

Nadja B Cech

List of Publications by Year in descending order

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101
papers

6,173
citations

76326

40
h-index

74163

75
g-index

103
all docs

103
docs citations

103
times ranked

6913
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical implications of some recent studies in electrospray ionization fundamentals. <i>Mass Spectrometry Reviews</i> , 2001, 20, 362-387.	5.4	1,148
2	Synergy and antagonism in natural product extracts: when 1 + 1 does not equal 2. <i>Natural Product Reports</i> , 2019, 36, 869-888.	10.3	415
3	Relating Electrospray Ionization Response to Nonpolar Character of Small Peptides. <i>Analytical Chemistry</i> , 2000, 72, 2717-2723.	6.5	306
4	Quorum sensing between bacterial species on the skin protects against epidermal injury in atopic dermatitis. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	185
5	Importance of gas-phase proton affinities in determining the electrospray ionization response for analytes and solvents. <i>Journal of Mass Spectrometry</i> , 2000, 35, 784-789.	1.6	179
6	Coagulase-Negative Staphylococcal Strain Prevents <i>Staphylococcus aureus</i> Colonization and Skin Infection by Blocking Quorum Sensing. <i>Cell Host and Microbe</i> , 2017, 22, 746-756.e5.	11.0	165
7	High-Resolution MS, MS/MS, and UV Database of Fungal Secondary Metabolites as a Dereplication Protocol for Bioactive Natural Products. <i>Journal of Natural Products</i> , 2013, 76, 1709-1716.	3.0	160
8	The relative influences of acidity and polarity on responsiveness of small organic molecules to analysis with negative ion electrospray ionization mass spectrometry (ESI-MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 446-455.	2.8	138
9	Predicting Electrospray Response from Chromatographic Retention Time. <i>Analytical Chemistry</i> , 2001, 73, 208-213.	6.5	130
10	Synergy-Directed Fractionation of Botanical Medicines: A Case Study with Goldenseal (<i>Hydrastis</i>)	3.0	124
11	Polyhydroxyanthraquinones as Quorum Sensing Inhibitors from the Guttates of <i>Penicillium restrictum</i> and Their Analysis by Desorption Electrospray Ionization Mass Spectrometry. <i>Journal of Natural Products</i> , 2014, 77, 1351-1358.	3.0	122
12	Biochemometrics for Natural Products Research: Comparison of Data Analysis Approaches and Application to Identification of Bioactive Compounds. <i>Journal of Natural Products</i> , 2016, 79, 376-386.	3.0	122
13	7-Hydroxyemodin Limits <i>Staphylococcus aureus</i> Quorum Sensing-Mediated Pathogenesis and Inflammation. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 2223-2235.	3.2	110
14	<i>Staphylococcus epidermidis</i> Quorum-Sensing System: Signal Identification, Cross Talk, and Importance in Colonization. <i>Journal of Bacteriology</i> , 2014, 196, 3482-3493.	2.2	101
15	Effect of Affinity for Droplet Surfaces on the Fraction of Analyte Molecules Charged during Electrospray Droplet Fission. <i>Analytical Chemistry</i> , 2001, 73, 4632-4639.	6.5	89
16	Relative importance of basicity in the gas phase and in solution for determining selectivity in electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 719-728.	2.8	83
17	Flavonolignans from <i>Aspergillus iizukae</i> , a Fungal Endophyte of Milk Thistle (<i>Silybum</i>)	3.0	83
18	Quantification for non-targeted LC/MS screening without standard substances. <i>Scientific Reports</i> , 2020, 10, 5808.	3.3	80

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19	Goldenseal (<i>Hydrastis canadensis</i> L.) Extracts Synergistically Enhance the Antibacterial Activity of Berberine via Efflux Pump Inhibition. <i>Planta Medica</i> , 2011, 77, 835-840.	1.3	74
20	High performance liquid chromatography/electrospray ionization mass spectrometry for simultaneous analysis of alkaloids and caffeic acid derivatives from <i>Echinacea purpurea</i> extracts. <i>Journal of Chromatography A</i> , 2006, 1103, 219-228.	3.7	72
21	Selection and characterization of botanical natural products for research studies: a NaPDI center recommended approach. <i>Natural Product Reports</i> , 2019, 36, 1196-1221.	10.3	72
22	CodY-Mediated Regulation of the <i>Staphylococcus aureus</i> Agr System Integrates Nutritional and Population Density Signals. <i>Journal of Bacteriology</i> , 2014, 196, 1184-1196.	2.2	71
23	Inhibition of H1N1 influenza A virus growth and induction of inflammatory mediators by the isoquinoline alkaloid berberine and extracts of goldenseal (<i>Hydrastis canadensis</i>). <i>International Immunopharmacology</i> , 2011, 11, 1706-1714.	3.8	66
24	Opportunities and Limitations for Untargeted Mass Spectrometry Metabolomics to Identify Biologically Active Constituents in Complex Natural Product Mixtures. <i>Journal of Natural Products</i> , 2019, 82, 469-484.	3.0	62
25	Maplexins, new β -glucosidase inhibitors from red maple (<i>Acer rubrum</i>) stems. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 597-600.	2.2	61
26	The Chemistry of Kratom [<i>Mitragyna speciosa</i>]: Updated Characterization Data and Methods to Elucidate Indole and Oxindole Alkaloids. <i>Journal of Natural Products</i> , 2020, 83, 2165-2177.	3.0	61
27	Hierarchical cluster analysis of technical replicates to identify interferences in untargeted mass spectrometry metabolomics. <i>Analytica Chimica Acta</i> , 2018, 1021, 69-77.	5.4	58
28	Temperature-sensitive anthocyanin production in flowers of <i>Plantago lanceolata</i> . <i>Physiologia Plantarum</i> , 2007, 129, 756-765.	5.2	57
29	Biochemometrics to Identify Synergists and Additives from Botanical Medicines: A Case Study with <i>Hydrastis canadensis</i> (Goldenseal). <i>Journal of Natural Products</i> , 2018, 81, 484-493.	3.0	56
30	<i>Echinacea</i> alkaloids inhibit interleukin-2 production by Jurkat T cells. <i>International Immunopharmacology</i> , 2006, 6, 1214-1221.	3.8	55
31	Apicidin Attenuates MRSA Virulence through Quorum-Sensing Inhibition and Enhanced Host Defense. <i>Cell Reports</i> , 2019, 27, 187-198.e6.	6.4	54
32	A Mass Spectrometry-Based Assay for Improved Quantitative Measurements of Efflux Pump Inhibition. <i>PLoS ONE</i> , 2015, 10, e0124814.	2.5	53
33	Comparison of Metabolomics Approaches for Evaluating the Variability of Complex Botanical Preparations: Green Tea (<i>Camellia sinensis</i>) as a Case Study. <i>Journal of Natural Products</i> , 2017, 80, 1457-1466.	3.0	53
34	Ethanollic <i>Echinacea purpurea</i> Extracts Contain a Mixture of Cytokine-Suppressive and Cytokine-Inducing Compounds, Including Some That Originate from Endophytic Bacteria. <i>PLoS ONE</i> , 2015, 10, e0124276.	2.5	53
35	Signal Biosynthesis Inhibition with Ambuic Acid as a Strategy To Target Antibiotic-Resistant Infections. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	52
36	Comparison of alkaloid yield in ethanolic extracts prepared from fresh versus dry <i>Echinacea purpurea</i> utilizing HPLC-ESI-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 1141-1149.	2.8	48

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37	Quorum Quenching and Antimicrobial Activity of Goldenseal (<i>Hydrastis canadensis</i>) against Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA). <i>Planta Medica</i> , 2012, 78, 1556-1561.	1.3	48
38	Echinacea and its alkylamides: Effects on the influenza A-induced secretion of cytokines, chemokines, and PGE2 from RAW 264.7 macrophage-like cells. <i>International Immunopharmacology</i> , 2010, 10, 1268-1278.	3.8	47
39	Alkaloid Variation Among Epichloid Endophytes of Sleepygrass (<i>Achnatherum robustum</i>) and Consequences for Resistance to Insect Herbivores. <i>Journal of Chemical Ecology</i> , 2015, 41, 93-104.	1.8	46
40	Novel Peptide from Commensal <i>Staphylococcus simulans</i> Blocks Methicillin-Resistant <i>Staphylococcus aureus</i> Quorum Sensing and Protects Host Skin from Damage. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	44
41	A validated liquid chromatography–electrospray ionization–mass spectrometry method for quantification of spilanthol in <i>Spilanthes acmella</i> (L.) Murr.. <i>Phytochemical Analysis</i> , 2010, 21, 438-443.	2.4	43
42	Phenolic Glycosides from Sugar Maple (<i>Acer saccharum</i>) Bark. <i>Journal of Natural Products</i> , 2011, 74, 2472-2476.	3.0	39
43	Echinacea purpurea extracts modulate murine dendritic cell fate and function. <i>Food and Chemical Toxicology</i> , 2010, 48, 1170-1177.	3.6	38
44	Effects of herbal products and their constituents on human cytochrome P4502E1 activity. <i>Food and Chemical Toxicology</i> , 2007, 45, 2359-2365.	3.6	36
45	Sarothrin from <i>Alkanna orientalis</i> Is an Antimicrobial Agent and Efflux Pump Inhibitor. <i>Planta Medica</i> , 2013, 79, 327-329.	1.3	36
46	Integration of Biochemometrics and Molecular Networking to Identify Antimicrobials in <i>Angelica keiskei</i> . <i>Planta Medica</i> , 2018, 84, 721-728.	1.3	36
47	A random subset implementation of weighted quantile sum (WQS _{RS}) regression for analysis of high-dimensional mixtures. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2021, 50, 1119-1134.	1.2	36
48	Analytical methods for the study of bioactive compounds from medicinally used Echinacea species. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 160, 443-477.	2.8	35
49	Mapping the Fungal Battlefield: Using in situ Chemistry and Deletion Mutants to Monitor Interspecific Chemical Interactions Between Fungi. <i>Frontiers in Microbiology</i> , 2019, 10, 285.	3.5	35
50	Mast cell degranulation and calcium influx are inhibited by an Echinacea purpurea extract and the alkylamide dodeca-2E,4E-dienoic acid isobutylamide. <i>Journal of Ethnopharmacology</i> , 2018, 212, 166-174.	4.1	34
51	Conventional and accelerated-solvent extractions of green tea (<i>Camellia sinensis</i>) for metabolomics-based chemometrics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 145, 604-610.	2.8	30
52	Interspecific and intraspecific hybrid <i>Epichloa</i> species symbiotic with the North American native grass <i>Poa alsodes</i> . <i>Mycologia</i> , 2017, 109, 459-474.	1.9	30
53	Interlaboratory Comparison of Untargeted Mass Spectrometry Data Uncovers Underlying Causes for Variability. <i>Journal of Natural Products</i> , 2021, 84, 824-835.	3.0	30
54	Liver Enzyme-Mediated Oxidation of Echinacea purpurea Alkylamides: Production of Novel Metabolites and Changes in Immunomodulatory Activity. <i>Planta Medica</i> , 2006, 72, 1372-1377.	1.3	29

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55	Role for PPAR β in IL-2 inhibition in T cells by Echinacea-derived undeca-2E-ene-8,10-dienoic acid isobutylamide. <i>International Immunopharmacology</i> , 2009, 9, 1260-1264.	3.8	29
56	Phylogenetic and chemical diversity of fungal endophytes isolated from <i>Silybum marianum</i> (L) Gaertn. (milk thistle). <i>Mycology</i> , 2015, 6, 8-27.	4.4	29
57	A validated UHPLC-tandem mass spectrometry method for quantitative analysis of flavonolignans in milk thistle (<i>Silybum marianum</i>) extracts. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 126, 26-33.	2.8	29
58	Secondary metabolites from the leaves of the medicinal plant goldenseal (<i>Hydrastis canadensis</i>). <i>Phytochemistry Letters</i> , 2017, 20, 54-60.	1.2	29
59	Quantitative analysis of autoinducing peptide I (AIP-I) from <i>Staphylococcus aureus</i> cultures using ultrahigh performance liquid chromatography-high resolving power mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 930, 7-12.	2.3	28
60	A Review of the Medicinal Uses and Pharmacology of Ashitaba. <i>Planta Medica</i> , 2016, 82, 1236-1245.	1.3	28
61	The Ubiquitous Human Skin Commensal <i>Staphylococcus hominis</i> Protects against Opportunistic Pathogens. <i>MBio</i> , 2022, 13, .	4.1	24
62	Prenylated Diorescinols Inhibit Bacterial Quorum Sensing. <i>Journal of Natural Products</i> , 2019, 82, 550-558.	3.0	23
63	Clinical Pharmacokinetic Assessment of Kratom (<i>Mitragyna speciosa</i>), a Botanical Product with Opioid-like Effects, in Healthy Adult Participants. <i>Pharmaceutics</i> , 2022, 14, 620.	4.5	23
64	Small-molecule quorum quenchers to prevent <i>Staphylococcus aureus</i> infection. <i>Future Microbiology</i> , 2013, 8, 1511-1514.	2.0	22
65	Identification of Intestinal UDP-Glucuronosyltransferase Inhibitors in Green Tea (<i>Camellia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 In Vivo Extrapolation. <i>Drug Metabolism and Disposition</i> , 2018, 46, 552-560.	3.3	22
66	Detection of adulteration in <i>Hydrastis canadensis</i> (goldenseal) dietary supplements via untargeted mass spectrometry-based metabolomics. <i>Food and Chemical Toxicology</i> , 2018, 120, 439-447.	3.6	22
67	Refined Prediction of Pharmacokinetic Kratom-Drug Interactions: Time-Dependent Inhibition Considerations. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 376, 64-73.	2.5	22
68	Rapid Quantitation of Furanocoumarins and Flavonoids in Grapefruit Juice using Ultra-Performance Liquid Chromatography. <i>Phytochemical Analysis</i> , 2013, 24, 654-660.	2.4	21
69	Antimicrobial fungal endophytes from the botanical medicine goldenseal (<i>Hydrastis canadensis</i>). <i>Phytochemistry Letters</i> , 2016, 17, 219-225.	1.2	21
70	Comparison of electrospray ionization and atmospheric pressure photoionization liquid chromatography mass spectrometry methods for analysis of ergot alkaloids from endophyte-infected sleepygrass (<i>Achnatherum robustum</i>). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 117, 11-17.	2.8	21
71	Assessing Transporter-Mediated Natural Product-Drug Interactions Via <i>In vitro</i> - <i>In Vivo</i> Extrapolation: Clinical Evaluation With a Probe Cocktail. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 109, 1342-1352.	4.7	21
72	MroQ Is a Novel Abi-Domain Protein That Influences Virulence Gene Expression in <i>Staphylococcus aureus</i> via Modulation of Agr Activity. <i>Infection and Immunity</i> , 2019, 87, .	2.2	20

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73	Identification of adulteration in botanical samples with untargeted metabolomics. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4273-4286.	3.7	20
74	Composite score analysis for unsupervised comparison and network visualization of metabolomics data. <i>Analytica Chimica Acta</i> , 2020, 1095, 38-47.	5.4	19
75	The antiplasmodium effects of a traditional South American remedy: <i>Zanthoxylum chiloperone</i> var. <i>angustifolium</i> against chloroquine resistant and chloroquine sensitive strains of <i>Plasmodium falciparum</i> . <i>Revista Brasileira De Farmacognosia</i> , 2011, 21, 652-661.	1.4	18
76	Hybrid Quadrupole-Orbitrap mass spectrometry for quantitative measurement of quorum sensing inhibition. <i>Journal of Microbiological Methods</i> , 2016, 127, 89-94.	1.6	17
77	Antimycobacterial Furofuran Lignans from the Roots of <i>Anemopsis californica</i> . <i>Planta Medica</i> , 2014, 80, 498-501.	1.3	14
78	Electrospray ionization detection of inherently nonresponsive epoxides by peptide binding. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1040-1044.	1.5	13
79	Chalcones from <i>Angelica keiskei</i> (ashitaba) inhibit key Zika virus replication proteins. <i>Bioorganic Chemistry</i> , 2022, 120, 105649.	4.1	13
80	Comparison of the chemistry and diversity of endophytes isolated from wild-harvested and greenhouse-cultivated yerba mansa (<i>Anemopsis californica</i>). <i>Phytochemistry Letters</i> , 2015, 11, 202-208.	1.2	12
81	Phytochemical Analysis and Antimicrobial Efficacy of <i>Macleaya cordata</i> against Extensively Drug-Resistant <i>Staphylococcus aureus</i> . <i>Natural Product Communications</i> , 2018, 13, 1934578X1801301.	0.5	12
82	Benefiting from big data in natural products: importance of preserving foundational skills and prioritizing data quality. <i>Natural Product Reports</i> , 2021, 38, 1947-1953.	10.3	12
83	Kratom (<i>Mitragyna speciosa</i>) Validation: Quantitative Analysis of Indole and Oxindole Alkaloids Reveals Chemotypes of Plants and Products. <i>Planta Medica</i> , 2022, 88, 838-857.	1.3	11
84	Investigations of Analyte-Specific Response Saturation and Dynamic Range Limitations in Atmospheric Pressure Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 10639-10645.	6.5	10
85	Simplify: A Mass Spectrometry Metabolomics Approach to Identify Additives and Synergists from Complex Mixtures. <i>Analytical Chemistry</i> , 2019, 91, 11297-11305.	6.5	10
86	qNMR for profiling the production of fungal secondary metabolites. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 670-676.	1.9	7
87	Mycopyrone: A 8,8- <i>binaphthopyranone</i> with potent anti-MRSA activity from the fungus <i>Phialemoniopsis</i> sp.. <i>Tetrahedron Letters</i> , 2019, 60, 594-597.	1.4	7
88	Processing, Export, and Identification of Novel Linear Peptides from <i>Staphylococcus aureus</i> . <i>MBio</i> , 2020, 11, .	4.1	7
89	Bacterial efflux inhibitors are widely distributed in land plants. <i>Journal of Ethnopharmacology</i> , 2021, 267, 113533.	4.1	7
90	Capturing the antimicrobial profile of <i>Rosmarinus officinalis</i> against methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) with bioassay-guided fractionation and bioinformatics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 197, 113965.	2.8	6

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91	Cytokine-Suppressive Activity of a Hydroxylated Alkylamide from <i>Echinacea purpurea</i> . <i>Planta Medica Letters</i> , 2015, 2, e25-e27.	0.2	5
92	<i>Epichloa</i> endophytes of <i>Poa alsodes</i> employ alternative mechanisms for host defense: insecticidal versus deterrence. <i>Arthropod-Plant Interactions</i> , 2019, 13, 79-90.	1.1	4
93	Secondary Metabolites from Fungal Endophytes of Suppress Cytokine Secretion by Macrophage-Type Cells. <i>Natural Product Communications</i> , 2016, 11, 1143-1146.	0.5	4
94	A new mass spectrometry based bioassay for the direct assessment of hyaluronidase activity and inhibition. <i>Journal of Microbiological Methods</i> , 2015, 119, 163-167.	1.6	3
95	Targeted and untargeted analysis of secondary metabolites to monitor growth and quorum sensing inhibition for methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). <i>Journal of Microbiological Methods</i> , 2020, 176, 106000.	1.6	2
96	More Than Just a Weed: An Exploration of the Antimicrobial Activity of <i>Rumex crispus</i> using a Multivariate Data Analysis Approach. <i>Planta Medica</i> , 2021, , .	1.3	2
97	Chemical Evaluation of the Effects of Storage Conditions on the Botanical Goldenseal using Marker-based and Metabolomics Approaches. <i>Yale Journal of Biology and Medicine</i> , 2020, 93, 265-275.	0.2	2
98	Polychlorinated cyclopentenenes from a marine derived <i>Periconia</i> sp. (strain G1144). <i>Phytochemistry</i> , 2022, 199, 113200.	2.9	2
99	Secondary Metabolites from Fungal Endophytes of <i>Echinacea purpurea</i> Suppress Cytokine Secretion by Macrophage-Type Cells. <i>Natural Product Communications</i> , 2016, 11, 1934578X1601100.	0.5	1
100	A Symposium to Honor Four Long-Time Contributors to the <i>Journal of Natural Products</i> . <i>Journal of Natural Products</i> , 2019, 82, 2931-2932.	3.0	1
101	Uncovering Bioactive Natural Products Via Biochemometric Methodologies. , 2020, , 271-279.		1