Nadja B Cech

List of Publications by Year
in descending order

101	6,173	76326	74163
papers	citations	40 h-index	75 g-index

103	103	103	6913
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chalcones from Angelica keiskei (ashitaba) inhibit key Zika virus replication proteins. Bioorganic Chemistry, 2022, 120, 105649.	4.1	13
2	Clinical Pharmacokinetic Assessment of Kratom (Mitragyna speciosa), a Botanical Product with Opioid-like Effects, in Healthy Adult Participants. Pharmaceutics, 2022, 14, 620.	4.5	23
3	Polychlorinated cyclopentenes from a marine derived Periconia sp. (strain G1144). Phytochemistry, 2022, 199, 113200.	2.9	2
4	Kratom (Mitragyna speciosa) Validation: Quantitative Analysis of Indole and Oxindole Alkaloids Reveals Chemotypes of Plants and Products. Planta Medica, 2022, 88, 838-857.	1.3	11
5	The Ubiquitous Human Skin Commensal Staphylococcus hominis Protects against Opportunistic Pathogens. MBio, 2022, 13, .	4.1	24
6	A random subset implementation of weighted quantile sum (WQS_{RS}) regression for analysis of high-dimensional mixtures. Communications in Statistics Part B: Simulation and Computation, 2021, 50, 1119-1134.	1.2	36
7	Assessing Transporterâ€Mediated Natural Productâ€Drug Interactions Via In vitroâ€In Vivo Extrapolation: Clinical Evaluation With a Probe Cocktail. Clinical Pharmacology and Therapeutics, 2021, 109, 1342-1352.	4.7	21
8	Bacterial efflux inhibitors are widely distributed in land plants. Journal of Ethnopharmacology, 2021, 267, 113533.	4.1	7
9	Refined Prediction of Pharmacokinetic Kratom-Drug Interactions: Time-Dependent Inhibition Considerations. Journal of Pharmacology and Experimental Therapeutics, 2021, 376, 64-73.	2.5	22
10	Interlaboratory Comparison of Untargeted Mass Spectrometry Data Uncovers Underlying Causes for Variability. Journal of Natural Products, 2021, 84, 824-835.	3.0	30
11	Capturing the antimicrobial profile of Rosmarinus officinalis against methicillin-resistant Staphylococcus aureus (MRSA) with bioassay-guided fractionation and bioinformatics. Journal of Pharmaceutical and Biomedical Analysis, 2021, 197, 113965.	2.8	6
12	More Than Just a Weed: An Exploration of the Antimicrobial Activity of Rumex crispus using a Multivariate Data Analysis Approach. Planta Medica, 2021, , .	1.3	2
13	Benefiting from big data in natural products: importance of preserving foundational skills and prioritizing data quality. Natural Product Reports, 2021, 38, 1947-1953.	10.3	12
14	Composite score analysis for unsupervised comparison and network visualization of metabolomics data. Analytica Chimica Acta, 2020, 1095, 38-47.	5.4	19
15	The Chemistry of Kratom [Mitragyna speciosa]: Updated Characterization Data and Methods to Elucidate Indole and Oxindole Alkaloids. Journal of Natural Products, 2020, 83, 2165-2177.	3.0	61
16	Targeted and untargeted analysis of secondary metabolites to monitor growth and quorum sensing inhibition for methicillin-resistant Staphylococcus aureus (MRSA). Journal of Microbiological Methods, 2020, 176, 106000.	1.6	2
17	Uncovering Bioactive Natural Products Via Biochemometric Methodologies. , 2020, , 271-279.		1
18	Identification of adulteration in botanical samples with untargeted metabolomics. Analytical and Bioanalytical Chemistry, 2020, 412, 4273-4286.	3.7	20

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19	Novel Peptide from Commensal Staphylococcus simulans Blocks Methicillin-Resistant Staphylococcus aureus Quorum Sensing and Protects Host Skin from Damage. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	44
20	Processing, Export, and Identification of Novel Linear Peptides from Staphylococcus aureus. MBio, 2020, 11, .	4.1	7
21	Quantification for non-targeted LC/MS screening without standard substances. Scientific Reports, 2020, 10, 5808.	3.3	80
22	Chemical Evaluation of the Effects of Storage Conditions on the Botanical Goldenseal using Marker-based and Metabolomics Approaches. Yale Journal of Biology and Medicine, 2020, 93, 265-275.	0.2	2
23	Simplify: A Mass Spectrometry Metabolomics Approach to Identify Additives and Synergists from Complex Mixtures. Analytical Chemistry, 2019, 91, 11297-11305.	6.5	10
24	A Symposium to Honor Four Long-Time Contributors to the Journal of Natural Products. Journal of Natural Products, 2019, 82, 2931-2932.	3.0	1
25	Mycopyranone: A 8,8Ëˆ-binaphthopyranone with potent anti-MRSA activity from the fungus Phialemoniopsis sp.. Tetrahedron Letters, 2019, 60, 594-597.	1.4	7
26	Selection and characterization of botanical natural products for research studies: a NaPDI center recommended approach. Natural Product Reports, 2019, 36, 1196-1221.	10.3	72
27	Synergy and antagonism in natural product extracts: when 1 + 1 does not equal 2. Natural Product Reports, 2019, 36, 869-888.	10.3	415
28	Quorum sensing between bacterial species on the skin protects against epidermal injury in atopic dermatitis. Science Translational Medicine, 2019, 11, .	12.4	185
29	MroQ Is a Novel Abi-Domain Protein That Influences Virulence Gene Expression in Staphylococcus aureus via Modulation of Agr Activity. Infection and Immunity, 2019, 87, .	2.2	20
30	Opportunities and Limitations for Untargeted Mass Spectrometry Metabolomics to Identify Biologically Active Constituents in Complex Natural Product Mixtures. Journal of Natural Products, 2019, 82, 469-484.	3.0	62
31	Apicidin Attenuates MRSA Virulence through Quorum-Sensing Inhibition and Enhanced Host Defense. Cell Reports, 2019, 27, 187-198.e6.	6.4	54
32	Prenylated Diresorcinols Inhibit Bacterial Quorum Sensing. Journal of Natural Products, 2019, 82, 550-558.	3.0	23
33	Mapping the Fungal Battlefield: Using in situ Chemistry and Deletion Mutants to Monitor Interspecific Chemical Interactions Between Fungi. Frontiers in Microbiology, 2019, 10, 285.	3.5	35
34	EpichloÃ« endophytes of Poa alsodes employ alternative mechanisms for host defense: insecticidal versus deterrence. Arthropod-Plant Interactions, 2019, 13, 79-90.	1.1	4
35	Identification of Intestinal UDP-Glucuronosyltransferase Inhibitors in Green Tea (Camellia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T In Vivo Extrapolation. Drug Metabolism and Disposition, 2018, 46, 552-560.	3.3	22
36	Hierarchical cluster analysis of technical replicates to identify interferents in untargeted mass spectrometry metabolomics. Analytica Chimica Acta, 2018, 1021, 69-77.	5.4	58

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37	Integration of Biochemometrics and Molecular Networking to Identify Antimicrobials in Angelica keiskei. Planta Medica, 2018, 84, 721-728.	1.3	36
38	Mast cell degranulation and calcium influx are inhibited by an Echinacea purpurea extract and the alkylamide dodeca-2E,4E-dienoic acid isobutylamide. Journal of Ethnopharmacology, 2018, 212, 166-174.	4.1	34
39	Biochemometrics to Identify Synergists and Additives from Botanical Medicines: A Case Study withHydrastis canadensis(Goldenseal). Journal of Natural Products, 2018, 81, 484-493.	3.0	56
40	Phytochemical Analysis and Antimicrobial Efficacy of Macleaya cordata against Extensively Drug-Resistant Staphylococcus aureus. Natural Product Communications, 2018, 13, 1934578X1801301.	0.5	12
41	Analytical methods for the study of bioactive compounds from medicinally used Echinacea species. Journal of Pharmaceutical and Biomedical Analysis, 2018, 160, 443-477.	2.8	35
42	Detection of adulteration in Hydrastis canadensis (goldenseal) dietary supplements via untargeted mass spectrometry-based metabolomics. Food and Chemical Toxicology, 2018, 120, 439-447.	3.6	22
43	Secondary metabolites from the leaves of the medicinal plant goldenseal (Hydrastis canadensis). Phytochemistry Letters, 2017, 20, 54-60.	1.2	29
44	Comparison of Metabolomics Approaches for Evaluating the Variability of Complex Botanical Preparations: Green Tea (Camellia sinensis) as a Case Study. Journal of Natural Products, 2017, 80, 1457-1466.	3.0	53
45	Signal Biosynthesis Inhibition with Ambuic Acid as a Strategy To Target Antibiotic-Resistant Infections. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	52
46	qNMR for profiling the production of fungal secondary metabolites. Magnetic Resonance in Chemistry, 2017, 55, 670-676.	1.9	7
47	Conventional and accelerated-solvent extractions of green tea (camellia sinensis) for metabolomics-based chemometrics. Journal of Pharmaceutical and Biomedical Analysis, 2017, 145, 604-610.	2.8	30
48	Coagulase-Negative Staphylococcal Strain Prevents Staphylococcus aureus Colonization and Skin Infection by Blocking Quorum Sensing. Cell Host and Microbe, 2017, 22, 746-756.e5.	11.0	165
49	Interspecific and intraspecific hybridEpichloÃ«species symbiotic with the North American native grassPoa alsodes. Mycologia, 2017, 109, 459-474.	1.9	30
50	Secondary Metabolites from Fungal Endophytes of Echinacea purpurea Suppress Cytokine Secretion by Macrophage-Type Cells. Natural Product Communications, 2016, 11, 1934578X1601100.	0.5	1
51	Hybrid Quadrupole-Orbitrap mass spectrometry for quantitative measurement of quorum sensing inhibition. Journal of Microbiological Methods, 2016, 127, 89-94.	1.6	17
52	A validated UHPLC-tandem mass spectrometry method for quantitative analysis of flavonolignans in milk thistle (Silybum marianum) extracts. Journal of Pharmaceutical and Biomedical Analysis, 2016, 126, 26-33.	2.8	29
53	Antimicrobial fungal endophytes from the botanical medicine goldenseal (Hydrastis canadensis). Phytochemistry Letters, 2016, 17, 219-225.	1.2	21
54	A Review of the Medicinal Uses and Pharmacology of Ashitaba. Planta Medica, 2016, 82, 1236-1245.	1.3	28

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55	Biochemometrics for Natural Products Research: Comparison of Data Analysis Approaches and Application to Identification of Bioactive Compounds. Journal of Natural Products, 2016, 79, 376-386.	3.0	122
56	Comparison of electrospray ionization and atmospheric pressure photoionization liquid chromatography mass spectrometry methods for analysis of ergot alkaloids from endophyte-infected sleepygrass (Achnatherum robustum). Journal of Pharmaceutical and Biomedical Analysis, 2016, 117, 11-17.	2.8	21
57	Secondary Metabolites from Fungal Endophytes of Suppress Cytokine Secretion by Macrophage-Type Cells. Natural Product Communications, 2016, 11, 1143-1146.	0.5	4
58	A Mass Spectrometry-Based Assay for Improved Quantitative Measurements of Efflux Pump Inhibition. PLoS ONE, 2015, 10, e0124814.	2.5	53
59	Alkaloid Variation Among Epichloid Endophytes of Sleepygrass (Achnatherum robustum) and Consequences for Resistance to Insect Herbivores. Journal of Chemical Ecology, 2015, 41, 93-104.	1.8	46
60	Comparison of the chemistry and diversity of endophytes isolated from wild-harvested and greenhouse-cultivated yerba mansa (Anemopsis californica). Phytochemistry Letters, 2015, 11, 202-208.	1.2	12
61	Ï‰-Hydroxyemodin Limits Staphylococcus aureus Quorum Sensing-Mediated Pathogenesis and Inflammation. Antimicrobial Agents and Chemotherapy, 2015, 59, 2223-2235.	3.2	110
62	Phylogenetic and chemical diversity of fungal endophytes isolated fromSilybum marianum(L) Gaertn. (milk thistle). Mycology, 2015, 6, 8-27.	4.4	29
63	Cytokine-Suppressive Activity of a Hydroxylated Alkylamide from Echinacea purpurea. Planta Medica Letters, 2015, 2, e25-e27.	0.2	5
64	A new mass spectrometry based bioassay for the direct assessment of hyaluronidase activity and inhibition. Journal of Microbiological Methods, 2015, 119, 163-167.	1.6	3
65	Ethanolic Echinacea purpurea Extracts Contain a Mixture of Cytokine-Suppressive and Cytokine-Inducing Compounds, Including Some That Originate from Endophytic Bacteria. PLoS ONE, 2015, 10, e0124276.	2.5	53
66	Antimycobacterial Furofuran Lignans from the Roots of Anemopsis californica. Planta Medica, 2014, 80, 498-501.	1.3	14
67	Investigations of Analyte-Specific Response Saturation and Dynamic Range Limitations in Atmospheric Pressure Ionization Mass Spectrometry. Analytical Chemistry, 2014, 86, 10639-10645.	6.5	10
68	Staphylococcus epidermidis agr Quorum-Sensing System: Signal Identification, Cross Talk, and Importance in Colonization. Journal of Bacteriology, 2014, 196, 3482-3493.	2.2	101
69	CodY-Mediated Regulation of the Staphylococcus aureus Agr System Integrates Nutritional and Population Density Signals. Journal of Bacteriology, 2014, 196, 1184-1196.	2.2	71
70	Flavonolignans from Aspergillus iizukae, a Fungal Endophyte of Milk Thistle (Silybum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	3.0	83
71	Polyhydroxyanthraquinones as Quorum Sensing Inhibitors from the Guttates of Penicillium restrictum and Their Analysis by Desorption Electrospray Ionization Mass Spectrometry. Journal of Natural Products, 2014, 77, 1351-1358.	3.0	122
72	High-Resolution MS, MS/MS, and UV Database of Fungal Secondary Metabolites as a Dereplication Protocol for Bioactive Natural Products. Journal of Natural Products, 2013, 76, 1709-1716.	3.0	160

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73	Small-molecule quorum quenchers to prevent Staphylococcus aureus infection. Future Microbiology, 2013, 8, 1511-1514.	2.0	22
74	Quantitative analysis of autoinducing peptide I (AIP-I) from Staphylococcus aureus cultures using ultrahigh performance liquid chromatographyâ€“high resolving power mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 930, 7-12.	2.3	28
75	Sarothrin from Alkanna orientalis Is an Antimicrobial Agent and Efflux Pump Inhibitor. Planta Medica, 2013, 79, 327-329.	1.3	36
76	Rapid Quantitation of Furanocoumarins and Flavonoids in Grapefruit Juice using Ultraâ€Performance Liquid Chromatography. Phytochemical Analysis, 2013, 24, 654-660.	2.4	21
77	Quorum Quenching and Antimicrobial Activity of Goldenseal (Hydrastis canadensis) against Methicillin-Resistant Staphylococcus aureus (MRSA). Planta Medica, 2012, 78, 1556-1561.	1.3	48
78	Maplexins, new Î±-glucosidase inhibitors from red maple (Acer rubrum) stems. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 597-600.	2.2	61
79	Synergy-Directed Fractionation of Botanical Medicines: A Case Study with Goldenseal (Hydrastis) Tj ETQq1 1 0.784314 rgBT /Over	3.0	124
80	Phenolic Glycosides from Sugar Maple (Acer saccharum) Bark. Journal of Natural Products, 2011, 74, 2472-2476.	3.0	39
81	Inhibition of H1N1 influenza A virus growth and induction of inflammatory mediators by the isoquinoline alkaloid berberine and extracts of goldenseal (Hydrastis canadensis). International Immunopharmacology, 2011, 11, 1706-1714.	3.8	66
82	The antiplasmodium effects of a traditional South American remedy: Zanthoxylum chiloperone var. angustifolium against chloroquine resistant and chloroquine sensitive strains of Plasmodium falciparum. Revista Brasileira De Farmacognosia, 2011, 21, 652-661.	1.4	18
83	Goldenseal (Hydrastis canadensisL.) Extracts Synergistically Enhance the Antibacterial Activity of Berberine via Efflux Pump Inhibition. Planta Medica, 2011, 77, 835-840.	1.3	74
84	A validated liquid chromatographyâ€“electrospray ionizationâ€“mass spectrometry method for quantification of spilanthol in Spilanthes acmella (L.) Murr.. Phytochemical Analysis, 2010, 21, 438-443.	2.4	43
85	Echinacea and its alkylamides: Effects on the influenza A-induced secretion of cytokines, chemokines, and PGE2 from RAW 264.7 macrophage-like cells. International Immunopharmacology, 2010, 10, 1268-1278.	3.8	47
86	Echinacea purpurea extracts modulate murine dendritic cell fate and function. Food and Chemical Toxicology, 2010, 48, 1170-1177.	3.6	38
87	Comparison of alkylamide yield in ethanolic extracts prepared from fresh versus dry Echinacea purpurea utilizing HPLCâ€“ESI-MS. Journal of Pharmaceutical and Biomedical Analysis, 2009, 49, 1141-1149.	2.8	48
88	Role for PPARÎ³ in IL-2 inhibition in T cells by Echinacea-derived undeca-2E-ene-8,10-diynoic acid isobutylamide. International Immunopharmacology, 2009, 9, 1260-1264.	3.8	29
89	Relative importance of basicity in the gas phase and in solution for determining selectivity in electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2008, 19, 719-728.	2.8	83
90	Effects of herbal products and their constituents on human cytochrome P4502E1 activity. Food and Chemical Toxicology, 2007, 45, 2359-2365.	3.6	36

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91	Temperature-sensitive anthocyanin production in flowers of Plantago lanceolata. Physiologia Plantarum, 2007, 129, 756-765.	5.2	57
92	Echinacea alkylamides inhibit interleukin-2 production by Jurkat T cells. International Immunopharmacology, 2006, 6, 1214-1221.	3.8	55
93	High performance liquid chromatography/electrospray ionization mass spectrometry for simultaneous analysis of alkamides and caffeic acid derivatives from Echinacea purpurea extracts. Journal of Chromatography A, 2006, 1103, 219-228.	3.7	72
94	Liver Enzyme-Mediated Oxidation of Echinacea purpurea Alkylamides: Production of Novel Metabolites and Changes in Immunomodulatory Activity. Planta Medica, 2006, 72, 1372-1377.	1.3	29
95	The relative influences of acidity and polarity on responsiveness of small organic molecules to analysis with negative ion electrospray ionization mass spectrometry (ESI-MS). Journal of the American Society for Mass Spectrometry, 2005, 16, 446-455.	2.8	138
96	Effect of Affinity for Droplet Surfaces on the Fraction of Analyte Molecules Charged during Electrospray Droplet Fission. Analytical Chemistry, 2001, 73, 4632-4639.	6.5	89
97	Predicting Electrospray Response from Chromatographic Retention Time. Analytical Chemistry, 2001, 73, 208-213.	6.5	130
98	Electrospray ionization detection of inherently nonresponsive epoxides by peptide binding. Rapid Communications in Mass Spectrometry, 2001, 15, 1040-1044.	1.5	13
99	Practical implications of some recent studies in electrospray ionization fundamentals. Mass Spectrometry Reviews, 2001, 20, 362-387.	5.4	1,148
100	Importance of gas-phase proton affinities in determining the electrospray ionization response for analytes and solvents. Journal of Mass Spectrometry, 2000, 35, 784-789.	1.6	179
101	Relating Electrospray Ionization Response to Nonpolar Character of Small Peptides. Analytical Chemistry, 2000, 72, 2717-2723.	6.5	306