Christof Asbach

List of Publications by Year
in descending order

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64	1,911	279487	253896
papers	citations	23	43
		h-index	g-index

67	67	67	2106
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoparticle exposure at nanotechnology workplaces: A review. Particle and Fibre Toxicology, 2011, 8, 22.	2.8	341
2	Comparison of different characterization methods for nanoparticle dispersions before and after aerosolization. Analytical Methods, 2014, 6, 7324.	1.3	232
3	Comparison of four mobility particle sizers with different time resolution for stationary exposure measurements. Journal of Nanoparticle Research, 2009, 11, 1593-1609.	0.8	131
4	Comparability of mobility particle sizers and diffusion chargers. Journal of Aerosol Science, 2013, 57, 156-178.	1.8	98
5	Review of measurement techniques and methods for assessing personal exposure to airborne nanomaterials in workplaces. Science of the Total Environment, 2017, 603-604, 793-806.	3.9	69
6	How can nanobiotechnology oversight advance science and industry: examples from environmental, health, and safety studies of nanoparticles (nano-EHS). Journal of Nanoparticle Research, 2011, 13, 1373-1387.	0.8	68
7	Comparability of Portable Nanoparticle ExposureÂMonitors<xref ref-type="corresp" rid="c1">[*]</xref><xref ref-type="corresp" rid="c2" />. Annals of Occupational Hygiene, 2012, 56, 606-21.	1.9	59
8	Accuracy of electrical aerosol sensors measuring lung deposited surface area concentrations. Journal of Aerosol Science, 2015, 89, 96-109.	1.8	45
9	The Potential of Activated Carbon Made of Agro-Industrial Residues in NOx Immissions Abatement. Energies, 2017, 10, 1508.	1.6	39
10	The Effect of Particle Pre-Existing Charge on Unipolar Charging and Its Implication on Electrical Aerosol Measurements. Aerosol Science and Technology, 2009, 43, 232-240.	1.5	38
11	Inter-comparison of personal monitors for nanoparticles exposure at workplaces and in the environment. Science of the Total Environment, 2017, 605-606, 929-945.	3.9	34
12	Numerical and experimental study of submicron aerosol deposition in electret microfiber nonwovens. Journal of Aerosol Science, 2018, 122, 32-44.	1.8	34
13	Evaluation of protection schemes for extreme ultraviolet lithography (EUVL) masks against topâ€“down aerosol flow. Journal of Aerosol Science, 2007, 38, 211-227.	1.8	33
14	Silicone sampling tubes can cause drastic artifacts in measurements with aerosol instrumentation based on unipolar diffusion charging. Aerosol Science and Technology, 2016, 50, 1375-1384.	1.5	33
15	Effect of reverse flow by differential pressure on the protection of critical surfaces against particle contamination. Journal of Vacuum Science & Technology B, 2006, 24, 1844.	1.3	32
16	Evaluation of electrostatic properties of electret filters for aerosol deposition. Separation and Purification Technology, 2020, 239, 116548.	3.9	30
17	Investigation of airborne nanopowder agglomerate stability in an orifice under various differential pressure conditions. Journal of Nanoparticle Research, 2009, 11, 1625-1635.	0.8	29
18	Assessment of occupational exposure to engineered nanomaterials in research laboratories using personal monitors. Science of the Total Environment, 2018, 627, 689-702.	3.9	29

#	Article	IF	Citations
19	Optimisation of a thermophoretic personal sampler for nanoparticle exposure studies. Journal of Nanoparticle Research, 2009, 11, 1611-1624.	0.8	27
20	Technical Note: Concepts for protection of EUVL masks from particle contamination. Journal of Nanoparticle Research, 2006, 8, 705-708.	0.8	26
21	Experimental Investigations on Particle Contamination of Masks Without Protective Pellicles During Vibration or Shipping of Mask Carriers. IEEE Transactions on Semiconductor Manufacturing, 2007, 20, 578-584.	1.4	25
22	Classification of highly monodisperse nanoparticles of NIST-traceable sizes by TDMA and control of deposition spot size on a surface by electrophoresis. Journal of Aerosol Science, 2008, 39, 537-548.	1.8	24
23	Emission measurement and safety assessment for the production process of silicon nanoparticles in a pilot-scale facility. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	24
24	Investigation of thermophoretic protection with speed-controlled particles at 100, 50, and 25â€‚mTorr. Journal of Vacuum Science & Technology B, 2006, 24, 1178.	1.3	23
25	Particle deposition velocity onto a face-up flat surface in a laminar parallel flow considering Brownian diffusion and gravitational settling. Journal of Aerosol Science, 2010, 41, 911-920.	1.8	23
26	Design and experimental evaluation of a new nanoparticle thermophoretic personal sampler. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	21
27	Performance of New and Artificially Aged Electret Filters in Indoor Air Cleaners. Chemical Engineering and Technology, 2018, 41, 27-34.	0.9	20
28	Protection schemes for critical surface in vacuum environments. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1319-1324.	0.9	19
29	Numerical Evaluation of Protection Schemes for EUVL Masks in Carrier Systems Against Horizontal Aerosol Flow. Journal of the Electrochemical Society, 2007, 154, H170.	1.3	19
30	Mathematical Description of Experimentally Determined Charge Distributions of a Unipolar Diffusion Charger. Aerosol Science and Technology, 2012, 46, 708-716.	1.5	19
31	Composite micro/nano fibrous air filter by simultaneous melt and solution electrospinning. Journal of Aerosol Science, 2021, 154, 105754.	1.8	19
32	Experimental Investigations of Protection Schemes for Extreme Ultraviolet Lithography Masks in Carrier Systems Against Horizontal Aerosol Flow. IEEE Transactions on Semiconductor Manufacturing, 2007, 20, 176-186.	1.4	17
33	Intercomparison of a Personal CPC and Different Conventional CPCs. Aerosol and Air Quality Research, 2017, 17, 1132-1141.	0.9	17
34	Modeling of protection schemes for critical surfaces under low pressure conditions: Comparison between analytical and numerical approach. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2419.	1.6	16
35	On the effect of wearing personal nanoparticle monitors on the comparability of personal exposure measurements. Environmental Science: Nano, 2017, 4, 233-243.	2.2	16
36	Development and Evaluation of a Nanoparticle Generator for Human Inhalation Studies with Airborne Zinc Oxide. Aerosol Science and Technology, 2014, 48, 418-426.	1.5	15

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37	Particle sampling in boilers of waste incineration plants for characterizing corrosion relevant species. Corrosion Science, 2016, 110, 82-90.	3.0	15
38	Ageing of electret filter media due to deposition of submicron particles â€“ Experimental and numerical investigations. Separation and Purification Technology, 2020, 251, 117299.	3.9	15
39	Analytical modeling of particle stopping distance at low pressure to evaluate protection schemes for extreme ultraviolet lithography masks. Applied Physics Letters, 2005, 87, 234111.	1.5	14
40	The effect of water spray on the release of composite nano-dust. Clinical Oral Investigations, 2020, 24, 2403-2414.	1.4	12
41	Total Surface Area Concentration Measurements of Nanoparticles in Gases with an Electrical Sensor. Chemie-Ingenieur-Technik, 2012, 84, 365-372.	0.4	10
42	Controlled Deposition of ${m SiO}_{2}$ Nanoparticles of NIST-Traceable Particle Sizes for Mask Surface Inspection System Characterization. IEEE Transactions on Semiconductor Manufacturing, 2008, 21, 238-243.	1.4	9
43	Effect of corona discharge on the gas composition of the sample flow in a Gas Particle Partitioner. Journal of Environmental Monitoring, 2005, 7, 877.	2.1	8
44	Exposure Measurement at Workplaces. , 2015, , 523-555.		8
45	Development of a geometric surface area monitor (GSAM) for aerosol nanoparticles. Journal of Aerosol Science, 2017, 114, 118-129.	1.8	8
46	Electret Filtersâ€”From the Influence of Discharging Methods to Optimization Potential. Atmosphere, 2021, 12, 65.	1.0	8
47	Speed-controlled particle injection into a low-pressure system. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 229-234.	0.9	7
48	Model for the combination of diffusional and inertial particle deposition on inverse surfaces at low pressure. Applied Physics Letters, 2008, 93, 054104.	1.5	7
49	Influence of the degree of infiltration of modified activated carbons with CuO/ZnO on the separation of NO₂ at ambient temperatures. Adsorption Science and Technology, 2016, 34, 307-319.	1.5	7
50	Analytical-statistical model to accurately estimate diffusional nanoparticle deposition on inverted surfaces at low pressure. Applied Physics Letters, 2008, 92, 064107.	1.5	6
51	Development of a Method to Determine the Fractional Deposition Efficiency of Full-Scale HVAC and HEPA Filter Cassettes for Nanoparticles â‰¥3.5 nm. Atmosphere, 2020, 11, 1191.	1.0	6
52	System Identification Method for Brake Particle Emission Measurements of Passenger Car Disc Brakes on a Dynamometer. , 2018, , .		4
53	Rationale for Data Evaluation of the Size Distribution Measurements of Agglomerates and Aggregates in Gases with Extended SMPS-Technology. Aerosol and Air Quality Research, 2013, 13, 1393-1403.	0.9	4
54	Monitoring and Sampling Strategy for (Manufactured) Nano Objects, Agglomerates and Aggregates (NOAA). , 2014, , 173-206.		3

#	Article	IF	Citations
55	Examples and Case Studies. , 2014, , 223-278.		3
56	From Source to Dose. , 2014, , 135-171.		3
57	Measurement Methods for Nanoparticles in Indoor and Outdoor Air. Handbook of Environmental Chemistry, 2015, , 19-49.	0.2	3
58	An artifact-minimizing method for total dust sampling and chemical characterization of industrial high-temperature aerosols. Aerosol Science and Technology, 2017, 51, 1047-1056.	1.5	2
59	Generation of Fine and Ultrafine Particles During Braking and Possibilities for Their Measurement. Proceedings, 2019, , 143-164.	0.2	2
60	Entstehung und MÃ¶glichkeiten zur Messung von Fein- und Ultrafeinstaub beim Bremsen. Proceedings, 2019, , 45-67.	0.2	2
61	Nanoparticle contamination control for EUVL-technology: especially for photomasks in carriers and scanners. Proceedings of SPIE, 2009, , .	0.8	0
62	Quality Control of Measurement Devices â€“ What Can Be Done toÂGuarantee High-Quality Measurements?. , 2014, , 207-222.		0
63	Physikalische Grundlagen gasgetragener partikulÃrer Kontaminationen. VDI-Buch, 2018, , 37-67.	0.1	0
64	Physikalische Grundlagen gasgetragener partikulÃrer Kontaminationen. , 2012, , 37-67.		0