

The Genetic Basis for Bacterial Mercury Methylation

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Oxidation and methylation of dissolved elemental mercury by anaerobic bacteria. <i>Nature Geoscience</i> , 2013, 6, 751-754.	5.4	155
3	Why Mercury Prefers Soft Ligands. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2317-2322.	2.1	54
4	Methylmercury manufacture. <i>Nature Geoscience</i> , 2013, 6, 810-811.	5.4	20
5	Mercury exposed: Advances in environmental analysis and ecotoxicology of a highly toxic metal. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 2175-2178.	2.2	37
6	Mechanistic Insights for Formation of an Organometallic Co-C Bond in the Methyl Transfer Reaction Catalyzed by Methionine Synthase. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16044-16057.	1.2	22
7	Mesmerized by mercury. <i>Nature Chemistry</i> , 2013, 5, 1066-1066.	6.6	19
8	Global Change and Mercury. <i>Science</i> , 2013, 341, 1457-1458.	6.0	289
9	Influence of a wastewater treatment plant on mercury contamination and sediment characteristics in Vidy Bay (Lake Geneva, Switzerland). <i>Aquatic Sciences</i> , 2014, 76, 21.	0.6	7
10	Mercury Methylation by Novel Microorganisms from New Environments. <i>Environmental Science & Technology</i> , 2013, 47, 11810-11820.	4.6	575
11	Mercury Methylation by the Methanogen <i>Methanospirillum hungatei</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 6325-6330.	1.4	119
12	Mercury biogeochemistry: Paradigm shifts, outstanding issues and research needs. <i>Comptes Rendus - Geoscience</i> , 2013, 345, 213-224.	0.4	41
13	<i>Lupinus albus</i> plants acquire mercury tolerance when inoculated with an Hg-resistant <i>Bradyrhizobium</i> strain. <i>Plant Physiology and Biochemistry</i> , 2013, 73, 168-175.	2.8	35
14	Mechanisms Regulating Mercury Bioavailability for Methylating Microorganisms in the Aquatic Environment: A Critical Review. <i>Environmental Science & Technology</i> , 2013, 47, 2441-2456.	4.6	539
15	The Structure of the Mercury Transporter MerF in Phospholipid Bilayers: A Large Conformational Rearrangement Results from N-Terminal Truncation. <i>Journal of the American Chemical Society</i> , 2013, 135, 9299-9302.	6.6	27
16	Investigation of Mercury Methylation Pathways in Biofilm versus Planktonic Cultures of <i>Desulfovibrio desulfuricans</i> . <i>Environmental Science & Technology</i> , 2013, 47, 5695-5702.	4.6	22
17	Mercury Reduction and Cell-Surface Adsorption by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Science & Technology</i> , 2013, 47, 10922-10930.	4.6	78
18	Draft Genome Sequence for <i>Desulfovibrio africanus</i> Strain PCS. <i>Genome Announcements</i> , 2013, 1, e0014413.	0.8	5
19	Draft Genome Sequences for Three Mercury-Methylating, Sulfate-Reducing Bacteria. <i>Genome Announcements</i> , 2013, 1, .	0.8	7

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22	Cracking the Mercury Methylation Code. <i>Science</i> , 2013, 339, 1280-1281.	6.0	57
23	The Global Cycles of Sulfur and Mercury. , 2013, , 469-486.		3
24	Microbial Community Structure in Lake and Wetland Sediments from a High Arctic Polar Desert Revealed by Targeted Transcriptomics. <i>PLoS ONE</i> , 2014, 9, e89531.	1.1	42
25	Mercury and Selenium in Stranded Indo-Pacific Humpback Dolphins and Implications for Their Trophic Transfer in Food Chains. <i>PLoS ONE</i> , 2014, 9, e110336.	1.1	20
26	Acerca de la biotecnologÃa ambiental. <i>Arbor</i> , 2014, 190, a157.	0.1	2
27	X-ray fluorescence mapping of mercury on suspended mineral particles and diatoms in a contaminated freshwater system. <i>Biogeosciences</i> , 2014, 11, 5259-5267.	1.3	26
28	Mercury in the Anthropocene Ocean. <i>Oceanography</i> , 2014, 27, 76-87.	0.5	60
29	USE OF CELLULOSE FILTER PAPER TO QUANTIFY WHOLE-BLOOD MERCURY IN TWO MARINE MAMMALS: VALIDATION STUDY. <i>Journal of Wildlife Diseases</i> , 2014, 50, 271-278.	0.3	7
30	Rice methylmercury exposure and mitigation: A comprehensive review. <i>Environmental Research</i> , 2014, 133, 407-423.	3.7	158
31	The Role of Earthworms in Mercury Pollution Soil Assessment. <i>Handbook of Environmental Chemistry</i> , 2014, , 159-174.	0.2	0
32	Potential drivers of microbial community structure and function in Arctic spring snow. <i>Frontiers in Microbiology</i> , 2014, 5, 413.	1.5	58
33	Mercury deposition and methylmercury formation in Narraguinnep Reservoir, southwestern Colorado, USA. <i>Applied Geochemistry</i> , 2014, 50, 82-90.	1.4	12
34	Analysis of the Microbial Community Structure by Monitoring an Hg Methylation Gene (<i>hgcA</i>) in Paddy Soils along an Hg Gradient. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2874-2879.	1.4	119
35	Hg(ⁱⁱ) bacterial biouptake: the role of anthropogenic and biogenic ligands present in solution and spectroscopic evidence of ligand exchange reactions at the cell surface. <i>Metallomics</i> , 2014, 6, 2213-2222.	1.0	36
36	Detection of a key Hg methylation gene, <i>hgcA</i> , in wetland soils. <i>Environmental Microbiology Reports</i> , 2014, 6, 441-447.	1.0	89
37	Coupled Mercury Cell Sorption, Reduction, and Oxidation on Methylmercury Production by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Science & Technology</i> , 2014, 48, 11969-11976.	4.6	60
38	In vivo and in vitro changes in neurochemical parameters related to mercury concentrations from specific brain regions of polar bears (<i>Ursus maritimus</i>). <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 2463-2471.	2.2	13

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39	Monitoring Hg and Cd Contamination Using Red Swamp Crayfish (<i>Procambarus clarkii</i>): Implications for Wetland Food Chain Contamination. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	9
40	Randomized Open-Label Pilot Study of the Influence of Probiotics and the Gut Microbiome on Toxic Metal Levels in Tanzanian Pregnant Women and School Children. <i>MBio</i> , 2014, 5, e01580-14.	1.8	163
41	Mercury dynamics in a coastal aquifer: Maunaloa Bay, Oahu, Hawaii. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 140, 52-65.	0.9	19
42	Linkage between community diversity of sulfate-reducing microorganisms and methylmercury concentration in paddy soil. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1339-1348.	2.7	45
43	Linking Cellulose Fiber Sediment Methyl Mercury Levels to Organic Matter Decay and Major Element Composition. <i>Ambio</i> , 2014, 43, 878-890.	2.8	8
44	A Michaelis-Menten type equation for describing methylmercury dependence on inorganic mercury in aquatic sediments. <i>Biogeochemistry</i> , 2014, 119, 35-43.	1.7	34
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48	Determination of thiol functional groups on bacteria and natural organic matter in environmental systems. <i>Talanta</i> , 2014, 119, 240-247.	2.9	45
49	Extremely elevated methyl mercury levels in water, sediment and organisms in a Romanian reservoir affected by release of mercury from a chlor-alkali plant. <i>Water Research</i> , 2014, 49, 391-405.	5.3	93
50	Sediment-Porewater Partitioning, Total Sulfur, and Methylmercury Production in Estuaries. <i>Environmental Science & Technology</i> , 2014, 48, 954-960.	4.6	63
51	Mercury cycling in agricultural and managed wetlands, Yolo Bypass, California: Spatial and seasonal variations in water quality. <i>Science of the Total Environment</i> , 2014, 484, 276-287.	3.9	51
52	Mercury and methylmercury flux estimation and sediment distribution in an industrialized urban bay. <i>Marine Chemistry</i> , 2014, 158, 59-68.	0.9	19
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56	Growing Rice Aerobically Markedly Decreases Mercury Accumulation by Reducing Both Hg Bioavailability and the Production of MeHg. <i>Environmental Science & Technology</i> , 2014, 48, 1878-1885.	4.6	95

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58	Mackinawite (FeS) Reduces Mercury(II) under Sulfidic Conditions. <i>Environmental Science & Technology</i> , 2014, 48, 10681-10689.	4.6	68
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60	Temperature and the Sulfur Cycle Control Methylmercury Cycling in High Arctic Coastal Marine Sediments from Allen Bay, Nunavut, Canada. <i>Environmental Science & Technology</i> , 2014, 48, 2680-2687.	4.6	36
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62	Why Dissolved Organic Matter Enhances Photodegradation of Methylmercury. <i>Environmental Science and Technology Letters</i> , 2014, 1, 426-431.	3.9	82
63	Erosion of functional independence early in the evolution of a microbial mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14822-14827.	3.3	63
64	Syntrophs Dominate Sequences Associated with the Mercury Methylation-Related Gene <i>hgcA</i> in the Water Conservation Areas of the Florida Everglades. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6517-6526.	1.4	91
65	Geochemical factors influencing the production and transport of methylmercury in St. Louis River Estuary sediment. <i>Applied Geochemistry</i> , 2014, 51, 44-54.	1.4	10
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69	Geochemistry of Mercury in the Environment. , 2014, , 91-129.		66
70	Mercury Methylation by HgcA: Theory Supports Carbanion Transfer to Hg(II). <i>Inorganic Chemistry</i> , 2014, 53, 772-777.	1.9	34
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74	Geochemical influences and mercury methylation of a dental wastewater microbiome. <i>Scientific Reports</i> , 2015, 5, 12872.	1.6	22

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76	Influence of a chloralkali superfund site on mercury bioaccumulation in periphyton and low trophic level fauna. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1649-1658.	2.2	15
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82	Metabolism of Metals and Metalloids by the Sulfate-Reducing Bacteria. , 2015, , 57-83.		13
83	Complete Genome of <i>Geobacter pickeringii</i> G13 ^T , a Metal-Reducing Isolate from Sedimentary Kaolin Deposits. <i>Genome Announcements</i> , 2015, 3, .	0.8	3
84	Genomes of <i>Geoalkalibacter ferrihydriticus</i> Z-0531 ^T and <i>Geoalkalibacter subterraneus</i> Red1 ^T , Two Haloalkaliphilic Metal-Reducing Deltaproteobacteria. <i>Genome Announcements</i> , 2015, 3, .	0.8	6
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93	Relative contributions of mercury bioavailability and microbial growth rate on net methylmercury production by anaerobic mixed cultures. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1568-1577.	1.7	21

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95	Effect of Thiols, Zinc, and Redox Conditions on Hg Uptake in <i>Shewanella oneidensis</i> . <i>Environmental Science & Technology</i> , 2015, 49, 7432-7438.	4.6	39
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99	Influence of soil mercury concentration and fraction on bioaccumulation process of inorganic mercury and methylmercury in rice (<i>Oryza sativa</i> L.). <i>Environmental Science and Pollution Research</i> , 2015, 22, 6144-6154.	2.7	45
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108	An examination of the factors influencing mercury and methylmercury particulate distributions, methylation and demethylation rates in laboratory-generated marine snow. <i>Marine Chemistry</i> , 2015, 177, 753-762.	0.9	70
109	Identification of mercury methylation product by tert-butyl compounds in aqueous solution under light irradiation. <i>Marine Pollution Bulletin</i> , 2015, 98, 40-46.	2.3	8
110	Global prevalence and distribution of genes and microorganisms involved in mercury methylation. <i>Science Advances</i> , 2015, 1, e1500675.	4.7	355
111	Thiol-Facilitated Cell Export and Desorption of Methylmercury by Anaerobic Bacteria. <i>Environmental Science and Technology Letters</i> , 2015, 2, 292-296.	3.9	31

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112	Carbon Stable Isotope Analysis of Methylmercury Toxin in Biological Materials by Gas Chromatography Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 11732-11738.	3.2	15
113	Mercury methylation coupled to iron reduction by dissimilatory iron-reducing bacteria. <i>Chemosphere</i> , 2015, 122, 206-212.	4.2	60
114	Determination of methylmercury in marine sediment samples: Method validation and occurrence data. <i>Analytica Chimica Acta</i> , 2015, 853, 167-178.	2.6	28
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118	Metals and Neurodegeneration. <i>F1000Research</i> , 2016, 5, 366.	0.8	172
119	Isolation and Genomic Characterization of <i>Desulfovibrio desulfuratus</i> WTL TM , a Metal- and Electrode-Respiring Bacterium from Anoxic Deep Subsurface Brine. <i>Frontiers in Microbiology</i> , 2016, 7, 913.	1.5	53
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121	A silver electrode based surface acoustic wave (SAW) mercury vapor sensor: a physio-chemical and analytical investigation. <i>RSC Advances</i> , 2016, 6, 36362-36372.	1.7	14
122	Net methylmercury production in 2 contrasting stream sediments and associated accumulation and toxicity to periphyton. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1759-1765.	2.2	11
123	Fractionation of Mercury Stable Isotopes during Microbial Methylmercury Production by Iron- and Sulfate-Reducing Bacteria. <i>Environmental Science & Technology</i> , 2016, 50, 8077-8083.	4.6	87
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127	Dimethylmercury Formation Mediated by Inorganic and Organic Reduced Sulfur Surfaces. <i>Scientific Reports</i> , 2016, 6, 27958.	1.6	61
128	A nanoengineered surface acoustic wave device for analysis of mercury in gas phase. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 562-572.	4.0	9
129	Anaerobic Mercury Methylation and Demethylation by <i>Geobacter bemidjensis</i> Bem. <i>Environmental Science & Technology</i> , 2016, 50, 4366-4373.	4.6	121

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131	The effects of wildfire on mercury and stable isotopes ($\delta^{15}N$, $\delta^{13}C$) in water and biota of small boreal, acidic lakes in southern Norway. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 178.	1.3	7
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133	Impacts of forest harvesting on mobilization of Hg and MeHg in drained peatland forests on black schist or felsic bedrock. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 228.	1.3	18
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136	A smart material for the in situ detection of mercury in fish. <i>Chemical Communications</i> , 2016, 52, 11915-11918.	2.2	19
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138	Periphyton Biofilms Influence Net Methylmercury Production in an Industrially Contaminated System. <i>Environmental Science & Technology</i> , 2016, 50, 10843-10850.	4.6	45
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140	Impacts of coal ash on methylmercury production and the methylating microbial community in anaerobic sediment slurries. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 1427-1439.	1.7	12
141	Effects of organic matter addition on methylmercury formation in capped and uncapped marine sediments. <i>Water Research</i> , 2016, 103, 401-407.	5.3	13
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143	Water management impacts rice methylmercury and the soil microbiome. <i>Science of the Total Environment</i> , 2016, 572, 608-617.	3.9	62
144	Methyl Mercury Formation in Hillslope Soils of Boreal Forests: The Role of Forest Harvest and Anaerobic Microbes. <i>Environmental Science & Technology</i> , 2016, 50, 9177-9186.	4.6	42
145	Modeling Mercury in Proteins. <i>Methods in Enzymology</i> , 2016, 578, 103-122.	0.4	9
146	Toward Quantitatively Accurate Calculation of the Redox-Associated Acid-Base and Ligand Binding Equilibria of Aquacobalamin. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7307-7318.	1.2	3
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148	Microbial mercury methylation in Antarctic sea ice. <i>Nature Microbiology</i> , 2016, 1, 16127.	5.9	158
149	Effects of Cellular Sorption on Mercury Bioavailability and Methylmercury Production by <i>Desulfovibrio desulfuricans</i> ND132. <i>Environmental Science & Technology</i> , 2016, 50, 13335-13341.	4.6	78
150	Biogeochemistry: Mercury methylation on ice. <i>Nature Microbiology</i> , 2016, 1, 16165.	5.9	1
151	Effects of Nutrient Loading and Mercury Chemical Speciation on the Formation and Degradation of Methylmercury in Estuarine Sediment. <i>Environmental Science & Technology</i> , 2016, 50, 6983-6990.	4.6	42
152	Biomagnification of mercury and selenium in two lakes in southern Norway. <i>Science of the Total Environment</i> , 2016, 566-567, 596-607.	3.9	31
153	Chemical multi-contamination drives benthic prokaryotic diversity in the anthropized Toulon Bay. <i>Science of the Total Environment</i> , 2016, 556, 319-329.	3.9	77
154	Assessing exposure risks for freshwater tilapia species posed by mercury and methylmercury. <i>Ecotoxicology</i> , 2016, 25, 1181-1193.	1.1	8
155	Persistent Hg contamination and occurrence of Hg-methylating transcript (<i>hgcA</i>) downstream of a chlor-alkali plant in the Olt River (Romania). <i>Environmental Science and Pollution Research</i> , 2016, 23, 10529-10541.	2.7	69
156	The corrinoid cofactor of reductive dehalogenases affects dechlorination rates and extents in organohalide-respiring <i>Dehalococcoides mccartyi</i> . <i>ISME Journal</i> , 2016, 10, 1092-1101.	4.4	59
157	The role of gut microbiota in fetal methylmercury exposure: Insights from a pilot study. <i>Toxicology Letters</i> , 2016, 242, 60-67.	0.4	56
158	Influence of rice straw amendment on mercury methylation and nitrification in paddy soils. <i>Environmental Pollution</i> , 2016, 209, 53-59.	3.7	56
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161	Development and comparative investigation of Ag-sensitive layer based SAW and QCM sensors for mercury sensing applications. <i>Analyst</i> , 2016, 141, 2463-2473.	1.7	18
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164	Aerobic Mercury-resistant bacteria alter Mercury speciation and retention in the Tagus Estuary (Portugal). <i>Ecotoxicology and Environmental Safety</i> , 2016, 124, 60-67.	2.9	31
165	Is gastrointestinal microbiota relevant for endogenous mercury methylation in terrestrial animals?. <i>Environmental Research</i> , 2017, 152, 454-461.	3.7	20

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167	Nano-engineered surfaces for mercury vapor sensing: Current state and future possibilities. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 88, 77-99.	5.8	29
168	Studying the effect of dealloying Cu-Au nanostructures on their mercury sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 273-281.	4.0	12
169	Vitamin B 12 in the spotlight again. <i>Current Opinion in Chemical Biology</i> , 2017, 37, 63-70.	2.8	98
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171	Molecular composition of organic matter controls methylmercury formation in boreal lakes. <i>Nature Communications</i> , 2017, 8, 14255.	5.8	221
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174	Cysteine Addition Promotes Sulfide Production and 4-Fold Hg(II)â€“S Coordination in Actively Metabolizing <i>Escherichia coli</i> . <i>Environmental Science & Technology</i> , 2017, 51, 4642-4651.	4.6	30
175	Finding a helix in a haystack: nucleic acid cytometry with droplet microfluidics. <i>Lab on A Chip</i> , 2017, 17, 2032-2045.	3.1	28
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177	Biotically mediated mercury methylation in the soils and sediments of Nam Co Lake, Tibetan Plateau. <i>Environmental Pollution</i> , 2017, 227, 243-251.	3.7	26
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182	Draft Genome Sequence of <i>Desulfovibrio BerOc1</i> , a Mercury-Methylating Strain. <i>Genome Announcements</i> , 2017, 5, .	0.8	1
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185	Mercury levels in largemouth bass (<i>Micropterus salmoides</i>) from regulated and unregulated rivers. <i>Chemosphere</i> , 2017, 170, 134-140.	4.2	18
186	Influence of porewater sulfide on methylmercury production and partitioning in sulfate-impacted lake sediments. <i>Science of the Total Environment</i> , 2017, 580, 1197-1204.	3.9	37
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206	Biogeochemical controls on methylmercury in soils and sediments: Implications for site management. <i>Integrated Environmental Assessment and Management</i> , 2017, 13, 249-263.	1.6	52
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224	A review of global environmental mercury processes in response to human and natural perturbations: Changes of emissions, climate, and land use. <i>Ambio</i> , 2018, 47, 116-140.	2.8	500
225	Emerging investigator series: methylmercury speciation and dimethylmercury production in sulfidic solutions. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 584-594.	1.7	17
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228	Mercury in rice (<i>Oryza sativa</i> L.) and rice-paddy soils under long-term fertilizer and organic amendment. <i>Ecotoxicology and Environmental Safety</i> , 2018, 150, 116-122.	2.9	51
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