Alexander Vikhansky

List of Publications by Year
in descending order

14	207	1040056 9	1125743 13
papers	citations	h-index	g-index

14	14	14	167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modelling of a RDC using a combined CFD-population balance approach. Chemical Engineering Science, 2004, 59, 2597-2606.	3.8	51
2	Taylor dispersion in heterogeneous porous media: Extended method of moments, theory, and modelling with two-relaxation-times lattice Boltzmann scheme. Physics of Fluids, 2014, 26, .	4.0	31
3	CFD modelling of turbulent liquidâ€“liquid dispersion in a static mixer. Chemical Engineering and Processing: Process Intensification, 2020, 149, 107840.	3.6	21
4	Effect of diffusion on residence time distribution in chaotic channel flow. Chemical Engineering Science, 2008, 63, 1866-1870.	3.8	19
5	Direct quadrature spanning tree method for solution of the population balance equations. Journal of Aerosol Science, 2013, 55, 78-88.	3.8	17
6	Adaptive multiply size group method for CFDâ€population balance modelling of polydisperse flows. Canadian Journal of Chemical Engineering, 2015, 93, 1327-1334.	1.7	16
7	Taylor dispersion in finite-length capillaries. Chemical Engineering Science, 2011, 66, 642-649.	3.8	15
8	Simulation of dispersion of stabilized Water droplets in a turbulent oil flow through a horizontal tubing. Chemical Engineering Research and Design, 2019, 151, 261-269.	5.6	10
9	Modelling dispersion of immiscible fluids in a turbulent Couette flow. Canadian Journal of Chemical Engineering, 2019, 97, 17-26.	1.7	9
10	Determination of the diffusivity, dispersion, skewness and kurtosis in heterogeneous porous flow. Part I: Analytical solutions with the extended method of moments.. Advances in Water Resources, 2018, 115, 60-87.	3.8	6
11	A model of droplet breakup in a turbulent flow for a high dispersed phase holdup. Chemical Engineering Science, 2021, 232, 116350.	3.8	6
12	A model of breakup of a rising bubble in a turbulent flow. Chemical Engineering Science, 2020, 226, 115846.	3.8	5
13	Optimization of carbon dioxide dissolution in an injection tubing for geologic sequestration in aquifers. Journal of Petroleum Science and Engineering, 2021, , 109805.	4.2	1
14	An Interfacial Curvature Distribution Model and Phase Inversion. AICHE Journal, 2020, 66, e15992.	3.6	0