Masafumi Yoshinaga

List of Publications by Year
in descending order

24 papers	1,070 citations	687363 13 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	958 citing authors

#	Article	IF	Citations
1	Earth Abides Arsenic Biotransformations. Annual Review of Earth and Planetary Sciences, 2014, 42, 443-467.	11.0	423
2	A Câ‹…As lyase for degradation of environmental organoarsenical herbicides and animal husbandry growth promoters. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7701-7706.	7.1	116
3	Demethylation of methylarsonic acid by a microbial community. Environmental Microbiology, 2011, 13, 1205-1215.	3.8	112
4	Synergistic interaction of glyceraldehydesâ€3â€phosphate dehydrogenase and ArsJ, a novel organoarsenical efflux permease, confers arsenate resistance. Molecular Microbiology, 2016, 100, 945-953.	2.5	90
5	The antibiotic action of methylarsenite is an emergent property of microbial communities. Molecular Microbiology, 2019, 111, 487-494.	2.5	59
6	Arsenic in medicine: past, present and future. BioMetals, 2023, 36, 283-301.	4.1	39
7	Arsinothricin, an arsenic-containing non-proteinogenic amino acid analog of glutamate, is a broad-spectrum antibiotic. Communications Biology, 2019, 2, 131.	4.4	32
8	Antimicrobial Activity of Metals and Metalloids. Annual Review of Microbiology, 2021, 75, 175-197.	7.3	32
9	Hepatic ZIP8 deficiency is associated with disrupted selenium homeostasis, liver pathology, and tumor formation. American Journal of Physiology - Renal Physiology, 2018, 315, G569-G579.	3.4	20
10	The enigma of environmental organoarsenicals: Insights and implications. Critical Reviews in Environmental Science and Technology, 2022, 52, 3835-3862.	12.8	20
11	Biochemical Characterization of ArsI: A Novel Câ€“As Lyase for Degradation of Environmental Organoarsenicals. Environmental Science & Technology, 2017, 51, 11115-11125.	10.0	19
12	Structure of the ArsI Câ€“As Lyase: Insights into the Mechanism of Degradation of Organoarsenical Herbicides and Growth Promoters. Journal of Molecular Biology, 2016, 428, 2462-2473.	4.2	17
13	Reduction of Organoarsenical Herbicides and Antimicrobial Growth Promoters by the Legume Symbiont Sinorhizobium meliloti. Environmental Science & Technology, 2019, 53, 13648-13656.	10.0	17
14	Identification of the Biosynthetic Gene Cluster for the Organoarsenical Antibiotic Arsinothricin. Microbiology Spectrum, 2021, 9, e0050221.	3.0	14
15	Crystallization and preliminary X-ray crystallographic studies of the ArsI Câ€“As lyase fromThermomonospora curvata. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 761-764.	0.8	11
16	Semisynthesis of the Organoarsenical Antibiotic Arsinothricin. Journal of Natural Products, 2020, 83, 2809-2813.	3.0	10
17	Directed Evolution of Saccharomyces cerevisiae for Increased Selenium Accumulation. Microorganisms, 2018, 6, 81.	3.6	9
18	Removal of As(III) from Water Using the Adsorptive and Photocatalytic Properties of Humic Acid-Coated Magnetite Nanoparticles. Nanomaterials, 2020, 10, 1604.	4.1	8

#	Article	IF	Citations
19	Organoarsenicals inhibit bacterial peptidoglycan biosynthesis by targeting the essential enzyme MurA. Chemosphere, 2020, 254, 126911.	8.2	7
20	Selenite Inhibits Notch Signaling in Cells and Mice. International Journal of Molecular Sciences, 2021, 22, 2518.	4.1	5
21	The ArsI C-As lyase: Elucidating the catalytic mechanism of degradation of organoarsenicals. Journal of Inorganic Biochemistry, 2022, 232, 111836.	3.5	5
22	An <scp>ArsRC</scp> fusion protein enhances arsenate sensing and detoxification. Environmental Microbiology, 2022, 24, 1977-1987.	3.8	3
23	Draft Genome Sequence of Burkholderia sp. MR1, a Methylarsenate-Reducing Bacterial Isolate from Florida Golf Course Soil. Genome Announcements, 2015, 3, .	0.8	2
24	Chemical synthesis of the organoarsenical antibiotic arsinothricin. RSC Advances, 2021, 11, 35600-35606.	3.6	0