

# Neha Garg

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

7,707  
citations

201674

27  
h-index

182427

51  
g-index

58  
all docs

58  
docs citations

58  
times ranked

10693  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	17.5	2,802
2	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	8.0	715
3	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020, 17, 905-908.	19.0	650
4	Microbiome-wide association studies link dynamic microbial consortia to disease. <i>Nature</i> , 2016, 535, 94-103.	27.8	595
5	Specialized Metabolites from the Microbiome in Health and Disease. <i>Cell Metabolism</i> , 2014, 20, 719-730.	16.2	454
6	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020, 579, 123-129.	27.8	316
7	The Intestinal Metabolome: An Intersection Between Microbiota and Host. <i>Gastroenterology</i> , 2014, 146, 1470-1476.	1.3	227
8	Dereplication of peptidic natural products through database search of mass spectra. <i>Nature Chemical Biology</i> , 2017, 13, 30-37.	8.0	184
9	Mass spectrometry of natural products: current, emerging and future technologies. <i>Natural Product Reports</i> , 2014, 31, 718.	10.3	165
10	Production of Lantipeptides in <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2011, 133, 2338-2341.	13.7	161
11	Lantibiotics from <i>Geobacillus thermodenitrificans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5241-5246.	7.1	129
12	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. <i>Cell Host and Microbe</i> , 2017, 22, 705-716.e4.	11.0	111
13	In vitro activity of the nisin dehydratase NisB. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7258-7263.	7.1	104
14	Mass spectral similarity for untargeted metabolomics data analysis of complex mixtures. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 719-727.	1.5	90
15	Microbial, host and xenobiotic diversity in the cystic fibrosis sputum metabolome. <i>ISME Journal</i> , 2016, 10, 1483-1498.	9.8	88
16	A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , 2021, 17, 363-368.	8.0	81
17	Two Flavoenzymes Catalyze the Post-Translational Generation of 5-Chlorotryptophan and 2-Aminovinyl-Cysteine during NAI-107 Biosynthesis. <i>ACS Chemical Biology</i> , 2017, 12, 548-557.	3.4	64
18	Natural products as mediators of disease. <i>Natural Product Reports</i> , 2017, 34, 194-219.	10.3	59

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19	Multi-omics Analysis of Periodontal Pocket Microbial Communities Pre- and Posttreatment. <i>MSystems</i> , 2017, 2, .	3.8	47
20	Cloning, sequence analysis, expression of <i>Cyathus bulleri</i> laccase in <i>Pichia pastoris</i> and characterization of recombinant laccase. <i>BMC Biotechnology</i> , 2012, 12, 75.	3.3	45
21	Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats. <i>Analytical Chemistry</i> , 2016, 88, 10775-10784.	6.5	44
22	Spatial Molecular Architecture of the Microbial Community of a <i>Peltigera</i> Lichen. <i>MSystems</i> , 2016, 1, .	3.8	36
23	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. <i>Nature Methods</i> , 2022, 19, 134-136.	19.0	35
24	Substrate Specificity of the Lanthipeptide Peptidase ElxP and the Oxidoreductase ElxO. <i>ACS Chemical Biology</i> , 2014, 9, 1718-1725.	3.4	34
25	Creating a 3D microbial and chemical snapshot of a human habitat. <i>Scientific Reports</i> , 2018, 8, 3669.	3.3	34
26	LanCLs add glutathione to dehydroamino acids generated at phosphorylated sites in the proteome. <i>Cell</i> , 2021, 184, 2680-2695.e26.	28.9	34
27	Chemoenzymatic Synthesis of Acyl Coenzyme A Substrates Enables <i>in Situ</i> Labeling of Small Molecules and Proteins. <i>Organic Letters</i> , 2015, 17, 4452-4455.	4.6	33
28	Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae. <i>ELife</i> , 2017, 6, .	6.0	33
29	Metabolic Fingerprints from the Human Oral Microbiome Reveal a Vast Knowledge Gap of Secreted Small Peptidic Molecules. <i>MSystems</i> , 2017, 2, .	3.8	30
30	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. <i>MSystems</i> , 2019, 4, .	3.8	23
31	Mode of action and structure-activity relationship studies of geobacillin I. <i>Journal of Antibiotics</i> , 2014, 67, 133-136.	2.0	22
32	An Obligate Peptidyl Brominase Underlies the Discovery of Highly Distributed Biosynthetic Gene Clusters in Marine Sponge Microbiomes. <i>Journal of the American Chemical Society</i> , 2021, 143, 10221-10231.	13.7	22
33	Multi-Omic Profiling of <i>Melophlus</i> Sponges Reveals Diverse Metabolomic and Microbiome Architectures that Are Non-overlapping with Ecological Neighbors. <i>Marine Drugs</i> , 2020, 18, 124.	4.6	21
34	Mass Spectrometry-Based Integration and Expansion of the Chemical Diversity Harbored Within a Marine Sponge. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1373-1384.	2.8	18
35	Presence of Bromotyrosine Alkaloids in Marine Sponges Is Independent of Metabolomic and Microbiome Architectures. <i>MSystems</i> , 2021, 6, .	3.8	18
36	Differences in Cystic Fibrosis-Associated <i>Burkholderia</i> spp. Bacteria Metabolomes after Exposure to the Antibiotic Trimethoprim. <i>ACS Infectious Diseases</i> , 2020, 6, 1154-1168.	3.8	14

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37	Metabolomics Approaches to Dereplicate Natural Products from Coral-Derived Bioactive Bacteria. <i>Journal of Natural Products</i> , 2022, 85, 462-478.	3.0	14
38	A Silent Biosynthetic Gene Cluster from a Methanotrophic Bacterium Potentiates Discovery of a Substrate Promiscuous Proteusin Cyclodehydratase. <i>ACS Chemical Biology</i> , 2022, 17, 1577-1585.	3.4	14
39	Chemical Rescue and Inhibition Studies to Determine the Role of Arg301 in Phosphite Dehydrogenase. <i>PLoS ONE</i> , 2014, 9, e87134.	2.5	12
40	Metabolomics of Healthy and Stony Coral Tissue Loss Disease Affected <i>Montastraea cavernosa</i> Corals. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	12
41	Characterization of the stereochemical configuration of lanthionines formed by the lanthipeptide synthetase <i>G</i> . <i>Biopolymers</i> , 2016, 106, 834-842.	2.4	11
42	Precursor-Guided Mining of Marine Sponge Metabolomes Lends Insight into Biosynthesis of Pyrrole-Imidazole Alkaloids. <i>ACS Chemical Biology</i> , 2020, 15, 2185-2194.	3.4	9
43	Enzymatic Synthesis Assisted Discovery of Proline-Rich Macrocyclic Peptides in Marine Sponges. <i>ChemBioChem</i> , 2021, 22, 2614-2618.	2.6	9
44	Metabolomic profiling of <i>Burkholderia cenocepacia</i> in synthetic cystic fibrosis sputum medium reveals nutrient environment-specific production of virulence factors. <i>Scientific Reports</i> , 2021, 11, 21419.	3.3	9
45	Structural and mechanistic investigations of protein S-glycosyltransferases. <i>Cell Chemical Biology</i> , 2021, 28, 1740-1749.e6.	5.2	8
46	Metabolomics in Functional Interrogation of Individual Holobiont Members. <i>MSystems</i> , 2021, 6, e0084121.	3.8	7
47	The role of algal chemical defenses in the feeding preferences of the long-spined sea urchin <i>Diadema antillarum</i> . <i>Aquatic Ecology</i> , 2021, 55, 941-953.	1.5	4
48	Chemoenzymatic Synthesis of Starting Materials and Characterization of Halogenases Requiring Acyl Carrier Protein-Tethered Substrates. <i>Methods in Enzymology</i> , 2018, 604, 333-366.	1.0	3
49	Metabolomics Analysis of Bacterial Pathogen <i>Burkholderia thailandensis</i> and Mammalian Host Cells in Co-culture. <i>ACS Infectious Diseases</i> , 2022, 8, 1646-1662.	3.8	3
50	Stereochemical Assignment and Absolute Abundance of Nonproteinogenic Amino Acid Homoarginine in Marine Sponges. <i>ACS Omega</i> , 2021, 6, 33200-33205.	3.5	2
51	Molecular networking-based strategies in mass spectrometry coupled with in silico dereplication of peptidic natural products and gene cluster analysis. <i>Methods in Enzymology</i> , 2022, 663, 273-302.	1.0	1
52	The chemical topology of a bacterial swarm. <i>Journal of Biological Chemistry</i> , 2018, 293, 9553-9554.	3.4	0
53	Three Dimensional Cartography of Microbiome and Metabolome Data onto Radiological Images of the Human Lung. <i>SSRN Electronic Journal</i> , 0, .	0.4	0