

Shaofeng Wang

List of Publications by Year in descending order

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115
papers

4,091
citations

136740

32
h-index

128067

60
g-index

116
all docs

116
docs citations

116
times ranked

3069
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of surface precipitation of ferric molybdate on ferrihydrite: Implication for the mobility and fate of molybdate in natural and hydrometallurgical environments. <i>Science of the Total Environment</i> , 2022, 807, 150749.	3.9	2
2	Molecular structures of dissolved and colloidal As(V)-Fe(III) complexes and their roles in the mobilization of As(V) under strongly acidic conditions. <i>Journal of Hazardous Materials</i> , 2022, 430, 128266.	6.5	3
3	A novel method for in situ stabilization of calcium arsenic residues via yukonite formation. <i>Science of the Total Environment</i> , 2022, 819, 153090.	3.9	9
4	The fate of co-existent cadmium and arsenic during Fe(II)-induced transformation of As(V)/Cd(II)-bearing ferrihydrite. <i>Chemosphere</i> , 2022, 301, 134665.	4.2	23
5	Effect of pH on oxygen-induced abio-oxidation and removal of As from As-rich acid mine drainage in the co-existence of Zn(II). <i>Applied Geochemistry</i> , 2022, 140, 105298.	1.4	1
6	Insight into the effect of SO ₄ ²⁻ on the precipitation and solubility of ferric arsenate in acidic solutions: Implication for arsenic mobility and fate. <i>Chemical Geology</i> , 2022, 602, 120900.	1.4	6
7	Arsenite oxidation and (thio)arsenates formation in arsenite- and sulfide-containing solution under air atmosphere. <i>Applied Geochemistry</i> , 2022, 142, 105344.	1.4	3
8	Application of the RUSLE for Determining Riverine Heavy Metal Flux in the Upper Pearl River Basin, China. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 106, 24-32.	1.3	3
9	A combined abiotic oxidation-precipitation process for rapid As removal from high-As(III)-Mn(II) acid mine drainage and low As-leaching solid products. <i>Journal of Hazardous Materials</i> , 2021, 401, 123360.	6.5	10
10	An alternative method for the treatment of metallurgical arsenic-alkali residue and recovery of high-purity sodium bicarbonate. <i>Hydrometallurgy</i> , 2021, 202, 105590.	1.8	9
11	Oxidation and incorporation of adsorbed antimonite during iron(II)-catalyzed recrystallization of ferrihydrite. <i>Science of the Total Environment</i> , 2021, 778, 146424.	3.9	11
12	The adsorption of As(V) on poorly crystalline Fe oxyhydroxides, revisited: Effect of the reaction media and the drying treatment. <i>Journal of Hazardous Materials</i> , 2021, 416, 125863.	6.5	15
13	Phase transformation of hydrous ferric arsenate in the presence of Fe(II) under anaerobic conditions: Implications for arsenic mobility and fate in natural and anthropogenic environments. <i>Chemical Geology</i> , 2021, 578, 120321.	1.4	9
14	Arsenic removal from hydrometallurgical waste sulfuric acid via scorodite formation using siderite (FeCO ₃). <i>Chemical Engineering Journal</i> , 2021, 424, 130552.	6.6	13
15	The effects of pH, neutralizing reagent and co-ions on Mo(VI) removal and speciation in Fe(III)-Mo(VI) coprecipitation process. <i>Applied Geochemistry</i> , 2021, 134, 105091.	1.4	5
16	Partitioning and transformation behavior of arsenic during Fe(III)-As(III)-As(V)-SO ₄ ²⁻ coprecipitation and subsequent aging process in acidic solutions: Implication for arsenic mobility and fixation. <i>Science of the Total Environment</i> , 2021, 799, 149474.	3.9	7
17	Molecular Structure of Molybdate Adsorption on Goethite at pH 5-8: A Combined DFT + U, EXAFS, and Ab Initio XANES Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22052-22063.	1.5	2
18	Effect of co-existent Al(III) in As-rich Acid Mine Drainage (AMD) on As removal during Fe(II) and As(III) abiotic oxidation process. <i>Journal of Water Process Engineering</i> , 2021, 44, 102395.	2.6	4

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19	Biotic and Abiotic Controls on Dinitrogen Production in Coastal Sediments. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007069.	1.9	5
20	Stabilization and transformation of selenium during the Fe(II)-induced transformation of Se(IV)-adsorbed ferrihydrite under anaerobic conditions. <i>Journal of Hazardous Materials</i> , 2020, 384, 121365.	6.5	16
21	Characterization of Fe ₅ (AsO ₃) ₃ Cl ₂ (OH) ₄ ·5H ₂ O, a new ferric arsenite hydroxychloride precipitated from FeCl ₃ ·As ₂ O ₃ ·HCl solutions relevant to arsenic immobilization. <i>Journal of Environmental Sciences</i> , 2020, 90, 205-215.	3.2	12
22	Simultaneous oxidation and removal of Sb(III) from water by using synthesized CTAB/MnFe ₂ O ₄ /MnO ₂ composite. <i>Chemosphere</i> , 2020, 245, 125601.	4.2	32
23	Abiotic anoxic reduction of AsO ₄ adsorbed Mg(II)-Al(III)/Fe(III)-CO ₃ /SO ₄ Layered Double Hydroxides: Implications of As release and phase transformations. <i>Applied Geochemistry</i> , 2020, 122, 104765.	1.4	3
24	Further insights into the Fe(II) reduction of 2-line ferrihydrite: a semi <i>in situ</i> and <i>in situ</i> TEM study. <i>Nanoscale Advances</i> , 2020, 2, 4938-4950.	2.2	5
25	Lanthanum hydroxide: a highly efficient and selective adsorbent for arsenate removal from aqueous solution. <i>Environmental Science and Pollution Research</i> , 2020, 27, 42868-42880.	2.7	28
26	The effect of iron reduction on the long-term stability of scorodite in the presence of enolic hydroxyl groups and mineral transformation. <i>Applied Geochemistry</i> , 2020, 122, 104730.	1.4	5
27	Alternative Method for the Treatment of Hydrometallurgical Arsenic-Calcium Residues: The Immobilization of Arsenic as Scorodite. <i>ACS Omega</i> , 2020, 5, 12979-12988.	1.6	19
28	Incorporation of trace metals Cu, Zn, and Cd into gypsum: Implication on their mobility and fate in natural and anthropogenic environments. <i>Chemical Geology</i> , 2020, 541, 119574.	1.4	13
29	Sequestration of Selenite and Selenate in Gypsum (CaSO ₄ ·2H ₂ O): Insights from the Single-Crystal Electron Paramagnetic Resonance Spectroscopy and Synchrotron X-ray Absorption Spectroscopy Study. <i>Environmental Science & Technology</i> , 2020, 54, 3169-3180.	4.6	27
30	Detoxification and reclamation of hydrometallurgical arsenic- and trace metals-bearing gypsum via hydrothermal recrystallization in acid solution. <i>Chemosphere</i> , 2020, 250, 126290.	4.2	20
31	Fate of arsenic during up to 4.5 years of aging of Fe(III)-As(V) coprecipitates at acidic pH: Effect of reaction media (Nitrate vs. Sulfate), Fe/As molar ratio, and pH. <i>Chemical Engineering Journal</i> , 2020, 388, 124239.	6.6	12
32	Simultaneous removal and oxidation of arsenic from water by γ-MnO ₂ modified activated carbon. <i>Journal of Environmental Sciences</i> , 2020, 94, 147-160.	3.2	43
33	Long-term stability of the Fe(III)-As(V) coprecipitates: Effects of neutralization mode and the addition of Fe(II) on arsenic retention. <i>Chemosphere</i> , 2019, 237, 124503.	4.2	14
34	Arsenic redistribution and transformation during Fe(II)-catalyzed recrystallization of As-adsorbed ferrihydrite under anaerobic conditions. <i>Chemical Geology</i> , 2019, 525, 380-389.	1.4	46
35	A new and improved synthesis method for the formation of ZnFe-CO ₃ and ZnFe-SO ₄ Hydrotalcites free from impurities. <i>Applied Clay Science</i> , 2019, 181, 105215.	2.6	8
36	Accurate determination of the As coordination environment at the surface of ferrihydrite using synchrotron extended X-ray absorption fine structure spectroscopy and <i>ab initio</i> Debye-Waller factors. <i>Environmental Science: Nano</i> , 2019, 6, 2441-2451.	2.2	7

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37	Rapid abiotic As removal from As-rich acid mine drainage: Effect of pH, Fe/As molar ratio, oxygen, temperature, initial As concentration and neutralization reagent. <i>Chemical Engineering Journal</i> , 2019, 378, 122156.	6.6	23
38	Molecular speciation of phosphorus in phosphogypsum waste by solid-state nuclear magnetic resonance spectroscopy. <i>Science of the Total Environment</i> , 2019, 696, 133958.	3.9	17
39	Adsorption and transformation of thioarsenite at hematite/water interface under anaerobic condition in the presence of sulfide. <i>Chemosphere</i> , 2019, 222, 422-430.	4.2	10
40	Mechanism of Gd ³⁺ uptake in gypsum (CaSO ₄ ·2H ₂ O): Implications for EPR dating, REE recovery and REE behavior. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 258, 63-78.	1.6	13
41	Fate of adsorbed arsenic during early stage sulfidization of nano-ferrihydrite. <i>Environmental Science: Nano</i> , 2019, 6, 2228-2240.	2.2	8
42	Surface Sorption Site and Complexation Structure of Ca ²⁺ at the Goethite-Water Interface: A Molecular Dynamics Simulation and Quantitative XANES Analysis. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 103, 64-68.	1.3	5
43	The long-term stability of calcium arsenates: Implications for phase transformation and arsenic mobilization. <i>Journal of Environmental Sciences</i> , 2019, 84, 29-41.	3.2	27
44	The long-term stability of Fe(III)-As(V) coprecipitates at pH 4 and 7: Mechanisms controlling the arsenic behavior. <i>Journal of Hazardous Materials</i> , 2019, 374, 276-286.	6.5	25
45	Digestive solubilization of particle-associated arsenate by deposit-feeders: The roles of proteinaceous and surfactant materials. <i>Environmental Pollution</i> , 2019, 248, 980-988.	3.7	1
46	Giving waterbodies the treatment they need: A critical review of the application of constructed floating wetlands. <i>Journal of Environmental Management</i> , 2019, 238, 484-498.	3.8	82
47	Stabilization of Scorodite by Aluminum Silicate Microencapsulation. <i>Journal of Environmental Engineering, ASCE</i> , 2019, 145, .	0.7	10
48	The stability of Fe(III)-As(V) co-precipitate in the presence of ascorbic acid: Effect of pH and Fe/As molar ratio. <i>Chemosphere</i> , 2019, 218, 670-679.	4.2	20
49	A novel method for preparing an As(V) solution for scorodite synthesis from an arsenic sulphide residue in a Pb refinery. <i>Hydrometallurgy</i> , 2019, 183, 1-8.	1.8	25
50	Occurrence state of co-existing arsenate and nickel ions at the ferrihydrite-water interface: Mechanisms of surface complexation and surface precipitation via ATR-IR spectroscopy. <i>Chemosphere</i> , 2018, 206, 33-42.	4.2	17
51	The Transformation of Two-Line Ferrihydrite into Crystalline Products: Effect of pH and Media (Sulfate versus Nitrate). <i>ACS Earth and Space Chemistry</i> , 2018, 2, 577-587.	1.2	38
52	Arsenic release and speciation during the oxidative dissolution of arsenopyrite by O ₂ in the absence and presence of EDTA. <i>Journal of Hazardous Materials</i> , 2018, 346, 184-190.	6.5	25
53	Co-adsorption of arsenite and arsenate on mixed-valence Fe(II,III) (hydr)oxides under reducing conditions. <i>Applied Geochemistry</i> , 2018, 98, 418-425.	1.4	13
54	The adsorption behavior of thioarsenite on magnetite and ferrous sulfide. <i>Chemical Geology</i> , 2018, 492, 1-11.	1.4	17

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55	Effect of hydroquinone-induced iron reduction on the stability of Fe(III)-As(V) Co-precipitate and arsenic mobilization. <i>Applied Geochemistry</i> , 2018, 97, 1-10.	1.4	8
56	Arsenic associated with gypsum produced from Fe(III)-As(V) coprecipitation: Implications for the stability of industrial As-bearing waste. <i>Journal of Hazardous Materials</i> , 2018, 360, 311-318.	6.5	31
57	Effects of pore size and dissolved organic matters on diffusion of arsenate in aqueous solution. <i>Journal of Environmental Sciences</i> , 2017, 52, 190-196.	3.2	4
58	The Effects of Solution Concentration, Drying, Aging Time, and Mixture of Goethite with As(V)-Fe(OH) ₃ on the Chemical Extraction of Arsenate Associated with Iron (Hydr)oxides. <i>Environmental Engineering Science</i> , 2017, 34, 443-452.	0.8	5
59	Assessment of metal contamination in the Hun River, China, and evaluation of the fish <i>Zacco platypus</i> and the snail <i>Radix swinhoei</i> as potential biomonitors. <i>Environmental Science and Pollution Research</i> , 2017, 24, 6512-6522.	2.7	7
60	Spectroscopic and DFT study on the species and local structure of arsenate incorporated in gypsum lattice. <i>Chemical Geology</i> , 2017, 460, 46-53.	1.4	26
61	Effect of iron reduction by enolic hydroxyl groups on the stability of scorodite in hydrometallurgical industries and arsenic mobilization. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26534-26544.	2.7	6
62	Effect of sulfide on As(III) and As(V) sequestration by ferrihydrite. <i>Chemosphere</i> , 2017, 185, 321-328.	4.2	21
63	A qualitative and quantitative investigation of partitioning and local structure of arsenate in barite lattice during coprecipitation of barium, sulfate, and arsenate. <i>American Mineralogist</i> , 2017, 102, 2512-2520.	0.9	14
64	Adsorption Behavior and Removal Mechanism of Arsenic from Water by Fe(III)-Modified 13X Molecular Sieves. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	10
65	Effect of hydroquinone-induced iron reduction on the stability of scorodite and arsenic mobilization. <i>Hydrometallurgy</i> , 2016, 164, 228-237.	1.8	33
66	New Insight into the Local Structure of Hydrrous Ferric Arsenate Using Full-Potential Multiple Scattering Analysis, Density Functional Theory Calculations, and Vibrational Spectroscopy. <i>Environmental Science & Technology</i> , 2016, 50, 12114-12121.	4.6	24
67	The effect of microbial sulfidogenesis on the stability of As-Fe coprecipitate with low Fe/As molar ratio under anaerobic conditions. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7267-7277.	2.7	10
68	Speciation change and redistribution of arsenic in soil under anaerobic microbial activities. <i>Journal of Hazardous Materials</i> , 2016, 301, 538-546.	6.5	51
69	Adsorption of monothioarsenate on amorphous aluminum hydroxide under anaerobic conditions. <i>Chemical Geology</i> , 2015, 407-408, 46-53.	1.4	25
70	Incorporation of arsenic into gypsum: Relevant to arsenic removal and immobilization process in hydrometallurgical industry. <i>Journal of Hazardous Materials</i> , 2015, 300, 272-280.	6.5	80
71	Effects of nutrient and sulfate additions on As mobility in contaminated soils: A laboratory column study. <i>Chemosphere</i> , 2015, 119, 902-909.	4.2	29
72	Preparation and characterization of sulfur-modified mesoporous titania photocatalyst. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 1300-1305.	0.1	2

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73	Physical properties of nano-titania hollow fibers and their photocatalytic activity in the decomposition of phenol. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 69-73.	0.1	9
74	Spatial and seasonal variations in soil and river water mercury in a boreal forest, Changbai Mountain, Northeastern China. <i>Geoderma</i> , 2013, 206, 123-132.	2.3	21
75	Photocatalytic degradation of methylene blue by visible-light-driven yttrium-doped mesoporous titania coated magnetite photocatalyst. <i>Desalination and Water Treatment</i> , 2013, 51, 7101-7108.	1.0	5
76	Effects of sediment composition on cadmium bioaccumulation in the clam <i>Meretrix meretrix</i> Linnaeus. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 841-847.	2.2	5
77	Bioaccumulation and trophic transfer of mercury in a food web from a large, shallow, hypereutrophic lake (Lake Taihu) in China. <i>Environmental Science and Pollution Research</i> , 2012, 19, 2820-2831.	2.7	31
78	The distribution of total mercury and methyl mercury in a shallow hypereutrophic lake (Lake Taihu) in two seasons. <i>Applied Geochemistry</i> , 2012, 27, 343-351.	1.4	39
79	Arsenic retention and remobilization in muddy sediments with high iron and sulfur contents from a heavily contaminated estuary in China. <i>Chemical Geology</i> , 2012, 314-317, 57-65.	1.4	48
80	Mercury pollution in Wuchuan mercury mining area, Guizhou, Southwestern China: The impacts from large scale and artisanal mercury mining. <i>Environment International</i> , 2012, 42, 59-66.	4.8	71
81	Photocatalytic Activity of Fe and Ce Co-doped Mesoporous TiO ₂ Catalyst under UV and Visible Light. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 614-620.	0.8	20
82	Bacterial reduction and release of adsorbed arsenate on Fe(III)-, Al- and coprecipitated Fe(III)/Al-hydroxides. <i>Journal of Environmental Sciences</i> , 2012, 24, 440-448.	3.2	23
83	A review of studies on atmospheric mercury in China. <i>Science of the Total Environment</i> , 2012, 421-422, 73-81.	3.9	188
84	Comparison of mercury speciation and distribution in the water column and sediments between the algal type zone and the macrophytic type zone in a hypereutrophic lake (Dianchi Lake) in Southwestern China. <i>Science of the Total Environment</i> , 2012, 417-418, 204-213.	3.9	28
85	Notice of Retraction: Comparison of Density Fractions of Heavy Metals (As, Cd, Cu and Pb) in Sediments Collected from Two Estuaries of Liaodong Gulf, China. , 2011, , .		0
86	Transformation of arsenic in offshore sediment under the impact of anaerobic microbial activities. <i>Water Research</i> , 2011, 45, 6781-6788.	5.3	67
87	Fractionation of heavy metals in shallow marine sediments from Jinzhou Bay, China. <i>Journal of Environmental Sciences</i> , 2010, 22, 23-31.	3.2	127
88	Temporal and spatial distributions of total gaseous mercury concentrations in ambient air in a mountainous area in southwestern China: Implications for industrial and domestic mercury emissions in remote areas in China. <i>Science of the Total Environment</i> , 2009, 407, 2306-2314.	3.9	67
89	Mercury distribution and speciation in water and fish from abandoned Hg mines in Wanshan, Guizhou province, China. <i>Science of the Total Environment</i> , 2009, 407, 5162-5168.	3.9	76
90	Atmospheric mercury emission from artisanal mercury mining in Guizhou Province, Southwestern China. <i>Atmospheric Environment</i> , 2009, 43, 2247-2251.	1.9	47

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91	Total mercury and monomethylmercury in water, sediments, and hydrophytes from the rivers, estuary, and bay along the Bohai Sea coast, northeastern China. <i>Applied Geochemistry</i> , 2009, 24, 1702-1711.	1.4	93
92	Total gaseous mercury concentrations in ambient air in the eastern slope of Mt. Gongga, South-Eastern fringe of the Tibetan plateau, China. <i>Atmospheric Environment</i> , 2008, 42, 970-979.	1.9	126
93	Mercury exposure in the population from Wuchuan mercury mining area, Guizhou, China. <i>Science of the Total Environment</i> , 2008, 395, 72-79.	3.9	92
94	The variations of mercury in sediment profiles from a historically mercury-contaminated reservoir, Guizhou province, China. <i>Science of the Total Environment</i> , 2008, 407, 497-506.	3.9	48
95	Total gaseous mercury exchange between water and air during cloudy weather conditions over Hongfeng Reservoir, Guizhou, China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
96	Total particulate and reactive gaseous mercury in ambient air on the eastern slope of the Mt. Gongga area, China. <i>Applied Geochemistry</i> , 2008, 23, 408-418.	1.4	82
97	Exchange fluxes of Hg between surfaces and atmosphere in the eastern flank of Mount Gongga, Sichuan province, southwestern China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	52
98	Methylmercury Accumulation in Rice (<i>Oryza sativa</i> L.) Grown at Abandoned Mercury Mines in Guizhou, China. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 2465-2468.	2.4	226
99	Human Exposure To Methylmercury through Rice Intake in Mercury Mining Areas, Guizhou Province, China. <i>Environmental Science & Technology</i> , 2008, 42, 326-332.	4.6	394
100	Characteristics of mercury exchange flux between soil and air in the heavily air-polluted area, eastern Guizhou, China. <i>Atmospheric Environment</i> , 2007, 41, 5584-5594.	1.9	90
101	Mercury concentrations and air/soil fluxes in Wuchuan mercury mining district, Guizhou province, China. <i>Atmospheric Environment</i> , 2007, 41, 5984-5993.	1.9	56
102	Environmental contamination of mercury from Hg-mining areas in Wuchuan, northeastern Guizhou, China. <i>Environmental Pollution</i> , 2006, 142, 549-558.	3.7	162
103	Must mercury enriched substrate be atmospheric mercury sources?. <i>Diqiu Huaxue</i> , 2006, 25, 27-27.	0.5	0
104	Distribution and speciation of mercury in surface water in Wanshan Hg-mined areas, Guizhou Province, China. <i>Diqiu Huaxue</i> , 2006, 25, 28-28.	0.5	0
105	PCBs and OCPs in sediments from Hongfeng Reservoir in Guizhou Province, China. <i>Diqiu Huaxue</i> , 2006, 25, 69-70.	0.5	1
106	Mercury emission from the indigenous mercury smelting in Wuchuan mercury mining areas, Guizhou Province, China. <i>Diqiu Huaxue</i> , 2006, 25, 235-235.	0.5	0
107	Different mercury species in the atmosphere over the municipal solid waste landfills. <i>Diqiu Huaxue</i> , 2006, 25, 238-238.	0.5	0
108	Total gaseous mercury emissions from mercury-enriched soil in Guizhou, China. <i>Diqiu Huaxue</i> , 2006, 25, 243-244.	0.5	0

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109	Mercury contaminations from historic mining to water, soil and vegetation in Lanmuchang, Guizhou, southwestern China. <i>Science of the Total Environment</i> , 2006, 368, 56-68.	3.9	72
110	Degradation of organic matter in the sediments of Hongfeng Reservoir. <i>Science Bulletin</i> , 2005, 50, 2377-2380.	1.7	10
111	Mercury and methylmercury in riparian soil, sediments, mine-waste calcines, and moss from abandoned Hg mines in east Guizhou province, southwestern China. <i>Applied Geochemistry</i> , 2005, 20, 627-638.	1.4	212
112	Total gaseous mercury emissions from soil in Guiyang, Guizhou, China. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	79
113	Seasonal variation of gaseous mercury exchange rate between air and water surface over Baihua reservoir, Guizhou, China. <i>Atmospheric Environment</i> , 2004, 38, 4721-4732.	1.9	78
114	Temporal variation of total gaseous mercury in the air of Guiyang, China. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	109
115	Removal of As(V) and As(III) species from wastewater by adsorption on coal fly ash. , 0, 151, 242-250.		4