

Bechir Hamrouni

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,526
citations

361296

20
h-index

377752

34
g-index

80
all docs

80
docs citations

80
times ranked

1715
citing authors

#	ARTICLE	IF	CITATIONS
1	Small scale desalination pilots powered by renewable energy sources: case studies. <i>Desalination</i> , 2005, 183, 151-165.	4.0	106
2	Application of response surface methodology for chromium removal by adsorption on low-cost biosorbent. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019, 189, 18-26.	1.8	85
3	Boron removal by adsorption onto activated alumina and by reverse osmosis. <i>Desalination</i> , 2008, 223, 31-37.	4.0	73
4	Performance of Reverse Osmosis and Nanofiltration in the Removal of Fluoride from Model Water and Metal Packaging Industrial Effluent. <i>Separation Science and Technology</i> , 2014, 49, 1135-1145.	1.3	72
5	Equilibrium and kinetic studies of adsorption of silica onto activated alumina. <i>Desalination</i> , 2007, 206, 141-146.	4.0	64
6	RO membrane autopsy of Zarzis brackish water desalination plant. <i>Desalination</i> , 2008, 220, 258-266.	4.0	59
7	Hexavalent Chromium Removal from Model Water and Car Shock Absorber Factory Effluent by Nanofiltration and Reverse Osmosis Membrane. <i>International Journal of Analytical Chemistry</i> , 2017, 2017, 1-10.	0.4	54
8	Synthesis of novel adsorbent by intercalation of biopolymer in LDH for the removal of arsenic from synthetic and natural water. <i>Journal of Environmental Sciences</i> , 2020, 91, 246-261.	3.2	52
9	Removal of Cd(II) ions from aqueous solution and industrial effluent using reverse osmosis and nanofiltration membranes. <i>Water Science and Technology</i> , 2015, 72, 1206.	1.2	49
10	Silica removal using ion-exchange resins. <i>Desalination</i> , 2004, 167, 273-279.	4.0	44
11	Analytical aspects of silica in saline water " application to desalination of brackish waters. <i>Desalination</i> , 2001, 136, 225-232.	4.0	43
12	Treatment of heavy metal polluted industrial wastewater by a new water treatment process: ballasted electroflocculation. <i>Journal of Hazardous Materials</i> , 2018, 344, 968-980.	6.5	38
13	Coupling of membrane processes for brackish water desalination. <i>Desalination</i> , 2007, 203, 331-336.	4.0	36
14	Electrodialytic desalination of brackish water: effect of process parameters and water characteristics. <i>Ionics</i> , 2010, 16, 621-629.	1.2	31
15	Thermodynamic description of saline waters " Prediction of scaling limits in desalination processes. <i>Desalination</i> , 2001, 137, 275-284.	4.0	30
16	Phenol removal from water by AG reverse osmosis membrane. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 982-989.	1.3	28
17	Selectivity of anion exchange membrane modified with polyethyleneimine. <i>Ionics</i> , 2012, 18, 711-717.	1.2	27
18	Effect of some physical and chemical parameters on fluoride removal by nanofiltration. <i>Ionics</i> , 2010, 16, 245-253.	1.2	25

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19	Characterization and physicochemical aspects of novel cellulose-based layered double hydroxide nanocomposite for removal of antimony and fluoride from aqueous solution. <i>Journal of Environmental Sciences</i> , 2021, 102, 301-315.	3.2	25
20	Date Palm Fiber as a novel precursor for porous activated carbon: Optimization, characterization and its application as Tylosin antibiotic scavenger from aqueous solution. <i>Surfaces and Interfaces</i> , 2021, 24, 101047.	1.5	25
21	Removal of chromium by adsorption on activated alumina. <i>Desalination and Water Treatment</i> , 2011, 26, 279-286.	1.0	24
22	Optimization of the electrocoagulation process for the removal of lead from water using aluminium as electrode material. <i>Desalination and Water Treatment</i> , 2015, 56, 2672-2681.	1.0	23
23	Modelling and optimization of hexavalent chromium removal from aqueous solution by adsorption on low-cost agricultural waste biomass using response surface methodological approach. <i>Water Science and Technology</i> , 2021, 84, 552-575.	1.2	21
24	Effect of temperature on ion exchange equilibrium between AMX membrane and binary systems of $\text{Cl}^{\sup>\hat{\sim}}$, $\text{NO}^{\sup>\hat{\sim}}$ ₃ and $\text{SO}^{\sup>\hat{\sim}}$ ₄ ions. <i>Desalination and Water Treatment</i> , 2010, 23, 32-38.	1.0	20
25	Boron Removal by Electrocoagulation Using Full Factorial Design. <i>Journal of Water Resource and Protection</i> , 2013, 05, 867-875.	0.3	20
26	Boron removal from water by adsorption onto activated carbon prepared from palm bark: kinetic, isotherms, optimisation and breakthrough curves modeling. <i>Water Science and Technology</i> , 2020, 81, 321-332.	1.2	20
27	Intensification of light green SF yellowish (LGSFY) photodegradation in water by iodate ions: Iodine radicals implication in the degradation process and impacts of water matrix components. <i>Science of the Total Environment</i> , 2019, 652, 1219-1227.	3.9	18
28	Iron removal from brackish water by electrodialysis. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2521-2529.	1.2	17
29	Influence of operating conditions on the retention of fluoride from water by nanofiltration. <i>Desalination and Water Treatment</i> , 2011, 29, 39-46.	1.0	16
30	Modelling of the limiting current density of an electrodialysis process by response surface methodology. <i>Ionics</i> , 2018, 24, 617-628.	1.2	16
31	Temperature effect on ion exchange equilibrium between CMX membrane and electrolytes solutions. <i>Journal of Water Reuse and Desalination</i> , 2015, 5, 535-541.	1.2	15
32	Determination of the selectivity coefficient of the CMX cationic membrane at various ionic strengths. <i>Desalination and Water Treatment</i> , 2009, 10, 47-52.	1.0	14
33	Competitive adsorption of fluoride and natural organic matter onto activated alumina. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2326-2336.	1.2	14
34	Response surface methodology for dyes removal by adsorption onto alginate calcium. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3473-3482.	1.2	14
35	Copper(II) Removal from Synthetic Wastewater Solutions Using Supported Liquid Membrane and Polymer Inclusion Membrane. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	0.7	14
36	Removal of zinc ions from synthetic and industrial Tunisian wastewater by electrocoagulation using aluminum electrodes. <i>Desalination and Water Treatment</i> , 2015, 56, 2689-2698.	1.0	13

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37	Optimization studies for water defluoridation by adsorption: application of a design of experiments. <i>Desalination and Water Treatment</i> , 2016, 57, 9889-9899.	1.0	13
38	Optimization of Chromium (Vi) Removal by Donnan Dialysis. <i>American Journal of Analytical Chemistry</i> , 2013, 04, 306-313.	0.3	13
39	Electrodialytic Defluoridation of Brackish Water: Effect of Process Parameters and Water Characteristics. <i>Clean - Soil, Air, Water</i> , 2010, 38, 623-629.	0.7	12
40	Study of the influence of operating parameters on boron removal by a reverse osmosis membrane. <i>Desalination and Water Treatment</i> , 2015, 56, 2653-2662.	1.0	12
41	Use of Electrocoagulation with Aluminum Electrodes to Reduce Hardness in Tunisian Phosphate Mining Process Water. <i>Mine Water and the Environment</i> , 2016, 35, 310-317.	0.9	12
42	Application of Donnan Dialysis Coupled to Adsorption onto Activated Alumina for Chromium (VI) Removal. <i>American Journal of Analytical Chemistry</i> , 2013, 04, 420-425.	0.3	11
43	Factorial experimental design applied to adsorption of cadmium on activated alumina. <i>Journal of Water Reuse and Desalination</i> , 2018, 8, 76-85.	1.2	11
44	Operating analysis of a direct energy coupled desalination family prototype. <i>Desalination</i> , 2004, 168, 95-100.	4.0	10
45	Boron removal from brackish water by reverse osmosis and nanofiltration membranes: application of Spiegler's Kedem model and optimization. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 684-694.	1.0	10
46	Removal of phosphate by Donnan dialysis coupled with adsorption onto calcium alginate beads. <i>Water Science and Technology</i> , 2019, 80, 117-125.	1.2	10
47	Optimization of boron removal from water by electrodialysis using response surface methodology. <i>Water Science and Technology</i> , 2020, 81, 293-300.	1.2	10
48	Calco-carbonic equilibrium calculation. <i>Desalination</i> , 2003, 152, 167-174.	4.0	9
49	Application of Response Surface Methodology to Optimize Nitrate Removal from Water by Electrodialysis. <i>Chemistry Letters</i> , 2016, 45, 1369-1372.	0.7	9
50	Boron removal by membrane processes. <i>Desalination and Water Treatment</i> , 2009, 5, 119-123.	1.0	8
51	Effect of ionic strength on the ion exchange equilibrium between AMX membrane and electrolyte solutions. <i>Water Quality Research Journal of Canada</i> , 2016, 51, 60-68.	1.2	8
52	Application of response surface methodology and artificial neural network: modeling and optimization of Cr(VI) adsorption process using Dowex 1X8 anion exchange resin. <i>Water Science and Technology</i> , 2016, 73, 2402-2412.	1.2	8
53	Ion exchange equilibrium between ion exchange membrane and electrolyte solutions. <i>Desalination</i> , 2008, 221, 448-454.	4.0	7
54	Equilibrium and Kinetic Studies of Adsorption of Boron on Activated Alumina. <i>Water Environment Research</i> , 2009, 81, 2455-2459.	1.3	7

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55	Modification of the AMX membrane surface: Temperature dependence of anion exchange equilibrium. Canadian Journal of Chemical Engineering, 2013, 91, 1465-1473.	0.9	7
56	Influence of operating conditions on the retention of phenol in water by reverse osmosis SG membrane characterized using Speigler's Kedem model. Desalination and Water Treatment, 2014, 52, 1792-1803.	1.0	7
57	Determination of Chromium (VI) in Airborne Particulate Matter by Electrothermal Atomic Absorption Spectrometry. Analytical Letters, 2017, 50, 2012-2022.	1.0	7
58	Development of a predictive model of the limiting current density of an electrodialysis process using response surface methodology. Membrane Water Treatment, 2016, 7, 127-141.	0.5	7
59	Ion exchange equilibrium between cation exchange membranes and aqueous solutions of K^+/Na^+ , K^+/Ca^{2+} , and Na^+/Ca^{2+} . Ionics, 2009, 15, 445-451.	1.2	6
60	Adsorption of Chromium onto Activated Alumina: Kinetics and Thermodynamics Studies. Water Environment Research, 2013, 85, 99-104.	1.3	6
61	Optimization of electrocoagulation operating parameters and reactor design for zinc removal: application to industrial Tunisian wastewater. Desalination and Water Treatment, 2015, 56, 2706-2714.	1.0	6
62	Adsorption of F^- , NO_3^- , and SO_4^{2-} on AFN Anionic Membrane: Kinetics and Thermodynamics Studies. American Journal of Analytical Chemistry, 2013, 04, 501-509.	0.3	6
63	An economic and sensitive method for extracting chromium speciation in airborne inhalable dust, using a green sample treatment coupled with electrothermal atomic absorption. Separation Science and Technology, 2020, 55, 2772-2778.	1.3	5
64	Highly Cost-Effective and Reuse-Oriented Treatment of Cadmium-Polluted Mining Wastewater by Electrocoagulation Process. Journal of Environmental Engineering, ASCE, 2016, 142, 04016061.	0.7	4
65	Application of Adsorption Models for Fluoride, Nitrate and Sulfate Removal by AMX Membrane. International Journal of Technology, 2014, 5, 60.	0.4	4
66	Study of the ion exchange equilibrium of Cl^- , NO_3^- , and SO_4^{2-} ions on the AMX membrane. Ionics, 2013, 19, 329-334.	1.2	3
67	Ion Exchange Equilibrium between DOWEX 1X8 Resin Modified by Polyethyleneimine and Electrolyte Solutions. Journal of Water Resource and Protection, 2013, 05, 1059-1065.	0.3	3
68	Physicochemical characterization of a polymeric conductor: application to defluoridation of industrial effluent by electrodialysis. Turkish Journal of Chemistry, 2018, 42, 121-131.	0.5	3
69	Electrodialytic Removal of Cadmium from Brackish Water: Effects of Operating Parameters. Journal of Membrane and Separation Technology, 2014, 3, 67-77.	0.4	3
70	Effect of ionic strength on ion exchange equilibrium between cationic membranes and K^+/Na^+ , K^+/Li^+ and Na^+/Li^+ binary systems. Desalination and Water Treatment, 2010, 22, 265-270.	1.0	2
71	Modification of the AMX membrane surface by polyethyleneimine: Effect of ionic strength on the membrane ion exchange selectivity. Canadian Journal of Chemical Engineering, 2016, 94, 2386-2393.	0.9	2
72	Boron removal from model water by RO and NF membranes characterized using S-K model. Membrane Water Treatment, 2016, 7, 193-207.	0.5	2

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73	Combining adsorption on activated carbon with electrocoagulation process for copper removal from used water. , 0, 83, 212-221.		2
74	Comparison of adsorption models for the removal of fluorides, nitrates and sulfates by adsorption onto AFN membrane. Water Quality Research Journal of Canada, 2016, 51, 106-116.	1.2	1
75	Understanding of phenolic compound retention mechanisms on PES-UF membrane. Turkish Journal of Chemistry, 2017, 41, 813-825.	0.5	1
76	Equilibrium and kinetic studies of adsorption of boron on activated alumina. Water Environment Research, 2009, 81, 2455-9.	1.3	1
77	Adsorption of cadmium onto activated alumina: kinetics and thermodynamics studies. , 0, 83, 233-243.		0
78	Effect of temperature on the adsorption of fluorides, nitrates and sulfates onto modified AFN membrane. , 0, 83, 204-211.		0