Neha Garg

List of Publications by Year
in descending order

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53 papers	7,707 citations	201575 27 h-index	182361 51 g-index
58 all docs	58 docs citations	58 times ranked	10693 citing authors

#	Article	IF	Citations
1	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. Nature Methods, 2022, 19, 134-136.	9.0	35
2	Molecular networking-based strategies in mass spectrometry coupled with in silico dereplication of peptidic natural products and gene cluster analysis. Methods in Enzymology, 2022, 663, 273-302.	0.4	1
3	Metabolomics Approaches to Dereplicate Natural Products from Coral-Derived Bioactive Bacteria. Journal of Natural Products, 2022, 85, 462-478.	1.5	14
4	A Silent Biosynthetic Gene Cluster from a Methanotrophic Bacterium Potentiates Discovery of a Substrate Promiscuous Proteusin Cyclodehydratase. ACS Chemical Biology, 2022, 17, 1577-1585.	1.6	14
5	Metabolomics Analysis of Bacterial Pathogen Burkholderia thailandensis and Mammalian Host Cells in Co-culture. ACS Infectious Diseases, 2022, 8, 1646-1662.	1.8	3
6	A community resource for paired genomic and metabolomic data mining. Nature Chemical Biology, 2021, 17, 363-368.	3.9	81
7	Presence of Bromotyrosine Alkaloids in Marine Sponges Is Independent of Metabolomic and Microbiome Architectures. MSystems, 2021, 6, .	1.7	18
8	LanCLs add glutathione to dehydroamino acids generated at phosphorylated sites in the proteome. Cell, 2021, 184, 2680-2695.e26.	13.5	34
9	The role of algal chemical defenses in the feeding preferences of the long-spined sea urchin Diadema antillarum. Aquatic Ecology, 2021, 55, 941-953.	0.7	4
10	Structural and mechanistic investigations of protein S-glycosyltransferases. Cell Chemical Biology, 2021, 28, 1740-1749.e6.	2.5	8
11	Enzymatic Synthesis Assisted Discovery of Prolineâ€Rich Macrocyclic Peptides in Marine Sponges. ChemBioChem, 2021, 22, 2614-2618.	1.3	9
12	An Obligate Peptidyl Brominase Underlies the Discovery of Highly Distributed Biosynthetic Gene Clusters in Marine Sponge Microbiomes. Journal of the American Chemical Society, 2021, 143, 10221-10231.	6.6	22
13	Metabolomics in Functional Interrogation of Individual Holobiont Members. MSystems, 2021, 6, e0084121.	1.7	7
14	Metabolomics of Healthy and Stony Coral Tissue Loss Disease Affected Montastraea cavernosa Corals. Frontiers in Marine Science, 2021, 8, .	1.2	12
15	Metabolomic profiling of Burkholderia cenocepacia in synthetic cystic fibrosis sputum medium reveals nutrient environment-specific production of virulence factors. Scientific Reports, 2021, 11, 21419.	1.6	9
16	Stereochemical Assignment and Absolute Abundance of Nonproteinogenic Amino Acid Homoarginine in Marine Sponges. ACS Omega, 2021, 6, 33200-33205.	1.6	2
17	Precursor-Guided Mining of Marine Sponge Metabolomes Lends Insight into Biosynthesis of Pyroleâ€“Imidazole Alkaloids. ACS Chemical Biology, 2020, 15, 2185-2194.	1.6	9
18	Feature-based molecular networking in the GNPS analysis environment. Nature Methods, 2020, 17, 905-908.	9.0	650

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19	Differences in Cystic Fibrosis-Associated Burkholderia spp. Bacteria Metabolomes after Exposure to the Antibiotic Trimethoprim. ACS Infectious Diseases, 2020, 6, 1154-1168.	1.8	14
20	Multi-Omic Profiling of Melophlus Sponges Reveals Diverse Metabolomic and Microbiome Architectures that Are Non-overlapping with Ecological Neighbors. Marine Drugs, 2020, 18, 124.	2.2	21
21	Global chemical effects of the microbiome include new bile-acid conjugations. Nature, 2020, 579, 123-129.	13.7	316
22	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. MSystems, 2019, 4, .	1.7	23
23	Mass Spectrometry-Based Integration and Expansion of the Chemical Diversity Harbored Within a Marine Sponge. Journal of the American Society for Mass Spectrometry, 2019, 30, 1373-1384.	1.2	18
24	Creating a 3D microbial and chemical snapshot of a human habitat. Scientific Reports, 2018, 8, 3669.	1.6	34
25	Chemoenzymatic Synthesis of Starting Materials and Characterization of Halogenases Requiring Acyl Carrier Protein-Tethered Substrates. Methods in Enzymology, 2018, 604, 333-366.	0.4	3
26	The chemical topology of a bacterial swarm. Journal of Biological Chemistry, 2018, 293, 9553-9554.	1.6	0
27	Two Flavoenzymes Catalyze the Post-Translational Generation of 5-Chlorotryptophan and 2-Aminovinyl-Cysteine during NAI-107 Biosynthesis. ACS Chemical Biology, 2017, 12, 548-557.	1.6	64
28	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. Cell Host and Microbe, 2017, 22, 705-716.e4.	5.1	111
29	Multi-omics Analysis of Periodontal Pocket Microbial Communities Pre- and Posttreatment. MSystems, 2017, 2, .	1.7	47
30	Metabolic Fingerprints from the Human Oral Microbiome Reveal a Vast Knowledge Gap of Secreted Small Peptidic Molecules. MSystems, 2017, 2, .	1.7	30
31	Dereplication of peptidic natural products through database search of mass spectra. Nature Chemical Biology, 2017, 13, 30-37.	3.9	184
32	Natural products as mediators of disease. Natural Product Reports, 2017, 34, 194-219.	5.2	59
33	Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae. ELife, 2017, 6, .	2.8	33
34	Characterization of the stereochemical configuration of lanthionines formed by the lanthipeptide synthetase <scp>G</scp>eo<scp>M</scp>. Biopolymers, 2016, 106, 834-842.	1.2	11
35	Microbiome-wide association studies link dynamic microbial consortia to disease. Nature, 2016, 535, 94-103.	13.7	595
36	Spatial Molecular Architecture of the Microbial Community of a Peltigera Lichen. MSystems, 2016, 1, .	1.7	36

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37	Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats. Analytical Chemistry, 2016, 88, 10775-10784.	3.2	44
38	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. Nature Biotechnology, 2016, 34, 828-837.	9.4	2,802
39	Microbial, host and xenobiotic diversity in the cystic fibrosis sputum metabolome. ISME Journal, 2016, 10, 1483-1498.	4.4	88
40	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	3.9	715
41	Chemoenzymatic Synthesis of Acyl Coenzyme A Substrates Enables in Situ Labeling of Small Molecules and Proteins. Organic Letters, 2015, 17, 4452-4455.	2.4	33
42	Mass spectral similarity for untargeted metabolomics data analysis of complex mixtures. International Journal of Mass Spectrometry, 2015, 377, 719-727.	0.7	90
43	Chemical Rescue and Inhibition Studies to Determine the Role of Arg301 in Phosphite Dehydrogenase. PLoS ONE, 2014, 9, e87134.	1.1	12
44	Mode of action and structureâ€“activity relationship studies of geobacillin I. Journal of Antibiotics, 2014, 67, 133-136.	1.0	22
45	The Intestinal Metabolome: An Intersection Between Microbiota and Host. Gastroenterology, 2014, 146, 1470-1476.	0.6	227
46	Mass spectrometry of natural products: current, emerging and future technologies. Natural Product Reports, 2014, 31, 718.	5.2	165
47	Specialized Metabolites from the Microbiome in Health and Disease. Cell Metabolism, 2014, 20, 719-730.	7.2	454
48	Substrate Specificity of the Lanthipeptide Peptidase ElxP and the Oxidoreductase ElxO. ACS Chemical Biology, 2014, 9, 1718-1725.	1.6	34
49	In vitro activity of the nisin dehydratase NisB. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7258-7263.	3.3	104
50	Cloning, sequence analysis, expression of Cyathus bulleri laccase in Pichia pastoris and characterization of recombinant laccase. BMC Biotechnology, 2012, 12, 75.	1.7	45
51	Lantibiotics from Geobacillus thermodenitrificans. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5241-5246.	3.3	129
52	Production of Lantipeptides in Escherichia coli. Journal of the American Chemical Society, 2011, 133, 2338-2341.	6.6	161
53	Three Dimensional Cartography of Microbiome and Metabolome Data onto Radiological Images of the Human Lung. SSRN Electronic Journal, 0, , .	0.4	0