

Athanasia Tolkou

List of Publications by Year in descending order

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64
papers

3,021
citations

186209

28
h-index

161767

54
g-index

64
all docs

64
docs citations

64
times ranked

3674
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of arsenic from contaminated water sources by sorption onto iron-oxide-coated polymeric materials. <i>Water Research</i> , 2002, 36, 5141-5155.	5.3	398
2	Application of biological processes for the removal of arsenic from groundwaters. <i>Water Research</i> , 2004, 38, 17-26.	5.3	331
3	Biological treatment of Mn(II) and Fe(II) containing groundwater: kinetic considerations and product characterization. <i>Water Research</i> , 2004, 38, 1922-1932.	5.3	219
4	Arsenic Removal Using Iron Oxide Loaded Alginate Beads. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 6149-6155.	1.8	178
5	Novel and Conventional Technologies for Landfill Leachates Treatment: A Review. <i>Sustainability</i> , 2017, 9, 9.	1.6	127
6	Arsenic speciation and uranium concentrations in drinking water supply wells in Northern Greece: Correlations with redox indicative parameters and implications for groundwater treatment. <i>Science of the Total Environment</i> , 2007, 383, 128-140.	3.9	118
7	Sulfate Radical Technologies as Tertiary Treatment for the Removal of Emerging Contaminants from Wastewater. <i>Sustainability</i> , 2017, 9, 1604.	1.6	108
8	Human exposure to trace metals and arsenic via consumption of fish from river Chenab, Pakistan and associated health risks. <i>Chemosphere</i> , 2017, 168, 1004-1012.	4.2	85
9	Critical Review of the Effects of Glyphosate Exposure to the Environment and Humans through the Food Supply Chain. <i>Sustainability</i> , 2018, 10, 950.	1.6	80
10	Enhanced uranium removal from acidic wastewater by phosphonate-functionalized ordered mesoporous silica: Surface chemistry matters the most. <i>Journal of Hazardous Materials</i> , 2021, 413, 125279.	6.5	76
11	Carbonate effects and pH-dependence of uranium sorption onto bacteriogenic iron oxides: Kinetic and equilibrium studies. <i>Journal of Hazardous Materials</i> , 2007, 139, 31-37.	6.5	75
12	Arsenic Removal from Drinking Water: Experiences with Technologies and Constraints in Practice. <i>Journal of Environmental Engineering, ASCE</i> , 2017, 143, .	0.7	74
13	Arsenic occurrence in Europe: emphasis in Greece and description of the applied full-scale treatment plants. <i>Desalination and Water Treatment</i> , 2015, 54, 2100-2107.	1.0	69
14	The effect of groundwater composition on uranium(VI) sorption onto bacteriogenic iron oxides. <i>Water Research</i> , 2006, 40, 3646-3652.	5.3	61
15	Use of Iron- and Manganese-Oxidizing Bacteria for the Combined Removal of Iron, Manganese and Arsenic from Contaminated Groundwater. <i>Water Quality Research Journal of Canada</i> , 2006, 41, 117-129.	1.2	59
16	Quality of tube well water intended for irrigation and human consumption with special emphasis on arsenic contamination at the area of Punjab, Pakistan. <i>Environmental Geochemistry and Health</i> , 2017, 39, 847-863.	1.8	56
17	Adsorption of Arsenate by Nano Scaled Activated Carbon Modified by Iron and Manganese Oxides. <i>Sustainability</i> , 2017, 9, 1684.	1.6	53
18	Enhanced As(III) oxidation and removal by combined use of zero valent iron and hydrogen peroxide in aerated waters at neutral pH values. <i>Journal of Hazardous Materials</i> , 2015, 297, 1-7.	6.5	49

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19	Human lead (Pb) exposure via dust from different land use settings of Pakistan: A case study from two urban mountainous cities. <i>Chemosphere</i> , 2016, 155, 259-265.	4.2	46
20	Fluoride removal from water by composite Al/Fe/Si/Mg pre-polymerized coagulants: Characterization and application. <i>Chemosphere</i> , 2019, 231, 528-537.	4.2	42
21	Mathematical modeling of arsenic(V) adsorption onto iron oxyhydroxides in an adsorption-submerged membrane hybrid system. <i>Journal of Hazardous Materials</i> , 2020, 400, 123221.	6.5	38
22	Nanomaterials in Cementitious Composites: An Update. <i>Molecules</i> , 2021, 26, 1430.	1.7	38
23	Comparative Evaluation of Conventional and Alternative Methods for the Removal of Arsenic from Contaminated Groundwaters. <i>Reviews on Environmental Health</i> , 2006, 21, 25-41.	1.1	37
24	Removal of Arsenic, Chromium and Uranium from Water Sources by Novel Nanostructured Materials Including Graphene-Based Modified Adsorbents: A Mini Review of Recent Developments. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3241.	1.3	36
25	Reductive precipitation and removal of Cr(VI) from groundwaters by pipe flocculation-microfiltration. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12256-12262.	2.7	35
26	Application of a ceramic membrane contacting process for ozone and peroxone treatment of micropollutant contaminated surface water. <i>Journal of Hazardous Materials</i> , 2018, 358, 129-135.	6.5	34
27	Arsenic levels from different land-use settings in Pakistan: Bio-accumulation and estimation of potential human health risk via dust exposure. <i>Ecotoxicology and Environmental Safety</i> , 2015, 115, 187-194.	2.9	33
28	Batch and continuous dosing of conventional and composite coagulation agents for fouling control in a pilot-scale MBR. <i>Chemical Engineering Journal</i> , 2017, 311, 255-264.	6.6	33
29	Novel Water Treatment Processes Based on Hybrid Membrane-Ozonation Systems: A Novel Ceramic Membrane Contactor for Bubbleless Ozonation of Emerging Micropollutants. <i>Journal of Chemistry</i> , 2015, 2015, 1-12.	0.9	27
30	Production of demineralized water for use in thermal power stations by advanced treatment of secondary wastewater effluent. <i>Journal of Environmental Management</i> , 2017, 190, 132-139.	3.8	26
31	Pilot-Scale Phosphate Recovery from Secondary Wastewater Effluents. <i>Environmental Processes</i> , 2016, 3, 5-22.	1.7	25
32	Synthesis and coagulation performance of composite poly-aluminum-ferric-silicate-chloride coagulants in water and wastewater. <i>Desalination and Water Treatment</i> , 2015, 53, 3309-3318.	1.0	24
33	Recently Developed Adsorbing Materials for Fluoride Removal from Water and Fluoride Analytical Determination Techniques: A Review. <i>Sustainability</i> , 2021, 13, 7061.	1.6	22
34	Barium/Cobalt@Polyethylene Glycol Nanocomposites for Dye Removal from Aqueous Solutions. <i>Polymers</i> , 2021, 13, 1161.	2.0	21
35	Efficiency of Iron-Based Oxy-Hydroxides in Removing Antimony from Groundwater to Levels below the Drinking Water Regulation Limits. <i>Sustainability</i> , 2017, 9, 238.	1.6	20
36	Use of Novel Composite Coagulants for Arsenic Removal from Waters – Experimental Insight for the Application of Polyferric Sulfate (PFS). <i>Sustainability</i> , 2017, 9, 590.	1.6	20

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37	Activated Carbons for Arsenic Removal from Natural Waters and Wastewaters: A Review. <i>Water (Switzerland)</i> , 2021, 13, 2982.	1.2	18
38	Effect of climate change in WWTPs with a focus on MBR infrastructure. <i>Desalination and Water Treatment</i> , 2016, 57, 2344-2354.	1.0	17
39	Application of Composite Pre-Polymerized Coagulants for the Treatment of High-Strength Industrial Wastewaters. <i>Water (Switzerland)</i> , 2020, 12, 1258.	1.2	17
40	The Incorporation of Ceramic Membranes in MBR Systems for Wastewater Treatment: Advantages and Patented New Developments. <i>Recent Patents on Engineering</i> , 2014, 8, 24-32.	0.3	16
41	Chromium(VI) Removal from Water by Lanthanum Hybrid Modified Activated Carbon Produced from Coconut Shells. <i>Nanomaterials</i> , 2022, 12, 1067.	1.9	16
42	Effect of Climate Change in Wastewater Treatment Plants: Reviewing the Problems and Solutions. <i>Springer Water</i> , 2015, , 197-220.	0.2	15
43	Arsenic(III) and Arsenic(V) Removal from Water Sources by Molecularly Imprinted Polymers (MIPs): A Mini Review of Recent Developments. <i>Sustainability</i> , 2022, 14, 5222.	1.6	14
44	Response to Comment on "pH Dependence of Fenton Reagent Generation and As(III) Oxidation and Removal by Corrosion of Zero Valent Iron in Aerated Water". <i>Environmental Science & Technology</i> , 2009, 43, 3980-3981.	4.6	11
45	Simultaneous Removal of Arsenate and Chromate from Ground- and Surface- Waters by Iron-Based Redox Assisted Coagulation. <i>Sustainability</i> , 2020, 12, 5394.	1.6	11
46	Cr(VI) Removal from Ground Waters by Ferrous Iron Redox-Assisted Coagulation in a Continuous Treatment Unit Comprising a Plug Flow Pipe Reactor and Downflow Sand Filtration. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 802.	1.3	11
47	Occurrence of selected elements (Ti, Sr, Ba, V, Ga, Sn, Tl, and Sb) in deposited dust and human hair samples: implications for human health in Pakistan. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12234-12245.	2.7	10
48	Impact of O ₃ or O ₃ /H ₂ O ₂ treatment via a membrane contacting system on the composition and characteristics of the natural organic matter of surface waters. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12246-12255.	2.7	10
49	Phosphate Removal from Effluent of Secondary Wastewater Treatment: Characterization of Recovered Precipitates and Potential Re-use as Fertilizer. <i>Waste and Biomass Valorization</i> , 2016, 7, 851-860.	1.8	9
50	Applications of Up-Flow Anaerobic Sludge Blanket (UASB) and Characteristics of Its Microbial Community: A Review of Bibliometric Trend and Recent Findings. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10326.	1.2	8
51	EVALUATING GLOBAL MUNICIPAL SOLID WASTE MANAGEMENT EFFICIENCY FROM A CIRCULAR ECONOMY POINT OF VIEW. <i>WIT Transactions on Ecology and the Environment</i> , 2021, , .	0.0	8
52	Recent Advances in Water and Wastewater Treatment with Emphasis in Membrane Treatment Operations. <i>Water (Switzerland)</i> , 2019, 11, 45.	1.2	7
53	Graphene Oxide/Fe-Based Composite Pre-Polymerized Coagulants: Synthesis, Characterization, and Potential Application in Water Treatment. <i>Journal of Carbon Research</i> , 2020, 6, 44.	1.4	7
54	Wastewater Treatment in Membrane Bioreactors: The Use of Polyelectrolytes to Control Membrane Fouling. <i>Environmental Processes</i> , 2017, 4, 9-21.	1.7	6

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55	Fate of Cr(III) during Ozonation of Secondary Municipal Wastewater Effluent. <i>Ozone: Science and Engineering</i> , 2018, 40, 441-447.	1.4	6
56	Extraction and Purification of Phosphorus from the Ashes of Incinerated Biological Sewage Sludge. <i>Water (Switzerland)</i> , 2021, 13, 1102.	1.2	6
57	A Mini Review of Recent Findings in Cellulose-, Polymer- and Graphene-Based Membranes for Fluoride Removal from Drinking Water. <i>Journal of Carbon Research</i> , 2021, 7, 74.	1.4	6
58	Second-Hand Smoke Exposure Effects on Human Health: Evaluation of PM10 Concentrations in the External Areas of a University Campus. <i>Sustainability</i> , 2020, 12, 2948.	1.6	5
59	Enhancement of Methanogenic Activity in Volumetrically Undersized Reactor by Mesophilic Co-Digestion of Sewage Sludge and Aqueous Residue. <i>Sustainability</i> , 2021, 13, 7728.	1.6	4
60	Innovative aspects of environmental chemistry and technology regarding air, water, and soil pollution. <i>Environmental Science and Pollution Research</i> , 2021, 28, 58958-58968.	2.7	3
61	Review of Recent Patents on Coagulation / Flocculation (C/F) Process: Methods and Applications with Emphasis on Phosphates Removal. <i>Recent Patents on Materials Science</i> , 2014, 7, 151-163.	0.5	3
62	Consumption of Free Chlorine in an Aqueduct Scheme with Low Protection: Case Study of the New Aqueduct Simbrivio-Castelli (NASC), Italy. <i>Water (Switzerland)</i> , 2018, 10, 127.	1.2	2
63	Innovative Approaches for Drinking- and Waste-Water Treatment: An Editorial Review Summarizing and Assessing the Findings of the Special Issue. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2063.	1.3	2
64	Sustainable environmental chemistry and technology with focus on the Mediterranean area. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12189-12190.	2.7	0