## Talal Shahwan

List of Publications by Year in descending order

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50 3,192 29 46 papers citations h-index g-index

51 51 51 51 4002

times ranked

citing authors

docs citations

all docs

#	Article	IF	CITATIONS
1	Green synthesis of iron nanoparticles and their application as a Fenton-like catalyst for the degradation of aqueous cationic and anionic dyes. Chemical Engineering Journal, 2011, 172, 258-266.	12.7	671
2	Synthesis and characterization of kaolinite-supported zero-valent iron nanoparticles and their application for the removal of aqueous Cu2+ and Co2+ ions. Applied Clay Science, 2009, 43, 172-181.	5.2	301
3	A radiotracer study of the adsorption behavior of aqueous Ba2+ ions on nanoparticles of zero-valent iron. Journal of Hazardous Materials, 2007, 148, 761-767.	12.4	216
4	Application of zero-valent iron nanoparticles for the removal of aqueous Co2+ ions under various experimental conditions. Chemical Engineering Journal, 2008, 144, 213-220.	12.7	171
5	Batch Removal of Aqueous Cu <sup>2+</sup> Ions Using Nanoparticles of Zero-Valent Iron: A Study of the Capacity and Mechanism of Uptake. Industrial & Engineering Chemistry Research, 2008, 47, 4758-4764.	3.7	119
6	Chitosan fiber-supported zero-valent iron nanoparticles as a novel sorbent for sequestration of inorganic arsenic. RSC Advances, 2013, 3, 7828.	3.6	115
7	Equilibrium, thermodynamic and kinetic studies for the biosorption of aqueous lead(II), cadmium(II) and nickel(II) ions on Spirulina platensis. Journal of Hazardous Materials, 2008, 154, 973-980.	12.4	101
8	Synthesis of amidoximated polyacrylonitrile fibers and its application for sorption of aqueous uranyl ions under continuous flow. Chemical Engineering Journal, 2012, 213, 41-49.	12.7	99
9	Thermodynamic parameters of Cs+ sorption on natural clays. Journal of Radioanalytical and Nuclear Chemistry, 2002, 253, 115-120.	1.5	95
10	Synthesis and characterization of bentonite/iron nanoparticles and their application as adsorbent of cobalt ions. Applied Clay Science, 2010, 47, 257-262.	5.2	90
11	Characterization of the uptake of aqueous Ni2+ ions on nanoparticles of zero-valent iron (nZVI). Desalination, 2009, 249, 1048-1054.	8.2	81
12	Temperature effects in barium sorption on natural kaolinite and chlorite-illite clays. Journal of Radioanalytical and Nuclear Chemistry, 2004, 260, 43-48.	1.5	76
13	Synthesis, characterization and application of a novel sorbent, glucamine-modified MCM-41, for the removal/preconcentration of boron from waters. Analytica Chimica Acta, 2005, 547, 31-41.	5.4	73
14	Sorption Efficiency of Chitosan Nanofibers toward Metal lons at Low Concentrations. Biomacromolecules, 2010, 11, 3301-3308.	5 <b>.</b> 4	70
15	Morphosynthesis of CaCO3 at different reaction temperatures and the effects of PDDA, CTAB, and EDTA on the particle morphology and polymorph stability. Powder Technology, 2007, 178, 194-202.	4.2	66
16	Preconcentration and atomic spectrometric determination of rare earth elements (REEs) in natural water samples by inductively coupled plasma atomic emission spectrometry. Analytica Chimica Acta, 2005, 547, 42-49.	5 <b>.</b> 4	56
17	Removal of aqueous rare earth elements (REEs) using nano-iron based materials. Journal of Industrial and Engineering Chemistry, 2013, 19, 898-907.	5.8	54
18	Physicochemical characterization of the retardation of aqueous Cs+ ions by natural kaolinite and clinoptilolite minerals. Journal of Colloid and Interface Science, 2005, 285, 9-17.	9.4	53

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19	A characterization study of some aspects of the adsorption of aqueous Co2+ ions on a natural bentonite clay. Journal of Colloid and Interface Science, 2006, 300, 447-452.	9.4	47
20	Incorporation of iron nanoparticles into clinoptilolite and its application for the removal of cationic and anionic dyes. Journal of Industrial and Engineering Chemistry, 2015, 21, 1143-1151.	5.8	46
21	Synthesis of aminopropyl triethoxysilane-functionalized silica and its application in speciation studies of vanadium(IV) and vanadium(V). Chemical Engineering Journal, 2011, 174, 76-85.	12.7	43
22	Preparation and characterization of alumina-supported iron nanoparticles and its application for the removal of aqueous Cu2+ ions. Chemical Engineering Journal, 2011, 168, 979-984.	12.7	43
23	AAS, XRPD, SEM/EDS, and FTIR characterization of Zn2+ retention by calcite, calcite–kaolinite, and calcite–clinoptilolite minerals. Journal of Colloid and Interface Science, 2005, 286, 471-478.	9.4	41
24	Synthesis, characterization and application of a novel mercapto- and amine-bifunctionalized silica for speciation/sorption of inorganic arsenic prior to inductively coupled plasma mass spectrometric determination. Talanta, 2011, 85, 1517-1525.	5.5	40
25	Biosorption of Cu(II) and Pb(II) ions from aqueous solution by natural spider silk. Bioresource Technology, 2011, 102, 8807-8813.	9.6	38
26	Sorption kinetics: Obtaining a pseudo-second order rate equation based on a mass balance approach. Journal of Environmental Chemical Engineering, 2014, 2, 1001-1006.	6.7	36
27	A comparative study of the removal of methylene blue by iron nanoparticles from water and water-ethanol solutions. Journal of Molecular Liquids, 2019, 273, 274-281.	4.9	32
28	Sorption of As(V) from waters using chitosan and chitosan-immobilized sodium silicate prior to atomic spectrometric determination. Talanta, 2010, 80, 1452-1460.	5.5	31
29	Modification of a montmorillonite–illite clay using alkaline hydrothermal treatment and its application for the removal of aqueous Cs+ ions. Journal of Colloid and Interface Science, 2006, 295, 303-309.	9.4	30
30	Lagergren equation: Can maximum loading of sorption replace equilibrium loading?. Chemical Engineering Research and Design, 2015, 96, 172-176.	5.6	29
31	Sorption studies of Cs+ and Ba2+ cations on magnesite. Applied Radiation and Isotopes, 1998, 49, 915-921.	1.5	26
32	Kinetic and thermodynamic investigations of strontium ions retention by natural kaolinite and clinoptilolite minerals. Radiochimica Acta, 2005, 93, 477-485.	1.2	21
33	Characterization of Sr2+ uptake on natural minerals of kaolinite and magnesite using XRPD, SEM/EDS, XPS, and DRIFT. Radiochimica Acta, 2005, 93, 225-232.	1.2	21
34	Retention of aqueous Ba2+ ions by calcite and aragonite over a wide range of concentrations: Characterization of the uptake capacity, and kinetics of sorption and precipitate formation. Geochemical Journal, 2007, 41, 379-389.	1.0	18
35	Effect of magnesium carbonate on the uptake of aqueous zinc and lead ions by natural kaolinite and clinoptilolite. Applied Clay Science, 2005, 30, 209-218.	<b>5.2</b>	16
36	Radiochemical study of Co2+ sorption on chlorite and kaolinite. Journal of Radioanalytical and Nuclear Chemistry, 1999, 241, 151-155.	1.5	15

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37	Separation of trace antimony and arsenic prior to hydride generation atomic absorption spectrometric determination. Analytica Chimica Acta, 2005, 534, 293-300.	5.4	15
38	Synthesis of poly-2-hydroxyethyl methacrylate–montmorillonite nanocomposite via in situ atom transfer radical polymerization. Journal of Materials Research, 2008, 23, 3316-3322.	2.6	14
39	Critical insights into the limitations and interpretations of the determination of â^†Go, â^†Ho, and â^†So of sorption of aqueous pollutants on different sorbents. Colloids and Interface Science Communications, 2021, 41, 100369.	4.1	13
40	TOF-SIMS study of Cs + sorption on natural kaolinite. Science of the Total Environment, 1999, 226, 255-260.	8.0	12
41	Sorption studies of Cs+, Ba2+, and Co2+ ions on bentonite using radiotracer, ToF-SIMS, and XRD techniques. Radiochimica Acta, 2001, 89, 799-804.	1.2	11
42	Study of the scavenging behavior and structural changes accompanying the interaction of aqueous Pb2+ and Sr2+ ions with calcite. Geochemical Journal, 2005, 39, 317-326.	1.0	10
43	Trypsinâ€Immobilized Silica: A Novel Adsorbent for V(IV) and V(V) Removal from Water. Water Environment Research, 2018, 90, 2056-2065.	2.7	7
44	Uptake of Ba2+ ions by natural bentonite and CaCO3: A radiotracer, EDXRF and PXRD study. Journal of Radioanalytical and Nuclear Chemistry, 2002, 254, 563-568.	1.5	6
45	Use of electrospun fiber mats for the remediation of hypersaline geothermal brine. , 0, 62, 94-100.		6
46	Comparative assessment of the decolorization of aqueous bromophenol blue using Fe nanoparticles and Fe-Ni bimetallic nanoparticles., 0, 159, 346-355.		6
47	Mefenamic acid stability and removal from wastewater using bentonite-supported nanoscale zero-valent iron and activated charcoal., 0, 97, 175-183.		5
48	ToF–SIMS depth profiling analysis of the uptake of Ba2+ and Co2+ ions by natural kaolinite clay. Journal of Colloid and Interface Science, 2004, 277, 23-28.	9.4	4
49	Surface spectroscopic studies of Cs+, and Ba2+ sorption on chlorite-illite mixed clay. Radiochimica Acta, 2000, 88, 681-686.	1.2	3
50	Amalgamation performances of gold-coated quartz wool, alumina, silica, sand and carbon fiber for the determination of inorganic mercury in waters by cold vapor atomic absorption spectrometry. Journal of Analytical Chemistry, 2017, 72, 551-556.	0.9	0