

# Mikhail G Tokmachev

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

117  
citations

1478505

6  
h-index

1372567

10  
g-index

27  
all docs

27  
docs citations

27  
times ranked

123  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of uranium sorption onto weakly basic anion exchangers. <i>Reactive and Functional Polymers</i> , 2008, 68, 1072-1080.	4.1	21
2	Investigation of cyclic self-sustaining ion exchange process for softening water solutions on the basis of mathematical modeling. <i>Reactive and Functional Polymers</i> , 2008, 68, 1245-1252.	4.1	15
3	Influence of the environment on swelling of hydrophilic polymers. <i>Reactive and Functional Polymers</i> , 2013, 73, 1137-1143.	4.1	14
4	The properties of water in solutions of hydrophilic polymers. <i>Russian Journal of Physical Chemistry A</i> , 2009, 83, 1321-1325.	0.6	9
5	The properties of water in swollen cross-linked polystyrene sulfo acids. <i>Russian Journal of Physical Chemistry A</i> , 2008, 82, 1863-1869.	0.6	6
6	Mathematical modelling of the sorption dynamics of radionuclides by natural clinoptilolite in permeable reactive barriers. <i>Clay Minerals</i> , 2011, 46, 233-240.	0.6	6
7	Permeable reactive barriers based on natural zeolites from Kazakhstan in solving ecological problems: Mathematical model and simulation. <i>Geochemistry International</i> , 2017, 55, 38-46.	0.7	6
8	Analysis of the swelling or shrinking kinetics of crosslinked hydrophilic polymers by mathematical modeling. <i>Journal of Mathematical Chemistry</i> , 2017, 55, 142-152.	1.5	5
9	Swelling kinetics of cross-linked polymer gels based on polystyrene and poly(vinyl alcohol) in aqueous solutions of electrolytes and sucrose. <i>Colloid Journal</i> , 2017, 79, 740-747.	1.3	4
10	Using Crosslinked Polyvinyl Alcohol Granules for the Determination of the Composition of Mixed Electrolyte Solutions. <i>Journal of Analytical Chemistry</i> , 2019, 74, 834-838.	0.9	4
11	Simulation of capacitive deionization accounting the change of Stern layer thickness. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 2169-2181.	1.5	4
12	High-sensitivity X-ray fluorescence analysis of solutions with the use of a sorption accumulation microsystem. <i>Journal of Analytical Chemistry</i> , 2009, 64, 916-920.	0.9	3
13	The Effects of Polymer Properties and Solution Composition on the Distribution, Properties, and Amount of Water in Swollen Ion Exchangers. <i>Colloid Journal</i> , 2018, 80, 91-95.	1.3	3
14	Effect of Ion Hydration on the Degree of Swelling of a Crosslinked Polyvinyl Alcohol Gel. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 95-101.	0.6	3
15	Study of a low-frequency oscillation phenomena associated with a diffusion process via a hollow-fiber membrane. <i>Moscow University Physics Bulletin (English Translation of Vestnik) Tj ETQq1 1 0.784314 rgrB /Overlock 10 T 5</i>		
16	Sorption process of toxic pollutions by natural zeolite as a geochemical barrier. <i>Mathematical Models and Computer Simulations</i> , 2010, 2, 733-737.	0.5	2
17	Qualitative analysis of physical factors that determine activity coefficients of electrolytes. III. Mixtures of electrolytes. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 592-601.	1.5	2
18	Modeling the process of capacitive deionization of solutions at supposing complex structure of the pores of the electrodes. <i>Journal of Mathematical Chemistry</i> , 2021, 59, 1054-1067.	1.5	2

#	ARTICLE	IF	CITATIONS
19	Mathematical modelling of low-frequency oscillations in solute transport by diffusion through a membrane. <i>Journal of Mathematical Chemistry</i> , 2011, 49, 629-642.	1.5	1
20	Kinetics of the swelling of a gel of cross-linked polyvinyl alcohol during the synthesis of copper-containing composite based on it. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 1228-1233.	0.6	1
21	Influence of the sorbed acids on the swelling degree of the strongly basic ion exchanger. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 1140-1153.	1.5	1
22	Modeling the Operation of a Microseparator Taking into Account the Changes in the Thickness of the Stern Layer on the Surfaces of Electrode Pores. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 2528-2533.	0.6	1
23	Phase Properties of Polymer Gels and Influence of the Composition of the External Solution. <i>Moscow University Chemistry Bulletin</i> , 2019, 74, 209-215.	0.6	1
24	Granulated Metamaterial Cross-Linked Polyvinyl Alcohol-Magnetite for Use in Optical Micrometry. <i>Theoretical Foundations of Chemical Engineering</i> , 2021, 55, 1023-1028.	0.7	1
25	A study of the applicability of a method for successive determination of the kinetic coefficients of sorption on the basis of mathematical modeling. <i>Moscow University Physics Bulletin (English)</i> Tj ETQq1 1 0.784314rgBT /Overlock 10 T	0.784314	0
26	Study of a reagentless cyclic ion exchange process for natural-water treatment. <i>Mathematical Models and Computer Simulations</i> , 2009, 1, 165-179.	0.5	0
27	Comparative Investigation of the Structure, Phase Composition, and Mechanical Properties of Ni-Based High-Temperature Alloys Manufactured by Different Methods. <i>Inorganic Materials: Applied Research</i> , 2020, 11, 713-720.	0.5	0