Asmus A Meyer-Plath

List of Publications by Year
in descending order

37 papers	818 citations	623574 14 h-index	501076 28 g-index
41 all docs	41 docs citations	41 times ranked	1136 citing authors

#	Article	IF	Citations
1	New Plasma Techniques for Polymer Surface Modification with Monotype Functional Groups. Plasma Processes and Polymers, 2008, 5, 407-423.	1.6	94
2	Plasma-Induced Surface Functionalization of Polymeric Biomaterials in Ammonia Plasma. Contributions To Plasma Physics, 2001, 41, 562-572.	0.5	79
3	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
4	Plasma-chemical bromination of graphitic materials and its use for subsequent functionalization and grafting of organic molecules. Carbon, 2010, 48, 3884-3894.	5.4	67
5	Plasma-thermal purification and annealing of carbon nanotubes. Carbon, 2012, 50, 3934-3942.	5.4	60
6	Selective Surface Modification of Poly(propylene) with OH and COOH Groups Using Liquidâ€Plasma Systems. Plasma Processes and Polymers, 2008, 5, 695-707.	1.6	53
7	Title is missing!. Plasmas and Polymers, 2002, 7, 103-125.	1.5	49
8	Differentiation and quantification of surface acidities on MWCNTs by indirect potentiometric titration. Carbon, 2011, 49, 2978-2988.	5.4	41
9	Study of Lewis acid catalyzed chemical bromination and bromoalkylation of multi-walled carbon nanotubes. Carbon, 2012, 50, 1373-1385.	5.4	39
10	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
11	Chemical micropatterning of polymeric cell culture substrates using low-pressure hydrogen gas discharge plasmas. Journal of Materials Science: Materials in Medicine, 1999, 10, 747-754.	1.7	32
12	Selective Surface Modification of Polypropylene using Underwater Plasma Technique or Underwater Capillary Discharge. Plasma Processes and Polymers, 2009, 6, S218.	1.6	27
13	Release of 14C-labelled carbon nanotubes from polycarbonate composites. Environmental Pollution, 2016, 215, 356-365.	3.7	25
14	Comparison of Geometrical Layouts for a Multi-Box Aerosol Model from a Single-Chamber Dispersion Study. Environments - MDPI, 2018, 5, 52.	1.5	14
15	Release of Respirable Fibrous Dust from Carbon Fibers Due to Splitting along the Fiber Axis. Aerosol and Air Quality Research, 2019, 19, 2185-2195.	0.9	14
16	Coating of carbon fibers with adhesion-promoting thin poly(acrylic acid) and poly(hydroxyethylmethacrylate) layers using electrospray ionization. Journal of Adhesion Science and Technology, 2015, 29, 1628-1650.	1.4	11
17	Plasma-chemically brominated single-walled carbon nanotubes as novel catalysts for oil hydrocarbons aerobic oxidation. Applied Catalysis A: General, 2013, 454, 115-118.	2.2	10
18	Assessment of nanofibre dustiness by means of vibro-fluidization. Powder Technology, 2019, 342, 491-508.	2.1	10

#	Article	IF	Citations
19	Design of an UHV reactor system for plasma surface treatment of polymer materials. Surface and Coatings Technology, 1999, 116-119, 1006-1010.	2.2	8
20	Absolute density distribution of H atoms in a large-scale microwave plasma reactor. Plasma Sources Science and Technology, 2003, 12, 554-560.	1.3	8
21	Measurement of Flexural Rigidity of Multi-Walled Carbon Nanotubes by Dynamic Scanning Electron Microscopy. Fibers, 2020, 8, 31.	1.8	7
22	Thermoacoustic generation of airborne ultrasound using carbon materials at the micro- and nanoscale. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 35-41.	0.3	6
23	Indoor dispersion of airborne nano and fine particles: Main factors affecting spatial and temporal distribution in the frame of exposure modeling. Indoor Air, 2019, 29, 803-816.	2.0	6
24	A Practicable Measurement Strategy for Compliance Checking Number Concentrations of Airborne Nano- and Microscale Fibers. Atmosphere, 2020, 11, 1254.	1.0	6
25	The peculiar behavior of functionalized carbon nanotubes in hydrocarbons and polymeric oxidation environments. Journal of Adhesion Science and Technology, 2017, 31, 988-1006.	1.4	5
26	Stable aqueous dispersions of functionalized multi-layer graphene by pulsed underwater plasma exfoliation of graphite. Journal Physics D: Applied Physics, 2016, 49, 045301.	1.3	4
27	Pattern Guided Cell Growth on Gas Discharge Plasma Induced Chemical Microstructured Polymer Surfaces. , 2005, , 167-171.		3
28	Status of characterization techniques for carbon nanotubes and suggestions towards standards suitable for toxicological assessment. Journal of Physics: Conference Series, 2011, 304, 012087.	0.3	3
29	Carbon nanomaterials as broadband airborne ultrasound transducer. , 2012, , .		3
30	UV Spectrometric Indirect Analysis of Brominated MWCNTs with UV Active Thiols and an Alkeneâ€"Reaction Kinetics, Quantification and Differentiation of Adsorbed Bromine and Oxygen. Materials, 2013, 6, 3035-3063.	1.3	3
31	Plasma Bromination â€"A Selective Way To Monotype Functionalized Polymer Surfaces. , 0, , 1-18.		2
32	Plasmabromierung von graphitischen Materialien. Vakuum in Forschung Und Praxis, 2012, 24, 24-29.	0.0	1
33	Continuous dry dispersion of multi-walled carbon nanotubes to aerosols with high concentrations of individual fibers. Journal of Nanoparticle Research, 2018, 20, 154.	0.8	1
34	The International Team in NanosafeTy (TITNT): A Multidisciplinary group for an improvement of Nanorisk Assessment and Management. Journal of Physics: Conference Series, 2011, 304, 012086.	0.3	0
35	1601eâ€…A new risk grouping concept for high aspect ratio materials â€“ adding fibre rigidity to the picture. , 2018, , .		0
36	1601fâ€…A new risk grouping concept for high aspect ratio materials â€“ the shaker dustiness test. , 2018, , .		0

#	Article	IF	Citations
37	Nanomaterial Characterization and Metrology. , 2013, , 13-40.		0