

Baohua Gu

List of Publications by Year in descending order

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242
papers

18,595
citations

12597

71
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16791

127
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251
docs citations

251
times ranked

20571
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for methanobactin and novel chalcophore production in methanotrophs: impact on methanotrophic-mediated methylmercury degradation. <i>ISME Journal</i> , 2022, 16, 211-220.	4.4	18
2	Competitive exchange between divalent metal ions [Cu(II), Zn(II), Ca(II)] and Hg(II) bound to thiols and natural organic matter. <i>Journal of Hazardous Materials</i> , 2022, 424, 127388.	6.5	2
3	Demethylation—The Other Side of the Mercury Methylation Coin: A Critical Review. <i>ACS Environmental Au</i> , 2022, 2, 77-97.	3.3	57
4	Unravelling biogeochemical drivers of methylmercury production in an Arctic fen soil and a bog soil. <i>Environmental Pollution</i> , 2022, 299, 118878.	3.7	8
5	Isotopic discrimination of natural and anthropogenic perchlorate sources in groundwater in a semi-arid region of northeastern Oregon (USA). <i>Applied Geochemistry</i> , 2022, 139, 105232.	1.4	2
6	Mercury Reduction, Uptake, and Species Transformation by Freshwater Alga <i>Chlorella vulgaris</i> under Sunlit and Dark Conditions. <i>Environmental Science & Technology</i> , 2022, 56, 4961-4969.	4.6	17
7	Contrary effects of phytoplankton <i>Chlorella vulgaris</i> and its exudates on mercury methylation by iron- and sulfate-reducing bacteria. <i>Journal of Hazardous Materials</i> , 2022, 433, 128835.	6.5	11
8	Important Roles of Thiols in Methylmercury Uptake and Translocation by Rice Plants. <i>Environmental Science & Technology</i> , 2022, 56, 6765-6773.	4.6	10
9	Quantifying pH buffering capacity in acidic, organic-rich Arctic soils: Measurable proxies and implications for soil carbon degradation. <i>Geoderma</i> , 2022, 424, 116003.	2.3	7
10	Isotope exchange between mercuric [Hg(II)] chloride and Hg(II) bound to minerals and thiolate ligands: Implications for enriched isotope tracer studies. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 292, 468-481.	1.6	17
11	Long-term warming in a Mediterranean-type grassland affects soil bacterial functional potential but not bacterial taxonomic composition. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 17.	2.9	12
12	Complete Genome Sequences of Two Gammaproteobacterial Methanotrophs Isolated from a Mercury-Contaminated Stream. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	1
13	Mechanistic Investigation of Dimethylmercury Formation Mediated by a Sulfide Mineral Surface. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5397-5405.	1.1	3
14	Origin of the isotopic composition of natural perchlorate: Experimental results for the impact of reaction pathway and initial ClOx reactant. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 311, 292-315.	1.6	6
15	Spectroscopic and computational investigations of organometallic complexation of group 12 transition metals by methanobactins from <i>Methylocystis</i> sp. SB2. <i>Journal of Inorganic Biochemistry</i> , 2021, 223, 111496.	1.5	2
16	Cometabolic biotransformation of 1,4-dioxane in mixtures with hexavalent chromium using attached and planktonic bacteria. <i>Science of the Total Environment</i> , 2020, 706, 135734.	3.9	17
17	Molecular Dynamics Simulation of the Structures, Dynamics, and Aggregation of Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2020, 54, 13527-13537.	4.6	36
18	Rates and Dynamics of Mercury Isotope Exchange between Dissolved Elemental Hg(0) and Hg(II) Bound to Organic and Inorganic Ligands. <i>Environmental Science & Technology</i> , 2020, 54, 15534-15545.	4.6	17

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19	Anaerobic respiration pathways and response to increased substrate availability of Arctic wetland soils. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 2070-2083.	1.7	6
20	Microbial Communities Associated with Methylmercury Degradation in Paddy Soils. <i>Environmental Science & Technology</i> , 2020, 54, 7952-7960.	4.6	40
21	Influences of Hillslope Biogeochemistry on Anaerobic Soil Organic Matter Decomposition in a Tundra Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005512.	1.3	4
22	Mercury methylation potential in a sand dune on Lake Michigan's eastern shoreline. <i>Science of the Total Environment</i> , 2020, 729, 138879.	3.9	3
23	Synergistic Effects of a Chalkophore, Methanobactin, on Microbial Methylation of Mercury. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	12
24	Temporal, Spatial, and Temperature Controls on Organic Carbon Mineralization and Methanogenesis in Arctic High-Centered Polygon Soils. <i>Frontiers in Microbiology</i> , 2020, 11, 616518.	1.5	3
25	Stepwise Reduction Approach Reveals Mercury Competitive Binding and Exchange Reactions within Natural Organic Matter and Mixed Organic Ligands. <i>Environmental Science & Technology</i> , 2019, 53, 10685-10694.	4.6	35
26	Temperature sensitivity of mineral-enzyme interactions on the hydrolysis of cellobiose and indican by β -glucosidase. <i>Science of the Total Environment</i> , 2019, 686, 1194-1201.	3.9	20
27	Mercury Sorption and Desorption on Organo-Mineral Particulates as a Source for Microbial Methylation. <i>Environmental Science & Technology</i> , 2019, 53, 2426-2433.	4.6	52
28	Mercury Adsorption on Minerals and Its Effect on Microbial Methylation. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1338-1345.	1.2	18
29	Mercury Uptake by <i>Desulfovibrio desulfuricans</i> ND132: Passive or Active?. <i>Environmental Science & Technology</i> , 2019, 53, 6264-6272.	4.6	33
30	Increased Methylmercury Accumulation in Rice after Straw Amendment. <i>Environmental Science & Technology</i> , 2019, 53, 6144-6153.	4.6	45
31	Modeling anaerobic soil organic carbon decomposition in Arctic polygon tundra: insights into soil geochemical influences on carbon mineralization. <i>Biogeosciences</i> , 2019, 16, 663-680.	1.3	21
32	The Application and Potential Artifacts of Zeeman Cold Vapor Atomic Absorption Spectrometry in Mercury Stable Isotope Analysis. <i>Environmental Science and Technology Letters</i> , 2019, 6, 165-170.	3.9	21
33	Mechanistic Modeling of Microtopographic Impacts on CO ₂ and CH ₄ Fluxes in an Alaskan Tundra Ecosystem Using the CLM-Microbe Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4288-4304.	1.3	22
34	Stimulation of anaerobic organic matter decomposition by subsurface organic N addition in tundra soils. <i>Soil Biology and Biochemistry</i> , 2019, 130, 195-204.	4.2	13
35	Mercury Stable Isotope Fractionation during Abiotic Dark Oxidation in the Presence of Thiols and Natural Organic Matter. <i>Environmental Science & Technology</i> , 2019, 53, 1853-1862.	4.6	77
36	Hg isotopes reveal in-stream processing and legacy inputs in East Fork Poplar Creek, Oak Ridge, Tennessee, USA. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 686-707.	1.7	30

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37	Microbial community structure with trends in methylation gene diversity and abundance in mercury-contaminated rice paddy soils in Guizhou, China. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 673-685.	1.7	36
38	Characterization of iron oxide nanoparticle films at the air-water interface in Arctic tundra waters. <i>Science of the Total Environment</i> , 2018, 633, 1460-1468.	3.9	8
39	Influence of Structural Defects on Biomineralized ZnS Nanoparticle Dissolution: An in-Situ Electron Microscopy Study. <i>Environmental Science & Technology</i> , 2018, 52, 1139-1149.	4.6	42
40	Molecular Insights into Arctic Soil Organic Matter Degradation under Warming. <i>Environmental Science & Technology</i> , 2018, 52, 4555-4564.	4.6	74
41	Impacts of temperature and soil characteristics on methane production and oxidation in Arctic tundra. <i>Biogeosciences</i> , 2018, 15, 6621-6635.	1.3	33
42	Unraveling Microbial Communities Associated with Methylmercury Production in Paddy Soils. <i>Environmental Science & Technology</i> , 2018, 52, 13110-13118.	4.6	106
43	Co-contaminant effects on 1,4-dioxane biodegradation in packed soil column flow-through systems. <i>Environmental Pollution</i> , 2018, 243, 573-581.	3.7	29
44	Nanomolar Copper Enhances Mercury Methylation by <i>Desulfovibrio desulfuricans</i> ND132. <i>Environmental Science and Technology Letters</i> , 2018, 5, 372-376.	3.9	24
45	Quantitative Proteomic Analysis of Biological Processes and Responses of the Bacterium <i>Desulfovibrio desulfuricans</i> ND132 upon Deletion of Its Mercury Methylation Genes. <i>Proteomics</i> , 2018, 18, e1700479.	1.3	22
46	Stable isotopic composition of perchlorate and nitrate accumulated in plants: Hydroponic experiments and field data. <i>Science of the Total Environment</i> , 2017, 595, 556-566.	3.9	14
47	Methylmercury uptake and degradation by methanotrophs. <i>Science Advances</i> , 2017, 3, e1700041.	4.7	78
48	Influence of iron redox cycling on organo-mineral associations in Arctic tundra soil. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 210-231.	1.6	94
49	Identification of Mercury and Dissolved Organic Matter Complexes Using Ultrahigh Resolution Mass Spectrometry. <i>Environmental Science and Technology Letters</i> , 2017, 4, 59-65.	3.9	43
50	Trace-level perchlorate analysis of impacted groundwater by elevated gold ellipse dimer nanoantenna surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 518-524.	1.2	15
51	Contrasting Effects of Dissolved Organic Matter on Mercury Methylation by <i>Geobacter sulfurreducens</i> PCA and <i>Desulfovibrio desulfuricans</i> ND132. <i>Environmental Science & Technology</i> , 2017, 51, 10468-10475.	4.6	74
52	Photochemical reactions between mercury (Hg) and dissolved organic matter decrease Hg bioavailability and methylation. <i>Environmental Pollution</i> , 2017, 220, 1359-1365.	3.7	53
53	Stable isotope analyses of oxygen (¹⁸ O: ¹⁷ O: ¹⁶ O) and chlorine (³⁷ Cl: ³⁵ Cl) in perchlorate: reference materials, calibrations, methods, and interferences. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 85-110.	0.7	13
54	Variations of Soil Microbial Community Structures Beneath Broadleaved Forest Trees in Temperate and Subtropical Climate Zones. <i>Frontiers in Microbiology</i> , 2017, 8, 200.	1.5	9

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55	The Biogeographic Pattern of Microbial Functional Genes along an Altitudinal Gradient of the Tibetan Pasture. <i>Frontiers in Microbiology</i> , 2017, 8, 976.	1.5	22
56	Microbial Community and Functional Gene Changes in Arctic Tundra Soils in a Microcosm Warming Experiment. <i>Frontiers in Microbiology</i> , 2017, 8, 1741.	1.5	26
57	Biogeochemical modeling of CO ₂ and CH ₄ production in anoxic Arctic soil microcosms. <i>Biogeosciences</i> , 2016, 13, 5021-5041.	1.3	27
58	Global Proteome Response to Deletion of Genes Related to Mercury Methylation and Dissimilatory Metal Reduction Reveals Changes in Respiratory Metabolism in <i>Geobacter sulfurreducens</i> PCA. <i>Journal of Proteome Research</i> , 2016, 15, 3540-3549.	1.8	28
59	Anaerobic Mercury Methylation and Demethylation by <i>Geobacter bemidjiensis</i> Bem. <i>Environmental Science & Technology</i> , 2016, 50, 4366-4373.	4.6	121
60	Response to Comment on "Anaerobic Mercury Methylation and Demethylation by <i>Geobacter Bemidjiensis</i> Bem" <i>Environmental Science & Technology</i> , 2016, 50, 9800-9801.	4.6	2
61	Evaluating the role of re-adsorption of dissolved Hg ²⁺ during cinnabar dissolution using isotope tracer technique. <i>Journal of Hazardous Materials</i> , 2016, 317, 466-475.	6.5	15
62	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
63	Free-standing gold elliptical nanoantenna with tunable wavelength in near-infrared region for enhanced Raman spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	7
64	Pb, Cu, and Zn distributions at humic acid-coated metal-oxide surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 407-423.	1.6	31
65	Warming increases methylmercury production in an Arctic soil. <i>Environmental Pollution</i> , 2016, 214, 504-509.	3.7	60
66	Differential Regulation of the Two Ferrochelatase Paralogues in <i>Shewanella loihica</i> PV-4 in Response to Environmental Stresses. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5077-5088.	1.4	5
67	Effects of warming on the degradation and production of low-molecular-weight labile organic carbon in an Arctic tundra soil. <i>Soil Biology and Biochemistry</i> , 2016, 95, 202-211.	4.2	57
68	Mercury-Pollution Induction of Intracellular Lipid Accumulation and Lysosomal Compartment Amplification in the Benthic Foraminifer <i>Ammonia parkinsoniana</i> . <i>PLoS ONE</i> , 2016, 11, e0162401.	1.1	17
69	Pathways of anaerobic organic matter decomposition in tundra soils from Barrow, Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2345-2359.	1.3	41
70	Geochemical drivers of organic matter decomposition in arctic tundra soils. <i>Biogeochemistry</i> , 2015, 126, 397-414.	1.7	53
71	Microtopographic and depth controls on active layer chemistry in Arctic polygonal ground. <i>Geophysical Research Letters</i> , 2015, 42, 1808-1817.	1.5	44
72	Stoichiometry and temperature sensitivity of methanogenesis and CO ₂ production from saturated polygonal tundra in Barrow, Alaska. <i>Global Change Biology</i> , 2015, 21, 722-737.	4.2	68

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73	New surface radiolabeling schemes of super paramagnetic iron oxide nanoparticles (SPIONs) for biodistribution studies. <i>Nanoscale</i> , 2015, 7, 6545-6555.	2.8	22
74	Surface interactions and degradation of a fluoroquinolone antibiotic in the dark in aqueous TiO ₂ suspensions. <i>Science of the Total Environment</i> , 2015, 532, 398-403.	3.9	29
75	Optical Control of Fluorescence through Plasmonic Eigenmode Extinction. <i>Scientific Reports</i> , 2015, 5, 9911.	1.6	5
76	Cysteine Inhibits Mercury Methylation by <i>Geobacter sulfurreducens</i> PCA Mutant Δ omcBESTZ. <i>Environmental Science and Technology Letters</i> , 2015, 2, 144-148.	3.9	36
77	Synthesis of rare earth doped TiO ₂ nanorods as photocatalysts for lignin degradation. <i>Nanoscale</i> , 2015, 7, 16695-16703.	2.8	63
78	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
79	Indexing Permafrost Soil Organic Matter Degradation Using High-Resolution Mass Spectrometry. <i>PLoS ONE</i> , 2015, 10, e0130557.	1.1	78
80	Improved Yield of High Molecular Weight DNA Coincides with Increased Microbial Diversity Access from Iron Oxide Cemented Sub-Surface Clay Environments. <i>PLoS ONE</i> , 2014, 9, e102826.	1.1	25
81	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
82	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
83	Photochemical Oxidation of Dissolved Elemental Mercury by Carbonate Radicals in Water. <i>Environmental Science and Technology Letters</i> , 2014, 1, 499-503.	3.9	48
84	Determination of thiol functional groups on bacteria and natural organic matter in environmental systems. <i>Talanta</i> , 2014, 119, 240-247.	2.9	45
85	Identification of Multiple Mercury Sources to Stream Sediments near Oak Ridge, TN, USA. <i>Environmental Science & Technology</i> , 2014, 48, 3666-3674.	4.6	43
86	Unexpected Effects of Gene Deletion on Interactions of Mercury with the Methylation-Deficient Mutant Δ hgcAB. <i>Environmental Science and Technology Letters</i> , 2014, 1, 271-276.	3.9	22
87	Why Dissolved Organic Matter Enhances Photodegradation of Methylmercury. <i>Environmental Science and Technology Letters</i> , 2014, 1, 426-431.	3.9	82
88	Oxidation and methylation of dissolved elemental mercury by anaerobic bacteria. <i>Nature Geoscience</i> , 2013, 6, 751-754.	5.4	155
89	Why Mercury Prefers Soft Ligands. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2317-2322.	2.1	54
90	Volume labeling with Alexa Fluor dyes and surface functionalization of highly sensitive fluorescent silica (SiO ₂) nanoparticles. <i>Nanoscale</i> , 2013, 5, 10369.	2.8	20

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91	Oxidation of Dissolved Elemental Mercury by Thiol Compounds under Anoxic Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 12827-12834.	4.6	67
92	Cluster-Continuum Calculations of Hydration Free Energies of Anions and Group 12 Divalent Cations. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 555-569.	2.3	44
93	Photochemical transformation of the insensitive munitions compound 2,4-dinitroanisole. <i>Science of the Total Environment</i> , 2013, 443, 692-699.	3.9	49
94	Prediction of Aluminum, Uranium, and Co-Contaminants Precipitation and Adsorption during Titration of Acidic Sediments. <i>Environmental Science & Technology</i> , 2013, 47, 5787-5793.	4.6	18
95	Mercury Reduction and Cell-Surface Adsorption by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Science & Technology</i> , 2013, 47, 10922-10930.	4.6	78
96	Mercury Reduction and Oxidation by Reduced Natural Organic Matter in Anoxic Environments. <i>Environmental Science & Technology</i> , 2012, 46, 292-299.	4.6	155
97	Time-Dependent Density Functional Theory Assessment of UV Absorption of Benzoic Acid Derivatives. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11870-11879.	1.1	55
98	Perchlorate Production by Photodecomposition of Aqueous Chlorine Solutions. <i>Environmental Science & Technology</i> , 2012, 46, 11635-11643.	4.6	48
99	Cytotoxicity Induced by Engineered Silver Nanocrystallites Is Dependent on Surface Coatings and Cell Types. <i>Langmuir</i> , 2012, 28, 2727-2735.	1.6	222
100	A Combined Physical-Chemical Polymerization Process for Fabrication of Nanoparticle-Hydrogel Sensing Materials. <i>Macromolecules</i> , 2012, 45, 8382-8386.	2.2	24
101	Competitive ligand exchange reveals time dependant changes in the reactivity of Hg-dissolved organic matter complexes. <i>Environmental Chemistry</i> , 2012, 9, 495.	0.7	26
102	Mercury photolytic transformation affected by low-molecular-weight natural organics in water. <i>Science of the Total Environment</i> , 2012, 416, 429-435.	3.9	30
103	Colloidal synthesis of BaF ₂ nanoparticles and their application as fillers in polymer nanocomposites. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 661-667.	1.1	11
104	Isotopic Tracing of Perchlorate in the Environment. <i>Advances in Isotope Geochemistry</i> , 2012, , 437-452.	1.4	13
105	An integrated portable Raman sensor with nanofabricated gold bowtie array substrates for energetics detection. <i>Analyst</i> , 2011, 136, 1697.	1.7	25
106	High Tunability of the Surface-Enhanced Raman Scattering Response with a Metal-Multiferroic Composite. <i>Nano Letters</i> , 2011, 11, 1265-1269.	4.5	22
107	Interactions of Tc(IV) with Humic Substances. <i>Environmental Science & Technology</i> , 2011, 45, 2718-2724.	4.6	36
108	Dissolution of Technetium(IV) Oxide by Natural and Synthetic Organic Ligands under both Reducing and Oxidizing Conditions. <i>Environmental Science & Technology</i> , 2011, 45, 4771-4777.	4.6	44

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109	Mercury and Other Heavy Metals Influence Bacterial Community Structure in Contaminated Tennessee Streams. <i>Applied and Environmental Microbiology</i> , 2011, 77, 302-311.	1.4	137
110	Dissolution of Uranium-Bearing Minerals and Mobilization of Uranium by Organic Ligands in a Biologically Reduced Sediment. <i>Environmental Science & Technology</i> , 2011, 45, 2994-2999.	4.6	57
111	Binding Constants of Mercury and Dissolved Organic Matter Determined by a Modified Ion Exchange Technique. <i>Environmental Science & Technology</i> , 2011, 45, 3576-3583.	4.6	75
112	Resonance modes, cavity field enhancements, and long-range collective photonic effects in periodic bowtie nanostructures. <i>Optics Express</i> , 2011, 19, 19660.	1.7	16
113	Mercury reduction and complexation by natural organic matter in anoxic environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1479-1483.	3.3	277
114	Estimating Reaction Rate Coefficients Within a Travel-Time Modeling Framework. <i>Ground Water</i> , 2011, 49, 209-218.	0.7	6
115	Comparing Cr, and N only doping with (Cr, N)-codoping for enhancing visible light reactivity of TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2011, 110, 148-153.	10.8	37
116	Active transport, substrate specificity, and methylation of Hg(II) in anaerobic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8714-8719.	3.3	245
117	Monodispersed biocompatible silver sulfide nanoparticles: Facile extracellular biosynthesis using the β -proteobacterium, <i>Shewanella oneidensis</i> . <i>Acta Biomaterialia</i> , 2011, 7, 4253-4258.	4.1	138
118	Effect of carboxylic and thiol ligands (oxalate, cysteine) on the kinetics of desorption of Hg(II) from kaolinite. <i>Water, Air, and Soil Pollution</i> , 2011, 215, 573-584.	1.1	17
119	Biofabrication of discrete spherical gold nanoparticles using the metal-reducing bacterium <i>Shewanella oneidensis</i> . <i>Acta Biomaterialia</i> , 2011, 7, 2148-2152.	4.1	247
120	Modeling uranium transport in acidic contaminated groundwater with base addition. <i>Journal of Hazardous Materials</i> , 2011, 190, 863-868.	6.5	11
121	Dynamics of Microbial Community Composition and Function during In Situ Bioremediation of a Uranium-Contaminated Aquifer. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5063-5063.	1.4	4
122	Dynamics of Microbial Community Composition and Function during In Situ Bioremediation of a Uranium-Contaminated Aquifer. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3860-3869.	1.4	51
123	Roles of dissolved organic matter in the speciation of mercury and methylmercury in a contaminated ecosystem in Oak Ridge, Tennessee. <i>Environmental Chemistry</i> , 2010, 7, 94.	0.7	100
124	Can microbially-generated hydrogen sulfide account for the rates of U(VI) reduction by a sulfate-reducing bacterium?. <i>Biodegradation</i> , 2010, 21, 81-95.	1.5	25
125	Estimating kinetic mass transfer by resting-period measurements in flow-interruption tracer tests. <i>Journal of Contaminant Hydrology</i> , 2010, 117, 37-45.	1.6	4
126	Detection and analysis of cyclotrimethylenetrinitramine (RDX) in environmental samples by surface-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1131-1136.	1.2	65

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127	Prediction of uranium and technetium sorption during titration of contaminated acidic groundwater. <i>Journal of Hazardous Materials</i> , 2010, 178, 42-48.	6.5	9
128	Responses of microbial community functional structures to pilot-scale uranium <i>in situ</i> bioremediation. <i>ISME Journal</i> , 2010, 4, 1060-1070.	4.4	98
129	Significant Association between Sulfate-Reducing Bacteria and Uranium-Reducing Microbial Communities as Revealed by a Combined Massively Parallel Sequencing-Indicator Species Approach. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6778-6786.	1.4	102
130	Complexation of Tc(IV) with acetate at varying ionic strengths. <i>Radiochimica Acta</i> , 2010, 98, 583-587.	0.5	24
131	<i>Ab initio</i> study on noncompensated CrO codoping of GaN for enhanced solar energy conversion. <i>Journal of Chemical Physics</i> , 2010, 132, 104501.	1.2	38
132	Crystallite Sizes and Lattice Parameters of Nano-Biomagnetite Particles. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 8298-8306.	0.9	21
133	Free-Standing Optical Gold Bowtie Nanoantenna with Variable Gap Size for Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2010, 10, 4952-4955.	4.5	480
134	Isotopic Composition and Origin of Indigenous Natural Perchlorate and Co-Occurring Nitrate in the Southwestern United States. <i>Environmental Science & Technology</i> , 2010, 44, 4869-4876.	4.6	110
135	Effects of Engineered Cerium Oxide Nanoparticles on Bacterial Growth and Viability. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7981-7989.	1.4	323
136	Silver Nanocrystallites: Biofabrication using <i>Shewanella oneidensis</i> and an Evaluation of Their Comparative Toxicity on Gram-negative and Gram-positive Bacteria. <i>Environmental Science & Technology</i> , 2010, 44, 5210-5215.	4.6	299
137	A surfactant and template-free route for synthesizing ceria nanocrystals with tunable morphologies. <i>Journal of Materials Chemistry</i> , 2010, 20, 7776.	6.7	49
138	Synthesis and characterization of anodized titanium-oxide nanotube arrays. <i>Journal of Materials Science</i> , 2009, 44, 2820-2827.	1.7	30
139	Toxicity of amorphous silica nanoparticles in mouse keratinocytes. <i>Journal of Nanoparticle Research</i> , 2009, 11, 15-24.	0.8	179
140	GeoChip-based analysis of functional microbial communities during the reoxidation of a bioreduced uranium-contaminated aquifer. <i>Environmental Microbiology</i> , 2009, 11, 2611-2626.	1.8	95
141	Fabrication and characterization of brookite-rich, visible light-active TiO ₂ films for water splitting. <i>Applied Catalysis B: Environmental</i> , 2009, 93, 90-95.	10.8	54
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