Souhail R Al-Abed

List of Publications by Year in descending order

78 papers	5,004 citations	147801 31 h-index	88630 70 g-index
79 all docs	79 docs citations	79 times ranked	5211 citing authors

#	Article	IF	Citations
1	Zinc transport and partitioning of a mine-impacted watershed: An evaluation of water and sediment quality. Applied Geochemistry, 2022, 142, 105333.	3.0	2
2	Isotope ratio mass spectrometry and spectroscopic techniques for microplastics characterization. Talanta, 2021, 224, 121743.	5.5	30
3	Silver Nanoparticle Interactions with Surfactant-Based Household Surface Cleaners. Environmental Engineering Science, 2021, 38, 481-488.	1.6	3
4	Influence of polymer additives on gas-phase emissions from 3D printer filaments. Chemosphere, 2021, 279, 130543.	8.2	15
5	Sources, transport, measurement and impact of nano and microplastics in urban watersheds. Reviews in Environmental Science and Biotechnology, 2020, 19, 275-336.	8.1	69
6	Material- and Site-Specific Partition Coefficients for Beneficial Use Assessments. Environmental Science & Technology, 2019, 53, 9626-9635.	10.0	7
7	Dissolution of silver nanoparticles in colloidal consumer products: effects of particle size and capping agent. Journal of Nanoparticle Research, 2019, 21, 1-155.	1.9	24
8	Recent advances in flue gas desulfurization gypsum processes and applications â€“ A review. Journal of Environmental Management, 2019, 251, 109572.	7.8	157
9	Transformation of silver nanoparticle consumer products during simulated usage and disposal. Environmental Science: Nano, 2019, 6, 592-598.	4.3	32
10	VOC Emissions and Formation Mechanisms from Carbon Nanotube Composites during 3D Printing. Environmental Science & Technology, 2019, 53, 4364-4370.	10.0	45
11	Rapid and versatile pre-treatment for quantification of multi-walled carbon nanotubes in the environment using microwave-induced heating. Environmental Science and Pollution Research, 2019, 26, 13999-14012.	5.3	0
12	Multivariate calibration for carbon nanotubes in the environment using the microwave induced heating method. Environmental Nanotechnology, Monitoring and Management, 2019, 11, 100204.	2.9	2
13	Transformation of Silver Nanoparticle Consumer Products during Simulated Usage and Disposal. Environmental Science: Nano, 2019, 6, 592-598.	4.3	13
14	Assessing the Impact of Removing Select Materials from Coal Mine Overburden, Central Appalachia Region, USA. Mine Water and the Environment, 2018, 37, 31-41.	2.0	0
15	Characterization of engineered nanoparticles in commercially available spray disinfectant products advertised to contain colloidal silver. Science of the Total Environment, 2018, 619-620, 1375-1384.	8.0	45
16	Comparison of the efficiency of chitinous and ligneous substrates in metal and sulfate removal from mining-influenced water. Journal of Environmental Management, 2018, 227, 321-328.	7.8	17
17	Assessing the Impact of Removing Select Materials from Coal Mine Overburden, Central Appalachia Region, USA. Mine Water and the Environment, 2018, 37, 31-41.	2.0	0
18	Nanosilver as a disinfectant in dental unit waterlines: Assessment of the physicochemical transformations of the AgNPs. Chemosphere, 2017, 173, 245-252.	8.2	22

#	Article	IF	Citations
19	Quantification of carbon nanotubes in different environmental matrices by a microwave induced heating method. Science of the Total Environment, 2017, 580, 509-517.	8.0	16
20	Metal contamination in environmental media in residential areas around Romanian mining sites. Reviews on Environmental Health, 2017, 32, 215-220.	2.4	14
21	Decision support for environmental management of industrial non-hazardous secondary materials: New analytical methods combined with simulation and optimization modeling. Journal of Environmental Management, 2017, 196, 137-147.	7.8	6
22	Mechanisms and effectivity of sulfate reducing bioreactors using a chitinous substrate in treating mining influenced water. Chemical Engineering Journal, 2017, 323, 270-277.	12.7	26
23	Assessing metal mobilization from industrially lead-contaminated soils located at an urban site. Applied Geochemistry, 2017, 83, 31-40.	3.0	10
24	A comprehensive framework for evaluating the environmental health and safety implications of engineered nanomaterials. Critical Reviews in Toxicology, 2017, 47, 771-814.	3.9	54
25	Alterations of lead speciation by sulfate from addition of flue gas desulfurization gypsum (FGDG) in two contaminated soils. Science of the Total Environment, 2017, 575, 1522-1529.	8.0	20
26	Environmental aging alters Al(OH)₃ coating of TiO₂ nanoparticles enhancing their photocatalytic and phototoxic activities. Environmental Science: Nano, 2016, 3, 593-601.	4.3	17
27	Biomarker analysis of liver cells exposed to surfactant-wrapped and oxidized multi-walled carbon nanotubes (MWCNTs). Science of the Total Environment, 2016, 565, 777-786.	8.0	9
28	Bench-Scale and Pilot-Scale Treatment Technologies for the Removal of Total Dissolved Solids from Coal Mine Water: A Review. Mine Water and the Environment, 2016, 35, 94-112.	2.0	22
29	Desorption, partitioning, and dechlorination characteristics of PCBs in sediments in interaction with reactive activated carbon. Journal of Hazardous Materials, 2015, 287, 118-125.	12.4	9
30	Evaluation of the impact of lime softening waste disposal in natural environments. Waste Management, 2015, 43, 524-532.	7.4	8
31	Novel Fe-Pd/SiO2 catalytic materials for degradation of chlorinated organic compounds in water. Pure and Applied Chemistry, 2014, 86, 1141-1158.	1.9	18
32	Chronic TiO2 nanoparticle exposure to a benthic organism, Hyalella azteca: impact of solar UV radiation and material surface coatings on toxicity. Science of the Total Environment, 2014, 499, 356-362.	8.0	17
33	Evaluation of metal partitioning and mobility in a sulfidic mine tailing pile under oxic and anoxic conditions. Journal of Environmental Management, 2014, 140, 135-144.	7.8	9
34	Nanostructured Titanium Oxide Film- and Membrane-Based Photocatalysis for Water Treatment. , 2014, , 123-132.		6
35	Distinct structural behavior and transport of TiO 2 nano- and nanostructured particles in sand. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 188-194.	4.7	11
36	Superoxide radical driving the activation of persulfate by magnetite nanoparticles: Implications for the degradation of PCBs. Applied Catalysis B: Environmental, 2013, 129, 325-332.	20.2	420

#	Article	IF	Citations
37	Sulfate radical-based degradation of polychlorinated biphenyls: Effects of chloride ion and reaction kinetics. Journal of Hazardous Materials, 2012, 227-228, 394-401.	12.4	356
38	Statistical evaluation of potential damage to the Al(OH)3 layer on nTiO2 particles in the presence of swimming pool and seawater. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
39	Depletion of the protective aluminum hydroxide coating in TiO2-based sunscreens by swimming pool water ingredients. Chemical Engineering Journal, 2012, 191, 95-103.	12.7	51
40	Influence of pH on the transport of nanoscale zinc oxide in saturated porous media. Journal of Nanoparticle Research, 2011, 13, 4035-4047.	1.9	81
41	Biosorption of heavy metals from mining influenced water onto chitin products. Chemical Engineering Journal, 2011, 166, 1002-1009.	12.7	59
42	Environmental impact of the use of contaminated sediments as partial replacement of the aggregate used in road construction. Journal of Hazardous Materials, 2011, 189, 546-555.	12.4	20
43	Effect of reaction environments on the reactivity of PCB (2-chlorobiphenyl) over activated carbon impregnated with palladized iron. Journal of Hazardous Materials, 2010, 179, 869-874.	12.4	31
44	Arsenic sorption on TiO2 nanoparticles: Size and crystallinity effects. Water Research, 2010, 44, 965-973.	11.3	164
45	A feasibility study on Pd/Mg application in historically contaminated sediments and PCB spiked substrates. Journal of Hazardous Materials, 2009, 172, 1156-1162.	12.4	23
46	Sulfate radical-based ferrousâ€“peroxymonosulfate oxidative system for PCBs degradation in aqueous and sediment systems. Applied Catalysis B: Environmental, 2009, 85, 171-179.	20.2	953
47	Impact of organic solvents and common anions on 2-chlorobiphenyl dechlorination kinetics with Pd/Mg. Applied Catalysis B: Environmental, 2009, 92, 17-22.	20.2	15
48	Adsorption and Simultaneous Dechlorination of PCBs on GAC/Fe/Pd: Mechanistic Aspects and Reactive Capping Barrier Concept. Environmental Science & Technology, 2009, 43, 488-493.	10.0	106
49	Reactivity of Substituted Chlorines and Ensuing Dechlorination Pathways of Select PCB Congeners with Pd/Mg Bimetallics. Environmental Science & Technology, 2009, 43, 915-921.	10.0	50
50	Investigation of a Mercury Speciation Technique for Flue Gas Desulfurization Materials. Journal of the Air and Waste Management Association, 2009, 59, 972-979.	1.9	19
51	Effect of inorganic, synthetic and naturally occurring chelating agents on Fe(II) mediated advanced oxidation of chlorophenols. Water Research, 2009, 43, 684-694.	11.3	356
52	Catalytic Role of Palladium and Relative Reactivity of Substituted Chlorines during Adsorption and Treatment of PCBs on Reactive Activated Carbon. Environmental Science & Technology, 2009, 43, 7510-7515.	10.0	46
53	Effects of Aging and Oxidation of Palladized Iron Embedded in Activated Carbon on the Dechlorination of 2-Chlorobiphenyl. Environmental Science & Technology, 2009, 43, 4137-4142.	10.0	40
54	Influence of Carboxymethyl Cellulose for the Transport of Titanium Dioxide Nanoparticles in Clean Silica and Mineral-Coated Sands. Environmental Science & Technology, 2009, 43, 4954-4959.	10.0	78

#	Article	IF	Citations
55	Leaching behavior of mineral processing waste: Comparison of batch and column investigations. Journal of Hazardous Materials, 2008, 153, 1088-1092.	12.4	51
56	Electrocatalytic dechlorination of a PCB congener at a palladized granular-graphite-packed electrode: Reaction equilibrium and mechanism. Applied Catalysis B: Environmental, 2008, 80, 327-334.	20.2	20
57	Dechlorination kinetics of monochlorobiphenyls by Fe/Pd: Effects of solvent, temperature, and PCB concentration. Applied Catalysis B: Environmental, 2008, 78, 371-380.	20.2	58
58	Influence of trace metal distribution on its leachability from coal fly ash. Fuel, 2008, 87, 1887-1893.	6.4	126
59	Speciation, Characterization, and Mobility of As, Se, and Hg in Flue Gas Desulphurization Residues. Environmental Science & Technology, 2008, 42, 1693-1698.	10.0	88
60	Synthesis of Reactive Nano-Fe/Pd Bimetallic System-Impregnated Activated Carbon for the Simultaneous Adsorption and Dechlorination of PCBs. Chemistry of Materials, 2008, 20, 3649-3655.	6.7	232
61	Assessment of the functionality of a pilot-scale reactor and its potential for electrochemical degradation of calmagite, a sulfonated azo-dye. Chemosphere, 2008, 73, 837-843.	8.2	14
62	Correlation of 2-Chlorobiphenyl Dechlorination by Fe/Pd with Iron Corrosion at Different pH. Environmental Science & Technology, 2008, 42, 6942-6948.	10.0	35
63	Use of Granular Graphite for Electrolytic Dechlorination of Trichloroethylene. Environmental Engineering Science, 2007, 24, 842-851.	1.6	15
64	In Situ Technologies for Reclamation of PCB-Contaminated Sediments: Current Challenges and Research Thrust Areas. Journal of Environmental Engineering, ASCE, 2007, 133, 1075-1078.	1.4	35
65	Palladium-facilitated electrolytic dechlorination of 2-chlorobiphenyl using a granular-graphite electrode. Chemosphere, 2007, 66, 226-233.	8.2	17
66	Arsenic release from iron rich mineral processing waste: Influence of pH and redox potential. Chemosphere, 2007, 66, 775-782.	8.2	165
67	Modeling the Electrolytic Dechlorination of Trichloroethylene in a Granular Graphite-Packed Reactor. Environmental Engineering Science, 2007, 24, 581-594.	1.6	9
68	Enhanced Corrosion-Based Pd/Mg Bimetallic Systems for Dechlorination of PCBs. Environmental Science & Technology, 2007, 41, 3722-3727.	10.0	94
69	Partitioning, Desorption, and Dechlorination of a PCB Congener in Sediment Slurry Supernatants. Environmental Science & Technology, 2007, 41, 6253-6258.	10.0	15
70	Use of carbon stable isotope to investigate chloromethane formation in the electrolytic dechlorination of trichloroethylene. Journal of Hazardous Materials, 2007, 141, 729-735.	12.4	0
71	Influences of pH and current on electrolytic dechlorination of trichloroethylene at a granular-graphite packed electrode. Chemosphere, 2006, 64, 462-469.	8.2	23
72	Comparative evaluation of short-term leach tests for heavy metal release from mineral processing waste. Science of the Total Environment, 2006, 364, 14-23.	8.0	82

#	Article	IF	Citations
73	Groundwater and Soil Remediation Using Electrical Fields. ACS Symposium Series, 2002, , 434-448.	0.5	6
74	Effects of Electroosmosis on Soil Temperature and Hydraulic Head. I: Field Observations. Journal of Environmental Engineering, ASCE, 2002, 128, 588-595.	1.4	1
75	Effects of Electroosmosis on Soil Temperature and Hydraulic Head. II: Numerical Simulation. Journal of Environmental Engineering, ASCE, 2002, 128, 596-603.	1.4	6
76	Adsorption of Cadmium on Biosolidsâ€Amended Soils. Journal of Environmental Quality, 2001, 30, 903-911.	2.0	76
77	Effects of pH on dechlorination of trichloroethylene by zero-valent iron. Journal of Hazardous Materials, 2001, 83, 243-254.	12.4	194
78	Microbial removal of lead from solid media and soil. Water, Air, and Soil Pollution, 1996, 86, 207-219.	2.4	10