## **Daniel Petras**

List of Publications by Year in descending order

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DANIEL DETDAS

#	Article	IF	CITATIONS
1	Native mass spectrometry-based metabolomics identifies metal-binding compounds. Nature Chemistry, 2022, 14, 100-109.	13.6	30
2	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. Nature Methods, 2022, 19, 134-136.	19.0	35
3	Distinguishing the molecular diversity, nutrient content, and energetic potential of exometabolomes produced by macroalgae and reef-building corals Â. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	28
4	The Sea Spray Chemistry and Particle Evolution study (SeaSCAPE): overview and experimental methods. Environmental Sciences: Processes and Impacts, 2022, 24, 290-315.	3.5	11
5	Assessment of styreneâ€divinylbenzene polymer (PPL) solidâ€phase extraction and nonâ€targeted tandem mass spectrometry for the analysis of xenobiotics in seawater. Limnology and Oceanography: Methods, 2022, 20, 89-101.	2.0	6
6	The Diversity, Metabolomics Profiling, and the Pharmacological Potential of Actinomycetes Isolated from the Estremadura Spur Pockmarks (Portugal). Marine Drugs, 2022, 20, 21.	4.6	8
7	Listeria monocytogenes exposed to antimicrobial peptides displays differential regulation of lipids and proteins associated to stress response. Cellular and Molecular Life Sciences, 2022, 79, 263.	5.4	7
8	Applying Tissue Separation and Untargeted Metabolomics to Understanding Lipid Saturation Kinetics of Host Mitochondria and Symbiotic Algae in Corals Under High Temperature Stress. Frontiers in Marine Science, 2022, 9, .	2.5	1
9	Bacillus subtilis biofilm matrix components target seed oil bodies to promote growth and anti-fungal resistance in melon. Nature Microbiology, 2022, 7, 1001-1015.	13.3	30
10	lsotopic Insights into Organic Composition Differences between Supermicron and Submicron Sea Spray Aerosol. Environmental Science & Technology, 2022, 56, 9947-9958.	10.0	4
11	Mass Difference Matching Unfolds Hidden Molecular Structures of Dissolved Organic Matter. Environmental Science & Technology, 2022, 56, 11027-11040.	10.0	5
12	Organic Matter Composition at Ocean Station Papa Affects Its Bioavailability, Bacterioplankton Growth Efficiency and the Responding Taxa. Frontiers in Marine Science, 2021, 7, .	2.5	17
13	Auto-deconvolution and molecular networking of gas chromatography–mass spectrometry data. Nature Biotechnology, 2021, 39, 169-173.	17.5	78
14	Multiomics Analysis Provides Insight into the Laboratory Evolution of <i>Escherichia coli</i> toward the Metabolic Usage of Fluorinated Indoles. ACS Central Science, 2021, 7, 81-92.	11.3	27
15	Systematic classification of unknown metabolites using high-resolution fragmentation mass spectra. Nature Biotechnology, 2021, 39, 462-471.	17.5	317
16	Convergent evolution of pain-inducing defensive venom components in spitting cobras. Science, 2021, 371, 386-390.	12.6	96
17	A community resource for paired genomic and metabolomic data mining. Nature Chemical Biology, 2021, 17, 363-368.	8.0	81
18	Three-Dimensional Molecular Cartography of the Caribbean Reef-Building Coral Orbicella faveolata. Frontiers in Marine Science, 2021, 8, .	2.5	11

DANIEL PETRAS

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19	Non-targeted tandem mass spectrometry enables the visualization of organic matter chemotype shifts in coastal seawater. Chemosphere, 2021, 271, 129450.	8.2	33
20	A Metabolic Choreography of Maize Plants Treated with a Humic Substance-Based Biostimulant under Normal and Starved Conditions. Metabolites, 2021, 11, 403.	2.9	21
21	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. Nature Communications, 2021, 12, 3832.	12.8	119
22	Chemical interplay and complementary adaptative strategies toggle bacterial antagonism and co-existence. Cell Reports, 2021, 36, 109449.	6.4	28
23	Molecular Commerce on Coral Reefs: Using Metabolomics to Reveal Biochemical Exchanges Underlying Holobiont Biology and the Ecology of Coastal Ecosystems. Frontiers in Marine Science, 2021, 8, .	2.5	12
24	Chemical Gradients of Plant Substrates in an <i>Atta texana</i> Fungus Garden. MSystems, 2021, 6, e0060121.	3.8	2
25	Chemical Proportionality within Molecular Networks. Analytical Chemistry, 2021, 93, 12833-12839.	6.5	22
26	Combined Molecular and Elemental Mass Spectrometry Approaches for Absolute Quantification of Proteomes: Application to the Venomics Characterization of the Two Species of Desert Black Cobras, <i>Walterinnesia aegyptia</i> and <i>Walterinnesia morgani</i> . Journal of Proteome Research, 2021, 20, 5064-5078.	3.7	10
27	Metabolomics and Molecular Networking to Characterize the Chemical Space of Four Momordica Plant Species. Metabolites, 2021, 11, 763.	2.9	23
28	Siderophore-mediated zinc acquisition enhances enterobacterial colonization of the inflamed gut. Nature Communications, 2021, 12, 7016.	12.8	35
29	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. Food Chemistry, 2020, 302, 125290.	8.2	52
30	Mass spectrometry searches using MASST. Nature Biotechnology, 2020, 38, 23-26.	17.5	160
31	Fungal–bacterial interaction selects for quorum sensing mutants with increased production of natural antifungal compounds. Communications Biology, 2020, 3, 670.	4.4	12
32	Database-independent molecular formula annotation using Gibbs sampling through ZODIAC. Nature Machine Intelligence, 2020, 2, 629-641.	16.0	103
33	Feature-based molecular networking in the GNPS analysis environment. Nature Methods, 2020, 17, 905-908.	19.0	650
34	ReDU: a framework to find and reanalyze public mass spectrometry data. Nature Methods, 2020, 17, 901-904.	19.0	79
35	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. Nature Protocols, 2020, 15, 1954-1991.	12.0	344
36	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. Nature Biotechnology, 2019, 37, 852-857.	17.5	11,167

DANIEL PETRAS

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37	The extracellular matrix protects Bacillus subtilis colonies from Pseudomonas invasion and modulates plant co-colonization. Nature Communications, 2019, 10, 1919.	12.8	102
38	Intact protein mass spectrometry reveals intraspecies variations in venom composition of a local population of Vipera kaznakovi in Northeastern Turkey. Journal of Proteomics, 2019, 199, 31-50.	2.4	22
39	Solenodon genome reveals convergent evolution of venom in eulipotyphlan mammals. Proceedings of the United States of America, 2019, 116, 25745-25755.	7.1	42
40	Tundrenone: An Atypical Secondary Metabolite from Bacteria with Highly Restricted Primary Metabolism. Journal of the American Chemical Society, 2018, 140, 2002-2006.	13.7	23
41	Transcriptomics-guided bottom-up and top-down venomics of neonate and adult specimens of the arboreal rear-fanged Brown Treesnake, Boiga irregularis, from Guam. Journal of Proteomics, 2018, 174, 71-84.	2.4	47
42	The medical threat of mamba envenoming in sub-Saharan Africa revealed by genus-wide analysis of venom composition, toxicity and antivenomics profiling of available antivenoms. Journal of Proteomics, 2018, 172, 173-189.	2.4	80
43	Molecular insights into antibiotic resistance - how a binding protein traps albicidin. Nature Communications, 2018, 9, 3095.	12.8	32
44	From single cells to our planet—recent advances in using mass spectrometry for spatially resolved metabolomics. Current Opinion in Chemical Biology, 2017, 36, 24-31.	6.1	75
45	Protein-species quantitative venomics: looking through a crystal ball. Journal of Venomous Animals and Toxins Including Tropical Diseases, 2017, 23, 27.	1.4	26
46	Combined venom profiling and cytotoxicity screening of the Radde's mountain viper (Montivipera) Tj ETQq0 0 0 A549 lung carcinoma cells. Toxicon, 2017, 135, 71-83.	rgBT /Ove 1.6	rlock 10 Tf 50 30
47	Meta-mass shift chemical profiling of metabolomes from coral reefs. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11685-11690.	7.1	57
48	Total Synthesis and Biological Assessment of Novel Albicidins Discovered by Mass Spectrometric Networking. Chemistry - A European Journal, 2017, 23, 15316-15321.	3.3	29
49	Significance estimation for large scale metabolomics annotations by spectral matching. Nature Communications, 2017, 8, 1494.	12.8	128
50	Mass Spectrometry Based Molecular 3D-Cartography of Plant Metabolites. Frontiers in Plant Science, 2017, 8, 429.	3.6	24
51	High-Resolution Liquid Chromatography Tandem Mass Spectrometry Enables Large Scale Molecular Characterization of Dissolved Organic Matter. Frontiers in Marine Science, 2017, 4, .	2.5	94
52	Leader Peptideâ€Free Inâ€Vitro Reconstitution of Microviridin Biosynthesis Enables Design of Synthetic Proteaseâ€Targeted Libraries. Angewandte Chemie, 2016, 128, 9544-9547.	2.0	7
53	Deuterium-Labeled Precursor Feeding Reveals a New <i>p</i> ABA-Containing Meroterpenoid from the Mango Pathogen <i>Xanthomonas citri</i> pv. <i>mangiferaeindicae</i> . Journal of Natural Products, 2016, 79, 1532-1537.	3.0	12
54	Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats. Analytical Chemistry, 2016, 88, 10775-10784.	6.5	44

DANIEL PETRAS

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55	Top-down venomics of the East African green mamba, Dendroaspis angusticeps , and the black mamba, Dendroaspis polylepis , highlight the complexity of their toxin arsenals. Journal of Proteomics, 2016, 146, 148-164.	2.4	60
56	The O-Carbamoyl-Transferase Alb15 Is Responsible for the Modification of Albicidin. ACS Chemical Biology, 2016, 11, 1198-1204.	3.4	20
57	The gyrase inhibitor albicidin consists of p-aminobenzoic acids and cyanoalanine. Nature Chemical Biology, 2015, 11, 195-197.	8.0	126
58	Venom Proteomics of Indonesian King Cobra, <i>Ophiophagus hannah</i> : Integrating Top-Down and Bottom-Up Approaches. Journal of Proteome Research, 2015, 14, 2539-2556.	3.7	90
59	Mass spectrometry guided venom profiling and bioactivity screening of the Anatolian Meadow Viper, Vipera anatolica. Toxicon, 2015, 107, 163-174.	1.6	41
60	Snake Venomics of African Spitting Cobras: Toxin Composition and Assessment of Congeneric Cross-Reactivity of the Pan-African EchiTAb-Plus-ICP Antivenom by Antivenomics and Neutralization Approaches. Journal of Proteome Research, 2011, 10, 1266-1280.	3.7	191