Michiko E Taga

List of Publications by Year
in descending order

41 papers	4,301 citations	279798 23 h-index	276875 41 g-index
49 all docs	49 docs citations	49 times ranked	4483 citing authors

#	Article	IF	Citations
1	How rhizobial symbionts invade plants: the Sinorhizobiumâ€“Medicago model. Nature Reviews Microbiology, 2007, 5, 619-633.	28.6	781
2	Salmonella typhimurium Recognizes a Chemically Distinct Form of the Bacterial Quorum-Sensing Signal AI-2. Molecular Cell, 2004, 15, 677-687.	9.7	502
3	Vitamin B 12 as a Modulator of Gut Microbial Ecology. Cell Metabolism, 2014, 20, 769-778.	16.2	356
4	The LuxS-dependent autoinducer AI-2 controls the expression of an ABC transporter that functions in AI-2 uptake in Salmonella typhimurium. Molecular Microbiology, 2008, 42, 777-793.	2.5	319
5	Lsrâ€mediated transport and processing of Alâ€2 in Salmonella typhimurium. Molecular Microbiology, 2003, 50, 1411-1427.	2.5	278
6	Nutrient cross-feeding in the microbial world. Frontiers in Microbiology, 2014, 5, 350.	3.5	261
7	Human Gut Microbes Use Multiple Transporters to Distinguish Vitamin B12 Analogs and Compete in the Gut. Cell Host and Microbe, 2014, 15, 47-57.	11.0	225
8	Uneven distribution of cobamide biosynthesis and dependence in bacteria predicted by comparative genomics. ISME Journal, 2019, 13, 789-804.	9.8	162
9	BluB cannibalizes flavin to form the lower ligand of vitamin B12. Nature, 2007, 446, 449-453.	27.8	160
10	Versatility in Corrinoid Salvaging and Remodeling Pathways Supports Corrinoid-Dependent Metabolism in Dehalococcoides mccartyi. Applied and Environmental Microbiology, 2012, 78, 7745-7752.	3.1	116
11	Sharing vitamins: Cobamides unveil microbial interactions. Science, 2020, 369, .	12.6	112
12	Sinorhizobium meliloti bluB is necessary for production of 5,6-dimethylbenzimidazole, the lower ligand of B12. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4634-4639.	7.1	91
13	Anaerobic biosynthesis of the lower ligand of vitamin B ₁₂. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10792-10797.	7.1	91
14	Sinorhizobium meliloti, a bacterium lacking the autoinducerâ€2 (Alâ€2) synthase, responds to Alâ€2 supplied by other bacteria. Molecular Microbiology, 2008, 70, 1223-1235.	2.5	77
15	Decoding molecular interactions in microbial communities. FEMS Microbiology Reviews, 2016, 40, 648-663.	8.6	71
16	Cobamide Structure Depends on Both Lower Ligand Availability and CobT Substrate Specificity. Chemistry and Biology, 2013, 20, 1265-1274.	6.0	66
17	Sustainable Growth of Dehalococcoides mccartyi 195 by Corrinoid Salvaging and Remodeling in Defined Lactate-Fermenting Consortia. Applied and Environmental Microbiology, 2014, 80, 2133-2141.	3.1	63
18	Identification of specific corrinoids reveals corrinoid modification in dechlorinating microbial communities. Environmental Microbiology, 2015, 17, 4873-4884.	3.8	57

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19	Sinorhizobium meliloti Requires a Cobalamin-Dependent Ribonucleotide Reductase for Symbiosis With Its Plant Host. Molecular Plant-Microbe Interactions, 2010, 23, 1643-1654.	2.6	54
20	Growth Inhibition of Sporomusa ovata by Incorporation of Benzimidazole Bases into Cobamides. Journal of Bacteriology, 2013, 195, 1902-1911.	2.2	53
21	Methods for Analysis of Bacterial Autoinducerâ€2 Production. Current Protocols in Microbiology, 2011, 23, Unit1C.1.	6.5	51
22	Analysis of Substrate Specificity in CobT Homologs Reveals Widespread Preference for DMB, the Lower Axial Ligand of Vitamin B12. Chemistry and Biology, 2013, 20, 1275-1285.	6.0	48
23	<scp>S</scp>inorhizobium frediiâ€¦<scp>HH</scp>103 bacteroids are not terminally differentiated and show altered <scp>O</scp>â€antigen in nodules of the Inverted Repeatâ€Lacking Clade legume <scp>G</scp>lycyrrhiza uralensis. Environmental Microbiology, 2016, 18, 2392-2404.	3.8	34
24	Anaerobic 5-Hydroxybenzimidazole Formation from Aminoimidazole Ribotide: An Unanticipated Intersection of Thiamin and Vitamin B₁₂ Biosynthesis. Journal of the American Chemical Society, 2015, 137, 10444-10447.	13.7	27
25	Cofactor Selectivity in Methylmalonyl Coenzyme A Mutase, a Model Cobamide-Dependent Enzyme. MBio, 2019, 10, .	4.1	27
26	Soil Candidate Phyla Radiation Bacteria Encode Components of Aerobic Metabolism and Co-occur with Nanoarchaea in the Rare Biosphere of Rhizosphere Grassland Communities. MSystems, 2021, 6, e0120520.	3.8	24
27	Pseudo-B ₁₂ Joins the Cofactor Family. Journal of Bacteriology, 2008, 190, 1157-1159.	2.2	20
28	A bioassay for the detection of benzimidazoles reveals their presence in a range of environmental samples. Frontiers in Microbiology, 2014, 5, 592.	3.5	19
29	Regiospecific Formation of Cobamide Isomers Is Directed by CobT. Biochemistry, 2014, 53, 7805-7815.	2.5	19
30	Identification of a Novel Cobamide Remodeling Enzyme in the Beneficial Human Gut Bacterium Akkermansia muciniphila. MBio, 2020, 11, .	4.1	18
31	Emergence of Metabolite Provisioning as a By-Product of Evolved Biological Functions. MSystems, 2020, 5, .	3.8	15
32	Bacterial Signal Destruction. ACS Chemical Biology, 2007, 2, 89-92.	3.4	14
33	Multi-faceted approaches to discovering and predicting microbial nutritional interactions. Current Opinion in Biotechnology, 2020, 62, 58-64.	6.6	14
34	Naturally occurring cobalamin (B12) analogs can function as cofactors for human methylmalonyl-CoA mutase. Biochimie, 2021, 183, 35-43.	2.6	14
35	Flexible Cobamide Metabolism in Clostridioides (Clostridium) difficile 630 Î” erm. Journal of Bacteriology, 2020, 202, .	2.2	13
36	Active site residues critical for flavin binding and 5,6â€dimethylbenzimidazole biosynthesis in the flavin destructase enzyme BluB. Protein Science, 2012, 21, 839-849.	7.6	11

#	Article	IF	Citations
37	Cobamides. Current Biology, 2020, 30, R55-R56.	3.9	9
38	Purification and detection of vitamin B12 analogs. Methods in Enzymology, 2022, 668, 61-85.	1.0	8
39	Unique Biochemical and Sequence Features Enable BluB To Destroy Flavin and Distinguish BluB from the Flavin Monooxygenase Superfamily. Biochemistry, 2018, 57, 1748-1757.	2.5	5
40	HM2-phage resistant solventogenic Clostridium saccharoperbutylacetonicum N1-4 shows increased exopolysaccharide production. FEMS Microbiology Letters, 2017, 364, .	1.8	4
41	Taking the â€œMeâ€•out of meat: A new demethylation pathway dismantles a toxin's precursor. Journal of Biological Chemistry, 2020, 295, 11982-11983.	3.4	1