Vasily Kirsh

List of Publications by Year
in descending order

59 papers	393 citations	932766 10 h-index	887659 17 g-index
60 all docs	60 docs citations	60 times ranked	239 citing authors

#	Article	IF	Citations
1	Calculation of the van der Waals force between a spherical particle and an infinite cylinder. Advances in Colloid and Interface Science, 2003, 104, 311-324.	7.0	41
2	Deposition of Aerosol Nanoparticles in Fibrous Filters. Colloid Journal, 2003, 65, 726-732.	0.5	38
3	Simulation of the temperature-driven pervaporation of dilute 1-butanol aqueous mixtures through a PTMSP membrane in a cross-flow module. Petroleum Chemistry, 2011, 51, 542-554.	0.4	36
4	Stokes flow past periodic rows of porous cylinders. Theoretical Foundations of Chemical Engineering, 2006, 40, 465-471.	0.2	22
5	Stokes flow in model fibrous filters. Separation and Purification Technology, 2007, 58, 288-294.	3.9	18
6	Simulation of convective-diffusional processes in hollow fiber membrane contactors. Separation and Purification Technology, 2016, 167, 63-69.	3.9	17
7	Stokes flow in periodic systems of parallel cylinders with porous permeable shells. Colloid Journal, 2006, 68, 173-181.	0.5	16
8	The Effect of van der Waals' Forces on Aerosol Filtration with Fibrous Filters. Colloid Journal, 2000, 62, 714-720.	0.5	15
9	Numerical simulation of solute removal from a cross-flow past a row of parallel hollow-fiber membranes. Separation and Purification Technology, 2020, 242, 116834.	3.9	13
10	Hydrodynamics of a thermopervaporation flow membrane module with cylindrical spacers. Petroleum Chemistry, 2013, 53, 578-584.	0.4	11
11	Efficiency of inertial deposition of aerosol particles in fibrous filters with regard to particle rebounds from fibers. Colloid Journal, 2011, 73, 389-393.	0.5	10
12	Diffusion deposition of aerosol nanoparticles in model granular filters. Colloid Journal, 2013, 75, 656-659.	0.5	9
13	Elastic vibrations of a fiber due to impact of an aerosol particle and their influence on the efficiency of fibrous filters. Physical Review E, 2011, 83, 056303.	0.8	8
14	The viscous drag of three-dimensional model fibrous filters. Colloid Journal, 2006, 68, 261-266.	0.5	7
15	Inertial deposition of aerosol particles from laminar flows in fibrous filters. Colloid Journal, 2010, 72, 211-215.	0.5	7
16	Penetration of nanoparticles through screen-type diffusion batteries. Colloid Journal, 2010, 72, 491-498.	0.5	7
17	The Deposition of Aerosol Submicron Particles on Ultrafine Fiber Filters. Colloid Journal, 2004, 66, 311-315.	0.5	6
18	Diffusional Deposition of Heavy Submicron Aerosol Particles on Fibrous Filters. Colloid Journal, 2005, 67, 313-317.	0.5	6

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19	Deposition of aerosol nanoparticles in filters composed of fibers with porous shells. Colloid Journal, 2007, 69, 615-619.	0.5	5
20	Kinetics of the clogging and optimization of prefilters in a two-stage air cleaning system. Theoretical Foundations of Chemical Engineering, 2010, 44, 76-85.	0.2	5
21	Title is missing!. Colloid Journal, 2001, 63, 68-73.	0.5	4
22	Optimization of Parameters of Filters in a Multistage System of Fine Gas Filtration. Theoretical Foundations of Chemical Engineering, 2003, 37, 218-225.	0.2	4
23	The Effect of van der Waals Forces on the Deposition of Highly Dispersed Aerosol Particles on Ultrafine Fibers. Colloid Journal, 2004, 66, 444-450.	0.5	4
24	Deposition of nanoparticles in filters composed of permeable porous fibers. Colloid Journal, 2007, 69, 609-614.	0.5	4
25	Simulation of nanofibrous filters produced by the electrospinning method: 1. Pressure drop and deposition of nanoparticles. Colloid Journal, 2008, 70, 574-583.	0.5	4
26	Simulation of nanofibrous filters produced by the electrospinning method: 2. The effect of gas slip on the pressure drop. Colloid Journal, 2008, 70, 584-588.	0.5	4
27	Filtration of aerosols with fiber materials FP. Russian Journal of General Chemistry, 2009, 79, 2045-2050.	0.3	4
28	The effect of gas slip on pressure drop and deposition of submicron particles in model granular filters. Colloid Journal, 2016, 78, 459-464.	0.5	4
29	Optimization of the Aerosol Filter Parameters. Colloid Journal, 2001, 63, 471-475.	0.5	3
30	The drag of the row of parallel chains of spherical particles in the Stokes flow. Colloid Journal, 2006, 68, 387-389.	0.5	3
31	Diffusional deposition of nanoparticles in a 3D model fiber filter. Russian Journal of Physical Chemistry A, 2011, 85, 1949-1953.	0.1	3
32	Penetration of aerosol particles through fine fibrous filters. Theoretical Foundations of Chemical Engineering, 2011, 45, 891-897.	0.2	3
33	Stokes flow and deposition of aerosol nanoparticles in model filters composed of elliptic fibers. Colloid Journal, 2011, 73, 345-351.	0.5	3
34	A model of a dust-loaded filter with asymmetric deposit of particles on fibers. Colloid Journal, 2014, 76, 435-438.	0.5	3
35	Deposition of nanoparticles in model multilayer fibrous filters with a two-dimensional flow field. Colloid Journal, 2015, 77, 25-31.	0.5	3
36	Filtration of nanoaerosols through a granular layer. Colloid Journal, 2017, 79, 474-480.	0.5	3

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37	Collection of Aerosol Particles by Filters Composed of Whisker-Coated Fibers. Colloid Journal, 2019, 81, 670-680.	0.5	3
38	Aerosol Particle Collection by Filters Composed of Fibers Coated with Porous Permeable Shells. Colloid Journal, 2019, 81, 515-526.	0.5	3
39	Influence of Nanoneedles Located on Fibers and Particles on Aerosol Filtration Efficiency. Colloid Journal, 2021, 83, 318-325.	0.5	3
40	Inertial Deposition of Aerosol Particles on Fiberous Filters. Colloid Journal, 2004, 66, 547-552.	0.5	2
41	Stability of the jet flow of charged particles in a gaseous medium. Colloid Journal, 2008, 70, 227-243.	0.5	2
42	Deposition of charged aerosol nanoparticles in diffusion batteries. Colloid Journal, 2011, 73, 478-481.	0.5	2
43	Deposition of aerosol nanoparticles on filters coated with layer of carbon nanotubes. Colloid Journal, 2011, 73, 807-814.	0.5	2
44	Diffusion deposition of submicron aerosol particles in screen filters. Colloid Journal, 2015, 77, 298-305.	0.5	2
45	Deposition of nanoparticles in model multilayer fibrous filters with three-dimensional structure. Colloid Journal, 2015, 77, 32-37.	0.5	2
46	Simulation of aerosol fibrous filters at Reynolds numbers of the order of unity. Colloid Journal, 2015, 77, 160-164.	0.5	2
47	Nanoparticle deposition in granular filters at Reynolds numbers higher than unity. Colloid Journal, 2017, 79, 481-486.	0.5	2
48	Deposition of Aerosol Nanoparticles in Screen Diffusion Batteries. Colloid Journal, 2020, 82, 384-391.	0.5	2
49	Collection of Metal Aerosol Nanoparticles at High Temperature. Colloid Journal, 2020, 82, 122-129.	0.5	2
50	Diffusion Deposition of Nanoparticles in a Layer of Granules. Colloid Journal, 2020, 82, 681-688.	0.5	2
51	Inertial deposition of ?heavy? aerosol particles in fibrous filters. Theoretical Foundations of Chemical Engineering, 2005, 39, 47-52.	0.2	1
52	The effect of gas slip on pressure drop and deposition of submicron particles in fibrous filters. Colloid Journal, 2016, 78, 465-471.	0.5	1
53	Inertial Deposition of Submicron Aerosol Particles of Heavy Metals in Fibrous Filters. Colloid Journal, 2019, 81, 98-104.	0.5	1
54	Collection of Nanoaerosols by Filters Composed of Nanofibers. Colloid Journal, 2021, 83, 713-721.	0.5	1

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55	Inertial deposition of ?heavy? aerosol particles in fibrous filters. Theoretical Foundations of Chemical Engineering, 2005, 39, 47-52.	0.2	0
56	Gas flow in a layer of chains formed from permeable clusters of nanoparticles. Colloid Journal, 2016, 78, 616-622.	0.5	0
57	Stokesâ€“Brinkman flow and diffusional deposition of nanoparticles onto a layer of porous and composite granules. Theoretical Foundations of Chemical Engineering, 2017, 51, 680-685.	0.2	0
58	The Stokesâ€“Brinkman Flow Field and Diffusion Deposition of Nanoparticles in a Layer of Hollow Permeable Grains. Colloid Journal, 2018, 80, 49-53.	0.5	0
59	Influence of Gravity on Filtration of Submicron Aerosols of Heavy Metals. Colloid Journal, 2021, 83, 302-317.	0.5	0