Alexander Kirsch

List of Publications by Year
in descending order

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49 papers	710 citations	623188 14 h-index	552369 26 g-index
50 all docs	50 docs citations	50 times ranked	313 citing authors

#	Article	IF	Citations
1	Studies on Fibrous Aerosol Filtersâ€"II. Pressure Drops in Systems of Parallel Cylinders. Annals of Occupational Hygiene, 1967, 10, 23-30.	1.9	94
2	Studies on Fibrous Aerosol Filtersâ€"IV Calculation of Aerosol Deposition in Model Filters in the Range of Maximum Penetration. Annals of Occupational Hygiene, 1969, 12, 1-8.	1.9	89
3	Studies on Fibrous Aerosol Filtersâ€"III Diffusional Deposition of Aerosols in Fibrous Filters. Annals of Occupational Hygiene, 1968, 11, 299-304.	1.9	87
4	The Fluid Flow in a System of Parallel Cylinders Perpendicular to the Flow Direction at Small Reynolds Numbers. Journal of the Physical Society of Japan, 1967, 22, 1251-1255.	0.7	61
5	Diffusion charging of submicrometer aerosol particles by unipolar ions. Journal of Colloid and Interface Science, 1981, 80, 111-117.	5.0	40
6	Diffusion Deposition of Aerosol in Fibrous Filters at Intermediate Peclet Numbers. Aerosol Science and Technology, 1985, 4, 11-16.	1.5	31
7	Gas flow in aerosol filters made of polydisperse ultrafine fibres. Journal of Aerosol Science, 1974, 5, 39-45.	1.8	30
8	Effect of gas slip on the pressure drop in fibrous filters. Journal of Aerosol Science, 1973, 4, 287-293.	1.8	27
9	Effect of gas slip on the pressure drop in a system of parallel cylinders at small reynolds numbers. Journal of Colloid and Interface Science, 1971, 37, 458-461.	5.0	22
10	The influence of an external electric field on the deposition of aerosols in fibrous filters. Journal of Aerosol Science, 1972, 3, 25-29.	1.8	21
11	Field Charging of Fine Aerosol Particles by Unipolar Ions. Aerosol Science and Technology, 1990, 12, 465-470.	1.5	21
12	Inertial deposition of aerosol particles in model filters at low reynolds numbers. Journal of Aerosol Science, 1977, 8, 301-307.	1.8	19
13	Measurement of aerosol penetration through high efficiency filters. Journal of Aerosol Science, 1978, 9, 291-298.	1.8	17
14	Increase of pressure drop in a model filter during mist filtration. Journal of Colloid and Interface Science, 1978, 64, 120-125.	5.0	16
15	Pressure drop and diffusional deposition of aerosol in polydisperse model filter. Journal of Colloid and Interface Science, 1973, 43, 10-16.	5.0	14
16	Gas flow in high-porous layers of high-dispersed particles. Journal of Colloid and Interface Science, 1975, 52, 270-276.	5.0	14
17	A contribution to the theory of fibrous aerosol filters. Faraday Symposia of the Chemical Society, 1973, 7, 143.	0.5	12
18	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

#	Article	IF	Citations
19	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
20	The effect of condensation of a vapour on the grains and of evaporation from their surface on the deposition of aerosols in granular beds. Chemical Engineering Science, 1965, 20, 181-185.	1.9	7
21	Penetration of nanoparticles through screen-type diffusion batteries. Colloid Journal, 2010, 72, 491-498.	0.5	7
22	Diffusion Deposition of Finite Size Particles on Fibrous Filters at Intermediate Knudsen Numbers. Colloid Journal, 2001, 63, 619-625.	0.5	4
23	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
24	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
25	Filtration of aerosols with fiber materials FP. Russian Journal of General Chemistry, 2009, 79, 2045-2050.	0.3	4
26	A diffusion method for determining sizes of nanoparticles suspended in a gas. Colloid Journal, 2013, 75, 487-489.	0.5	4
27	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
28	Penetration of aerosol particles through fine fibrous filters. Theoretical Foundations of Chemical Engineering, 2011, 45, 891-897.	0.2	3
29	Determination of the fiber-size distribution function in polydisperse dielectric fibrous materials. Colloid Journal, 2014, 76, 207-220.	0.5	3
30	Electrohydrodynamic generation of monodisperse submicron aerosols. Colloid Journal, 2017, 79, 61-75.	0.5	3
31	Filtration of nanoaerosols through a granular layer. Colloid Journal, 2017, 79, 474-480.	0.5	3
32	Collection of Aerosol Particles by Filters Composed of Whisker-Coated Fibers. Colloid Journal, 2019, 81, 670-680.	0.5	3
33	Aerosol Particle Collection by Filters Composed of Fibers Coated with Porous Permeable Shells. Colloid Journal, 2019, 81, 515-526.	0.5	3
34	Deposition of aerosol nanoparticles on filters coated with layer of carbon nanotubes. Colloid Journal, 2011, 73, 807-814.	0.5	2
35	Efficiency of filtration through fibrous materials with nonuniform charge distribution on fibers. Colloid Journal, 2015, 77, 802-811.	0.5	2
36	Diffusion deposition of submicron aerosol particles in screen filters. Colloid Journal, 2015, 77, 298-305.	0.5	2

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37	Nanoparticle deposition in granular filters at Reynolds numbers higher than unity. Colloid Journal, 2017, 79, 481-486.	0.5	2
38	Pressure Drop and Aerosol-Particle-Collection Efficiency of Polydisperse Fibrous Filters. Colloid Journal, 2018, 80, 331-338.	0.5	2
39	Collection of Metal Aerosol Nanoparticles at High Temperature. Colloid Journal, 2020, 82, 122-129.	0.5	2
40	15.P.08 Multistage high efficiency air filtration. Journal of Aerosol Science, 1994, 25, 203-204.	1.8	1
41	15.P.10 Aerosol control and monitoring system LADA. Journal of Aerosol Science, 1994, 25, 207-208.	1.8	1
42	Title is missing!. Colloid Journal, 2001, 63, 506-510.	0.5	1
43	Inertial Deposition of Submicron Aerosol Particles of Heavy Metals in Fibrous Filters. Colloid Journal, 2019, 81, 98-104.	0.5	1
44	15.P.07 Aerosol filtration by fibrous filters at intermediate knudsen numbers. Journal of Aerosol Science, 1994, 25, 201-202.	1.8	0
45	15.P.09 The minimization of the fold filter resistance under nonsteady filtration. Journal of Aerosol Science, 1994, 25, 205-206.	1.8	0
46	Efficiency of Fibrous Filters in Suspension Filtration. Colloid Journal, 2001, 63, 259-261.	0.5	0
47	Efficiency of aerosol particle collection with filtering materials containing dispersed inclusions. Colloid Journal, 2007, 69, 240-247.	0.5	0
48	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
49	Viscous Drag and Filtration Efficiency of Bimodal Fibrous Materials. Colloid Journal, 2019, 81, 288-291.	0.5	0