

Xiaoguang Meng

List of Publications by Year in descending order

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116
papers

7,936
citations

57758

44
h-index

49909

87
g-index

116
all docs

116
docs citations

116
times ranked

7654
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of silicate, sulfate, and carbonate on arsenic removal by ferric chloride. <i>Water Research</i> , 2000, 34, 1255-1261.	11.3	503
2	Utilization of fly ash for stabilization/solidification of heavy metal contaminated soils. <i>Engineering Geology</i> , 2003, 70, 377-394.	6.3	456
3	Biosorption mechanism of nine different heavy metals onto biomatrix from rice husk. <i>Journal of Hazardous Materials</i> , 2008, 153, 1222-1234.	12.4	455
4	Adsorption of As(V) and As(III) by nanocrystalline titanium dioxide. <i>Water Research</i> , 2005, 39, 2327-2337.	11.3	432
5	Adsorption Mechanism of Arsenic on Nanocrystalline Titanium Dioxide. <i>Environmental Science & Technology</i> , 2006, 40, 1257-1262.	10.0	425
6	Combined effects of anions on arsenic removal by iron hydroxides. <i>Toxicology Letters</i> , 2002, 133, 103-111.	0.8	338
7	Application of titanium dioxide in arsenic removal from water: A review. <i>Journal of Hazardous Materials</i> , 2012, 215-216, 1-16.	12.4	320
8	Removal of arsenic from groundwater by granular titanium dioxide adsorbent. <i>Chemosphere</i> , 2005, 60, 389-397.	8.2	269
9	Chemical reactions between arsenic and zero-valent iron in water. <i>Water Research</i> , 2005, 39, 763-770.	11.3	248
10	Carbonate Effects on Hexavalent Uranium Adsorption by Iron Oxyhydroxide. <i>Environmental Science & Technology</i> , 2003, 37, 3619-3624.	10.0	247
11	Treatment of arsenic in Bangladesh well water using a household co-precipitation and filtration system. <i>Water Research</i> , 2001, 35, 2805-2810.	11.3	241
12	Removal of arsenic from water by zero-valent iron. <i>Journal of Hazardous Materials</i> , 2005, 121, 61-67.	12.4	204
13	Redox Transformations of Arsenic and Iron in Water Treatment Sludge during Aging and TCLP Extraction. <i>Environmental Science & Technology</i> , 2001, 35, 3476-3481.	10.0	137
14	Effect of Weak Magnetic Field on Arsenate and Arsenite Removal from Water by Zerovalent Iron: An XAFS Investigation. <i>Environmental Science & Technology</i> , 2014, 48, 6850-6858.	10.0	132
15	Surface complexation of organic arsenic on nanocrystalline titanium oxide. <i>Journal of Colloid and Interface Science</i> , 2005, 290, 14-21.	9.4	119
16	La ³⁺ -modified activated alumina for fluoride removal from water. <i>Journal of Hazardous Materials</i> , 2014, 278, 343-349.	12.4	116
17	Perchlorate adsorption and desorption on activated carbon and anion exchange resin. <i>Journal of Hazardous Materials</i> , 2009, 164, 87-94.	12.4	111
18	An evaluation of arsenic release from monolithic solids using a modified semi-dynamic leaching test. <i>Journal of Hazardous Materials</i> , 2004, 116, 25-38.	12.4	96

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19	Immobilization Mechanisms of Arsenate in Iron Hydroxide Sludge Stabilized with Cement. <i>Environmental Science & Technology</i> , 2003, 37, 5050-5056.	10.0	91
20	Arsenic Leachability in Water Treatment Adsorbents. <i>Environmental Science & Technology</i> , 2005, 39, 5481-5487.	10.0	91
21	Chromate removal by electrospun PVA/PEI nanofibers: Adsorption, reduction, and effects of co-existing ions. <i>Chemical Engineering Journal</i> , 2020, 387, 124179.	12.7	88
22	Effect of component oxide interaction on the adsorption properties of mixed oxides. <i>Environmental Science & Technology</i> , 1993, 27, 970-975.	10.0	81
23	SERS detection of arsenic in water: A review. <i>Journal of Environmental Sciences</i> , 2015, 36, 152-162.	6.1	80
24	Perchlorate removal by quaternary amine modified reed. <i>Journal of Hazardous Materials</i> , 2011, 189, 54-61.	12.4	77
25	Mechanisms of Photocatalytic Degradation of Monomethylarsonic and Dimethylarsinic Acids Using Nanocrystalline Titanium Dioxide. <i>Environmental Science & Technology</i> , 2008, 42, 2349-2354.	10.0	76
26	Carbonate effects on hexavalent uranium removal from water by nanocrystalline titanium dioxide. <i>Journal of Hazardous Materials</i> , 2006, 136, 47-52.	12.4	69
27	Boosted photocatalytic degradation of Rhodamine B pollutants with Z-scheme CdS/AgBr-rGO nanocomposite. <i>Applied Surface Science</i> , 2020, 502, 144275.	6.1	68
28	Kinetics of biological perchlorate reduction and pH effect. <i>Journal of Hazardous Materials</i> , 2008, 153, 663-669.	12.4	65
29	Decolorization of Methyl Orange by a new clay-supported nanoscale zero-valent iron: Synergetic effect, efficiency optimization and mechanism. <i>Journal of Environmental Sciences</i> , 2017, 52, 8-17.	6.1	65
30	Lead leachability in stabilized/solidified soil samples evaluated with different leaching tests. <i>Journal of Hazardous Materials</i> , 2004, 114, 101-110.	12.4	64
31	Adsorptive filtration of lead by electrospun PVA/PAA nanofiber membranes in a fixed-bed column. <i>Chemical Engineering Journal</i> , 2019, 370, 1262-1273.	12.7	61
32	Remediation of organic and inorganic arsenic contaminated groundwater using a nanocrystalline TiO ₂ -based adsorbent. <i>Environmental Pollution</i> , 2009, 157, 2514-2519.	7.5	59
33	Removal of depleted uranium from contaminated soils. <i>Journal of Hazardous Materials</i> , 2006, 136, 53-60.	12.4	58
34	Leaching behavior of Cr(III) in stabilized/solidified soil. <i>Chemosphere</i> , 2006, 64, 379-385.	8.2	56
35	Challenges of arsenic removal from municipal wastewater by coagulation with ferric chloride and alum. <i>Science of the Total Environment</i> , 2020, 725, 138351.	8.0	56
36	Surface-enhanced Raman spectroscopy of arsenate and arsenite using Ag nanofilm prepared by modified mirror reaction. <i>Journal of Colloid and Interface Science</i> , 2010, 347, 90-95.	9.4	54

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37	Removal of selenocyanate from water using elemental iron. <i>Water Research</i> , 2002, 36, 3867-3873.	11.3	53
38	Enhanced removal of arsenite from water by a mesoporous hybrid material " Thiol-functionalized silica coated activated alumina. <i>Microporous and Mesoporous Materials</i> , 2009, 124, 1-7.	4.4	52
39	Immobilization of mercury(II) in contaminated soil with used tire rubber. <i>Journal of Hazardous Materials</i> , 1998, 57, 231-241.	12.4	49
40	Performance of a Household-Level Arsenic Removal System during 4-Month Deployments in Bangladesh. <i>Environmental Science & Technology</i> , 2004, 38, 3442-3448.	10.0	49
41	Size effects of nanocrystalline TiO ₂ on As(V) and As(III) adsorption and As(III) photooxidation. <i>Journal of Hazardous Materials</i> , 2009, 168, 747-752.	12.4	48
42	Effects of monovalent and divalent metal cations on the aggregation and suspension of Fe ₃ O ₄ magnetic nanoparticles in aqueous solution. <i>Science of the Total Environment</i> , 2017, 586, 817-826.	8.0	46
43	Effect of Arsenic on the Formation and Adsorption Property of Ferric Hydroxide Precipitates in ZVI Treatment. <i>Environmental Science & Technology</i> , 2017, 51, 10100-10108.	10.0	46
44	Modeling ion adsorption on aluminum hydroxide-modified silica. <i>Environmental Science & Technology</i> , 1993, 27, 1924-1929.	10.0	45
45	Preparation and evaluation of thiol-functionalized activated alumina for arsenite removal from water. <i>Journal of Hazardous Materials</i> , 2009, 167, 1215-1221.	12.4	45
46	Fluoride removal by Al, Ti, and Fe hydroxides and coexisting ion effect. <i>Journal of Environmental Sciences</i> , 2017, 57, 190-195.	6.1	45
47	Mechanistic Study of Lead Adsorption on Activated Carbon. <i>Langmuir</i> , 2018, 34, 13565-13573.	3.5	43
48	Competing Interactions of As Adsorption and Fe(III) Polymerization during Ferric Coprecipitation Treatment. <i>Environmental Science & Technology</i> , 2018, 52, 7343-7350.	10.0	43
49	Evaluation of metal oxides and activated carbon for lead removal: Kinetics, isotherms, column tests, and the role of co-existing ions. <i>Science of the Total Environment</i> , 2019, 648, 176-183.	8.0	43
50	Lead immobilization by phosphate in the presence of iron oxides: Adsorption versus precipitation. <i>Water Research</i> , 2020, 179, 115853.	11.3	40
51	Lead and cadmium adsorption by electrospun PVA/PAA nanofibers: Batch, spectroscopic, and modeling study. <i>Chemosphere</i> , 2019, 233, 405-413.	8.2	39
52	Influence of sulfur on the mobility of arsenic and antimony during oxic-anoxic cycles: Differences and competition. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 288, 51-67.	3.9	38
53	Detoxification of chromium (VI) in coastal water using lignocellulosic agricultural waste. <i>Water S A</i> , 2004, 30, 541.	0.4	36
54	Surface-Enhanced Raman Scattering Spectroscopy of Explosive 2,4-Dinitroanisole using Modified Silver Nanoparticles. <i>Langmuir</i> , 2011, 27, 13773-13779.	3.5	36

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55	Direct two-phase interfacial self-assembly of aligned silver nanowire films for surface enhanced Raman scattering applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13496.	10.3	35
56	Bioregeneration of Spent Anion Exchange Resin for Treatment of Nitrate in Water. <i>Environmental Science & Technology</i> , 2014, 48, 1541-1548.	10.0	35
57	Surface modification of silver nanofilms for improved perchlorate detection by surface-enhanced Raman scattering. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 51-57.	9.4	34
58	Adsorption and recovery of phosphate from water by amine fiber, effects of co-existing ions and column filtration. <i>Journal of Environmental Sciences</i> , 2020, 87, 123-132.	6.1	31
59	Surface-enhanced Raman scattering for arsenate detection on multilayer silver nanofilms. <i>Analytica Chimica Acta</i> , 2011, 692, 96-102.	5.4	30
60	Surface-enhanced Raman scattering analysis of perchlorate using silver nanofilms deposited on copper foils. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 366, 163-169.	4.7	29
61	Arsenic remobilization in water treatment adsorbents under reducing conditions: Part I. Incubation study. <i>Science of the Total Environment</i> , 2008, 389, 188-194.	8.0	28
62	Fabrication and evolution of multilayer silver nanofilms for surface-enhanced Raman scattering sensing of arsenate. <i>Nanoscale Research Letters</i> , 2011, 6, 263.	5.7	28
63	Modeling cadmium and sulfate adsorption by Fe(OH)3SiO2 mixed oxides. <i>Water Research</i> , 1996, 30, 2148-2154.	11.3	27
64	A novel NLO azothiophene-based chromophore: Synthesis, characterization, thermal stability and optical nonlinearity. <i>Materials Letters</i> , 2008, 62, 973-976.	2.6	27
65	Arsenic leachability and speciation in cement immobilized water treatment sludge. <i>Chemosphere</i> , 2005, 59, 1241-1247.	8.2	26
66	Feasibility and kinetics study on the direct bio-regeneration of perchlorate laden anion-exchange resin. <i>Water Research</i> , 2008, 42, 4619-4628.	11.3	26
67	Effect of phosphate releasing in activated sludge on phosphorus removal from municipal wastewater. <i>Journal of Environmental Sciences</i> , 2018, 67, 216-223.	6.1	26
68	DDT Vertical Migration and Formation of Accumulation Layer in Pesticide-Producing Sites. <i>Environmental Science & Technology</i> , 2015, 49, 9084-9091.	10.0	25
69	Degradation of 3-nitro-1,2,4-triazole-5-one (NTO) in wastewater with UV/H2O2 oxidation. <i>Chemical Engineering Journal</i> , 2018, 354, 481-491.	12.7	25
70	Fate of adsorbed Pb(II) on graphene oxide under variable redox potential controlled by electrochemical method. <i>Journal of Hazardous Materials</i> , 2019, 367, 152-159.	12.4	25
71	A Review of Redox Transformation of Arsenic in Aquatic Environments. <i>ACS Symposium Series</i> , 2002, , 70-83.	0.5	24
72	Bagasse-Assisted Bioremediation of Ammonia from Shrimp Farm Wastewater. <i>Water Environment Research</i> , 2006, 78, 938-950.	2.7	24

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73	Adsorption of Ca ²⁺ on single layer graphene oxide. <i>Journal of Environmental Sciences</i> , 2017, 57, 8-14.	6.1	24
74	Selenium and arsenic removal from water using amine sorbent, competitive adsorption and regeneration. <i>Environmental Pollution</i> , 2021, 274, 115866.	7.5	24
75	Direct Evidence of Arsenic(III)-Carbonate Complexes Obtained Using Electrochemical Scanning Tunneling Microscopy. <i>Analytical Chemistry</i> , 2007, 79, 3615-3622.	6.5	23
76	Fixation of Heavy Metals onto Lignocellulosic Sorbent Prepared from Paddy Straw. <i>Water Environment Research</i> , 2008, 80, 2165-2174.	2.7	23
77	RESEARCH PAPERS : A REVIEW OF ARSENIC INTERACTIONS WITH ANIONS AND IRON HYDROXIDES. <i>Environmental Engineering Research</i> , 2004, 9, 184-192.	2.5	23
78	Modeling, rate-limiting step investigation, and enhancement of the direct bio-regeneration of perchlorate laden anion-exchange resin. <i>Water Research</i> , 2009, 43, 127-136.	11.3	22
79	Detection of 3-nitro-1,2,4-triazol-3-one (NTO) by surface-enhanced Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2012, 63, 390-395.	2.2	20
80	Rapid Ti(III) reduction of perchlorate in the presence of L-alanine: Kinetics, pH effect, complex formation, and L-alanine effect. <i>Journal of Hazardous Materials</i> , 2010, 175, 159-164.	12.4	19
81	Determination of configuration of arsenite-glutathione complexes using ECSTM. <i>Toxicology Letters</i> , 2007, 175, 57-63.	0.8	18
82	Recent advances in SERS detection of perchlorate. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 448-464.	4.4	18
83	Lead removal from water using organic acrylic amine fiber (AAF) and inorganic-organic P-AAF, fixed bed filtration and surface-induced precipitation. <i>Journal of Environmental Sciences</i> , 2021, 101, 135-144.	6.1	18
84	Arsenic re-mobilization in water treatment adsorbents under reducing conditions: Part II. XAS and modeling study. <i>Science of the Total Environment</i> , 2008, 392, 137-144.	8.0	17
85	Characteristics and mechanism of Pb(II) adsorption/desorption on GO/r-GO under sulfide-reducing conditions. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 233-240.	5.8	17
86	Effect of Bonding Interactions between Arsenate and Silver Nanofilm on Surface-Enhanced Raman Scattering Sensitivity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 325-329.	3.1	16
87	Advanced Oxidation Process for DNAN Using UV/H ₂ O ₂ . <i>Engineering</i> , 2019, 5, 849-854.	6.7	16
88	Release and transport of Pb(II) adsorbed on graphene oxide under alkaline conditions in a saturated sand column. <i>Journal of Hazardous Materials</i> , 2019, 377, 357-364.	12.4	16
89	Phosphate recovery from anaerobic digester effluents using CaMg(OH) ₄ . <i>Journal of Environmental Sciences</i> , 2016, 44, 260-268.	6.1	15
90	Phosphorus recovery from wastewater using light calcined magnesite, effects of alkalinity and organic acids. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103334.	6.7	13

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91	The critical role of oxidative debris in the adsorption and desorption of Pb(II) to graphene oxides under alkaline groundwater conditions. <i>Science of the Total Environment</i> , 2020, 704, 135254.	8.0	13
92	Adsorption of perfluorooctane sulfonate on carbonized poly-melamine-formaldehyde sponge. <i>Science of the Total Environment</i> , 2020, 727, 138626.	8.0	13
93	The critical contribution of oxidation debris on the acidic properties of graphene oxide in an aqueous solution. <i>Journal of Hazardous Materials</i> , 2021, 402, 123552.	12.4	13
94	The effects and mechanism of alkalinity on the phosphate recovery from anaerobic digester effluent using dolomite lime. <i>Environmental Earth Sciences</i> , 2015, 73, 5067-5073.	2.7	11
95	Eco-Colloidal Layer of Micro/Nanoplastics Increases Complexity and Uncertainty of Their Biototoxicity in Aquatic Environments. <i>Environmental Science & Technology</i> , 2022, 56, 10547-10549.	10.0	11
96	Effects of soil temperature and agitation on the removal of 1,2-dichloroethane from contaminated soil. <i>Science of the Total Environment</i> , 2012, 423, 185-189.	8.0	10
97	Mechanistic Study of Pb(II) Removal by TiO ₂ and Effect of PO ₄ . <i>Langmuir</i> , 2020, 36, 13918-13927.	3.5	10
98	A comprehensive study of treatment of arsenic in water combining oxidation, coagulation, and filtration. <i>Journal of Environmental Sciences</i> , 2015, 36, 178-180.	6.1	9
99	Surface-enhanced Raman scattering of perchlorate on cationic-modified silver nanofilms " Effect of inorganic anions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1593-1599.	3.9	9
100	Effects and mechanisms of water matrix on surface-enhanced Raman scattering analysis of arsenite on silver nanofilm. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 497, 117-125.	4.7	9
101	Formation of Fe(III)-As(V) complexes: effect on the solubility of ferric hydroxide precipitates and molecular structural identification. <i>Environmental Science: Nano</i> , 2020, 7, 1388-1398.	4.3	9
102	Mechanisms of lead immobilization in treated soils. <i>Land Contamination and Reclamation</i> , 2006, 14, 43-56.	0.4	9
103	Oxidative degradation of nitroguanidine (NQ) by UV-C and oxidants: Hydrogen peroxide, persulfate and peroxymonosulfate. <i>Chemosphere</i> , 2022, 292, 133357.	8.2	8
104	Heavy metals biosorption mechanism of partially delignified products derived from mango (<i>Mangifera</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T 32891-32904.	5.3	7
105	Raw hematite based Fe(III) bio-reduction process for humified landfill leachate treatment. <i>Journal of Hazardous Materials</i> , 2018, 355, 10-16.	12.4	6
106	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) reduction by granular zero-valent iron in continuous flow reactor. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28489-28499.	5.3	6
107	Transformation characteristics of organic pollutants in Fered-Fenton process for dry-spun acrylic fiber wastewater treatment. <i>Water Science and Technology</i> , 2014, 70, 1976-1982.	2.5	5
108	Comment on "Colloidal Properties and Stability of Graphene Oxide Nanomaterials in the Aquatic Environment" <i>Environmental Science & Technology</i> , 2014, 48, 1359-1359.	10.0	5

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109	Surface mole-ratio method to distinguish surface precipitation and adsorption on solid-liquid interface. <i>Journal of Hazardous Materials</i> , 2020, 397, 122781.	12.4	5
110	Spectrophotometric analyses of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in water. <i>Journal of Environmental Sciences</i> , 2015, 33, 39-44.	6.1	4
111	Mechanistic Study of Radium Adsorption onto Goethite. <i>Journal of Physical Chemistry C</i> , 2020, 124, 805-814.	3.1	4
112	Identifying the existence and molecular structure of the dissolved HCO ₃ -Ca-As(V) complex in water. <i>Science of the Total Environment</i> , 2020, 724, 138216.	8.0	3
113	Optimization and analysis of homogenous Fenton process for the treatment of dry-spun acrylic fiber manufacturing wastewater. <i>Desalination and Water Treatment</i> , 0, , 1-8.	1.0	2
114	Release of Pb adsorbed on graphene oxide surfaces under conditions of <i>Shewanella putrefaciens</i> metabolism. <i>Journal of Environmental Sciences</i> , 2022, 118, 67-75.	6.1	2
115	ARSENIC LEACHABILITY IN WATER TREATMENT SLUDGE. <i>Proceedings of the Water Environment Federation</i> , 2003, 2003, 167-177.	0.0	1
116	Advances in Arsenic Research: Introductory Remarks. <i>ACS Symposium Series</i> , 2005, , 1-5.	0.5	1