for Cyanopeptolin Detection. Environmental Toxicology and Chemistry, 2021, 40, 1087-1097.	4.3	5
90	Plant growth regulator-mediated anti-herbivore responses of cabbage (Brassica oleracea) against cabbage looper Trichoplusia ni HÃ¼bner (Lepidoptera: Noctuidae). Pesticide Biochemistry and Physiology, 2017, 141, 9-17.	3.6	4

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91	Deciphering Sâ€methylcysteine biosynthesis in common bean by isotopic tracking with mass spectrometry. Plant Journal, 2019, 100, 176-186.	5.7	4
92	In vivo extraction of volatile organic compounds (VOCs) from Micro-Tom tomato flowers with multiple solid phase microextraction (SPME) fibers. Canadian Journal of Chemistry, 2015, 93, 143-150.	1.1	3
93	Mycotoxin Testing Paradigm: Challenges and Opportunities for the Future. Journal of AOAC INTERNATIONAL, 2019, 102, 1681-1688.	1.5	3
94	Production of Metabolites from thePenicillium roquefortiComplex. Journal of Agricultural and Food Chemistry, 2006, 54, 5216-5216.	5.2	2
95	Ilyonectria Root Rot of Ginseng Is Attenuated via Enzymatic Degradation of the Extracellular Fe³⁺-Bound Siderophore N,Nâ€²,Nâ€³-Triacetylfusarinine C. ACS Agricultural Science and Technology, 2022, 2, 402-408.	2.3	2
96	The Two-Way Interaction between the Molecules That Cause Vaginal Malodour and Lactobacilli: An Opportunity for Probiotics. International Journal of Molecular Sciences, 2021, 22, 12279.	4.1	1
97	Cover Image, Volume 99, Issue 12. Journal of the Science of Food and Agriculture, 2019, 99, i.	3.5	0