

Stanislav Melnikov

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

470
citations

759055

12
h-index

794469

19
g-index

20
all docs

20
docs citations

20
times ranked

317
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous bipolar membranes and their application in electro dialysis. Desalination, 2014, 342, 183-203.	4.0	81
2	Water splitting at an anion-exchange membrane as studied by impedance spectroscopy. Journal of Membrane Science, 2015, 496, 78-83.	4.1	49
3	Ion transport and electrochemical stability of strongly basic anion-exchange membranes under high current electro dialysis conditions. Journal of Membrane Science, 2017, 526, 60-72.	4.1	44
4	Pilot scale complex electro dialysis technology for processing a solution of lithium chloride containing organic solvents. Separation and Purification Technology, 2017, 189, 74-81.	3.9	38
5	Electro dialysis treatment of secondary steam condensate obtained during production of ammonium nitrate. Technical and economic analysis. Separation and Purification Technology, 2016, 157, 179-191.	3.9	37
6	Effect of cation-exchange layer thickness on electrochemical and transport characteristics of bipolar membranes. Journal of Applied Electrochemistry, 2013, 43, 1117-1129.	1.5	31
7	Effect of d-metal hydroxides on water dissociation in bipolar membranes. Petroleum Chemistry, 2011, 51, 577-584.	0.4	26
8	Conversion of water-organic solution of sodium naphthenates into naphthenic acids and alkali by electro dialysis with bipolar membranes. Separation and Purification Technology, 2019, 212, 929-940.	3.9	25
9	Permselectivity of bilayered ion-exchange membranes in ternary electrolyte. Journal of Membrane Science, 2020, 608, 118152.	4.1	25
10	Peculiarities of transport-structural parameters of ion-exchange membranes in solutions containing anions of carboxylic acids. Journal of Membrane Science, 2018, 557, 1-12.	4.1	23
11	Transport properties of bilayer and multilayer surface-modified ion-exchange membranes. Journal of Membrane Science, 2019, 590, 117272.	4.1	21
12	Water Splitting and Transport of Ions in Electromembrane System with Bilayer Ion-Exchange Membrane. Membranes, 2020, 10, 346.	1.4	19
13	Reactive separation of inorganic and organic ions in electro dialysis with bilayer membranes. Separation and Purification Technology, 2021, 268, 118561.	3.9	11
14	Prediction of the mass exchange characteristics of industrial electro dialyzer concentrators. Russian Journal of Electrochemistry, 2014, 50, 32-37.	0.3	10
15	Catalysis of water splitting reaction in asymmetric bipolar membranes with different chemical composition of cation-exchange layer. , 0, 124, 30-36.		8
16	Use of the Microheterogeneous Model to Assess the Applicability of Ion-Exchange Membranes in the Process of Generating Electricity from a Concentration Gradient. Membranes, 2021, 11, 406.	1.4	7
17	The effect of silver ions and nanoparticles on the properties of ion-exchange materials. Russian Journal of Electrochemistry, 2011, 47, 200-208.	0.3	4
18	Removal of Excess Alkali from Sodium Naphthenate Solution by Electro dialysis Using Bilayer Membranes for Subsequent Conversion to Naphthenic Acids. Membranes, 2021, 11, 980.	1.4	3

#	ARTICLE	IF	CITATIONS
19	Using a microheterogeneous model to assess the applicability of ion-exchange membranes in the process of reverse electrodialysis. <i>Chimica Techno Acta</i> , 2021, 8, 20218205.	0.3	2