Marios Tsezos

List of Publications by Year
in descending order

63	2,871	218677	175258
papers	citations	26 h-index	52 g-index

64	64	64	1732
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biosorption of uranium and thorium. Biotechnology and Bioengineering, 1981, 23, 583-604.	3.3	448
2	The mechanism of uranium biosorption byRhizopus arrhizus. Biotechnology and Bioengineering, 1982, 24, 385-401.	3.3	337
3	Comparison of the biosorption and desorption of hazardous organic pollutants by live and dead biomass. Water Research, 1989, 23, 561-568.	11.3	185
4	The mechanism of thorium biosorption byRhizopus arrhizus. Biotechnology and Bioengineering, 1982, 24, 955-969.	3.3	138
5	The role of chitin in uranium adsorption byR. arrhizus. Biotechnology and Bioengineering, 1983, 25, 2025-2040.	3.3	122
6	Recovery of uranium from biological adsorbents?desorption equilibrium. Biotechnology and Bioengineering, 1984, 26, 973-981.	3.3	115
7	Adsorption of radium-226 by biological origin absorbents. Biotechnology and Bioengineering, 1983, 25, 201-215.	3.3	76
8	The continuous recovery of uranium from biologically leached solutions using immobilized biomass. Biotechnology and Bioengineering, 1989, 34, 10-17.	3.3	75
9	Heavy metals removal by sand filters inoculated with metal sorbing and precipitating bacteria. Hydrometallurgy, 2003, 71, 235-241.	4.3	74
10	A batch reactor mass transfer kinetic model for immobilized biomass biosorption. Biotechnology and Bioengineering, 1988, 32, 545-553.	3.3	72
11	A systematic study on equilibrium and kinetics of biosorptive accumulation. The case of Ag and Ni. International Biodeterioration and Biodegradation, 1995, 35, 129-153.	3.9	69
12	A study of the effects of competing ions on the biosorption of metals. International Biodeterioration and Biodegradation, 1996, 38, 19-29.	3.9	67
13	PM10 composition during an intense Saharan dust transport event over Athens (Greece). Science of the Total Environment, 2011, 409, 4361-4372.	8.0	66
14	An investigation of engineering parameters for the use of immobilized biomass particles in biosorption. Journal of Chemical Technology and Biotechnology, 1990, 48, 29-39.	3.2	58
15	Removal of Hazardous Organic Pollutants by Adsorption on Microbial Biomass. Water Science and Technology, 1987, 19, 409-416.	2.5	50
16	Mechanism of aluminum interference on uranium biosorption by Rhizopus arrhizus. , 1997, 55, 16-27.		50
17	Composition and Mass Closure of PM2.5 in Urban Environment (Athens, Greece). Aerosol and Air Quality Research, 2013, 13, 72-82.	2.1	50
18	The Selective Extraction of Metals from Solution by Micro-Organisms. A Brief Overview. Canadian Metallurgical Quarterly, 1985, 24, 141-144.	1.2	44

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19	The mechanism of metals precipitation by biologically generated alkalinity in biofilm reactors. Water Research, 2003, 37, 3843-3854.	11.3	44
20	The adsorption of chloroethanes by microbial biomass. Water Research, 1986, 20, 851-858.	11.3	39
21	Metal precipitation in an ethanol-fed, fixed-bed sulphate-reducing bioreactor. Journal of Hazardous Materials, 2011, 189, 677-684.	12.4	38
22	Application of simplified rapid equilibrium models in simulating experimental breakthrough curves from fixed bed biosorption reactors. Hydrometallurgy, 2001, 59, 395-406.	4.3	37
23	A systematic study of chromium solubility in the presence of organic matter: consequences for the treatment of chromiumâ€containing wastewater. Journal of Chemical Technology and Biotechnology, 2007, 82, 802-808.	3.2	37
24	Influence of Saharan Dust Transport Events on PM2.5 Concentrations and Composition over Athens. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	35
25	Treatment of rinsing water from electroless nickel plating with a biologically active moving-bed sand filter. Hydrometallurgy, 2001, 59, 383-393.	4.3	31
26	Characterization, morphology and composition of biofilm and precipitates from a sulphate-reducing fixed-bed reactor. Journal of Hazardous Materials, 2008, 153, 514-524.	12.4	28
27	Biosorption sites of selected metals using electron microscopy. Comparative Biochemistry and Physiology A, Comparative Physiology, 1997, 118, 481-487.	0.6	27
28	Nickel removal from nickel plating waste water using a biologically active moving-bed sand filter. BioMetals, 2003, 16, 567-581.	4.1	26
29	A further insight into the mechanism of biosorption of metals, by examining chitin epr spectra. Talanta, 1986, 33, 225-232.	5.5	25
30	The selectivity of biosorption of hazardous organics by microbial biomass. Water Research, 1988, 22, 1245-1251.	11.3	24
31	Significance of biosorption for the hazardous organics removal efficiency of a biological reactor. Water Research, 1988, 22, 391-394.	11.3	23
32	Metal - Microbes Interactions: beyond Environmental Protection. Advanced Materials Research, 2009, 71-73, 527-532.	0.3	23
33	An Experimental and Modelling Study of Cu2+ Binding on Humic Acids at Various Solution Conditions. Application of the NICA-Donnan Model. Water, Air, and Soil Pollution, 2011, 218, 487-497.	2.4	23
34	The use of immobilised biomass to remove and recover radium from Elliot Lake uranium tailing streams. Hydrometallurgy, 1987, 17, 357-368.	4.3	20
35	The Use of a Mathematical Model for the Study of the Important Parameters in Immobilized Biomass Biosorption. Journal of Chemical Technology and Biotechnology, 1992, 53, 1-12.	3.2	20
36	Extraction of uranium from sea water using biological origin adsorbents. Canadian Journal of Chemical Engineering, 1984, 62, 559-561.	1.7	19

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37	Study on the kinetics of hazardous pollutants adsorption and desorption by biomass: Mechanistic considerations. Journal of Chemical Technology and Biotechnology, 1991, 50, 507-521.	3.2	19
38	Fractionation and leachability of Fe, Zn, Cu and Ni in the sludge from a sulphate-reducing bioreactor treating metal-bearing wastewater. Environmental Science and Pollution Research, 2018, 25, 35883-35894.	5.3	19
39	A method for the calculation of biological film volume in a fluidized bed biological reactor. Water Research, 1980, 14, 689-693.	11.3	18
40	The kinetics of radium biosorption. The Chemical Engineering Journal, 1986, 33, B35-B41.	0.3	17
41	A mechanistic study on the fate of malathion following interaction with microbial biomass. Water Research, 1991, 25, 1039-1046.	11.3	14
42	An experimental and modeling study of humic acid concentration effect on H+ binding: Application of the NICAâ€“Donnan model. Journal of Colloid and Interface Science, 2009, 339, 330-335.	9.4	13
43	Ionic Competition Effects in a Continuous Uranium Biosorptive Recovery Process. Journal of Chemical Technology and Biotechnology, 1997, 70, 198-206.	3.2	12
44	Modelling of microbial metabolism stoichiometry: Application in bioleaching processes. Hydrometallurgy, 2006, 83, 29-34.	4.3	12
45	Photolytic and photocatalytic alterations of humic substances in UV (254 nm) and Solar Cocentric Parabolic Concentrator (CPC) reactors. Desalination, 2009, 248, 843-851.	8.2	12
46	Humic Acids Copper Binding Following Their Photochemical Alteration by Simulated Solar Light. Aquatic Geochemistry, 2010, 16, 207-218.	1.3	12
47	The elution of radium adsorbed by microbial bioman. The Chemical Engineering Journal, 1987, 34, B57-B64.	0.3	11
48	A Study of the Operating Parameters of a Sulphate-Reducing Fixed-Bed Reactor for the Treatment of Metal-Bearing Wastewater. Advanced Materials Research, 2007, 20-21, 230-234.	0.3	11
49	The Selective Extraction of Metals from Solution by Micro-Organisms. A Brief Overview. Canadian Metallurgical Quarterly, 1985, 24, 141-144.	1.2	9
50	Biosorption of metals. The experience accumulated and the outlook for technology development. Process Metallurgy, 1999, 9, 171-173.	0.1	8
51	Biological Removal of Ions: Principles and Applications. Advanced Materials Research, 2007, 20-21, 589-596.	0.3	8
52	Biosorption: A Mechanistic Approach. Advances in Biochemical Engineering/Biotechnology, 2013, 141, 173-209.	1.1	8
53	Lead removal at trace concentrations from water by inactive yeast cells. Communications Earth & Environment, 2022, 3, .	6.8	8
54	Recovery of Strategic Elements by Biosorption. Annals of the New York Academy of Sciences, 1983, 413, 310-312.	3.8	7

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55	Adsorptive treatment with microbial biomass of 226 Ra-containing waste waters. The Chemical Engineering Journal, 1986, 32, B29-B38.	0.3	7
56	Removal of nickel from plating rinsing water with a moving-bed sand filter inoculated with metal sorbing and precipitating bacteria. Process Metallurgy, 1999, 9, 383-392.	0.1	7
57	Mechanism of palladium biosorption by microbial biomass. The effects of metal ionic speciation and solution co-ions. Process Metallurgy, 1999, 9, 449-462.	0.1	6
58	Recent advances in the mechanistic understanding of metal mobility and interaction with microbial biomass. Research in Microbiology, 1997, 148, 515-517.	2.1	4
59	Modelling of fixed bed biosorption columns in continuous metal ion removal processes. The case of single solute local equilibrium. Process Metallurgy, 1999, 9, 429-448.	0.1	4
60	Adsorption of radium-226 from solution by the container walls. Canadian Journal of Chemical Engineering, 1986, 64, 346-348.	1.7	3
61	The â€˜behaviourâ€™ of five metal biosorbing and bioprecipitating bacterial strains, inoculated in a moving-bed sand filter. Process Metallurgy, 1999, , 373-382.	0.1	3
62	The Pilot Plant Testing of the Continuous Extraction of Radionuclides Using Immobilized Biomass. , 1991, , 249-260.		3
63	Dynamic Modelling of Biofilm Reactors with Immobilised Sulfate-Reducing Bacteria. Advanced Materials Research, 0, 1130, 539-542.	0.3	1