Jiin-Shuh Jean

List of Publications by Year
in descending order

109 papers	5,323 citations	87723 38 h-index	91712 69 g-index
114 all docs	114 docs citations	114 times ranked	6340 citing authors

#	Article	IF	Citations
1	One century of arsenic exposure in Latin America: A review of history and occurrence from 14 countries. Science of the Total Environment, 2012, 429, 2-35.	3.9	414
2	Sorptive removal of tetracycline from water by palygorskite. Journal of Hazardous Materials, 2009, 165, 148-155.	6.5	240
3	Interaction between tetracycline and smectite in aqueous solution. Journal of Colloid and Interface Science, 2010, 341, 311-319.	5.0	177
4	Cation exchange interaction between antibiotic ciprofloxacin and montmorillonite. Journal of Hazardous Materials, 2010, 183, 309-314.	6.5	170
5	Stable and high energy generation by a strain of Bacillus subtilis in a microbial fuel cell. Journal of Power Sources, 2009, 190, 258-263.	4.0	154
6	Adsorption and intercalation of tetracycline by swelling clay minerals. Applied Clay Science, 2009, 46, 27-36.	2.6	154
7	Adsorption of tetracycline on 2:1 layered non-swelling clay mineral illite. Applied Clay Science, 2012, 67-68, 158-163.	2.6	148
8	Arsenic in the human food chain: the Latin American perspective. Science of the Total Environment, 2012, 429, 92-106.	3.9	147
9	Biological Synthesis of Gold and Silver Nanoparticles Mediated by the Bacteria Bacillus Subtilis. Journal of Nanoscience and Nanotechnology, 2010, 10, 6567-6574.	0.9	126
10	Mechanism of tetracycline sorption on rectorite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 339, 94-99.	2.3	124
11	Water management impacts on arsenic behavior and rhizosphere bacterial communities and activities in a rice agro-ecosystem. Science of the Total Environment, 2016, 542, 642-652.	3.9	123
12	Removal of ciprofloxacin from water by birnessite. Journal of Hazardous Materials, 2013, 250-251, 362-369.	6.5	121
13	Mechanism of methylene blue removal from water by swelling clays. Chemical Engineering Journal, 2011, 168, 1193-1200.	6.6	105
14	Arsenic-enrichment enhanced root exudates and altered rhizosphere microbial communities and activities in hyperaccumulator Pteris vittata. Journal of Hazardous Materials, 2017, 325, 279-287.	6.5	102
15	Synthesis of silver nanoparticles using surfactin: A biosurfactant as stabilizing agent. Materials Letters, 2009, 63, 1227-1230.	1.3	101
16	Occurrence of arsenic in core sediments and groundwater in the Chapai-Nawabganj District, northwestern Bangladesh. Water Research, 2010, 44, 2021-2037.	5.3	97
17	Removal of arsenic from water using Fe-exchanged natural zeolite. Journal of Hazardous Materials, 2011, 187, 318-323.	6.5	96
18	Sources and controls for the mobility of arsenic in oxidizing groundwaters from loess-type sediments in arid/semi-arid dry climates â€“ Evidence from the Chacoâ€“Pampean plain (Argentina). Water Research, 2010, 44, 5589-5604.	5.3	88

#	Article	IF	Citations
19	Geochemistry of high arsenic groundwater in Chia-Nan plain, Southwestern Taiwan: Possible sources and reactive transport of arsenic. Journal of Contaminant Hydrology, 2008, 99, 85-96.	1.6	85
20	Arsenic-enriched aquifers: Occurrences and mobilization of arsenic in groundwater of Ganges Delta Plain, Barasat, West Bengal, India. Applied Geochemistry, 2010, 25, 1805-1814.	1.4	85
21	Screening of plant growth-promoting traits in arsenic-resistant bacteria isolated from agricultural soil and their potential implication for arsenic bioremediation. Journal of Hazardous Materials, 2014, 272, 112-120.	6.5	85
22	Glycerol degradation in single-chamber microbial fuel cells. Bioresource Technology, 2011, 102, 2629-2634.	4.8	79
23	Arsenite-oxidizing bacteria exhibiting plant growth promoting traits isolated from the rhizosphere of Oryza sativa L.: Implications for mitigation of arsenic contamination in paddies. Journal of Hazardous Materials, 2016, 302, 10-18.	6.5	76
24	Implications of organic matter on arsenic mobilization into groundwater: Evidence from northwestern (Chapai-Nawabganj), central (Manikganj) and southeastern (Chandpur) Bangladesh. Water Research, 2010, 44, 5556-5574.	5.3	71
25	Naturally occurring arsenic in terrestrial geothermal systems of western Anatolia, Turkey: Potential role in contamination of freshwater resources. Journal of Hazardous Materials, 2013, 262, 951-959.	6.5	69
26	Health risks for human intake of aquacultural fish: Arsenic bioaccumulation and contamination. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1266-1273.	0.9	66
27	Arsenic-induced health crisis in peri-urban Moyna and Ardebok villages, West Bengal, India: an exposure assessment study. Environmental Geochemistry and Health, 2012, 34, 563-574.	1.8	66
28	Kinetics and mechanism of arsenate removal by nanosized iron oxide-coated perlite. Journal of Hazardous Materials, 2011, 187, 89-95.	6.5	57
29	Bioaccessibility and health risk assessment of arsenic in arsenic-enriched soils, Central India. Ecotoxicology and Environmental Safety, 2013, 92, 252-257.	2.9	56
30	The production of biofuel and bioelectricity associated with wastewater treatment by green algae. Energy, 2014, 78, 94-103.	4.5	56
31	Effects of gamma irradiation on edible seed protein, amino acids and genomic DNA during sterilization. Food Chemistry, 2009, 114, 1237-1244.	4.2	54
32	Arsenic removal from groundwater of the Chaco-Pampean Plain (Argentina) using natural geological materials as adsorbents. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1297-1310.	0.9	54
33	Identification and discrimination of bacteria using Fourier transform infrared spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 116, 478-484.	2.0	46
34	Effect of arsenic contamination on bacterial and fungal biomass and enzyme activities in tropical arsenic-contaminated soils. Biology and Fertility of Soils, 2013, 49, 757-765.	2.3	45
35	Effects of inorganic nutrient levels on the biodegradation of benzene, toluene, and xylene (BTX) by Pseudomonas spp. in a laboratory porous media sand aquifer model. Bioresource Technology, 2008, 99, 7807-7815.	4.8	43
36	Synthesis of Gold Nanoparticles via an Environmentally Benign Route Using a Biosurfactant. Journal of Nanoscience and Nanotechnology, 2009, 9, 6693-6699.	0.9	42

#	Article	IF	Citations
37	Geochemical characterization of arsenic-affected alluvial aquifers of the Bengal Delta (West Bengal) Tj ETQq1 1 0.784314 rgBT /Overl Geochemistry, 2011, 26, 705-713.	1.4	42
38	Mechanism of chlorpheniramine adsorption on Ca-montmorillonite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 385, 213-218.	2.3	42
39	The potential for reductive mobilization of arsenic [As(V) to As(III)] by OSBH₂(Pseudomonas stutzeri) and OSBH₅(Bacillus cereus) in an oil-contaminated site. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1239-1246.	0.9	40
40	Arsenic in the waterâ€“soilâ€“plant system and the potential health risks in the coastal part of Chianan Plain, Southwestern Taiwan. Journal of Asian Earth Sciences, 2013, 77, 295-302.	1.0	40
41	Microbial fuel cell of Enterobacter cloacae: Effect of anodic pH microenvironment on current, power density, internal resistance and electrochemical losses. International Journal of Hydrogen Energy, 2011, 36, 11093-11101.	3.8	39
42	Mechanism of amitriptyline adsorption on Ca-montmorillonite (SAz-2). Journal of Hazardous Materials, 2014, 277, 44-52.	6.5	39
43	Geochemical characteristics of the fluids and muds from two southern Taiwan mud volcanoes: Implications for waterâ€“sediment interaction and groundwater arsenic enrichment. Applied Geochemistry, 2009, 24, 1793-1802.	1.4	38
44	Removal of diphenhydramine from water by swelling clay minerals. Journal of Colloid and Interface Science, 2011, 360, 227-232.	5.0	37
45	Interaction of ciprofloxacin and probe compounds with palygorskite PFl-1. Journal of Hazardous Materials, 2016, 303, 55-63.	6.5	37
46	The association between rainfall rate and occurrence of an enterovirus epidemic due to a contaminated well. Journal of Applied Microbiology, 2006, 101, 1224-1231.	1.4	36
47	Desorption of tetracycline from montmorillonite by aluminum, calcium, and sodium: an indication of intercalation stability. International Journal of Environmental Science and Technology, 2014, 11, 633-644.	1.8	36
48	Role of organic matter and humic substances in the binding and mobility of arsenic in a Gangetic aquifer. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1231-1238.	0.9	35
49	Amitriptyline removal using palygorskite clay. Chemosphere, 2016, 155, 292-299.	4.2	33
50	Evaluation of remediation process with soapberry derived saponin for removal of heavy metals from contaminated soils in Hai-Pu, Taiwan. Journal of Environmental Sciences, 2013, 25, 1180-1185.	3.2	32
51	Characterisation of organic matter associated with groundwater arsenic in reducing aquifers of southwestern Taiwan. Journal of Hazardous Materials, 2013, 262, 970-979.	6.5	32
52	Effects of microbially induced transformations and shift in bacterial community on arsenic mobility in arsenic-rich deep aquifer sediments. Journal of Hazardous Materials, 2016, 310, 11-19.	6.5	32
53	Dissimilatory Arsenate Reduction and In Situ Microbial Activities and Diversity in Arsenic-rich Groundwater of Chianan Plain, Southwestern Taiwan. Microbial Ecology, 2016, 71, 365-374.	1.4	31
54	Arsenic enrichment and mobilization in the Holocene alluvial aquifers of the Chapai-Nawabganj district, Bangladesh: A geochemical and statistical study. Applied Geochemistry, 2010, 25, 1280-1289.	1.4	30

#	Article	IF	Citations
55	Mechanism of acridine orange removal from water by low-charge swelling clays. Chemical Engineering Journal, 2011, 174, 603-611.	6.6	30
56	A comparative study on arsenic and humic substances in alluvial aquifers of Bengal delta plain (NW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 mobilization mechanisms. Environmental Geochemistry and Health, 2011, 33, 235-258.	1.8	29
57	Arsenic-enriched groundwaters of India, Bangladesh and Taiwanâ€"Comparison of hydrochemical characteristics and mobility constraints. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1163-1176.	0.9	29
58	Spatial variation of groundwater arsenic distribution in the Chianan Plain, SW Taiwan: Role of local hydrogeological factors and geothermal sources. Journal of Hydrology, 2014, 518, 393-409.	2.3	29
59	Ionic-liquid-crafted zeolite for the removal of anionic dye methyl orange. Journal of the Taiwan Institute of Chemical Engineers, 2016, 59, 237-243.	2.7	29
60	Adsorption and desorption properties of arsenate onto nano-sized iron-oxide-coated quartz. Water Science and Technology, 2010, 62, 378-386.	1.2	28
61	Changes in Bacterial Community Structure and Abundance in Agricultural Soils under Varying Levels of Arsenic Contamination. Geomicrobiology Journal, 2013, 30, 635-644.	1.0	27
62	Biodegradation and transport of benzene, toluene, and xylenes in a simulated aquifer: comparison of modelled and experimental results. Hydrological Processes, 2002, 16, 3151-3168.	1.1	26
63	Biodegradation of benzene by pure and mixed cultures of Bacillus spp.. World Journal of Microbiology and Biotechnology, 2010, 26, 1557-1567.	1.7	26
64	Biogeochemical characteristics of Kuan-Tzu-Ling, Chung-Lun and Bao-Lai hot springs in southern Taiwan. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1207-1217.	0.9	26
65	Variations in Tectonic Activities of the Central and Southwestern Foothills, Taiwan, Inferred from River Hack Profiles. Terrestrial, Atmospheric and Oceanic Sciences, 2006, 17, 563.	0.3	25
66	Visible light response of Ag+/TiO2â€"Ti2O3 prepared by photodeposition under foam fractionation. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 236, 1-8.	2.0	24
67	Association between arsenic and different-sized dissolved organic matter in the groundwater of black-foot disease area, Taiwan. Chemosphere, 2016, 159, 214-220.	4.2	24
68	Inhibition of ethylenediaminetetraacetic acid ferric sodium salt (EDTA-Fe) and calcium peroxide (CaO2) on arsenic uptake by vegetables in arsenic-rich agricultural soil. Journal of Geochemical Exploration, 2016, 163, 19-27.	1.5	23
69	The geochemical characteristics of the mud liquids in the Wushanting and Hsiaokunshui Mud Volcano region in southern Taiwan: Implications of humic substances for binding and mobilization of arsenic. Journal of Geochemical Exploration, 2013, 128, 62-71.	1.5	22
70	Reactive transport of trace elements and isotopes in the Eutaw coastal plain aquifer, Alabama. Journal of Geophysical Research, 2007, 112, .	3.3	20
71	Characterization on arsenic sorption and mobility of the sediments of Chia-Nan Plain, where Blackfoot disease occurred. Environmental Earth Sciences, 2011, 64, 823-831.	1.3	20
72	Experimental investigation of trace element dissolution in formation water in the presence of supercritical CO2 fluid for a potential geological storage site of CO2 in Taiwan. Journal of Natural Gas Science and Engineering, 2015, 23, 304-314.	2.1	20

#	Article	IF	Citations
73	Micro-colonization of arsenic-resistant Staphylococcus sp. As-3 on arsenopyrite (FeAsS) drives arsenic mobilization under anoxic sub-surface mimicking conditions. Science of the Total Environment, 2019, 669, 527-539.	3.9	20
74	Irrigation Practices on Rice Crop Production in Arsenicâ€Rich Paddy Soil. Crop Science, 2016, 56, 422-431.	0.8	19
75	Distribution and hosts of arsenic in a sediment core from the Chianan Plain in SW Taiwan: Implications on arsenic primary source and release mechanisms. Science of the Total Environment, 2016, 569-570, 212-222.	3.9	19
76	Arsenic ecotoxicology: The interface between geosphere, hydrosphere and biosphere. Journal of Hazardous Materials, 2013, 262, 883-886.	6.5	18
77	Stone cover and slope factors influencing hillside surface runoff and infiltration: laboratory investigation. Hydrological Processes, 2000, 14, 1829-1849.	1.1	17
78	Outbreak of enteroviruses and groundwater contamination in Taiwan: Concept of biomedical hydrogeology. Hydrogeology Journal, 1999, 7, 339-340.	0.9	16
79	Combination of hydrous iron oxide precipitation with zeolite filtration to remove arsenic from contaminated water. Desalination, 2011, 280, 203-207.	4.0	16
80	Depth-resolved abundance and diversity of arsenite-oxidizing bacteria in the groundwater of Beimen, a blackfoot disease endemic area of southwestern Taiwan. Water Research, 2013, 47, 6983-6991.	5.3	16
81	Linking geochemical processes in mud volcanoes with arsenic mobilization driven by organic matter. Journal of Hazardous Materials, 2013, 262, 980-988.	6.5	16
82	Distribution and Accumulation of Arsenic in Rice Plants Grown in Arsenicâ€Rich Agricultural Soil. Agronomy Journal, 2014, 106, 945-951.	0.9	16
83	The whole genome insight on condition-specific redox activity and arsenopyrite interaction promoting As-mobilization by strain Lysinibacillus sp. B2A1. Journal of Hazardous Materials, 2019, 364, 671-681.	6.5	15
84	Biogeochemical interactions among the arsenic, iron, humic substances, and microbes in mud volcanoes in southern Taiwan. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1218-1230.	0.9	14
85	Adsorption of tetracycline on montmorillonite: influence of solution pH, temperature, and ionic strength. Desalination and Water Treatment, 0, , 1-13.	1.0	13
86	The multi-mechanisms and interlayer configurations of metoprolol uptake on montmorillonite. Chemical Engineering Journal, 2019, 360, 325-333.	6.6	13
87	The binding nature of humic substances with arsenic in alluvial aquifers of Chianan Plain, southwestern Taiwan. Journal of Geochemical Exploration, 2012, 114, 98-108.	1.5	12
88	Vertical distribution and mobilization of arsenic in shallow alluvial aquifers of Chapai-Nawabganj district, Northwestern Bangladesh. Journal of the Geological Society of India, 2012, 80, 531-538.	0.5	10
89	Geochemical characteristics of the mud volcano fluids in southwestern Taiwan and their possible linkage to elevated arsenic concentration in Chianan plain groundwater. Environmental Earth Sciences, 2012, 66, 1513-1523.	1.3	10
90	Investigation of intercalation of diphenhydramine into the interlayer of smectite by XRD, FTIR, TG-DTG analyses and molecular simulation. Arabian Journal of Chemistry, 2017, 10, 855-861.	2.3	10

#	Article	IF	Citations
91	Comparative endoscopic and SEM analyses and imaging for biofilm growth on porous quartz sand. Biogeochemistry, 2004, 70, 427-445.	1.7	9
92	Interrelationship of TOC, As, Fe, Mn, Al and Si in shallow alluvial aquifers in Chapai-Nawabganj, Northwestern Bangladesh: implication for potential source of organic carbon. Environmental Earth Sciences, 2011, 63, 955-967.	1.3	9
93	Pumping testing using a siphon well. Water Resources Management, 1996, 10, 81-105.	1.9	8
94	Groundwater arsenic: From genesis to sustainable remediation. Water Research, 2010, 44, 5511.	5.3	8
95	Vertical geochemical variations and arsenic mobilization in the shallow alluvial aquifers of the Chapai-Nawabganj District, northwestern Bangladesh: implication of siderite precipitation. Environmental Earth Sciences, 2013, 68, 1255-1270.	1.3	8
96	Difference in attenuation among Mn, As, and Fe in riverbed sediments. Journal of Hazardous Materials, 2018, 341, 277-289.	6.5	8
97	Hydrogeochemistry of Groundwater and Arsenic Adsorption Characteristics of Subsurface Sediments in an Alluvial Plain, SW Taiwan. Sustainability, 2016, 8, 1305.	1.6	7
98	YARG: A repository for arsenic-related genes in yeast. PLoS ONE, 2018, 13, e0201204.	1.1	7
99	Bacterial Activity and Their Physiological Characteristics in the Sediments of O DP Holes 1202A and 1202D, Okinawa Trough, Western Pacific. Terrestrial, Atmospheric and Oceanic Sciences, 2005, 16, 113.	0.3	5
100	Huge rock eruption caused by the 1999 Chi-Chi earthquake in Taiwan. Geophysical Research Letters, 2003, 30, .	1.5	4
101	Influence of Supercritical CO2 on the Mobility and Desorption of Trace Elements from CO2 Storage Rock Sandstone and Caprock Shale in a Potential CO2 Sequestration Site in Taiwan. Aerosol and Air Quality Research, 2016, 16, 1730-1741.	0.9	4
102	Laboratory simulation of water-resources conservation by means of the layout of a series of ponds along a streambank. Hydrogeology Journal, 1998, 6, 233-242.	0.9	3
103	Hydrochemistry of hot springs in geothermal fields of central, northern, and northeastern Taiwan: implication on occurrence and enrichment of arsenic. Environmental Earth Sciences, 2016, 75, 1.	1.3	3
104	Linkage of sulfur isotopic enrichment to sulfur and arsenic release in the coastal aquifers of southwestern Taiwan. Journal of Geochemical Exploration, 2019, 205, 106342.	1.5	3
105	Potential Antifreeze Compounds in Present-Day Martian Seepage Groundwater. Terrestrial, Atmospheric and Oceanic Sciences, 2008, 19, 279.	0.3	2
106	Reply to comments by P. Gale and others on "Outbreak of enteroviruses and groundwater contamination in Taiwan: Concept of biomedical hydrogeology" (Jean 1999). Hydrogeology Journal, 2000, 8, 0350-0353.	0.9	2
107	Role of fluids in surface deformation caused by the 1999 Chi-Chi earthquake in Taiwan. Earth Surface Processes and Landforms, 2002, 27, 1-10.	1.2	0
108	The interaction between a manmade lake and groundwater: an example site in the Aurku area, Chiayi County, Taiwan. Hydrological Processes, 2007, 21, 647-657.	1.1	0

#	Article	IF	Citations
109	Foreword. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1161-1162.	0.9	0