## **Daniel Petras**

List of Publications by Year in descending order

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DANIEL DETDAS

#	Article	IF	CITATIONS
1	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. Nature Biotechnology, 2019, 37, 852-857.	17.5	11,167
2	Feature-based molecular networking in the GNPS analysis environment. Nature Methods, 2020, 17, 905-908.	19.0	650
3	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. Nature Protocols, 2020, 15, 1954-1991.	12.0	344
4	Systematic classification of unknown metabolites using high-resolution fragmentation mass spectra. Nature Biotechnology, 2021, 39, 462-471.	17.5	317
5	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
6	Mass spectrometry searches using MASST. Nature Biotechnology, 2020, 38, 23-26.	17.5	160
7	Significance estimation for large scale metabolomics annotations by spectral matching. Nature Communications, 2017, 8, 1494.	12.8	128
8	The gyrase inhibitor albicidin consists of p-aminobenzoic acids and cyanoalanine. Nature Chemical Biology, 2015, 11, 195-197.	8.0	126
9	lon identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. Nature Communications, 2021, 12, 3832.	12.8	119
10	Database-independent molecular formula annotation using Gibbs sampling through ZODIAC. Nature Machine Intelligence, 2020, 2, 629-641.	16.0	103
11	The extracellular matrix protects Bacillus subtilis colonies from Pseudomonas invasion and modulates plant co-colonization. Nature Communications, 2019, 10, 1919.	12.8	102
12	Convergent evolution of pain-inducing defensive venom components in spitting cobras. Science, 2021, 371, 386-390.	12.6	96
13	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
14	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
15	A community resource for paired genomic and metabolomic data mining. Nature Chemical Biology, 2021, 17, 363-368.	8.0	81
16	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
17	ReDU: a framework to find and reanalyze public mass spectrometry data. Nature Methods, 2020, 17, 901-904.	19.0	79
18	Auto-deconvolution and molecular networking of gas chromatography–mass spectrometry data. Nature Biotechnology, 2021, 39, 169-173.	17.5	78

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19	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
20	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
21	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
22	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. Food Chemistry, 2020, 302, 125290.	8.2	52
23	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
24	Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats. Analytical Chemistry, 2016, 88, 10775-10784.	6.5	44
25	Solenodon genome reveals convergent evolution of venom in eulipotyphlan mammals. Proceedings of the United States of America, 2019, 116, 25745-25755.	7.1	42
26	Mass spectrometry guided venom profiling and bioactivity screening of the Anatolian Meadow Viper, Vipera anatolica. Toxicon, 2015, 107, 163-174.	1.6	41
27	Siderophore-mediated zinc acquisition enhances enterobacterial colonization of the inflamed gut. Nature Communications, 2021, 12, 7016.	12.8	35
28	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. Nature Methods, 2022, 19, 134-136.	19.0	35
29	Non-targeted tandem mass spectrometry enables the visualization of organic matter chemotype shifts in coastal seawater. Chemosphere, 2021, 271, 129450.	8.2	33
30	Molecular insights into antibiotic resistance - how a binding protein traps albicidin. Nature Communications, 2018, 9, 3095.	12.8	32
31	Combined venom profiling and cytotoxicity screening of the Radde's mountain viper (Montivipera) Tj ETQq1 1 0. A549 lung carcinoma cells. Toxicon, 2017, 135, 71-83.	784314 rg 1.6	gBT /Overlock 30
32	Native mass spectrometry-based metabolomics identifies metal-binding compounds. Nature Chemistry, 2022, 14, 100-109.	13.6	30
33	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
34	Total Synthesis and Biological Assessment of Novel Albicidins Discovered by Mass Spectrometric Networking. Chemistry - A European Journal, 2017, 23, 15316-15321.	3.3	29
35	Chemical interplay and complementary adaptative strategies toggle bacterial antagonism and co-existence. Cell Reports, 2021, 36, 109449.	6.4	28
36	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

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37	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
38	Protein-species quantitative venomics: looking through a crystal ball. Journal of Venomous Animals and Toxins Including Tropical Diseases, 2017, 23, 27.	1.4	26
39	Mass Spectrometry Based Molecular 3D-Cartography of Plant Metabolites. Frontiers in Plant Science, 2017, 8, 429.	3.6	24
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	Metabolomics and Molecular Networking to Characterize the Chemical Space of Four Momordica Plant Species. Metabolites, 2021, 11, 763.	2.9	23
42	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
43	Chemical Proportionality within Molecular Networks. Analytical Chemistry, 2021, 93, 12833-12839.	6.5	22
44	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
45	The O-Carbamoyl-Transferase Alb15 Is Responsible for the Modification of Albicidin. ACS Chemical Biology, 2016, 11, 1198-1204.	3.4	20
46	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
47	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
48	Fungal–bacterial interaction selects for quorum sensing mutants with increased production of natural antifungal compounds. Communications Biology, 2020, 3, 670.	4.4	12
49	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
50	Three-Dimensional Molecular Cartography of the Caribbean Reef-Building Coral Orbicella faveolata. Frontiers in Marine Science, 2021, 8, .	2.5	11
51	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
52	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
53	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
54	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

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55	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
56	Assessment of styreneâ€divinylbenzene polymer (PPL) solidâ€phase extraction and nonâ€ŧargeted tandem mass spectrometry for the analysis of xenobiotics in seawater. Limnology and Oceanography: Methods, 2022, 20, 89-101.	2.0	6
57	Mass Difference Matching Unfolds Hidden Molecular Structures of Dissolved Organic Matter. Environmental Science & Technology, 2022, 56, 11027-11040.	10.0	5
58	lsotopic Insights into Organic Composition Differences between Supermicron and Submicron Sea Spray Aerosol. Environmental Science & Technology, 2022, 56, 9947-9958.	10.0	4
59	Chemical Gradients of Plant Substrates in an <i>Atta texana</i> Fungus Garden. MSystems, 2021, 6, e0060121.	3.8	2
60	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