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## Arsenic toxicity, health hazards and removal techniques from water: an overview

DOI: 10.1016/j.desal.2007.01.015  
Desalination, 2007, 217, 139-166.

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**Version:** 2024-04-28

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#	Paper	IF	Citations
685	Application of zeolitic volcanic rocks for arsenic removal from water. <b>2008</b> , 101, 245-250		43
684	Measurement of soil/dust arsenic by gas phase chemiluminescence. <b>2008</b> , 77, 372-9		15
683	Arsenic (V) removal from groundwater by GE-HL nanofiltration membrane: effects of arsenic concentration, pH, and co-existing ions. <b>2009</b> , 3, 428-433		8
682	Synthesis, characterization and performance in arsenic removal of iron-doped activated carbons prepared by impregnation with Fe(III) and Fe(II). <i>Journal of Hazardous Materials</i> , <b>2009</b> , 165, 893-902	12.8	100
681	Biosorption of arsenic from aqueous solution using agricultural residue 'rice polish'. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 166, 1050-9	12.8	223
680	Arsenic removal by iron-doped activated carbons prepared by ferric chloride forced hydrolysis. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 168, 430-7	12.8	124
679	Size effects of nanocrystalline TiO <sub>2</sub> on As(V) and As(III) adsorption and As(III) photooxidation. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 168, 747-52	12.8	44
678	Fluoride adsorption onto granular ferric hydroxide: effects of ionic strength, pH, surface loading, and major co-existing anions. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 171, 774-9	12.8	117
677	Modeling of arsenic adsorption kinetics of synthetic and contaminated groundwater on natural laterite. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 172, 928-34	12.8	28
676	Structure investigation of As(III)- and As(V)-species bound to Fe-modified clinoptilolite tuffs. <b>2009</b> , 118, 408-415		30
675	Fe-Mn binary oxide incorporated into diatomite as an adsorbent for arsenite removal: preparation and evaluation. <b>2009</b> , 338, 353-8		80
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672	Rice Polish: An Alternative to Conventional Adsorbents for Treating Arsenic Bearing Water by Up-Flow Column Method. <b>2009</b> , 48, 10180-10185		59
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670	Arsenate substitution in hydroxylapatite: Structural characterization of the Ca <sub>5</sub> (P <sub>x</sub> As <sub>1-x</sub> O <sub>4</sub> ) <sub>3</sub> OH solid solution. <b>2009</b> , 94, 666-675		38
669	Correction strategies over spectral interferences for arsenic determination in aqueous samples with complex matrices by quadrupole ICP-MS. <b>2009</b> , 24, 518		15

668	Rice Polish For the Removal of Arsenic from Aqueous Solution: Optimization of Process Variables. <b>2009</b> , 48, 4194-4201		20
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665	Reverse micelle coacervate-based extraction combined with electrothermal atomic absorption spectrometry for the determination of arsenic in water and oyster tissue samples. <b>2010</b> , 169, 187-193		23
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663	Arsenic contamination of natural waters in San Juan and La Pampa, Argentina. <b>2010</b> , 32, 491-515		48
662	Removal of arsenic from contaminated groundwater by solar-driven membrane distillation. <b>2010</b> , 158, 805-11		58
661	Modelling of liquid-liquid extraction and liquid membrane separation of arsenic species in environmental matrices. <i>Separation and Purification Technology</i> , <b>2010</b> , 72, 319-325	8.3	32
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657	A statistical experiment design approach for arsenic removal by coagulation process using aluminum sulfate. <i>Desalination</i> , <b>2010</b> , 254, 42-48	10.3	151
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644	Heavy Metals Removal Using Adsorption and Nanofiltration Techniques. <b>2011</b> , 40, 209-259	92
643	Study of arsenic(III) and arsenic(V) removal from waters using ferric hydroxide supported on silica gel prepared at low pH. <b>2011</b> , 32, 341-51	13
642	Bioadsorption of Arsenic: An Artificial Neural Networks and Response Surface Methodological Approach. <b>2011</b> , 50, 9852-9863	36
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638	Arsenic determination by ICP-QMS with octopole collision/reaction cell. Overcome of matrix effects under vented and pressurized cell conditions. <b>2011</b> , 85, 1941-7	28
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635	Preparation, characterization and application of a copper (II)-bound polymeric ligand exchanger for selective removal of arsenate from water. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 193, 149-55	12.8 13
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633	Removal of arsenic(V) from aqueous solutions using 3-[2-(2-aminoethylamino)ethylamino]propyl-trimethoxysilane functionalized silica gel adsorbent. <i>Desalination</i> , <b>2011</b> , 278, 238-243	10.3 42

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631	Arsenic (V) adsorption from aqueous solution onto goethite, hematite, magnetite and zero-valent iron: Effects of pH, concentration and reversibility. <i>Desalination</i> , <b>2011</b> , 281, 93-99	10.3	202
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525	CHAPTER 5: Arsenic Contamination: An Overview. <b>2014</b> , 86-121		1

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523	Removal of Arsenic (III, V) from aqueous solution by nanoscale zero-valent iron stabilized with starch and carboxymethyl cellulose. <b>2014</b> , 12, 74		61
522	Ultrasonic assisted arsenate adsorption on solvothermally synthesized calcite modified by goethite, $\gamma$ -MnO <sub>2</sub> and goethite/ $\gamma$ -MnO <sub>2</sub> . <b>2014</b> , 21, 790-801		32
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520	Water-soluble polymer and photocatalysis for arsenic removal. <b>2014</b> , 131, n/a-n/a		11
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518	Selective removal of arsenic(V) from natural water using N-methyl-d-glucamine functionalized poly(propylene) membranes. <b>2014</b> , 2, 2221-2228		5
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515	Modified nanocrystalline natural zeolite for adsorption of arsenate from wastewater: Isotherm and kinetic studies. <b>2014</b> , 197, 101-108		11
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513	Survey on full-scale drinking water treatment plants for arsenic removal in Italy. <b>2014</b> , 9, 42-51		17
512	Synthesis and Characterization of Ammonium Jarosite with Arsenic. <b>2014</b> , 627-636		
511	Characterization of High-arsenic Sludge in Copper Metallurgy Plant. <b>2014</b> , 173-184		2
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509	Superior removal of arsenic from water with zirconium metal-organic framework UiO-66. <b>2015</b> , 5, 16613		225
508	Synthesis of iron oxyhydroxide-coated rice straw (IOC-RS) and its application in arsenic(V) removal from water. <b>2015</b> , 13, 726-36		11
507	Arsenic removal from groundwater by ion exchange and adsorption processes: comparison of two different materials. <b>2015</b> , 15, 981-989		8

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499	Crystalline Bacterial Surface Layer (S-Layer) Opens Golden Opportunities for Nanobiotechnology in Textiles. <b>2015</b> , 14, 952-9		1
498	Ultrasound-assisted, ionic liquid-linked, dual-magnetic multiwall carbon nanotube microextraction combined with electrothermal atomic absorption spectrometry for simultaneous determination of cadmium and arsenic in food samples. <b>2015</b> , 30, 1057-1063		25
497	Arsenic removal from aqueous solutions by ultrafiltration assisted with polyacrylamide: an application of response surface methodology. <b>2015</b> , 56, 736-743		3
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495	Speciation of arsenic in bulk and rhizosphere soils from artisanal cooperative mines in Bolivia. <i>Chemosphere</i> , <b>2015</b> , 138, 1014-20	8.4	28
494	Arsenic and antimony in water and wastewater: overview of removal techniques with special reference to latest advances in adsorption. <i>Journal of Environmental Management</i> , <b>2015</b> , 151, 326-42	7.9	365
493	Arsenic removal from drinking water by reverse osmosis: Minimization of costs and energy consumption. <i>Separation and Purification Technology</i> , <b>2015</b> , 144, 46-53	8.3	82
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491	Characterization of the Ain Khemouda halloysite (western Tunisia) for ceramic industry. <b>2015</b> , 111, 194-201		13
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474	Distribution and chemical speciation of dissolved inorganic arsenic in the Yellow Sea and East China Sea. <b>2015</b> , 34, 12-20		14
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4 <sup>15</sup>	Evaluation of operating parameters with respect to charge loading on the removal efficiency of arsenic from potable water by electrocoagulation. <b>2016</b> , 4, 1484-1494	41
4 <sup>14</sup>	Modification of nanostructured ZnO surfaces with curcumin: fluorescence-based sensing for arsenic and improving arsenic removal by ZnO. <b>2016</b> , 6, 17256-17268	89
4 <sup>13</sup>	Arsenic and dichlorvos: Possible interaction between two environmental contaminants. <b>2016</b> , 35, 43-60	20
4 <sup>12</sup>	Etching synthesis of iron oxide nanoparticles for adsorption of arsenic from water. <b>2016</b> , 6, 15900-15910	45
4 <sup>11</sup>	Effective As(III) Removal by A Multi-Charged Hydroacid Complex Draw Solute Facilitated Forward Osmosis-Membrane Distillation (FO-MD) Processes. <b>2016</b> , 50, 2363-70	37
4 <sup>10</sup>	Interactions between reactive oxygen groups on nanoporous carbons and iron oxyhydroxide nanoparticles: effect on arsenic(V) removal. <b>2016</b> , 22, 181-194	7
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4 <sup>08</sup>	Studies on the removal of As(III) and As(V) through their adsorption onto granular activated carbon/MnFe <sub>2</sub> O <sub>4</sub> composite: isotherm studies and error analysis. <b>2016</b> , 23, 327-372	30
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4 <sup>06</sup>	Rapid catalytic oxidation of arsenite to arsenate in an iron(III)/sulfite system under visible light. <b>2016</b> , 186, 56-61	83
4 <sup>05</sup>	Ultrasensitive determination of inorganic arsenic by hydride generation-atomic fluorescence spectrometry using Fe <sub>3</sub> O <sub>4</sub> @ZIF-8 nanoparticles for preconcentration. <b>2016</b> , 124, 578-583	45
4 <sup>04</sup>	Influence of chitosan on modified nanoscale zero-valent iron for arsenate removal. <b>2016</b> , 57, 17861-17869	4
4 <sup>03</sup>	Removal of arsenic from contaminated water by coagulation followed by polyelectrolyte enhanced ultrafiltration. <b>2016</b> , 57, 9756-9764	2
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390	Arsenic transformation and adsorption by iron hydroxide/manganese dioxide doped straw activated carbon. <b>2017</b> , 416, 618-627		83
389	Adsorption behavior and mechanism of different arsenic species on mesoporous MnFeO magnetic nanoparticles. <i>Chemosphere</i> , <b>2017</b> , 181, 328-336	8.4	134
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384	Review on Biosorption of Arsenic From Contaminated Water. <b>2017</b> , 45, 1600364		20
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375	In-situ growth of ZIF-8 on layered double hydroxide: Effect of Zn/Al molar ratios on their structural, morphological and adsorption properties. <b>2017</b> , 505, 206-212		43
374	Stabilization of arsenic and fluoride bearing spent adsorbent in clay bricks: Preparation, characterization and leaching studies. <i>Journal of Environmental Management</i> , <b>2017</b> , 200, 160-169	7.9	21
373	Remediation of groundwater contaminated with arsenic through enhanced natural attenuation: Batch and column studies. <b>2017</b> , 122, 545-556		17
372	Preconcentration on metal organic framework UiO-66 for slurry sampling hydride generation-atomic fluorescence spectrometric determination of ultratrace arsenic. <b>2017</b> , 133, 441-447		17
371	Effect of torrefaction on yield and quality of pyrolytic products of arecanut husk: An agro-processing wastes. <b>2017</b> , 242, 36-44		37
370	Facile one-pot construction of Fe <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction for arsenic removal by synchronous visible light catalysis oxidation and adsorption. <b>2017</b> , 194, 1-8		35
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365	Challenges to Achieving the Sustainable Development Goals. <b>2017</b> , 597-621		3
364	Zirconium oxide-coated sand based batch and column adsorptive removal of arsenic from water: Isotherm, kinetic and thermodynamic studies. <b>2017</b> , 26, 553-563		33
363	Selective, Photoenhanced Trapping/Detrapping of Arsenate Anions Using Mesoporous Blobfish Head TiO <sub>2</sub> Monoliths. <b>2017</b> , 5, 10826-10839		43

362	Stabilization of Fe/Cu nanoparticles by starch and efficiency of arsenic adsorption from aqueous solutions. <b>2017</b> , 76, 1		10
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