

# Baohua Gu

## List of Publications by Year in descending order

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242  
papers

18,595  
citations

10984

71  
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14758

127  
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docs citations

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times ranked

18202  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption and desorption of natural organic matter on iron oxide: mechanisms and models. <i>Environmental Science &amp; Technology</i> , 1994, 28, 38-46.	10.0	1,269
2	Adsorption and desorption of different organic matter fractions on iron oxide. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 219-229.	3.9	608
3	Spectroscopic characterization of the structural and functional properties of natural organic matter fractions. <i>Chemosphere</i> , 2002, 48, 59-68.	8.2	585
4	GeoChip: a comprehensive microarray for investigating biogeochemical, ecological and environmental processes. <i>ISME Journal</i> , 2007, 1, 67-77.	9.8	554
5	Free-Standing Optical Gold Bowtie Nanoantenna with Variable Gap Size for Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2010, 10, 4952-4955.	9.1	480
6	Band Gap Narrowing of Titanium Oxide Semiconductors by Noncompensated Anion-Cation Codoping for Enhanced Visible-Light Photoactivity. <i>Physical Review Letters</i> , 2009, 103, 226401.	7.8	347
7	Fluorescence spectroscopic studies of natural organic matter fractions. <i>Chemosphere</i> , 2003, 50, 639-647.	8.2	344
8	Effects of Engineered Cerium Oxide Nanoparticles on Bacterial Growth and Viability. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7981-7989.	3.1	323
9	Reductive Precipitation of Uranium(VI) by Zero-Valent Iron. <i>Environmental Science &amp; Technology</i> , 1998, 32, 3366-3373.	10.0	311
10	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 &amp; Technology</i> , 2010, 44, 5210-5215.	10.0	299
11	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.	7.1	277
12	Biogeochemical Dynamics in Zero-Valent Iron Columns: Implications for Permeable Reactive Barriers. <i>Environmental Science &amp; Technology</i> , 1999, 33, 2170-2177.	10.0	250
13	Biofabrication of discrete spherical gold nanoparticles using the metal-reducing bacterium <i>Shewanella oneidensis</i> . <i>Acta Biomaterialia</i> , 2011, 7, 2148-2152.	8.3	247
14	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.	7.1	245
15	Pilot-Scale In Situ Bioremediation of Uranium in a Highly Contaminated Aquifer. 2. Reduction of U(VI) and Geochemical Control of U(VI) Bioavailability. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3986-3995.	10.0	242
16	Detection of Alkaline Phosphatase Using Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2006, 78, 3379-3384.	6.5	241
17	Performance Evaluation of a Zerovalent Iron Reactive Barrier: Mineralogical Characteristics. <i>Environmental Science &amp; Technology</i> , 2000, 34, 4169-4176.	10.0	233
18	Cytotoxicity Induced by Engineered Silver Nanocrystallites Is Dependent on Surface Coatings and Cell Types. <i>Langmuir</i> , 2012, 28, 2727-2735.	3.5	222

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19	The roles of natural organic matter in chemical and microbial reduction of ferric iron. <i>Science of the Total Environment</i> , 2003, 307, 167-178.	8.0	188
20	Extraction of Oxidized and Reduced Forms of Uranium from Contaminated Soils: Effects of Carbonate Concentration and pH. <i>Environmental Science &amp; Technology</i> , 2005, 39, 4435-4440.	10.0	185
21	Fabrication of Two- and Three-Dimensional Silica Nanocolloidal Particle Arrays. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3400-3404.	2.6	183
22	In Situ Bioreduction of Uranium (VI) to Submicromolar Levels and Reoxidation by Dissolved Oxygen. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5716-5723.	10.0	182
23	Enhanced microbial reduction of Cr(VI) and U(VI) by different natural organic matter fractions. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3575-3582.	3.9	180
24	Toxicity of amorphous silica nanoparticles in mouse keratinocytes. <i>Journal of Nanoparticle Research</i> , 2009, 11, 15-24.	1.9	179
25	Pilot-Scale In Situ Bioremediation of Uranium in a Highly Contaminated Aquifer. 1. Conditioning of a Treatment Zone. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3978-3985.	10.0	160
26	Synthesis of Rutile ( $\text{TiO}_2$ ) Nanocrystals with Controlled Size and Shape by Low-Temperature Hydrolysis: Effects of Solvent Composition. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14789-14792.	2.6	155
27	Mercury Reduction and Oxidation by Reduced Natural Organic Matter in Anoxic Environments. <i>Environmental Science &amp; Technology</i> , 2012, 46, 292-299.	10.0	155
28	Oxidation and methylation of dissolved elemental mercury by anaerobic bacteria. <i>Nature Geoscience</i> , 2013, 6, 751-754.	12.9	155
29	Microbial Communities in Contaminated Sediments, Associated with Bioremediation of Uranium to Submicromolar Levels. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3718-3729.	3.1	154
30	Natural Perchlorate Has a Unique Oxygen Isotope Signature. <i>Environmental Science &amp; Technology</i> , 2004, 38, 5073-5077.	10.0	151
31	Sorption and Binary Exchange of Nitrate, Sulfate, and Uranium on an Anion-Exchange Resin. <i>Environmental Science &amp; Technology</i> , 2004, 38, 3184-3188.	10.0	140
32	Monodispersed biocompatible silver sulfide nanoparticles: Facile extracellular biosynthesis using the $\beta$ -proteobacterium, <i>Shewanella oneidensis</i> . <i>Acta Biomaterialia</i> , 2011, 7, 4253-4258.	8.3	138
33	Competitive adsorption, displacement, and transport of organic matter on iron oxide: I. Competitive adsorption. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1943-1950.	3.9	137
34	Mercury and Other Heavy Metals Influence Bacterial Community Structure in Contaminated Tennessee Streams. <i>Applied and Environmental Microbiology</i> , 2011, 77, 302-311.	3.1	137
35	Bioreduction of Uranium in a Contaminated Soil Column. <i>Environmental Science &amp; Technology</i> , 2005, 39, 4841-4847.	10.0	133
36	Natural Humics Impact Uranium Bioreduction and Oxidation. <i>Environmental Science &amp; Technology</i> , 2005, 39, 5268-5275.	10.0	130

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37	Development of Novel Bifunctional Anion-Exchange Resins with Improved Selectivity for Perchnetate Sorption from Contaminated Groundwater. <i>Environmental Science &amp; Technology</i> , 2000, 34, 1075-1080.	10.0	125
38	Regeneration of Perchlorate (ClO <sub>4</sub> <sup>-</sup> )-Loaded Anion Exchange Resins by a Novel Tetrachloroferrate (FeCl <sub>4</sub> <sup>-</sup> ) Displacement Technique. <i>Environmental Science &amp; Technology</i> , 2001, 35, 3363-3368.	10.0	124
39	Anaerobic Mercury Methylation and Demethylation by <i>Geobacter bemidjensis</i> Bem. <i>Environmental Science &amp; Technology</i> , 2016, 50, 4366-4373.	10.0	121
40	Treatment of Perchlorate-Contaminated Groundwater Using Highly Selective, Regenerable Ion-Exchange Technologies. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6277-6282.	10.0	119
41	Ag@SiO <sub>2</sub> Core-Shell Nanoparticles for Probing Spatial Distribution of Electromagnetic Field Enhancement via Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2009, 3, 3493-3496.	14.6	119
42	Geochemical and microbial reactions affecting the long-term performance of in situ iron barriers™. <i>Journal of Environmental Management</i> , 2000, 4, 273-286.	1.7	114
43	Surface-enhanced Raman spectroscopy for uranium detection and analysis in environmental samples. <i>Analytica Chimica Acta</i> , 2007, 605, 80-86.	5.4	112
44	Kinetic Controls on the Complexation between Mercury and Dissolved Organic Matter in a Contaminated Environment. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8548-8553.	10.0	112
45	Isotopic Composition and Origin of Indigenous Natural Perchlorate and Co-Occurring Nitrate in the Southwestern United States. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4869-4876.	10.0	110
46	Perchlorate Isotope Forensics. <i>Analytical Chemistry</i> , 2005, 77, 7838-7842.	6.5	109
47	Competitive complexation of metal ions with humic substances. <i>Chemosphere</i> , 2005, 58, 1327-1337.	8.2	109
48	Kinetics of iron(II) oxygenation at low partial pressure of oxygen in the presence of natural organic matter. <i>Environmental Science &amp; Technology</i> , 1993, 27, 1864-1870.	10.0	108
49	Unraveling Microbial Communities Associated with Methylmercury Production in Paddy Soils. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13110-13118.	10.0	106
50	Sorption and Desorption of Perchlorate and U(VI) by Strong-Base Anion-Exchange Resins. <i>Environmental Science &amp; Technology</i> , 2005, 39, 901-907.	10.0	104
51	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.	3.1	102
52	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.	1.5	100
53	Controlled Fabrication of Nanopillar Arrays as Active Substrates for Surface-Enhanced Raman Spectroscopy. <i>Langmuir</i> , 2007, 23, 5757-5760.	3.5	98
54	Responses of microbial community functional structures to pilot-scale uranium <i>in situ</i> bioremediation. <i>ISME Journal</i> , 2010, 4, 1060-1070.	9.8	98

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55	Mineralogical Characteristics and Transformations during Long-Term Operation of a Zerovalent Iron Reactive Barrier. <i>Journal of Environmental Quality</i> , 2003, 32, 2033-2045.	2.0	97
56	GeoChip-based analysis of functional microbial communities during the reoxidation of a bioreduced uranium-contaminated aquifer. <i>Environmental Microbiology</i> , 2009, 11, 2611-2626.	3.8	95
57	Influence of iron redox cycling on organo-mineral associations in Arctic tundra soil. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 210-231.	3.9	94
58	Microbiological characteristics in a zero-valent iron reactive barrier. <i>Environmental Monitoring and Assessment</i> , 2002, 77, 293-309.	2.7	92
59	Competitive adsorption, displacement, and transport of organic matter on iron oxide: II. Displacement and transport. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 2977-2992.	3.9	88
60	Adsorption and Structural Arrangement of Cetyltrimethylammonium Cations at the Silica Nanoparticle-Water Interface. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17477-17483.	2.6	88
61	Sequestering Uranium and Technetium through Co-Precipitation with Aluminum in a Contaminated Acidic Environment. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7516-7522.	10.0	85
62	Removal of technetium-99 from contaminated groundwater with sorbents and reductive materials. <i>Separation and Purification Technology</i> , 1996, 6, 111-122.	0.7	84
63	Surface-enhanced Raman scattering for perchlorate detection using cystamine-modified gold nanoparticles. <i>Analytica Chimica Acta</i> , 2006, 567, 114-120.	5.4	84
64	Structure and Morphology Evolution of Hematite ( $\text{Fe}_2\text{O}_3$ ) Nanoparticles in Forced Hydrolysis of Ferric Chloride. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9203-9208.	3.1	83
65	Why Dissolved Organic Matter Enhances Photodegradation of Methylmercury. <i>Environmental Science and Technology Letters</i> , 2014, 1, 426-431.	8.7	82
66	Complete Degradation of Perchlorate in Ferric Chloride and Hydrochloric Acid under Controlled Temperature and Pressure. <i>Environmental Science &amp; Technology</i> , 2003, 37, 2291-2295.	10.0	80
67	Mercury Reduction and Cell-Surface Adsorption by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Science &amp; Technology</i> , 2013, 47, 10922-10930.	10.0	78
68	Effects of Cellular Sorption on Mercury Bioavailability and Methylmercury Production by <i>Desulfovibrio desulfuricans</i> ND132. <i>Environmental Science &amp; Technology</i> , 2016, 50, 13335-13341.	10.0	78
69	Methylmercury uptake and degradation by methanotrophs. <i>Science Advances</i> , 2017, 3, e1700041.	10.3	78
70	Indexing Permafrost Soil Organic Matter Degradation Using High-Resolution Mass Spectrometry. <i>PLoS ONE</i> , 2015, 10, e0130557.	2.5	78
71	Mercury Stable Isotope Fractionation during Abiotic Dark Oxidation in the Presence of Thiols and Natural Organic Matter. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1853-1862.	10.0	77
72	Binding Constants of Mercury and Dissolved Organic Matter Determined by a Modified Ion Exchange Technique. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3576-3583.	10.0	75

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73	Contrasting Effects of Dissolved Organic Matter on Mercury Methylation by <i>Geobacter sulfurreducens</i> PCA and <i>Desulfovibrio desulfuricans</i> ND132. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10468-10475.	10.0	74
74	Molecular Insights into Arctic Soil Organic Matter Degradation under Warming. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4555-4564.	10.0	74
75	Atacama Perchlorate as an Agricultural Contaminant in Groundwater: Isotopic and Chronologic Evidence from Long Island, New York. <i>Environmental Science &amp; Technology</i> , 2009, 43, 5619-5625.	10.0	72
76	Fabrication of Near-Infrared Photonic Crystals Using Highly-Monodispersed Submicrometer SiO <sub>2</sub> Spheres. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12113-12117.	2.6	70
77	Field Tracer Tests on the Mobility of Natural Organic Matter in a Sandy Aquifer. <i>Water Resources Research</i> , 1996, 32, 1223-1238.	4.2	69
78	Dissolution and Mobilization of Uranium in a Reduced Sediment by Natural Humic Substances under Anaerobic Conditions. <i>Environmental Science &amp; Technology</i> , 2009, 43, 152-156.	10.0	69
79	Development of gold-silica composite nanoparticle substrates for perchlorate detection by surface-enhanced Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2006, 567, 121-126.	5.4	68
80	Phase-Dependent Photocatalytic Ability of TiO <sub>2</sub> : A First-Principles Study. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3074-3078.	5.3	68
81	Stoichiometry and temperature sensitivity of methanogenesis and CO <sub>2</sub> production from saturated polygonal tundra in Barrow, Alaska. <i>Global Change Biology</i> , 2015, 21, 722-737.	9.5	68
82	Oxidation of Dissolved Elemental Mercury by Thiol Compounds under Anoxic Conditions. <i>Environmental Science &amp; Technology</i> , 2013, 47, 12827-12834.	10.0	67
83	Detection and analysis of cyclotrimethylenetrinitramine (RDX) in environmental samples by surface-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1131-1136.	2.5	65
84	Field application of palladized iron for the dechlorination of trichloroethene. <i>Waste Management</i> , 2000, 20, 687-694.	7.4	64
85	Efficient separation and recovery of technetium-99 from contaminated groundwater. <i>Separation and Purification Technology</i> , 1996, 6, 123-132.	0.7	63
86	Synthesis of rare earth doped TiO <sub>2</sub> nanorods as photocatalysts for lignin degradation. <i>Nanoscale</i> , 2015, 7, 16695-16703.	5.6	63
87	Uranium removal from contaminated groundwater by synthetic resins. <i>Water Research</i> , 2008, 42, 260-268.	11.3	62
88	STUDIES ON THE ADSORPTION OF BORON ON HUMIC ACIDS. <i>Canadian Journal of Soil Science</i> , 1990, 70, 305-311.	1.2	61
89	Coupled Mercury Cell Sorption, Reduction, and Oxidation on Methylmercury Production by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Science &amp; Technology</i> , 2014, 48, 11969-11976.	10.0	60
90	Warming increases methylmercury production in an Arctic soil. <i>Environmental Pollution</i> , 2016, 214, 504-509.	7.5	60

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91	Ligand-induced dissolution and release of ferrihydrite colloids. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2027-2037.	3.9	58
92	Raman Spectroscopic Detection for Perchlorate at Low Concentrations. <i>Applied Spectroscopy</i> , 2004, 58, 741-744.	2.2	58
93	Perchlorate Detection at Nanomolar Concentrations by Surface-Enhanced Raman Scattering. <i>Applied Spectroscopy</i> , 2009, 63, 98-102.	2.2	58
94	Dissolution of Uranium-Bearing Minerals and Mobilization of Uranium by Organic Ligands in a Biologically Reduced Sediment. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2994-2999.	10.0	57
95	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.	8.8	57
96	Demethylation—The Other Side of the Mercury Methylation Coin: A Critical Review. <i>ACS Environmental Au</i> , 2022, 2, 77-97.	7.0	57
97	Dispersion and Aggregation of Soils as Influenced by Organic and Inorganic Polymers and Inorganic Polymers. <i>Soil Science Society of America Journal</i> , 1993, 57, 709-716.	2.2	56
98	Time-Dependent Density Functional Theory Assessment of UV Absorption of Benzoic Acid Derivatives. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11870-11879.	2.5	55
99	Influence of bicarbonate, sulfate, and electron donors on biological reduction of uranium and microbial community composition. <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 713-721.	3.6	54
100	Fabrication and characterization of brookite-rich, visible light-active TiO <sub>2</sub> films for water splitting. <i>Applied Catalysis B: Environmental</i> , 2009, 93, 90-95.	20.2	54
101	Why Mercury Prefers Soft Ligands. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2317-2322.	4.6	54
102	Geochemical drivers of organic matter decomposition in arctic tundra soils. <i>Biogeochemistry</i> , 2015, 126, 397-414.	3.5	53
103	Photochemical reactions between mercury (Hg) and dissolved organic matter decrease Hg bioavailability and methylation. <i>Environmental Pollution</i> , 2017, 220, 1359-1365.	7.5	53
104	Chlorine-36 as a Tracer of Perchlorate Origin. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6934-6938.	10.0	52
105	Mercury Sorption and Desorption on Organo-Mineral Particulates as a Source for Microbial Methylation. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2426-2433.	10.0	52
106	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.	3.1	51
107	Self-Assembly of Two- and Three-Dimensional Particle Arrays by Manipulating the Hydrophobicity of Silica Nanospheres. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22175-22180.	2.6	50
108	Hydrogen-Bonded Helices for Anion Binding and Separation. <i>Crystal Growth and Design</i> , 2008, 8, 1909-1915.	3.0	50

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109	The effect of solvent concentration on the use of palladized-iron for the step-wise dechlorination of polychlorinated biphenyls in soil extracts. <i>Waste Management</i> , 2002, 22, 343-349.	7.4	49
110	Geochemical reactions and dynamics during titration of a contaminated groundwater with high uranium, aluminum, and calcium. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2749-2761.	3.9	49
111	Single-molecule detection of thionine on aggregated gold nanoparticles by surface enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 568-573.	2.5	49
112	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
113	Photochemical transformation of the insensitive munitions compound 2,4-dinitroanisole. <i>Science of the Total Environment</i> , 2013, 443, 692-699.	8.0	49
114	Perchlorate Production by Photodecomposition of Aqueous Chlorine Solutions. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11635-11643.	10.0	48
115	Photochemical Oxidation of Dissolved Elemental Mercury by Carbonate Radicals in Water. <i>Environmental Science and Technology Letters</i> , 2014, 1, 499-503.	8.7	48
116	Determination of thiol functional groups on bacteria and natural organic matter in environmental systems. <i>Talanta</i> , 2014, 119, 240-247.	5.5	45
117	Increased Methylmercury Accumulation in Rice after Straw Amendment. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6144-6153.	10.0	45
118	Dissolution of Technetium(IV) Oxide by Natural and Synthetic Organic Ligands under both Reducing and Oxidizing Conditions. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4771-4777.	10.0	44
119	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.	5.3	44
120	Microtopographic and depth controls on active layer chemistry in Arctic polygonal ground. <i>Geophysical Research Letters</i> , 2015, 42, 1808-1817.	4.0	44
121	Identification of Multiple Mercury Sources to Stream Sediments near Oak Ridge, TN, USA. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3666-3674.	10.0	43
122	Identification of Mercury and Dissolved Organic Matter Complexes Using Ultrahigh Resolution Mass Spectrometry. <i>Environmental Science and Technology Letters</i> , 2017, 4, 59-65.	8.7	43
123	Influence of Structural Defects on Biomineralized ZnS Nanoparticle Dissolution: An in-Situ Electron Microscopy Study. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1139-1149.	10.0	42
124	Pathways of anaerobic organic matter decomposition in tundra soils from Barrow, Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2345-2359.	3.0	41
125	Evaluation of geochemical processes affecting groundwater chemistry based on mass balance approach: A case study in Namwon, Korea. <i>Geochemical Journal</i> , 2005, 39, 357-369.	1.0	41
126	Microbial Communities Associated with Methylmercury Degradation in Paddy Soils. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7952-7960.	10.0	40



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127	Comment on "Perchlorate Identification in Fertilizers" and the Subsequent Addition/Correction. <i>Environmental Science &amp; Technology</i> , 2000, 34, 4452-4453.	10.0	38
128	Impact of Sample Preparation on Mineralogical Analysis of Zero-Valent Iron Reactive Barrier Materials. <i>Journal of Environmental Quality</i> , 2003, 32, 1299-1305.	2.0	38
129	Ab initio study on noncompensated CrO codoping of GaN for enhanced solar energy conversion. <i>Journal of Chemical Physics</i> , 2010, 132, 104501.	3.0	38
130	Comparing Cr, and N only doping with (Cr, N)-codoping for enhancing visible light reactivity of TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2011, 110, 148-153.	20.2	37
131	Survey of bottled waters for perchlorate by electrospray ionization mass spectrometry (ESI-MS) and ion chromatography (IC). <i>Journal of the Science of Food and Agriculture</i> , 2000, 80, 1798-1804.	3.5	36
132	One-dimensional arrays of nanoshell dimers for single molecule spectroscopy via surface-enhanced raman scattering. <i>Journal of Chemical Physics</i> , 2006, 125, 081102.	3.0	36
133	Interactions of Tc(IV) with Humic Substances. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2718-2724.	10.0	36
134	Cysteine Inhibits Mercury Methylation by <i>Geobacter sulfurreducens</i> PCA Mutant $\Delta$ omcBESTZ. <i>Environmental Science and Technology Letters</i> , 2015, 2, 144-148.	8.7	36
135	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.	3.5	36
136	Molecular Dynamics Simulation of the Structures, Dynamics, and Aggregation of Dissolved Organic Matter. <i>Environmental Science &amp; Technology</i> , 2020, 54, 13527-13537.	10.0	36
137	Stepwise Reduction Approach Reveals Mercury Competitive Binding and Exchange Reactions within Natural Organic Matter and Mixed Organic Ligands. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10685-10694.	10.0	35
138	The Chemistry of Perchlorate in the Environment. , 2006, , 17-47.		34
139	Fractionation of stable isotopes in perchlorate and nitrate during in situ biodegradation in a sandy aquifer. <i>Environmental Chemistry</i> , 2009, 6, 44.	1.5	34
140	Impacts of temperature and soil characteristics on methane production and oxidation in Arctic tundra. <i>Biogeosciences</i> , 2018, 15, 6621-6635.	3.3	33
141	Mercury Uptake by <i>Desulfovibrio desulfuricans</i> ND132: Passive or Active?. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6264-6272.	10.0	33
142	The Interaction of Polysaccharides with Silver Hill Illite. <i>Clays and Clay Minerals</i> , 1992, 40, 151-156.	1.3	32
143	New Surface-Enhanced Raman Spectroscopy Substrates via Self-Assembly of Silver Nanoparticles for Perchlorate Detection in Water. <i>Applied Spectroscopy</i> , 2005, 59, 1509-1515.	2.2	32
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