

Genes and Enzymes Involved in Bacterial Oxidation and

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Citation Report

#	ARTICLE	IF	CITATIONS
2	On the energetics of chemolithotrophy in nonequilibrium systems: case studies of geothermal springs in Yellowstone National Park. <i>Geobiology</i> , 2005, 3, 297-317.	2.4	94
3	A bacterial view of the periodic table: genes and proteins for toxic inorganic ions. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005, 32, 587-605.	3.0	398
5	Characteristics and adaptability of iron- and sulfur-oxidizing microorganisms used for the recovery of metals from minerals and their concentrates. <i>Microbial Cell Factories</i> , 2005, 4, 13.	4.0	354
6	Environmental Microbes Can Speciate and Cycle Arsenic. <i>Environmental Science & Technology</i> , 2005, 39, 9569-9573.	10.0	86
7	Microbial Transformations of Arsenic in the Environment: From Soda Lakes to Aquifers. <i>Elements</i> , 2006, 2, 85-90.	0.5	148
8	Arsenic and Selenium in Microbial Metabolism. <i>Annual Review of Microbiology</i> , 2006, 60, 107-130.	7.3	573
9	Contrasting Effects of Dissimilatory Iron(III) and Arsenic(V) Reduction on Arsenic Retention and Transport. <i>Environmental Science & Technology</i> , 2006, 40, 6715-6721.	10.0	227
10	Identification of genes and proteins involved in the pleiotropic response to arsenic stress in <i>Caenibacter arsenoxydans</i> , a metalloresistant beta-proteobacterium with an unsequenced genome. <i>Biochimie</i> , 2006, 88, 595-606.	2.6	39
11	Arsenate Reduction: Thiol Cascade Chemistry with Convergent Evolution. <i>Journal of Molecular Biology</i> , 2006, 362, 1-17.	4.2	137
12	Anaerobic arsenite oxidation by novel denitrifying isolates. <i>Environmental Microbiology</i> , 2006, 8, 899-908.	3.8	172
13	A Na ⁺ :H ⁺ Antiporter and a Molybdate Transporter Are Essential for Arsenite Oxidation in <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2006, 188, 1577-1584.	2.2	42
14	<i>Herminiimonas arsenicoxydans</i> sp. nov., a metalloresistant bacterium. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 1765-1769.	1.7	83
15	Complete Genome Sequence of the Dehalorespiring Bacterium <i>Desulfitobacterium hafniense</i> Y51 and Comparison with <i>Dehalococcoides ethenogenes</i> 195. <i>Journal of Bacteriology</i> , 2006, 188, 2262-2274.	2.2	137
16	Complex Regulation of Arsenite Oxidation in <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2006, 188, 1081-1088.	2.2	151
17	<i>Alkalimnicola ehrlichii</i> sp. nov., a novel, arsenite-oxidizing haloalkaliphilic gammaproteobacterium capable of chemoautotrophic or heterotrophic growth with nitrate or oxygen as the electron acceptor. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007, 57, 504-512.	1.7	226
18	Biogenic formation of photoactive arsenic-sulfide nanotubes by <i>Shewanella</i> sp. strain HN-41. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20410-20415.	7.1	127
19	New Insights into Microbial Oxidation of Antimony and Arsenic. <i>Applied and Environmental Microbiology</i> , 2007, 73, 2386-2389.	3.1	91
20	Probing the biogeochemistry of arsenic: Response of two contrasting aquifer sediments from Cambodia to stimulation by arsenate and ferric iron. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 1763-1774.	1.7	27

#	ARTICLE	IF	CITATIONS
21	A Tale of Two Oxidation States: Bacterial Colonization of Arsenic-Rich Environments. PLoS Genetics, 2007, 3, e53.	3.5	166
22	Biogenic Mineral Production by a Novel Arsenic-Metabolizing Thermophilic Bacterium from the Alvord Basin, Oregon. Applied and Environmental Microbiology, 2007, 73, 5928-5936.	3.1	40
23	Enzymatic and genomic studies on the reduction of mercury and selected metallic oxyanions by sulphate-reducing bacteria. , 2007, , 435-458.		10
24	Diversity of arsenite transporter genes from arsenic-resistant soil bacteria. Research in Microbiology, 2007, 158, 128-137.	2.1	240
25	Mechanisms of arsenite elimination by Thiomonas sp. isolated from CarnoulÃ's acid mine drainage. European Journal of Soil Biology, 2007, 43, 351-355.	3.2	9
26	The arsenite oxidase genes (aroAB) in novel chemoautotrophic arsenite oxidizers. Biochemical and Biophysical Research Communications, 2007, 354, 662-667.	2.1	108
27	The Bacterial Response to the Chalcogen Metalloids Se and Te. Advances in Microbial Physiology, 2007, 53, 1-312.	2.4	152
28	SUPRAMOLECULAR ARSENIC COORDINATION CHEMISTRY. Comments on Inorganic Chemistry, 2007, 28, 97-122.	5.2	30
29	Characterization of the activity of heavy metal-responsive promoters in the cyanobacterium <i>Synechocystis</i> PCC 6803. Acta Biologica Hungarica, 2007, 58, 11-22.	0.7	30
30	Detection, diversity and expression of aerobic bacterial arsenite oxidase genes. Environmental Microbiology, 2007, 9, 934-943.	3.8	190
31	Arsenite oxidation by a chemoautotrophic moderately acidophilic <i>Thiomonas</i> sp.: from the strain isolation to the gene study. Environmental Microbiology, 2008, 10, 228-237.	3.8	103
32	Antimony in the environment: A review focused on natural waters. III. Microbiota relevant interactions. Earth-Science Reviews, 2007, 80, 195-217.	9.1	214
33	Biofilms of As(III)-oxidising bacteria: formation and activity studies for bioremediation process development. Applied Microbiology and Biotechnology, 2007, 77, 457-467.	3.6	48
34	A rapid colony screening method for the detection of arsenate-reducing bacteria. Indian Journal of Microbiology, 2007, 47, 167-169.	2.7	1
35	The ars genotype characterization of arsenic-resistant bacteria from arsenic-contaminated gold-silver mines in the Republic of Korea. Applied Microbiology and Biotechnology, 2008, 80, 155-165.	3.6	67
36	Biologically mediated mobilization of arsenic from granular ferric hydroxide in anaerobic columns fed landfill leachate. Biotechnology and Bioengineering, 2008, 101, 1205-1213.	3.3	10
37	Transformation of Inorganic and Organic Arsenic by <i>Alkaliphilus oremlandii</i> sp. nov. Strain OhLAs. Annals of the New York Academy of Sciences, 2008, 1125, 230-241.	3.8	90
38	Quorum sensing in metal tolerance of <i>Acinetobacter junii</i> BB1A is associated with biofilm production. FEMS Microbiology Letters, 2008, 282, 160-165.	1.8	58

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39	Sedimentary arsenite-oxidizing and arsenate-reducing bacteria associated with high arsenic groundwater from Shanyin, Northwestern China. <i>Journal of Applied Microbiology</i> , 2008, 105, 529-539.	3.1	161
40	Enzyme phylogenies as markers for the oxidation state of the environment: The case of respiratory arsenate reductase and related enzymes. <i>BMC Evolutionary Biology</i> , 2008, 8, 206.	3.2	97
41	Biogeochemical cyclic activity of bacterial <i>arsB</i> in arsenic-contaminated mines. <i>Journal of Environmental Sciences</i> , 2008, 20, 1348-1355.	6.1	12
42	Molecular and cultivation-dependent analysis of metal-reducing bacteria implicated in arsenic mobilisation in south-east asian aquifers. <i>Applied Geochemistry</i> , 2008, 23, 3215-3223.	3.0	58
43	Anoxic oxidation of arsenite linked to denitrification in sludges and sediments. <i>Water Research</i> , 2008, 42, 4569-4577.	11.3	46
44	Biotransformation of arsenic species by activated sludge and removal of bio-oxidised arsenate from wastewater by coagulation with ferric chloride. <i>Water Research</i> , 2008, 42, 4809-4817.	11.3	63
45	Bacteria, hypertolerant to arsenic in the rocks of an ancient gold mine, and their potential role in dissemination of arsenic pollution. <i>Environmental Pollution</i> , 2008, 156, 1069-1074.	7.5	111
46	Arsenite and Arsenate Metabolism of <i>Sinorhizobium</i> sp. M14 Living in the Extreme Environment of the Zloty Stok Gold Mine. <i>Geomicrobiology Journal</i> , 2008, 25, 363-370.	2.0	37
47	Genome of the Epsilonproteobacterial Chemolithoautotroph <i>Sulfurimonas denitrificans</i> . <i>Applied and Environmental Microbiology</i> , 2008, 74, 1145-1156.	3.1	228
48	Diversity Surveys and Evolutionary Relationships of <i>aoxB</i> Genes in Aerobic Arsenite-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4567-4573.	3.1	134
54	Comparative Genomic Hybridization Analysis of Two Predominant Nordic Group I (Proteolytic) <i>Clostridium botulinum</i> Type B Clusters. <i>Applied and Environmental Microbiology</i> , 2009, 75, 2643-2651.	3.1	29
55	Identification of an <i>aox</i> System That Requires Cytochrome <i>c</i> in the Highly Arsenic-Resistant Bacterium <i>Ochrobactrum tritici</i> SCII24. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5141-5147.	3.1	59
56	Adaptations to Submarine Hydrothermal Environments Exemplified by the Genome of <i>Nautilia profundicola</i> . <i>PLoS Genetics</i> , 2009, 5, e1000362.	3.5	126
57	The <i>ArsR</i> Repressor Mediates Arsenite-Dependent Regulation of Arsenate Respiration and Detoxification Operons of <i>Shewanella</i> sp. Strain ANA-3. <i>Journal of Bacteriology</i> , 2009, 191, 6722-6731.	2.2	74
58	Thioredoxin Is Involved in U(VI) and Cr(VI) Reduction in <i>Desulfovibrio desulfuricans</i> G20. <i>Journal of Bacteriology</i> , 2009, 191, 4924-4933.	2.2	59
59	Carbon and arsenic metabolism in <i>Thiomonas</i> strains: differences revealed diverse adaptation processes. <i>BMC Microbiology</i> , 2009, 9, 127.	3.3	69
60	Genes involved in arsenic transformation and resistance associated with different levels of arsenic-contaminated soils. <i>BMC Microbiology</i> , 2009, 9, 4.	3.3	269
61	Evidence of methanesulfonate utilizers in the Sargasso Sea metagenome. <i>Journal of Basic Microbiology</i> , 2009, 49, S24-30.	3.3	6

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62	Isolation and diversity analysis of arsenite-resistant bacteria in communities enriched from deep-sea sediments of the Southwest Indian Ocean Ridge. <i>Extremophiles</i> , 2009, 13, 39-48.	2.3	49
63	ArsR arsenic-resistance regulatory protein from <i>Cupriavidus metallidurans</i> CH34. <i>Antonie Van Leeuwenhoek</i> , 2009, 96, 161-170.	1.7	46
64	On the potential of biological treatment for arsenic contaminated soils and groundwater. <i>Journal of Environmental Management</i> , 2009, 90, 2367-2376.	7.8	140
65	Microbial responses to environmental arsenic. <i>BioMetals</i> , 2009, 22, 117-130.	4.1	309
66	Purification and characterization of arsenite oxidase from <i>Arthrobacter</i> sp.. <i>BioMetals</i> , 2009, 22, 711-721.	4.1	51
67	Arsenite oxidation by <i>Alcaligenes</i> sp. strain RS-19 isolated from arsenic-contaminated mines in the Republic of Korea. <i>Environmental Geochemistry and Health</i> , 2009, 31, 109-117.	3.4	23
68	Isolation of Arsenite-Oxidizing Bacteria from Arsenic-Enriched Sediments from Camarones River, Northern Chile. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 82, 593-596.	2.7	45
69	Arsenic Resistant Bacteria Isolated from Arsenic Contaminated River in the Atacama Desert (Chile). <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 83, 657-661.	2.7	68
70	Novel gene clusters involved in arsenite oxidation and resistance in two arsenite oxidizers: <i>Achromobacter</i> sp. SY8 and <i>Pseudomonas</i> sp. TS44. <i>Applied Microbiology and Biotechnology</i> , 2009, 83, 715-725.	3.6	85
71	Molecular characterization and in situ quantification of anoxic arsenite-oxidizing denitrifying enrichment cultures. <i>FEMS Microbiology Ecology</i> , 2009, 68, 72-85.	2.7	51
72	Redox cycling of arsenic by the hydrothermal marine bacterium <i>Marinobacter santoriniensis</i> . <i>Environmental Microbiology</i> , 2009, 11, 1601-1611.	3.8	45
73	Arsenic metabolism by microbes in nature and the impact on arsenic remediation. <i>Current Opinion in Biotechnology</i> , 2009, 20, 659-667.	6.6	166
74	Arsenic in contaminated waters: Biogeochemical cycle, microbial metabolism and biotreatment processes. <i>Biochimie</i> , 2009, 91, 1229-1237.	2.6	167
75	Potential for microbially mediated redox transformations and mobilization of arsenic in uncontaminated soils. <i>Chemosphere</i> , 2009, 77, 169-174.	8.2	11
76	Respiratory arsenate reductase as a bidirectional enzyme. <i>Biochemical and Biophysical Research Communications</i> , 2009, 382, 298-302.	2.1	117
77	Partitioning geochemistry of arsenic and antimony, El Tatio Geysers Field, Chile. <i>Applied Geochemistry</i> , 2009, 24, 664-676.	3.0	63
78	Microbial reduction of ferrous arsenate: Biogeochemical implications for arsenic mobilization. <i>Applied Geochemistry</i> , 2009, 24, 2332-2341.	3.0	33
79	Arsenic in the Evolution of Earth and Extraterrestrial Ecosystems. <i>Geomicrobiology Journal</i> , 2009, 26, 522-536.	2.0	123

#	ARTICLE	IF	CITATIONS
80	Detoxification of Arsenic. , 2009, , 1083-1100.		10
81	Heavy Metals, Bacterial Resistance. , 2009, , 220-227.		19
82	Transition Metal Homeostasis. EcoSal Plus, 2009, 3, .	5.4	20
84	Arsenite-oxidizing and arsenate-reducing bacteria associated with arsenic-rich groundwater in Taiwan. , 2010, , 549-550.		1
85	Arsenic detoxification potential of aox genes in arsenite-oxidizing bacteria isolated from natural and constructed wetlands in the Republic of Korea. Environmental Geochemistry and Health, 2010, 32, 95-105.	3.4	60
88	Anoxic oxidation of arsenite linked to chemolithotrophic denitrification in continuous bioreactors. Biotechnology and Bioengineering, 2010, 105, 909-917.	3.3	28
89	The role of denitrification on arsenite oxidation and arsenic mobility in an anoxic sediment column model with activated alumina. Biotechnology and Bioengineering, 2010, 107, 786-794.	3.3	22
90	Archaeal transformation of metals in the environment. FEMS Microbiology Ecology, 2010, 73, 1-16.	2.7	81
91	Isolation and characterization of arsenite oxidizing <i>Pseudomonas lubricans</i> and its potential use in bioremediation of wastewater. African Journal of Biotechnology, 2010, 9, 1493-1498.	0.6	38
92	Coupled Arsenotrophy in a Hot Spring Photosynthetic Biofilm at Mono Lake, California. Applied and Environmental Microbiology, 2010, 76, 4633-4639.	3.1	50
93	Arsenolysis and Thiol-Dependent Arsenate Reduction. Toxicological Sciences, 2010, 117, 249-252.	3.1	23
94	Structure, Function, and Evolution of the <i>Thiomonas</i> spp. Genome. PLoS Genetics, 2010, 6, e1000859.	3.5	123
95	Characterisation of the arsenic resistance genes in <i>Bacillus</i> sp. UWC isolated from maturing fly ash acid mine drainage neutralised solids. South African Journal of Science, 2010, 106, .	0.7	7
96	Heavy Metal Resistance in <i>Pseudomonads</i> . , 2010, , 255-282.		10
97	Arsenite Oxidase from <i>Ralstonia</i> sp. 22. Journal of Biological Chemistry, 2010, 285, 20433-20441.	3.4	47
98	The Small Subunit AroB of Arsenite Oxidase. Journal of Biological Chemistry, 2010, 285, 20442-20451.	3.4	40
99	Identification of a Novel Arsenite Oxidase Gene, <i>arxA</i> , in the Haloalkaliphilic, Arsenite-Oxidizing Bacterium <i>Alkalilimnicola ehrlichii</i> Strain MLHE-1. Journal of Bacteriology, 2010, 192, 3755-3762.	2.2	168
100	Potential for the Use of Rhizobacteria in the Sustainable Management of Contaminated Soils. , 2010, , 313-334.		0

#	ARTICLE	IF	CITATIONS
101	Purification and enzymatic properties of arsenic resistance protein ArsH from heterogeneous expression in E.coli BL21. Transactions of Nonferrous Metals Society of China, 2010, 20, 1987-1992.	4.2	6
103	Bio-Detoxification of Arsenic Laden Ground Water Through a Packed Bed Column of a Continuous Flow Reactor Using Immobilized Cells. Soil and Sediment Contamination, 2010, 19, 455-466.	1.9	12
104	Arsenic accumulating and transforming bacteria isolated from contaminated soil for potential use in bioremediation. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1736-1747.	1.7	97
105	A mineralogical, geochemical, and microbiological assessment of the antimony- and arsenic-rich neutral mine drainage tailings near Pezinok, Slovakia. American Mineralogist, 2011, 96, 1-13.	1.9	88
108	Metabolic diversity among main microorganisms inside an arsenic-rich ecosystem revealed by meta- and proteo-genomics. ISME Journal, 2011, 5, 1735-1747.	9.8	186
109	How prokaryotes deal with arsenic. Environmental Microbiology Reports, 2012, 4, 571-586.	2.4	136
110	Arsenite-oxidizing and arsenate-reducing bacteria associated with arsenic-rich groundwater in Taiwan. Journal of Contaminant Hydrology, 2011, 123, 20-29.	3.3	196
111	Bacterial aox genotype from arsenic contaminated mine to adjacent coastal sediment: Evidences for potential biogeochemical arsenic oxidation. Journal of Hazardous Materials, 2011, 193, 233-242.	12.4	17
112	Bacillus sp. CDB3 isolated from cattle dip-sites possesses two ars gene clusters. Journal of Environmental Sciences, 2011, 23, 95-101.	6.1	20
113	BioMetals: a historical and personal perspective. BioMetals, 2011, 24, 379-390.	4.1	8
114	Isolation of arsenite-oxidizing bacteria from industrial effluents and their potential use in wastewater treatment. World Journal of Microbiology and Biotechnology, 2011, 27, 2435-2441.	3.6	26
115	Sequence of the hyperplastic genome of the naturally competent Thermus scotoductus SA-01. BMC Genomics, 2011, 12, 577.	2.8	49
116	Extraction tool and matrix effects on arsenic speciation analysis in cell lines. Analytica Chimica Acta, 2011, 699, 187-192.	5.4	12
117	Arsenate Resistance in the Unicellular Marine Diazotroph Crocosphaera watsonii. Frontiers in Microbiology, 2011, 2, 214.	3.5	31
118	Unified Nomenclature for Genes Involved in Prokaryotic Aerobic Arsenite Oxidation. Journal of Bacteriology, 2012, 194, 207-208.	2.2	91
119	Draft Genome Sequence of Agrobacterium albertimagni Strain AOL15. Journal of Bacteriology, 2012, 194, 6986-6987.	2.2	6
120	Draft Genome Sequence of Achromobacter piechaudii Strain HLE. Journal of Bacteriology, 2012, 194, 6355-6355.	2.2	9
121	Draft Genome Sequence of Alcaligenes faecalis subsp. faecalis NCIB 8687 (CCUG 2071). Journal of Bacteriology, 2012, 194, 5153-5153.	2.2	24

#	ARTICLE	IF	CITATIONS
122	Arsenic Contamination in the World: An International Sourcebook 2012. Water Intelligence Online, 0, 11, .	0.3	25
123	In-situ remediation of an anthropogenic arsenic contamination. , 2012, , 397-399.		0
124	- Miscellaneous Compounds. , 2012, , 970-1017.		0
125	Biotic Reactions: An Outline of Reactions and Organisms. , 2012, , 84-215.		0
126	Heterologously expressed arsenite oxidase: A system to study biogenesis and structure/function relationships of the enzyme family. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1701-1708.	1.0	26
127	Characterization of boron resistant and accumulating bacteria <i>Lysinibacillus fusiformis</i> M1, <i>Bacillus cereus</i> M2, <i>Bacillus cereus</i> M3, <i>Bacillus pumilus</i> M4 isolated from former mining site, Hokkaido, Japan. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 1341-1349.	1.7	24
128	Proteomics combines morphological, physiological and biochemical attributes to unravel the survival strategy of <i>Anabaena</i> sp. PCC7120 under arsenic stress. Journal of Proteomics, 2012, 75, 921-937.	2.4	147
129	Remodulation of central carbon metabolic pathway in response to arsenite exposure in <i>hodococcus</i> sp. strain NAU. Microbial Biotechnology, 2012, 5, 764-772.	4.2	16
130	Bioremediation of Arsenic from Contaminated Water. , 2012, , 477-523.		1
131	Reminiscences From a Career in Geomicrobiology. Annual Review of Earth and Planetary Sciences, 2012, 40, 1-21.	11.0	8
132	SPECIATION OF ARSENIC ACROSS WATER-SEDIMENT INTERFACE OF FALGU RIVER. American Journal of Environmental Sciences, 2012, 8, 615-621.	0.5	2
133	Vol 2, No 1 (2012). Journal of Integrated OMICS, 2012, 2, .	0.5	0
134	Proteomic Response to Arsenic Stress in <i>Chromobacterium violaceum</i> . Journal of Integrated OMICS, 2012, 2, .	0.5	5
135	New clusters of arsenite oxidase and unusual bacterial groups in enrichments from arsenic-contaminated soil. Archives of Microbiology, 2012, 194, 623-635.	2.2	70
136	Arsenite Oxidation in <i>Ancylobacter dichloromethanicus</i> As3-1b Strain: Detection of Genes Involved in Arsenite Oxidation and CO2 Fixation. Current Microbiology, 2012, 65, 212-218.	2.2	45
137	Bacterial reduction and release of adsorbed arsenate on Fe(III)-, Al- and coprecipitated Fe(III)/Al-hydroxides. Journal of Environmental Sciences, 2012, 24, 440-448.	6.1	23
138	Inhibition of microbial arsenate reduction by phosphate. Microbiological Research, 2012, 167, 151-156.	5.3	33
139	ArxA, a new clade of arsenite oxidase within the DMSO reductase family of molybdenum oxidoreductases. Environmental Microbiology, 2012, 14, 1635-1645.	3.8	134

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140	Flexible bacterial strains that oxidize arsenite in anoxic or aerobic conditions and utilize hydrogen or acetate as alternative electron donors. <i>Biodegradation</i> , 2012, 23, 133-143.	3.0	17
141	Kinetics of arsenite removal by halobacteria from a highland Andean Chilean Salar. <i>Aquatic Biosystems</i> , 2013, 9, 8.	1.8	4
142	Structural and functional genomics of plasmid pSinA of <i>Sinorhizobium</i> sp. M14 encoding genes for the arsenite oxidation and arsenic resistance. <i>Journal of Biotechnology</i> , 2013, 164, 479-488.	3.8	40
143	Arsenic-tolerant, arsenite-oxidising bacterial strains in the contaminated soils of West Bengal, India. <i>Science of the Total Environment</i> , 2013, 463-464, 1006-1014.	8.0	72
144	Microbial Interactions in the Arsenic Cycle: Adoptive Strategies and Applications in Environmental Management. <i>Reviews of Environmental Contamination and Toxicology</i> , 2013, 224, 1-38.	1.3	14
145	Simultaneous biodegradation of phenanthrene and oxidation of arsenite by a dual-functional bacterial consortium. <i>International Biodeterioration and Biodegradation</i> , 2013, 82, 173-179.	3.9	10
146	Identification and characterization of metabolic properties of bacterial populations recovered from arsenic contaminated ground water of North East India (Assam). <i>Water Research</i> , 2013, 47, 6992-7005.	11.3	62
147	Arsenic mineral dissolution and possible mobilization in mineral "microbe" groundwater environment. <i>Journal of Hazardous Materials</i> , 2013, 262, 989-996.	12.4	44
149	Organization and regulation of the arsenite oxidase operon of the moderately acidophilic and facultative chemoautotrophic <i>Thiomonas arsenitoxydans</i> . <i>Extremophiles</i> , 2013, 17, 911-920.	2.3	18
150	Depth-resolved abundance and diversity of arsenite-oxidizing bacteria in the groundwater of Beimen, a blackfoot disease endemic area of southwestern Taiwan. <i>Water Research</i> , 2013, 47, 6983-6991.	11.3	16
151	Microbial diversity and potential for arsenic and iron biogeochemical cycling at an arsenic rich, shallow-sea hydrothermal vent (Tutum Bay, Papua New Guinea). <i>Chemical Geology</i> , 2013, 348, 37-47.	3.3	58
152	Arsenite-induced changes in abundance and expression of arsenite transporter and arsenite oxidase genes of a soil microbial community. <i>Research in Microbiology</i> , 2013, 164, 457-465.	2.1	43
153	<i>Bacillus</i> sp. SXB and <i>Pantoea</i> sp. IMH, aerobic As(V)-reducing bacteria isolated from arsenic-contaminated soil. <i>Journal of Applied Microbiology</i> , 2013, 114, 713-721.	3.1	28
154	Arsenite modifies structure of soil microbial communities and arsenite oxidization potential. <i>FEMS Microbiology Ecology</i> , 2013, 84, 270-279.	2.7	25
155	Arsenite oxidase gene diversity among <i>C. chloroflexi</i> and <i>P. roteobacteria</i> from El Tatio Geyser Field, Chile. <i>FEMS Microbiology Ecology</i> , 2013, 83, 745-756.	2.7	53
156	Characterization of arsenic resistant bacteria from arsenic rich groundwater of West Bengal, India. <i>Ecotoxicology</i> , 2013, 22, 363-376.	2.4	94
157	Arsenics as bioenergetic substrates. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 176-188.	1.0	105
158	Metagenomic exploration reveals high levels of microbial arsenic metabolism genes in activated sludge and coastal sediments. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9579-9588.	3.6	65

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159	Bacterial metabolism of environmental arsenic—mechanisms and biotechnological applications. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3827-3841.	3.6	161
160	Proteomic approach of adaptive response to arsenic stress in <i>Exiguobacterium</i> sp. S17, an extremophile strain isolated from a high-altitude Andean Lake stromatolite. <i>Extremophiles</i> , 2013, 17, 421-431.	2.3	68
161	Multivariate Analysis of Metal Levels in Paddy Soil, Rice Plants, and Rice Grains: A Case Study from Shakargarh, Pakistan. <i>Journal of Chemistry</i> , 2013, 2013, 1-10.	1.9	25
162	Distribution of Microbial Arsenic Reduction, Oxidation and Extrusion Genes along a Wide Range of Environmental Arsenic Concentrations. <i>PLoS ONE</i> , 2013, 8, e78890.	2.5	97
163	<i>Alishewanella</i> sp. strain GIDC-5, Arsenite hyper-tolerant bacteria isolated from industrial effluent of South Gujarat, India. <i>Chemistry and Ecology</i> , 2013, 29, 427-436.	1.6	14
164	Study on the Arsenic Absorption and Removal from the Soil by Arsenic Hyper-Accumulator and Arsenite Oxidation by Soil Bacteria. <i>Journal of Japan Society of Civil Engineers Ser C (Environmental)</i> Tj ETQq1 1 0.784314 rgb(0 /Overl	0.784314	0
165	Insights into the Physiology and Ecology of the Brackish-Water-Adapted Cyanobacterium <i>Nodularia spumigena</i> CCY9414 Based on a Genome-Transcriptome Analysis. <i>PLoS ONE</i> , 2013, 8, e60224.	2.5	95
166	In silico analysis of bacterial arsenic islands reveals remarkable synteny and functional relatedness between arsenate and phosphate. <i>Frontiers in Microbiology</i> , 2013, 4, 347.	3.5	44
167	Zinc and copper toxicity in host defense against pathogens: <i>Mycobacterium tuberculosis</i> as a model example of an emerging paradigm. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013, 3, 89.	3.9	43
168	Method for the recovery of Cr and Co species from effluents using agricultural adsorbent — immobilized <i>E. coli</i> , <i>S. aureus</i> and <i>S. typhi</i> isolates and FAAS detection. <i>International Journal of Biological and Chemical Sciences</i> , 2014, 8, 443.	0.2	0
169	Bacteria and Genes Involved in Arsenic Speciation in Sediment Impacted by Long-Term Gold Mining. <i>PLoS ONE</i> , 2014, 9, e95655.	2.5	26
170	The Multiple Roles of Hypothetical Gene BPSS1356 in <i>Burkholderia pseudomallei</i> . <i>PLoS ONE</i> , 2014, 9, e99218.	2.5	4
171	Metagenomic Approach Reveals Variation of Microbes with Arsenic and Antimony Metabolism Genes from Highly Contaminated Soil. <i>PLoS ONE</i> , 2014, 9, e108185.	2.5	75
172	Arsenic Contamination of Groundwater: A Review of Sources, Prevalence, Health Risks, and Strategies for Mitigation. <i>Scientific World Journal, The</i> , 2014, 2014, 1-18.	2.1	400
173	Nanoparticles Formed from Microbial Oxyanion Reduction of Toxic Group 15 and Group 16 Metalloids. , 2014, , 297-P2.		4
174	Diversity of arsenite oxidizing bacterial communities in arsenic-rich deltaic aquifers in West Bengal, India. <i>Frontiers in Microbiology</i> , 2014, 5, 602.	3.5	71
175	De novo assembly of <i>Aureococcus anophagefferens</i> transcriptomes reveals diverse responses to the low nutrient and low light conditions present during blooms. <i>Frontiers in Microbiology</i> , 2014, 5, 375.	3.5	52
176	Physical, Chemical, and Biological Methods for the Removal of Arsenic Compounds. <i>BioMed Research International</i> , 2014, 2014, 1-9.	1.9	96

#	ARTICLE	IF	CITATIONS
177	A 2,4-dichlorophenoxyacetic acid degradation plasmid pM7012 discloses distribution of an unclassified megaplasmid group across bacterial species. <i>Microbiology (United Kingdom)</i> , 2014, 160, 525-536.	1.8	11
178	ArsC3 from <i>Desulfovibrio alaskensis</i> G20, a cation and sulfate-independent highly efficient arsenate reductase. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 1277-1285.	2.6	5
179	Microbiology of inorganic arsenic: From metabolism to bioremediation. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 1-9.	2.2	140
180	Impact of Microorganisms on Arsenic Biogeochemistry: A Review. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	106
181	Arsenic speciation in sinter mineralization from a hydrothermal channel of El Tatio geothermal field, Chile. <i>Journal of Hydrology</i> , 2014, 518, 434-446.	5.4	21
182	The complete genome sequence for putative <i>Candidatus</i> <i>Sulfuricurvum</i> sp., assembled <i>de novo</i> from an aquifer-derived metagenome. <i>Environmental Microbiology</i> , 2014, 16, 3443-3462.	3.8	69
183	Arsenic-tolerant plant-growth-promoting bacteria isolated from arsenic-polluted soils in South Korea. <i>Environmental Science and Pollution Research</i> , 2014, 21, 9356-9365.	5.3	53
184	Arsenic and primordial life. <i>Nature Geoscience</i> , 2014, 7, 785-786.	12.9	21
185	Molecular mechanisms of interaction of microelements with microorganisms in the environment. Direct biological transformation of microelement compounds. <i>Biology Bulletin Reviews</i> , 2014, 4, 285-299.	0.9	4
186	Arsenite oxidation by a facultative chemolithoautotrophic <i>Sinorhizobium</i> sp. KGO-5 isolated from arsenic-contaminated soil. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 1963-1970.	1.3	12
187	Advanced Arsenic Removal Technologies Review. , 2014, , 285-337.		10
188	Arsenite Oxidation by the Phyllosphere Bacterial Community Associated with <i>Wolffia australiana</i> . <i>Environmental Science & Technology</i> , 2014, 48, 9668-9674.	10.0	31
189	<i>Brevibacillus</i> sp. KUMAs2, a bacterial isolate for possible bioremediation of arsenic in rhizosphere. <i>Ecotoxicology and Environmental Safety</i> , 2014, 107, 236-244.	6.0	53
190	Effect of Antibiotics on Redox Transformations of Arsenic and Diversity of Arsenite-Oxidizing Bacteria in Sediment Microbial Communities. <i>Environmental Science & Technology</i> , 2014, 48, 350-357.	10.0	31
191	Arsenic Uptake by Rice Is Influenced by Microbe-Mediated Arsenic Redox Changes in the Rhizosphere. <i>Environmental Science & Technology</i> , 2014, 48, 1001-1007.	10.0	177
192	Microbial Arsenic Metabolism and Reaction Energetics. <i>Reviews in Mineralogy and Geochemistry</i> , 2014, 79, 391-433.	4.8	37
193	Genomic and phenotypic attributes of novel <i>salinivibrios</i> from stromatolites, sediment and water from a high altitude lake. <i>BMC Genomics</i> , 2014, 15, 473.	2.8	43
194	Isolation and Molecular Characterization of Arsenite-Tolerant <i>Alishewanella</i> sp. GIDC-5 Originated from Industrial Effluents. <i>Geomicrobiology Journal</i> , 2014, 31, 82-90.	2.0	6

#	ARTICLE	IF	CITATIONS
195	Natural attenuation process via microbial oxidation of arsenic in a high Andean watershed. <i>Science of the Total Environment</i> , 2014, 466-467, 490-502.	8.0	48
196	Studies on arsenic transforming groundwater bacteria and their role in arsenic release from subsurface sediment. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8645-8662.	5.3	30
197	Cyanobacteria-Mediated Arsenic Redox Dynamics Is Regulated by Phosphate in Aquatic Environments. <i>Environmental Science & Technology</i> , 2014, 48, 994-1000.	10.0	68
198	Microbiological Reduction of Sb(V) in Anoxic Freshwater Sediments. <i>Environmental Science & Technology</i> , 2014, 48, 218-226.	10.0	108
199	Mercury metallation of the copper protein azurin and structural insight into possible heavy metal reactivity. <i>Journal of Inorganic Biochemistry</i> , 2014, 141, 152-160.	3.5	2
200	Review of remediation techniques for arsenic (As) contamination: A novel approach utilizing bio-organisms. <i>Journal of Environmental Management</i> , 2014, 134, 175-185.	7.8	97
201	Arsenic transforming abilities of groundwater bacteria and the combined use of <i>Aliihoeflea</i> sp. strain 2WW and goethite in metalloid removal. <i>Journal of Hazardous Materials</i> , 2014, 269, 89-97.	12.4	47
202	Global Gene Expression Analysis of Bacterial Stress Response to Elevated Concentrations of Toxic Metalloids—Selenium and Arsenic. <i>Geomicrobiology Journal</i> , 2014, 31, 480-492.	2.0	4
203	Characterization of polycyclic aromatic hydrocarbons degradation and arsenate reduction by a versatile <i>Pseudomonas</i> isolate. <i>International Biodeterioration and Biodegradation</i> , 2014, 90, 79-87.	3.9	21
204	7. Microbial Arsenic Metabolism and Reaction Energetics. , 2014, , 391-434.		0
205	Cellular Response of <i>Sinorhizobium</i> sp. Strain A2 during Arsenite Oxidation. <i>Microbes and Environments</i> , 2015, 30, 330-334.	1.6	2
206	Biosorption of Heavy Metals. , 2015, , 427-444.		0
207	Arsenic rich Himalayan hot spring metagenomics reveal genetically novel predator–prey genotypes. <i>Environmental Microbiology Reports</i> , 2015, 7, 812-823.	2.4	47
208	Genome comparison of two <i>Exiguobacterium</i> strains from high altitude andean lakes with different arsenic resistance: identification and 3D modeling of the Acr3 efflux pump. <i>Frontiers in Environmental Science</i> , 2015, 3, .	3.3	54
209	Regulation of arsenite oxidation by the phosphate two-component system PhoBR in <i>Halomonas</i> sp. HAL1. <i>Frontiers in Microbiology</i> , 2015, 6, 923.	3.5	40
210	Diversity and Abundance of Arsenic Biotransformation Genes in Paddy Soils from Southern China. <i>Environmental Science & Technology</i> , 2015, 49, 4138-4146.	10.0	195
211	Effect of arsenic on tolerance mechanisms of two plant growth-promoting bacteria used as biological inoculants. <i>Journal of Environmental Sciences</i> , 2015, 33, 203-210.	6.1	38
212	Arsenic Removal and Transformation by <i>Pseudomonas</i> sp. Strain GE-1-Induced Ferrihydrite: Co-precipitation Versus Adsorption. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	19

#	ARTICLE	IF	CITATIONS
213	Effect of arsenite-oxidizing bacterium <i>B. laterosporus</i> on arsenite toxicity and arsenic translocation in rice seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 7-12.	6.0	26
214	Biochemical and Molecular Basis of Arsenic Toxicity and Tolerance in Microbes and Plants. , 2015, , 627-674.		19
215	Study on As Uptake and Rhizobacteria of Two as Hyperaccumulators Forward to As Phytoremediation. <i>Advanced Materials Research</i> , 0, 1130, 568-571.	0.3	1
216	Comparative genome analysis of <i>Lysinibacillus</i> B1-CDA, a bacterium that accumulates arsenics. <i>Genomics</i> , 2015, 106, 384-392.	2.9	17
217	Bacterial ability in AsIII oxidation and AsV reduction: Relation to arsenic tolerance, P uptake, and siderophore production. <i>Chemosphere</i> , 2015, 138, 995-1000.	8.2	66
218	Arsenic Biotransformation in Solid Waste Residue: Comparison of Contributions from Bacteria with Arsenate and Iron Reducing Pathways. <i>Environmental Science & Technology</i> , 2015, 49, 2140-2146.	10.0	55
219	Potential use of <i>Pseudomonas koreensis</i> AGB-1 in association with <i>Miscanthus sinensis</i> to remediate heavy metal(loid)-contaminated mining site soil. <i>Journal of Environmental Management</i> , 2015, 151, 160-166.	7.8	210
220	Arsenite Oxidation by <i>Pseudomonas arsenicoxydans</i> Immobilized on Zeolite and Its Potential Biotechnological Application. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 94, 667-673.	2.7	11
221	Arsenate reduction and mobilization in the presence of indigenous aerobic bacteria obtained from high arsenic aquifers of the Hetao basin, Inner Mongolia. <i>Environmental Pollution</i> , 2015, 203, 50-59.	7.5	81
222	Diversity and role of plasmids in adaptation of bacteria inhabiting the Lubin copper mine in Poland, an environment rich in heavy metals. <i>Frontiers in Microbiology</i> , 2015, 6, 152.	3.5	83
223	Anaerobic Arsenite Oxidation by an Autotrophic Arsenite-Oxidizing Bacterium from an Arsenic-Contaminated Paddy Soil. <i>Environmental Science & Technology</i> , 2015, 49, 5956-5964.	10.0	121
224	Characterization, real-time quantification and in silico modeling of arsenate reductase (<i>arsC</i>) genes in arsenic-resistant <i>Herbaspirillum</i> sp. GW103. <i>Research in Microbiology</i> , 2015, 166, 196-204.	2.1	22
225	Diverse arsenic- and iron-cycling microbial communities in arsenic-contaminated aquifers used for drinking water in Bangladesh. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	2.7	30
226	Determination of physiological, taxonomic, and molecular characteristics of a cultivable arsenic-resistant bacterial community. <i>Environmental Science and Pollution Research</i> , 2015, 22, 13753-13763.	5.3	12
227	Phosphorus solubilization and plant growth enhancement by arsenic-resistant bacteria. <i>Chemosphere</i> , 2015, 134, 1-6.	8.2	76
228	Draft Genome Sequence of <i>Bacillus selenatarsenatis</i> SF-1 T , a Promising Agent for Bioremediation of Environments Contaminated with Selenium and Arsenic. <i>Genome Announcements</i> , 2015, 3, .	0.8	4
229	Fundamentals and Application Potential of Arsenic-Resistant Bacteria for Bioremediation in Rhizosphere: A Review. <i>Soil and Sediment Contamination</i> , 2015, 24, 704-718.	1.9	11
230	Arsenic Removal from Aqueous Solutions by Different <i>Bacillus</i> and <i>Lysinibacillus</i> Species. <i>Bioremediation Journal</i> , 2015, 19, 269-276.	2.0	13

#	ARTICLE	IF	CITATIONS
231	Relative Expression of Low Molecular Weight Protein, Tyrosine Phosphatase (Wzb Gene) of <i>Herbaspirillum</i> sp. GW103 Toward Arsenic Stress and Molecular Modeling. <i>Current Microbiology</i> , 2015, 71, 311-316.	2.2	7
232	Fate of arsenate following arsenite oxidation in <i>Aerobacterium tumefaciens</i> GW4. <i>Environmental Microbiology</i> , 2015, 17, 1926-1940.	3.8	48
233	Arsenic behavior in river sediments under redox gradient: A review. <i>Science of the Total Environment</i> , 2015, 505, 423-434.	8.0	162
234	Potential Role of Arsenic Resistant Bacteria in Bioremediation: Current Status and Future Prospects. <i>Journal of Microbial & Biochemical Technology</i> , 2016, 8, .	0.2	46
235	Spatio-Temporal Detection of the <i>Thiomonas</i> Population and the <i>Thiomonas</i> Arsenite Oxidase Involved in Natural Arsenite Attenuation Processes in the Carnoulès Acid Mine Drainage. <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 3.	3.7	15
236	Native Phytoremediation Potential of <i>Urtica dioica</i> for Removal of PCBs and Heavy Metals Can Be Improved by Genetic Manipulations Using Constitutive CaMV 35S Promoter. <i>PLoS ONE</i> , 2016, 11, e0167927.	2.5	27
237	Arsenic Removal and Biotransformation Potential of <i>Exiguobacterium</i> Isolated From an Arsenic-Rich Soil of Chhattisgarh, India. <i>Clean - Soil, Air, Water</i> , 2016, 44, 211-218.	1.1	11
238	Arsenic resistance strategy in <i>Pantoea</i> sp. IMH: Organization, function and evolution of ars genes. <i>Scientific Reports</i> , 2016, 6, 39195.	3.3	10
239	The respiratory microbiome: an underappreciated player in the human response to inhaled pollutants?. <i>Annals of Epidemiology</i> , 2016, 26, 355-359.	1.9	55
240	Comparison of arsenate reduction and release by three As(V)-reducing bacteria isolated from arsenic-contaminated soil of Inner Mongolia, China. <i>Chemosphere</i> , 2016, 161, 200-207.	8.2	47
241	Microbial Antimony Biogeochemistry: Enzymes, Regulation, and Related Metabolic Pathways. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5482-5495.	3.1	142
242	The Arsenite Oxidation Potential of Native Microbial Communities from Arsenic-Rich Freshwaters. <i>Microbial Ecology</i> , 2016, 72, 25-35.	2.8	16
243	The microbial genomics of arsenic. <i>FEMS Microbiology Reviews</i> , 2016, 40, 299-322.	8.6	221
244	Metagenomic analysis revealed highly diverse microbial arsenic metabolism genes in paddy soils with low-arsenic contents. <i>Environmental Pollution</i> , 2016, 211, 1-8.	7.5	125
245	Application of statistical design of experiments for optimization of As(V) biosorption by immobilized bacterial biomass. <i>Ecological Engineering</i> , 2016, 86, 13-23.	3.6	40
246	A Microbial Arsenic Cycle in Sediments of an Acidic Mine Impoundment: Herman Pit, Clear Lake, California. <i>Geomicrobiology Journal</i> , 2016, 33, 677-689.	2.0	9
247	Bacterial molybdoenzymes: old enzymes for new purposes. <i>FEMS Microbiology Reviews</i> , 2016, 40, 1-18.	8.6	136
248	An Oxidoreductase AioE is Responsible for Bacterial Arsenite Oxidation and Resistance. <i>Scientific Reports</i> , 2017, 7, 41536.	3.3	18

#	ARTICLE	IF	CITATIONS
249	Highly efficient and environmentally benign As(III) pre-oxidation in water by using a solid redox polymer. <i>Chemosphere</i> , 2017, 175, 300-306.	8.2	11
250	Isolation and identification of indigenous prokaryotic bacteria from arsenic-contaminated water resources and their impact on arsenic transformation. <i>Ecotoxicology and Environmental Safety</i> , 2017, 140, 170-176.	6.0	37
251	Investigation of Arsenotrophic Microbiome in Arsenic-Affected Bangladesh Groundwater. <i>Ground Water</i> , 2017, 55, 736-746.	1.3	41
252	Land scale biogeography of arsenic biotransformation genes in estuarine wetland. <i>Environmental Microbiology</i> , 2017, 19, 2468-2482.	3.8	45
253	Microbial mediated arsenic biotransformation in wetlands. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	67
254	The generation of biogenic manganese oxides and its application in the removal of As(III) in groundwater. <i>Environmental Science and Pollution Research</i> , 2017, 24, 17935-17944.	5.3	15
255	Arsenic Contamination in the Environment. , 2017, , .		19
256	Abiotic and biotic factors responsible for antimonite oxidation in <i>Agrobacterium tumefaciens</i> GW4. <i>Scientific Reports</i> , 2017, 7, 43225.	3.3	22
257	Metatranscriptomic analysis of prokaryotic communities active in sulfur and arsenic cycling in Mono Lake, California, USA. <i>ISME Journal</i> , 2017, 11, 2195-2208.	9.8	76
258	Genomics and Genetic Engineering in Phytoremediation of Arsenic. , 2017, , 171-186.		4
259	Arsenite oxidation regulator AioR regulates bacterial chemotaxis towards arsenite in <i>Agrobacterium tumefaciens</i> GW4. <i>Scientific Reports</i> , 2017, 7, 43252.	3.3	29
260	Diversity of bacterial communities inhabiting soil and groundwater of arsenic contaminated areas in West Bengal, India. <i>Microbiology</i> , 2017, 86, 264-275.	1.2	0
261	Bioremediation of Heavy Metals by Microbes. , 2017, , 233-255.		19
262	Bioremediation of Salt Affected Soils: An Indian Perspective. , 2017, , .		28
263	Bacterial Oxidation and Stabilization of As(III) in Soil. <i>Environmental Engineering Science</i> , 2017, 34, 158-164.	1.6	9
264	Microbial biotechnology as an emerging industrial wastewater treatment process for arsenic mitigation: A critical review. <i>Journal of Cleaner Production</i> , 2017, 151, 427-438.	9.3	92
265	Arsenic Detoxification by <i>Geobacter</i> Species. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	27
266	Investigation of Bioremediation of Arsenic by Bacteria Isolated from an Arsenic Contaminated Area. <i>Environmental Processes</i> , 2017, 4, 183-199.	3.5	4

#	ARTICLE	IF	CITATIONS
267	EPR Spectroscopy on Mononuclear Molybdenum-Containing Enzymes. <i>Biological Magnetic Resonance</i> , 2017, , 55-101.	0.4	6
268	Transcriptional response of the harmful raphidophyte <i>Heterosigma akashiwo</i> to nitrate and phosphate stress. <i>Harmful Algae</i> , 2017, 68, 258-270.	4.8	32
269	Microbial Interspecies Interactions Affect Arsenic Fate in the Presence of MnII. <i>Microbial Ecology</i> , 2017, 74, 788-794.	2.8	5
270	Antibiotics and Antibiotics Resistance Genes in Soils. <i>Soil Biology</i> , 2017, , .	0.8	8
271	Potential Environmental, Ecological and Health Effects of Soil Antibiotics and ARGs. <i>Soil Biology</i> , 2017, , 341-365.	0.8	0
272	Physiological and genomic insights into the lifestyle of arsenite-oxidizing <i>Herminiimonas arsenitoxidans</i> . <i>Scientific Reports</i> , 2017, 7, 15007.	3.3	12
273	Autotrophic microbial arsenotrophy in arsenic-rich soda lakes. <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	49
274	Biological arsenite oxidation with nitrate as sole electron acceptor. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2070-2076.	2.2	2
275	Arsenic and phosphate rock impacted the abundance and diversity of bacterial arsenic oxidase and reductase genes in rhizosphere of As-hyperaccumulator <i>Pteris vittata</i> . <i>Journal of Hazardous Materials</i> , 2017, 321, 146-153.	12.4	39
276	Metabolic response of <i>Agrobacterium tumefaciens</i> 5A to arsenite. <i>Environmental Microbiology</i> , 2017, 19, 710-721.	3.8	15
277	Metabolomic changes in response to toxic arsenite. <i>Environmental Microbiology</i> , 2017, 19, 413-414.	3.8	0
278	Experimental evaluation of sampling, storage and analytical protocols for measuring arsenic speciation in sulphidic hot spring waters. <i>Microchemical Journal</i> , 2017, 130, 162-167.	4.5	16
279	The competition between chemistry and biology in assembling iron-sulfur derivatives. Molecular structures and electrochemistry. Part IV. {[Fe ₃ S ₄](S ¹³ Cys) ₃ } proteins. <i>Inorganica Chimica Acta</i> , 2017, 455, 319-328.	2.4	13
280	Experimental Column Setup for Studying Anaerobic Biogeochemical Interactions Between Iron (Oxy)Hydroxides, Trace Elements, and Bacteria. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	2
281	Arsenic Transformation in Swine Wastewater with Low-Arsenic Content during Anaerobic Digestion. <i>Water (Switzerland)</i> , 2017, 9, 826.	2.7	8
282	Phylogenetic Structure and Metabolic Properties of Microbial Communities in Arsenic-Rich Waters of Geothermal Origin. <i>Frontiers in Microbiology</i> , 2017, 8, 2468.	3.5	17
283	Arsenic-Redox Transformation and Plant Growth Promotion by Purple Nonsulfur Bacteria <i>Rhodospseudomonas palustris</i> CS2 and <i>Rhodospseudomonas faecalis</i> SS5. <i>BioMed Research International</i> , 2017, 2017, 1-8.	1.9	28
284	Genetic variation in populations of the earthworm, <i>Lumbricus rubellus</i> , across contaminated mine sites. <i>BMC Genetics</i> , 2017, 18, 97.	2.7	29

#	ARTICLE	IF	CITATIONS
285	Microbial Cycling of Arsenic in the Aquifers of Bengal Delta Plains (BDP). <i>Microorganisms for Sustainability</i> , 2018, , 91-108.	0.7	4
286	Mechanism of arsenic resistance in endophytic bacteria isolated from endemic plant of mine tailings and their arsenophore production. <i>Archives of Microbiology</i> , 2018, 200, 883-895.	2.2	27
287	Advances in Soil Microbiology: Recent Trends and Future Prospects. <i>Microorganisms for Sustainability</i> , 2018, , .	0.7	11
288	Possible bioremediation of arsenic toxicity by isolating indigenous bacteria from the middle Gangetic plain of Bihar, India. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2018, 17, 117-125.	4.4	62
289	Kinetic assessment of simultaneous removal of arsenite, chlorate and nitrate under autotrophic and mixotrophic conditions. <i>Science of the Total Environment</i> , 2018, 628-629, 85-93.	8.0	7
290	Speciation dynamics of oxyanion contaminants (As, Sb, Cr) in argillaceous suspensions during oxic-anoxic cycles. <i>Applied Geochemistry</i> , 2018, 91, 75-88.	3.0	16
291	Draft genome sequence of <i>Bosea</i> sp. WAO an arsenite and sulfide oxidizer isolated from a pyrite rock outcrop in New Jersey. <i>Standards in Genomic Sciences</i> , 2018, 13, 6.	1.5	5
292	Haloarchaea from the Andean Puna: Biological Role in the Energy Metabolism of Arsenic. <i>Microbial Ecology</i> , 2018, 76, 695-705.	2.8	35
293	Arsenic uptake in bacterial calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 642-654.	3.9	20
294	Mitigating Arsenic Toxicity in Plants: Role of Microbiota. , 2018, , 191-218.		2
295	Inhaled nanomaterials and the respiratory microbiome: clinical, immunological and toxicological perspectives. <i>Particle and Fibre Toxicology</i> , 2018, 15, 46.	6.2	84
296	Phytoextraction of Heavy Metals: A Promising Tool for Clean-Up of Polluted Environment?. <i>Frontiers in Plant Science</i> , 2018, 9, 1476.	3.6	294
297	Distribution of Arsenic Resistance Genes in Prokaryotes. <i>Frontiers in Microbiology</i> , 2018, 9, 2473.	3.5	220
298	Selenite Reduction and the Biogenesis of Selenium Nanoparticles by <i>Alcaligenes faecalis</i> SeO ₃ Isolated from the Gut of <i>Monochamus alternatus</i> (Coleoptera: Cerambycidae). <i>International Journal of Molecular Sciences</i> , 2018, 19, 2799.	4.1	52
299	Insights Into Arsenite and Arsenate Uptake Pathways Using a Whole Cell Biosensor. <i>Frontiers in Microbiology</i> , 2018, 9, 2310.	3.5	15
300	Arsenic and high affinity phosphate uptake gene distribution in shallow submarine hydrothermal sediments. <i>Biogeochemistry</i> , 2018, 141, 41-62.	3.5	11
301	Arsenic Bioremediation by Indigenous Heavy Metal Resistant Bacteria of Fly Ash Pond. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 101, 527-535.	2.7	23
302	Environmental Concentrations of Copper, Alone or in Mixture With Arsenic, Can Impact River Sediment Microbial Community Structure and Functions. <i>Frontiers in Microbiology</i> , 2018, 9, 1852.	3.5	44

#	ARTICLE	IF	CITATIONS
303	Arsenate-dependent growth is independent of an ArrA mechanism of arsenate respiration in the termite hindgut isolate <i>Citrobacter</i> sp. strain TSA-1. <i>Canadian Journal of Microbiology</i> , 2018, 64, 619-627.	1.7	12
304	Characterization of siderophore producing arsenic-resistant <i>Staphylococcus</i> sp. strain TA6 isolated from contaminated groundwater of Jorhat, Assam and its possible role in arsenic geocycle. <i>BMC Microbiology</i> , 2018, 18, 104.	3.3	20
305	Effect of arsenic (III and V) on oxidative stress parameters in resistant and susceptible <i>Staphylococcus aureus</i> . <i>Environmental Research</i> , 2018, 166, 394-401.	7.5	8
306	Treating Water by Degrading Oxyanions Using Metallic Nanostructures. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11160-11175.	6.7	56
307	Mitigation of arsenic toxicity and accumulation in hydroponically grown rice seedlings by co-inoculation with arsenite-oxidizing and cadmium-tolerant bacteria. <i>Ecotoxicology and Environmental Safety</i> , 2018, 162, 591-602.	6.0	25
308	Microbially Mediated Methylation of Arsenic in the Arsenic-Rich Soils and Sediments of Jiangnan Plain. <i>Frontiers in Microbiology</i> , 2018, 9, 1389.	3.5	31
309	Arsenite Depletion by Manganese Oxides: A Case Study on the Limitations of Observed First Order Rate Constants. <i>Soil Systems</i> , 2018, 2, 39.	2.6	20
310	Molecular and eco-physiological characterization of arsenic (As)-transforming <i>Achromobacter</i> sp. KAs 3 ^{AT} from As-contaminated groundwater of West Bengal, India. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 915-924.	1.7	7
311	Genetic diversity and characterization of arsenic-resistant endophytic bacteria isolated from <i>Pteris vittata</i> , an arsenic hyperaccumulator. <i>BMC Microbiology</i> , 2018, 18, 42.	3.3	33
312	Detection of arsenite-oxidizing bacteria in groundwater with low arsenic concentration in Rayong province, Thailand. <i>MATEC Web of Conferences</i> , 2018, 192, 03036.	0.2	1
313	Genomic and Biotechnological Characterization of the Heavy-Metal Resistant, Arsenic-Oxidizing Bacterium <i>Ensifer</i> sp. M14. <i>Genes</i> , 2018, 9, 379.	2.4	25
314	Differential protein expression in a marine-derived <i>Staphylococcus</i> sp. NIOSBK35 in response to arsenic(III). <i>3 Biotech</i> , 2018, 8, 287.	2.2	8
315	Taxonomy and physiology of <i>Pseudoxanthomonas arseniciresistens</i> sp. nov., an arsenate and nitrate-reducing novel gammaproteobacterium from arsenic contaminated groundwater, India. <i>PLoS ONE</i> , 2018, 13, e0193718.	2.5	37
316	ArxA From <i>Azoarcus</i> sp. CIB, an Anaerobic Arsenite Oxidase From an Obligate Heterotrophic and Mesophilic Bacterium. <i>Frontiers in Microbiology</i> , 2019, 10, 1699.	3.5	14
317	Genetics and proteomics analyses reveal the roles of PhoB1 and PhoB2 regulators in bacterial responses to arsenite and phosphate. <i>Research in Microbiology</i> , 2019, 170, 263-271.	2.1	1
318	Distribution of arsenic and its biotransformation genes in sediments from the East China Sea. <i>Environmental Pollution</i> , 2019, 253, 949-958.	7.5	35
319	Engineering Prokaryote Synthetic Biology Biosensors. , 2019, , 1-37.		12
320	The role of arsenate reducing bacteria for their prospective application in arsenic contaminated groundwater aquifer system. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101218.	3.1	17

#	ARTICLE	IF	CITATIONS
321	Study of an arsenic metabolizing bacteria from arsenic contaminated soil of Chandpur district, Bangladesh. Jahangirnagar University Journal of Biological Sciences, 2019, 8, 57-65.	0.3	4
322	Environmental Arsenic and Selenium Contamination and Approaches Towards Its Bioremediation Through the Exploration of Microbial Adaptations: A Review. Pedosphere, 2019, 29, 554-568.	4.0	32
323	Use of heavy metals resistant bacteriaâ€™a strategy for arsenic bioremediation. Applied Microbiology and Biotechnology, 2019, 103, 6007-6021.	3.6	68
324	Expression of Genes and Proteins Involved in Arsenic Respiration and Resistance in Dissimilatory Arsenate-Reducing <i>Geobacter</i> sp. Strain OR-1. Applied and Environmental Microbiology, 2019, 85, .	3.1	20
325	Identification of Resistance Genes and Response to Arsenic in <i>Rhodococcus aetherivorans</i> BCP1. Frontiers in Microbiology, 2019, 10, 888.	3.5	38
326	Genomic Analysis of <i>Shewanella</i> sp. O23Sâ€™The Natural Host of the pSheB Plasmid Carrying Genes for Arsenic Resistance and Dissimilatory Reduction. International Journal of Molecular Sciences, 2019, 20, 1018.	4.1	17
327	Arsenic respiration and detoxification by purple non-sulphur bacteria under anaerobic conditions. Comptes Rendus - Biologies, 2019, 342, 101-107.	0.2	13
328	Effects of Arsenic on Gut Microbiota and Its Biotransformation Genes in Earthworm <i>Metaphire sieboldi</i> . Environmental Science & Technology, 2019, 53, 3841-3849.	10.0	78
329	Seed Endophytes of <i>Jasione montana</i> : Arsenic Detoxification Workers in an Eco-friendly Factory. , 2019, , 365-384.		2
330	A Parasitic Arsenic Cycle That Shuttles Energy from Phytoplankton to Heterotrophic Bacterioplankton. MBio, 2019, 10, .	4.1	24
331	Six New Families of Aerobic Arsenate Reducing Bacteria: <i>Leclercia</i> , <i>Raoultella</i> , <i>Kosakonia</i> , <i>Lelliottia</i> , <i>Yokenella</i> , and <i>Kluyvera</i> . Geomicrobiology Journal, 2019, 36, 339-347.	2.0	7
332	Genomic blueprints of sponge-prokaryote symbiosis are shared by low abundant and cultivatable Alphaproteobacteria. Scientific Reports, 2019, 9, 1999.	3.3	52
333	Arsenic volatilization by <i>Aspergillus</i> sp. and <i>Penicillium</i> sp. isolated from rice rhizosphere as a promising eco-safe tool for arsenic mitigation. Journal of Environmental Management, 2019, 237, 170-179.	7.8	23
334	Identification of A Novel Arsenic Resistance Transposon Nested in A Mercury Resistance Transposon of <i>Bacillus</i> sp. MB24. Microorganisms, 2019, 7, 566.	3.6	3
335	Microbes and Enzymes in Soil Health and Bioremediation. Microorganisms for Sustainability, 2019, , .	0.7	20
336	Redox metabolism of ingested arsenic: Integrated activities of microbiome and host on toxicological outcomes. Current Opinion in Toxicology, 2019, 13, 90-98.	5.0	11
337	Technology alternatives for decontamination of arsenic-rich groundwaterâ€™A critical review. Environmental Technology and Innovation, 2019, 13, 277-303.	6.1	101
338	Arsenite biotransformation and bioaccumulation by <i>Klebsiella pneumoniae</i> strain SSSW7 possessing arsenite oxidase (<i>aiOA</i>) gene. BioMetals, 2019, 32, 65-76.	4.1	22

#	ARTICLE	IF	CITATIONS
339	Structure and function prediction of arsenate reductase from <i>Deinococcus indicus</i> DR1. <i>Journal of Molecular Modeling</i> , 2019, 25, 15.	1.8	11
340	Metagenomic Evidence for a <i>Methylocystis</i> Species Capable of Bioremediation of Diverse Heavy Metals. <i>Frontiers in Microbiology</i> , 2019, 9, 3297.	3.5	19
341	The antibiotic action of methylarsenite is an emergent property of microbial communities. <i>Molecular Microbiology</i> , 2019, 111, 487-494.	2.5	59
342	Simple or complex organic substrates inhibit arsenite oxidation and <i>aiiA</i> gene expression in two β -Proteobacteria strains. <i>Research in Microbiology</i> , 2020, 171, 13-20.	2.1	8
343	Mobilization and transformation of arsenic from ternary complex OM-Fe(III)-As(V) in the presence of As(V)-reducing bacteria. <i>Journal of Hazardous Materials</i> , 2020, 381, 120975.	12.4	30
344	Biotransformation of adsorbed arsenic on iron minerals by coexisting arsenate-reducing and arsenite-oxidizing bacteria. <i>Environmental Pollution</i> , 2020, 256, 113471.	7.5	17
345	Effects of Arsenic on Trichloroetheneâ€œDechlorination Activities of <i>Dehalococcoides mccartyi</i> 195. <i>Environmental Science & Technology</i> , 2020, 54, 1276-1285.	10.0	18
346	Microbe-mediated management of arsenic contamination: current status and future prospects. <i>Environmental Sustainability</i> , 2020, 3, 83-90.	2.8	7
347	Metagenomic insights into microbial arsenic metabolism in shallow groundwater of Datong basin, China. <i>Chemosphere</i> , 2020, 245, 125603.	8.2	28
348	Bacterial Communities and Functional Genes Stimulated During Anaerobic Arsenite Oxidation and Nitrate Reduction in a Paddy Soil. <i>Environmental Science & Technology</i> , 2020, 54, 2172-2181.	10.0	62
349	Possible Involvement of a Tetrathionate Reductase Homolog in Dissimilatory Arsenate Reduction by <i>Anaeromyxobacter</i> sp. Strain PSR-1. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	8
350	Microbial Oxidation of Arsenite: Regulation, Chemotaxis, Phosphate Metabolism and Energy Generation. <i>Frontiers in Microbiology</i> , 2020, 11, 569282.	3.5	26
351	Assessment of Water Mimosa (<i>Neptunia oleracea</i> Lour.) Morphological, Physiological, and Removal Efficiency for Phytoremediation of Arsenic-Polluted Water. <i>Plants</i> , 2020, 9, 1500.	3.5	19
352	Application of Next Generation Sequencing (NGS) in Phage Displayed Peptide Selection to Support the Identification of Arsenic-Binding Motifs. <i>Viruses</i> , 2020, 12, 1360.	3.3	13
353	Arsenic toxicity: adverse effect and recent advance in microbes mediated bioremediation. , 2020, , 53-80.		7
354	Improving Arsenic Tolerance of <i>Pyrococcus furiosus</i> by Heterologous Expression of a Respiratory Arsenate Reductase. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	3
355	Microbial adaptation in vertical soil profiles contaminated by an antimony smelting plant. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	23
356	Quantifying Microbially Mediated Kinetics of Ferrihydrite Transformation and Arsenic Reduction: Role of the Arsenate-Reducing Gene Expression Pattern. <i>Environmental Science & Technology</i> , 2020, 54, 6621-6631.	10.0	45

#	ARTICLE	IF	CITATIONS
357	Characterization of Nitrate-Dependent As(III)-Oxidizing Communities in Arsenic-Contaminated Soil and Investigation of Their Metabolic Potentials by the Combination of DNA-Stable Isotope Probing and Metagenomics. <i>Environmental Science & Technology</i> , 2020, 54, 7366-7377.	10.0	82
358	Role of in Situ Natural Organic Matter in Mobilizing As during Microbial Reduction of Fe ^{III} -Mineral-Bearing Aquifer Sediments from Hanoi (Vietnam). <i>Environmental Science & Technology</i> , 2020, 54, 4149-4159.	10.0	58
359	Indigenous soil bacteria and the hyperaccumulator <i>Pteris vittata</i> mediate phytoremediation of soil contaminated with arsenic species. <i>Ecotoxicology and Environmental Safety</i> , 2020, 195, 110458.	6.0	32
360	<scp>ArsH</scp> protects <i>Pseudomonas putida</i> from oxidative damage caused by exposure to arsenic. <i>Environmental Microbiology</i> , 2020, 22, 2230-2242.	3.8	28
361	Mechanism of resistance focusing on copper, mercury and arsenic in extremophilic organisms, how acidophiles and thermophiles cope with these metals. , 2020, , 23-37.		4
362	Using yeast to sustainably remediate and extract heavy metals from waste waters. <i>Nature Sustainability</i> , 2020, 3, 303-311.	23.7	75
363	Comparative characterization of microbial communities that inhabit arsenic-rich and antimony-rich contaminated sites: Responses to two different contamination conditions. <i>Environmental Pollution</i> , 2020, 260, 114052.	7.5	40
364	The characterization of arsenic biotransformation microbes in paddy soil after straw biochar and straw amendments. <i>Journal of Hazardous Materials</i> , 2020, 391, 122200.	12.4	29
365	The effect of biochar on soil-plant-earthworm-bacteria system in metal(loid) contaminated soil. <i>Environmental Pollution</i> , 2020, 263, 114610.	7.5	29
366	Yeast strain <i>Debaryomyces hansenii</i> for amelioration of arsenic stress in rice. <i>Ecotoxicology and Environmental Safety</i> , 2020, 195, 110480.	6.0	16
367	Abundance and diversity of microbial arsenic biotransformation genes in the sludge of full-scale anaerobic digesters from a municipal wastewater treatment plant. <i>Environment International</i> , 2020, 138, 105535.	10.0	33
368	Advanced application of nano-technological and biological processes as well as mitigation options for arsenic removal. <i>Journal of Hazardous Materials</i> , 2021, 405, 123885.	12.4	53
369	Arsenic transformation behavior mediated by arsenic functional genes in landfills. <i>Journal of Hazardous Materials</i> , 2021, 403, 123687.	12.4	27
370	Effect of riboflavin on active bacterial communities and arsenic-respiring gene and bacteria in arsenic-contaminated paddy soil. <i>Geoderma</i> , 2021, 382, 114706.	5.1	12
371	Remediation of soil contaminated by di(2-ethylhexyl) phthalate by chemical oxidation or bioremediation. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 2587-2596.	3.5	1
372	Genetic engineering of plants to tolerate toxic metals and metalloids. , 2021, , 411-436.		16
373	A electrochemical biosensor for As(III) detection based on the catalytic activity of <i>Alcaligenes faecalis</i> immobilized on a gold nanoparticleâ€“modified screenâ€“printed carbon electrode. <i>Talanta</i> , 2021, 223, 121702.	5.5	25
374	Bacterially mediated release and mobilization of As/Fe coupled to nitrate reduction in a sediment environment. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111478.	6.0	12

#	ARTICLE	IF	CITATIONS
375	Current Scenario of Groundwater Arsenic Contamination in West Bengal and Its Mitigation Approach. , 2021, , 193-216.		1
376	Arsenic: Source, Distribution, Toxicity and Bioremediation. , 2021, , 153-163.		2
377	Earth Science in Environmental Management. , 2021, , 23-41.		1
378	Purple nonsulfur bacteria: An important versatile tool in biotechnology. , 2021, , 309-337.		5
379	Metal-oxidizing microbes and potential application in bioremediation. , 2021, , 107-114.		5
380	Biological Means of Arsenic Minimization with Special Reference to Siderophore. , 2021, , 253-278.		4
381	Exploration of green technology for arsenic removal from groundwater by oxidation and adsorption using arsenic-oxidizing bacteria and metal nanoparticles. , 2021, , 177-211.		2
382	Genes and Biochemical Pathways Involved in Microbial Transformation of Arsenic. , 2021, , 391-413.		3
383	Transcriptomic Responses of Four Pelagophytes to Nutrient (N, P) and Light Stress. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	3
384	Decoding the pathways of arsenic biotransformation in bacteria. <i>Environmental Sustainability</i> , 2021, 4, 63-85.	2.8	5
385	Brockarchaeota, a novel archaeal phylum with unique and versatile carbon cycling pathways. <i>Nature Communications</i> , 2021, 12, 2404.	12.8	32
387	Efficiency of arsenic remediation from growth medium through <i>Bacillus licheniformis</i> modulated by phosphate (PO ₄) ³⁻ and nitrate (NO ₃) ⁻ enrichment. <i>Archives of Microbiology</i> , 2021, 203, 4081-4089.	2.2	2
388	Periphyton enhances arsenic release and methylation at the soil-water interface of paddy soils. <i>Journal of Hazardous Materials</i> , 2021, 409, 124946.	12.4	15
389	Molecular Insight Into Key Eco-Physiological Process in Bioremediating and Plant-Growth-Promoting Bacteria. <i>Frontiers in Agronomy</i> , 2021, 3, .	3.3	2
390	Contagious Progression and Distribution of Arsenic in India: A Key Towards Bioremediation. <i>Nature Environment and Pollution Technology</i> , 2021, 20, .	0.4	1
392	Remedial Approaches against Arsenic Pollution. , 0, , .		0
393	Genome Sequence of <i>Brevundimonas</i> sp., an Arsenic Resistant Soil Bacterium. <i>Diversity</i> , 2021, 13, 344.	1.7	9
394	Pollutant Degrading Enzyme: Catalytic Mechanisms and Their Expanded Applications. <i>Molecules</i> , 2021, 26, 4751.	3.8	11

#	ARTICLE	IF	CITATIONS
395	Anaerobic As(III) Oxidation Coupled with Nitrate Reduction and Attenuation of Dissolved Arsenic by <i>Noviherbaspirillum</i> Species. ACS Earth and Space Chemistry, 2021, 5, 2115-2123.	2.7	13
396	Biochemical process and functional genes of arsenic accumulation in bioremediation: agricultural soil. International Journal of Environmental Science and Technology, 2022, 19, 9189-9208.	3.5	5
397	High Arsenic Levels Increase Activity Rather than Diversity or Abundance of Arsenic Metabolism Genes in Paddy Soils. Applied and Environmental Microbiology, 2021, 87, e0138321.	3.1	9
398	Anaerobic oxidation of methane mediated by microbial extracellular respiration. Environmental Microbiology Reports, 2021, 13, 790-804.	2.4	20
399	Culture-dependent study of arsenic-reducing bacteria in deep aquatic sediments of Bengal Delta. Environmental Science and Pollution Research, 2021, 28, 57440-57448.	5.3	2
400	Diversity and Metabolic Potentials of As(III)-Oxidizing Bacteria in Activated Sludge. Applied and Environmental Microbiology, 2021, 87, e0176921.	3.1	21
401	Engineering Prokaryote Synthetic Biology Biosensors. , 2022, , 283-318.		1
402	Drivers and ecological consequences of arsenite detoxification in aged semi-aerobic landfill. Journal of Hazardous Materials, 2021, 420, 126597.	12.4	10
403	Comparative study of three Pteris vittata-crop intercropping modes in arsenic accumulation and phytoremediation efficiency. Environmental Technology and Innovation, 2021, 24, 101923.	6.1	7
404	Adaptation mechanisms of arsenic metabolism genes and their host microorganisms in soils with different arsenic contamination levels around abandoned gold tailings. Environmental Pollution, 2021, 291, 117994.	7.5	24
405	Arsenic contamination, impact and mitigation strategies in rice agro-environment: An inclusive insight. Science of the Total Environment, 2021, 800, 149477.	8.0	47
406	Removal of heavy metals by microbial communities. , 2021, , 537-566.		3
407	Bacterial Strains Isolated from Heavy Metals Contaminated Soil and Wastewater with Potential to Oxidize Arsenite. Environmental Processes, 2021, 8, 333-347.	3.5	6
408	Metals and Metalloids in Photosynthetic Bacteria: Interactions, Resistance and Putative Homeostasis Revealed by Genome Analysis. Advances in Photosynthesis and Respiration, 2009, , 655-689.	1.0	2
409	Potential Role of Microbes in Bioremediation of Arsenic. , 2017, , 195-213.		6
410	The Geomicrobiology of Arsenic. , 2010, , 147-168.		1
411	Bioremediation of Soil Contaminated with Arsenic. Microorganisms for Sustainability, 2019, , 321-351.	0.7	2
412	Significance of bio-treatment by acid washing for enlargement of arsenic desorption in indigenous arsenic-resistant bacteria from gold mine. Malaysian Journal of Fundamental and Applied Sciences, 2020, 16, 190-195.	0.8	11

#	ARTICLE	IF	CITATIONS
413	Microbial Transformations of Arsenic in the Subsurface. , 0, , 77-90.		1
414	Microbial Arsenic Metabolism: New Twists on an Old Poison. <i>Microbe Magazine</i> , 2010, 5, 53-59.	0.4	57
415	Anaerobic oxidation of arsenite by autotrophic bacteria: the view from Mono Lake, California. , 2018, , 92-99.		2
416	Overview of microbial arsenic metabolism and resistance. <i>Arsenic in the Environment</i> , 2012, , 55-60.	0.0	1
417	Giant Mine, Yellowknife, Canada: Arsenite waste as the legacy of gold mining and processing. , 2018, , 45-61.		2
418	Metagenome of a Microbial Community Inhabiting a Metal-Rich Tropical Stream Sediment. <i>PLoS ONE</i> , 2015, 10, e0119465.	2.5	95
419	Seasonal Variation in Arsenic Concentration and its Bioremediation Potential of Marine Bacteria Isolated from Alang-Sosiya Ship-Scrapping Yard, Gujarat, India. <i>Defence Life Science Journal</i> , 2016, 1, 78.	0.3	3
420	Synthesis of nickel nanoparticles via biological entity and their Anti-inflammatory activity. <i>Journal of Microbiology and Biotechnology Research</i> , 2017, 7, 1.	0.3	5
421	Analysis of Organic Matter, Iron and Manganese in Soil of Arsenic Affected Singair Area, Bangladesh. <i>Research Journal of Environmental Toxicology</i> , 2009, 3, 31-35.	1.0	5
422	Structure and Diversity of Arsenic Resistant Bacteria in an Old Tin Mine Area of Thailand. <i>Journal of Microbiology and Biotechnology</i> , 2010, 20, 169-178.	2.1	19
423	Ferric Reductase Activity of the ArsH Protein from <i>Acidithiobacillus ferrooxidans</i> . <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 464-469.	2.1	16
424	Arsenic Pollution in the Environment. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2015, , 92-119.	0.4	5
425	Arsenic, boron and salt resistant <i>Bacillus safensis</i> MS11 isolated from Mongolia desert soil. <i>African Journal of Biotechnology</i> , 2012, 11, .	0.6	4
427	Geomicrobial Interactions with Arsenic and Antimony. , 2008, , 243-263.		1
429	Microbial in-situ mitigation of arsenic contamination in plants and soils. <i>Arsenic in the Environment</i> , 2014, , 115-143.	0.0	3
430	Bioprospecting arsenite oxidizing bacteria in the soil of the Comarca Lagunera. <i>Revista Chapingo, Serie Ciencias Forestales Y Del Ambiente</i> , 2015, XXI, 41-56.	0.2	2
431	Evidence of microbiological control of arsenic release and mobilization in aquifers of Brahmaputra flood plain. <i>Arsenic in the Environment Proceedings</i> , 2016, , 115-116.	0.0	1
432	PRELIMINARY INVESTIGATIONS ON AN ENZYME IMMOBILIZED OPTICAL BIOSENSOR FOR ARSENITE DETECTION. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.4	1

#	ARTICLE	IF	CITATIONS
434	Microbial in-situ mitigation of arsenic contamination in plants and soils. , 2018, , 149-178.		0
435	Arsenic biotransformation and mobilization: the role of bacterial strains and other environmental variables. Environmental Science and Pollution Research, 2022, 29, 1763-1787.	5.3	16
436	Metagenomic Investigation of a Low Diversity, High Salinity Offshore Oil Reservoir. Microorganisms, 2021, 9, 2266.	3.6	7
437	Application of Eco-Compatible Technology “ Phytoremediation “ Case Study with Phytoaccumulator Plantago lanceolata. Lecture Notes in Networks and Systems, 2020, , 770-778.	0.7	0
438	Climatic control of major and trace elements in paddy soils from wet and dry regions of Sri Lanka. Environmental Challenges, 2021, 5, 100361.	4.2	6
439	Complete genome sequence and analysis of Alcaligenes faecalis strain Mc250, a new potential plant bioinoculant. PLoS ONE, 2020, 15, e0241546.	2.5	9
440	Managing Oxyanions in Aquasystems“Calling Microbes to Action. Environmental Contamination Remediation and Management, 2021, , 237-262.	1.0	0
441	Interactions with Arsenic: Mechanisms of Toxicity and Cellular Resistance in Eukaryotic Microorganisms. International Journal of Environmental Research and Public Health, 2021, 18, 12226.	2.6	17
443	Arsenic biotransformation in industrial wastewater treatment residue: Effect of co-existing Shewanella sp. ANA-3 and MR-1. Journal of Environmental Sciences, 2022, 118, 14-20.	6.1	6
444	Soil ridge cultivation maintains grain As and Cd at low levels and inhibits As methylation by changing arsM-harboring bacterial communities in paddy soils. Journal of Hazardous Materials, 2022, 429, 128325.	12.4	7
445	Arsenic Contamination in Groundwater and Potential Health Risk in Western Lampang Basin, Northern Thailand. Water (Switzerland), 2022, 14, 465.	2.7	14
447	Metallophores production by bacteria isolated from heavy metal-contaminated soil and sediment at Lerma“Chapala Basin. Archives of Microbiology, 2022, 204, 180.	2.2	3
448	Discovery of the non“cosmopolitan lineages in <i>Candidatus</i> Thermoprofundales. Environmental Microbiology, 2022, 24, 3063-3080.	3.8	3
449	Significance of Shewanella Species for the Phytoavailability and Toxicity of Arsenic“ A Review. Biology, 2022, 11, 472.	2.8	6
450	Isolation and Characterization of As (V)-reducing <i>Bacillus</i> sp. Strain SM-B1 from Arsenic Laden Gold Mine in Malaysia. Geomicrobiology Journal, 0, , 1-14.	2.0	1
451	Bacterial Arsenic Metabolism and Its Role in Arsenic Bioremediation. Current Microbiology, 2022, 79, 131.	2.2	23
452	Identification and Genome Analysis of an Arsenic-Metabolizing Strain of Citrobacter youngae IITK SM2 in Middle Indo-Gangetic Plain Groundwater. BioMed Research International, 2022, 2022, 1-19.	1.9	4
453	Arsenic bioaccumulation and biotransformation in aquatic organisms. Environment International, 2022, 163, 107221.	10.0	43

#	ARTICLE	IF	CITATIONS
454	Current knowledge on molecular mechanisms of microorganism-mediated bioremediation for arsenic contamination: A review. <i>Microbiological Research</i> , 2022, 258, 126990.	5.3	26
455	Removal of As(III) and Cr(VI) from aqueous solutions by <i>Bixa orellana</i> leaf biosorbent and As(III) removal using bacterial isolates from heavy metal contaminated site. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100334.	2.8	6
456	Arsenotrophy: A pragmatic approach for arsenic bioremediation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107528.	6.7	13
457	Biochemical, molecular and in silico characterization of arsenate reductase from <i>Bacillus thuringiensis</i> KPWP1 tolerant to salt, arsenic and a wide range of pH. <i>Archives of Microbiology</i> , 2022, 204, 46.	2.2	5
458	As(III) Exposure Induces a Zinc Scarcity Response and Restricts Iron Uptake in High-Level Arsenic-Resistant <i>Paenibacillus taichungensis</i> Strain NC1. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0031222.	3.1	3
459	Understanding the slight inhibition of high As(III) stress on nitrification process: Insights from arsenic speciation and microbial community analyses. <i>Journal of Hazardous Materials</i> , 2022, 435, 128957.	12.4	3
460	Indigenous microbial populations of abandoned mining sites and their role in natural attenuation. <i>Archives of Microbiology</i> , 2022, 204, 251.	2.2	1
469	A comparative study indicates vertical inheritance and horizontal gene transfer of arsenic resistance-related genes in eukaryotes. <i>Molecular Phylogenetics and Evolution</i> , 2022, 173, 107479.	2.7	4
470	Impact of different manure-derived dissolved organic matters on the fate of arsenic-antibiotic in co-contaminated paddy soils. <i>Environmental Pollution</i> , 2022, 306, 119376.	7.5	10
472	Role of human gut bacteria in arsenic biosorption and biotransformation. <i>Environment International</i> , 2022, 165, 107314.	10.0	5
473	Arsenic accumulating and transforming bacteria: isolation, potential use, effect, and transformation in agricultural soil. , 2022, , 503-525.		1
474	Chemical oxidation of arsenic in the environment and its application in remediation: A mini review. <i>Pedosphere</i> , 2023, 33, 185-193.	4.0	10
475	Arsenic and chromium resistance mechanisms in the <i>Micrococcus luteus</i> group. <i>Pedosphere</i> , 2023, 33, 600-611.	4.0	2
476	Biological effect of phosphate on the dissimilatory arsenate-respiring bacteria-catalyzed reductive mobilization of arsenic from contaminated soils. <i>Environmental Pollution</i> , 2022, 308, 119698.	7.5	5
477	Phytoremediation of metals: Bioconcentration and translocation factors. , 2022, , 19-37.		1
478	Effect of exogenous and endogenous sulfide on the production and the export of methylmercury by sulfate-reducing bacteria. <i>Environmental Science and Pollution Research</i> , 2023, 30, 3835-3846.	5.3	6
479	Comparisons of four As(V)-respiring bacteria from contaminated aquifers: activities to respire soluble As(V) and to reductively mobilize solid As(V). <i>Water Research</i> , 2022, 224, 119097.	11.3	6
480	Characterization of arsenic-metabolizing bacteria in an alkaline soil. <i>Environmental Pollution</i> , 2022, 312, 120040.	7.5	6

#	ARTICLE	IF	CITATIONS
481	Geogenic arsenic and arsenotrophic microbiome in groundwater from the Hetao Basin. <i>Science of the Total Environment</i> , 2022, 852, 158549.	8.0	14
482	Manure application facilitated electrokinetic remediation of antibiotic-arsenic co-contaminated paddy soil. <i>Journal of Hazardous Materials</i> , 2023, 441, 129897.	12.4	8
483	Role of Rhizobacteria in Phytoremediation of Metal-Impacted Sites. , 2022, , 297-336.		1
484	Potential of methyltransferase containing <i>Pseudomonas oleovorans</i> for abatement of arsenic toxicity in rice. <i>Science of the Total Environment</i> , 2023, 856, 158944.	8.0	7
486	Cloning and functional characterization of arsenite oxidase (aoxB) gene associated with arsenic transformation in <i>Pseudomonas</i> sp. strain AK9. <i>Gene</i> , 2023, 850, 146926.	2.2	3
487	Soil particle size fractions affect arsenic (As) release and speciation: Insights into dissolved organic matter and functional genes. <i>Journal of Hazardous Materials</i> , 2023, 443, 130100.	12.4	10
488	Microbial mediated arsenate reducing behavior in landfill leachate-saturated zone. <i>Environmental Pollution</i> , 2022, 314, 120281.	7.5	1
489	Single Strain-Triggered Biogeochemical Cycle of Arsenic. <i>Environmental Science & Technology</i> , 2022, 56, 16410-16418.	10.0	5
490	Genome-Resolved Metagenomics and Metatranscriptomics Reveal that Aquificae Dominates Arsenate Reduction in Tengchong Geothermal Springs. <i>Environmental Science & Technology</i> , 2022, 56, 16473-16482.	10.0	11
491	Phytohormones producing rhizobacteria alleviate heavy metals stress in soybean through multilayered response. <i>Microbiological Research</i> , 2023, 266, 127237.	5.3	15
492	Taxonomic and genomic characterization of <i>Sporosarcina cyprini</i> sp. nov., moderately tolerant of Cr+6 and Cd+2 isolated from the gut of invasive fish <i>Cyprinus carpio</i> var. <i>communis</i> (Linn., 1758). <i>Antonie Van Leeuwenhoek</i> , 2023, 116, 193-206.	1.7	0
493	Arsenic-triggered bacterial minorities correlate with arsenic accumulation in cabbage. <i>Geoderma</i> , 2023, 429, 116278.	5.1	0
495	Arsenic Bioremediation of Soil and Water Systems—An Overview. <i>Environmental Science and Engineering</i> , 2023, , 407-431.	0.2	0
496	Bacterial Tolerance and Biotransformation of Arsenic in Soil and Aqueous Media. <i>Environmental Science and Engineering</i> , 2023, , 375-405.	0.2	0
497	Insight into universality and characteristics of nitrate reduction coupled with arsenic oxidation in different paddy soils. <i>Science of the Total Environment</i> , 2023, 866, 161342.	8.0	6
498	Mitigation of arsenic toxicity in rice by the co-inoculation of arsenate reducer yeast with multifunctional arsenite oxidizing bacteria. <i>Environmental Pollution</i> , 2023, 320, 120975.	7.5	3
500	Arsenic in Lake Geneva (Switzerland, France): long term monitoring, and redox and methylation speciation in an As unpolluted, oligo-mesotrophic lake. <i>Environmental Sciences: Processes and Impacts</i> , 2023, 25, 850-869.	3.5	3
501	Role of microorganisms in alleviation of arsenic toxicity in plants. , 2023, , 263-281.		1

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502	Isolation and characterization of an As(III) oxidizing bacterium, <i>Acinetobacter</i> sp. TMKU4 from paddy field for possible arsenic decontamination. <i>Journal of Hazardous Materials Advances</i> , 2023, 10, 100289.	3.0	1
503	The role of electron donors in arsenic-release by redox-transformation of iron oxide minerals – A review. <i>Chemical Geology</i> , 2023, 619, 121322.	3.3	7
504	Biochemical and molecular basis of arsenic toxicity and tolerance in microbes and plants. , 2023, , 709-759.		0
505	Improvement of Arsenic Tolerance and Removal Ability of Multi-stress-tolerant <i>Pichia kudriavzevii</i> A16 by Salt Preincubation. <i>Current Microbiology</i> , 2023, 80, .	2.2	0
506	Arsenic Detoxification by As(III)-Oxidizing Bacteria: A Proposition for Sustainable Environmental Management. <i>Microbiology and Biotechnology Letters</i> , 2023, 51, 1-9.	0.4	1
507	Unexpected genetic and microbial diversity for arsenic cycling in deep sea cold seep sediments. <i>Npj Biofilms and Microbiomes</i> , 2023, 9, .	6.4	3
508	Potential microbial mechanisms underlying the effects of rising atmospheric CO2 levels on the reduction and methylation processes of arsenic in the paddy soil. <i>Science of the Total Environment</i> , 2023, 888, 164240.	8.0	0
509	Effect of Arsenic on EPS Synthesis, Biofilm Formation, and Plant Growth-Promoting Abilities of the Endophytes <i>Pseudomonas</i> PD9R and <i>Rahnella laticis</i> PD12R. <i>Environmental Science & Technology</i> , 2023, 57, 8728-8738.	10.0	2
510	Microbial biochemical pathways of arsenic biotransformation and their application for bioremediation. <i>Folia Microbiologica</i> , 0, , .	2.3	0
511	Biotransformation-mediated detoxification of roxarsone in the anammox process: Gene regulation mechanism. <i>Chemical Engineering Journal</i> , 2023, 467, 143449.	12.7	4
512	Pig manure-derived fulvic acid more strongly drives the fate of arsenic and antibiotic resistance genes in paddy soil. <i>Journal of Environmental Management</i> , 2023, 344, 118683.	7.8	0
513	Speciation of Arsenic in Environment: Biotransformation and Techniques. <i>Environmental Science and Engineering</i> , 2023, , 15-41.	0.2	0
514	Detailed genomic and biochemical characterization and plant growth promoting properties of an arsenic-tolerant isolate of <i>Bacillus pacificus</i> from contaminated groundwater of West Bengal, India. <i>Biocatalysis and Agricultural Biotechnology</i> , 2023, 52, 102825.	3.1	3
515	Rapid arsenite oxidation by <i>Paenarthrobacter nicotinovorans</i> strain SSBW5: unravelling the role of <i>GlpF</i> , <i>aioAB</i> and <i>aioE</i> genes. <i>Archives of Microbiology</i> , 2023, 205, .	2.2	0
516	The gut microbiome's potential to influence arsenic exposure. <i>Current Opinion in Toxicology</i> , 2023, 36, 100431.	5.0	0
517	Syntrophic Interactions Ameliorate Arsenic Inhibition of Solvent-Dechlorinating <i>Dehalococcoides mccartyi</i> . <i>Environmental Science & Technology</i> , 2023, 57, 14237-14247.	10.0	1
519	Characterization of a novel <i>ArsR</i> regulates divergent <i>ars</i> operon in <i>Ensifer adhaerens</i> strain ST2. <i>FEMS Microbiology Letters</i> , 0, , .	1.8	0
520	Unraveling seasonal shifts in microbial and geochemical mediated arsenic mobilization at the estuarine sediment-water interface under redox changes. <i>Science of the Total Environment</i> , 2024, 912, 168939.	8.0	0

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521	Co-inoculation effects of <i>B. licheniformis</i> and <i>P. aeruginosa</i> on soil Cd and As availability and rice accumulation. <i>Journal of Environmental Management</i> , 2024, 351, 119739.	7.8	0
522	Reaction pathways and Sb(III) minerals formation during the reduction of Sb(V) by <i>Rhodospirillum rubrum</i> strain YZ-1. <i>Journal of Hazardous Materials</i> , 2024, 465, 133240.	12.4	0
523	Characterization of As(III)-oxidizing bacteria <i>Acinetobacter</i> sp. TMKU7 having plant growth promoting features for possible application in arsenic-contaminated crop field. <i>Bioremediation Journal</i> , 0, , 1-15.	2.0	0
524	Arsenic Contamination of Groundwater Is Determined by Complex Interactions between Various Chemical and Biological Processes. <i>Toxics</i> , 2024, 12, 89.	3.7	0
525	The zoonotic pathogen <i>Wohlfahrtiimonas chitiniclastica</i> – current findings from a clinical and genomic perspective. <i>BMC Microbiology</i> , 2024, 24, .	3.3	0
526	Arsenic and Microorganisms: Genes, Molecular Mechanisms, and Recent Advances in Microbial Arsenic Bioremediation. <i>Microorganisms</i> , 2024, 12, 74.	3.6	0
527	Current perspectives of ACR3 (arsenite efflux system) toward the reduction of arsenic accumulation in plants. <i>Journal of Crop Science and Biotechnology</i> , 0, , .	1.5	0
528	The Consequence of Arsenic Remediation through potential indigenous Rhizospheric Microbes. <i>Biocatalysis and Agricultural Biotechnology</i> , 2024, 56, 103030.	3.1	0
529	Arsenic effectively improves the degradation of fluorene by <i>Rhodococcus</i> sp. 2021 under the combined pollution of arsenic and fluorene. <i>Chemosphere</i> , 2024, 353, 141635.	8.2	0
530	Biotechnological Approaches in Remediation of Arsenic from Soil and Water. <i>Emerging Contaminants and Associated Treatment Technologies</i> , 2024, , 165-201.	0.7	0