

Alke Petri-Fink

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200 papers	7,448 citations	42 h-index	80 g-index
216 ext. papers	8,942 ext. citations	7.3 avg, IF	6.31 L-index

#	Paper	IF	Citations
200	Nanoparticle colloidal stability in cell culture media and impact on cellular interactions. <i>Chemical Society Reviews</i> , 2015 , 44, 6287-305	58.5	576
199	Assessing the in vitro and in vivo toxicity of superparamagnetic iron oxide nanoparticles. <i>Chemical Reviews</i> , 2012 , 112, 2323-38	68.1	440
198	Emergence of Nanoplastic in the Environment and Possible Impact on Human Health. <i>Environmental Science & Technology</i> , 2019 , 53, 1748-1765	10.3	356
197	Form Follows Function: Nanoparticle Shape and Its Implications for Nanomedicine. <i>Chemical Reviews</i> , 2017 , 117, 11476-11521	68.1	300
196	Different endocytotic uptake mechanisms for nanoparticles in epithelial cells and macrophages. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1625-36	3	289
195	Bioavailability of silver nanoparticles and ions: from a chemical and biochemical perspective. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130396	4.1	234
194	Effect of cell media on polymer coated superparamagnetic iron oxide nanoparticles (SPIONs): colloidal stability, cytotoxicity, and cellular uptake studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 68, 129-37	5.7	209
193	Engineering an in vitro air-blood barrier by 3D bioprinting. <i>Scientific Reports</i> , 2015 , 5, 7974	4.9	207
192	Biodistribution, Clearance, and Long-Term Fate of Clinically Relevant Nanomaterials. <i>Advanced Materials</i> , 2018 , 30, e1704307	24	167
191	Diesel exhaust: current knowledge of adverse effects and underlying cellular mechanisms. <i>Archives of Toxicology</i> , 2016 , 90, 1541-53	5.8	152
190	Interaction of functionalized superparamagnetic iron oxide nanoparticles with brain structures. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 318, 108-16	4.7	151
189	In vitro approaches to assess the hazard of nanomaterials. <i>NanoImpact</i> , 2017 , 8, 99-116	5.6	126
188	Particle size distribution measurements of manganese-doped ZnS nanoparticles. <i>Analytical Chemistry</i> , 2009 , 81, 3889-95	7.8	125
187	Avoiding drying-artifacts in transmission electron microscopy: Characterizing the size and colloidal state of nanoparticles. <i>Scientific Reports</i> , 2015 , 5, 9793	4.9	123
186	Surface charge of polymer coated SPIONs influences the serum protein adsorption, colloidal stability and subsequent cell interaction in vitro. <i>Nanoscale</i> , 2013 , 5, 3723-32	7.7	113
185	The in vivo performance of magnetic particle-loaded injectable, in situ gelling, carriers for the delivery of local hyperthermia. <i>Biomaterials</i> , 2010 , 31, 691-705	15.6	110
184	Exposure of silver-nanoparticles and silver-ions to lung cells in vitro at the air-liquid interface. <i>Particle and Fibre Toxicology</i> , 2013 , 10, 11	8.4	103

183	Enhancement of the efficiency of non-viral gene delivery by application of pulsed magnetic field. <i>Nucleic Acids Research</i> , 2006 , 34, e40	20.1	101
182	Understanding nanoparticle endocytosis to improve targeting strategies in nanomedicine. <i>Chemical Society Reviews</i> , 2021 , 50, 5397-5434	58.5	89
181	Biomedical nanoparticles modulate specific CD4+ T cell stimulation by inhibition of antigen processing in dendritic cells. <i>Nanotoxicology</i> , 2011 , 5, 606-21	5.3	81
180	Size-dependent uptake of particles by pulmonary antigen-presenting cell populations and trafficking to regional lymph nodes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 49, 67-77	5.7	79
179	Dexamethasone-containing biodegradable superparamagnetic microparticles for intra-articular administration: physicochemical and magnetic properties, in vitro and in vivo drug release. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 72, 529-38	5.7	79
178	An in vitro testing strategy towards mimicking the inhalation of high aspect ratio nanoparticles. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 40	8.4	77
177	Gold nanorods: controlling their surface chemistry and complete detoxification by a two-step place exchange. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1934-8	16.4	76
176	Characterization of PEI-coated superparamagnetic iron oxide nanoparticles for transfection: Size distribution, colloidal properties and DNA interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 300-305	2.8	74
175	Insertion of nanoparticle clusters into vesicle bilayers. <i>ACS Nano</i> , 2014 , 8, 3451-60	16.7	71
174	Uptake efficiency of surface modified gold nanoparticles does not correlate with functional changes and cytokine secretion in human dendritic cells in vitro. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 633-44	6	64
173	Translocation of gold nanoparticles across the lung epithelial tissue barrier: Combining in vitro and in silico methods to substitute in vivo experiments. <i>Particle and Fibre Toxicology</i> , 2015 , 12, 18	8.4	61
172	Superparamagnetic iron oxide nanoparticles (SPIONs): from synthesis to in vivo studies--a summary of the synthesis, characterization, in vitro, and in vivo investigations of SPIONs with particular focus on surface and colloidal properties. <i>IEEE Transactions on Nanobioscience</i> , 2007 , 6, 289-97	3.4	61
171	Nanoparticle-Cell Interaction: A Cell Mechanics Perspective. <i>Advanced Materials</i> , 2018 , 30, e1704463	24	60
170	Quantification of gold nanoparticle cell uptake under controlled biological conditions and adequate resolution. <i>Nanomedicine</i> , 2014 , 9, 607-21	5.6	59
169	Silica nanoparticles enhance disease resistance in Arabidopsis plants. <i>Nature Nanotechnology</i> , 2021 , 16, 344-353	28.7	58
168	Fate of cellulose nanocrystal aerosols deposited on the lung cell surface in vitro. <i>Biomacromolecules</i> , 2015 , 16, 1267-75	6.9	57
167	A comparative study of different in vitro lung cell culture systems to assess the most beneficial tool for screening the potential adverse effects of carbon nanotubes. <i>Toxicological Sciences</i> , 2014 , 137, 55-64	4.4	57
166	Management of nanomaterials safety in research environment. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 40	8.4	57

165	Quantification of nanoparticles at the single-cell level: an overview about state-of-the-art techniques and their limitations. <i>Nanomedicine</i> , 2014 , 9, 1885-900	5.6	52
164	Comparison of the toxicity of diesel exhaust produced by bio- and fossil diesel combustion in human lung cells in vitro. <i>Atmospheric Environment</i> , 2013 , 81, 380-388	5.3	50
163	Preparation and characterization of functional silica hybrid magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 362, 72-79	2.8	50
162	Optical properties of annealed Mn ²⁺ -doped ZnS nanoparticles. <i>Journal of Luminescence</i> , 2008 , 128, 92-98.8		47
161	Mimicking exposures to acute and lifetime concentrations of inhaled silver nanoparticles by two different in vitro approaches. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1357-70	3	46
160	Fluorescence-encoded gold nanoparticles: library design and modulation of cellular uptake into dendritic cells. <i>Small</i> , 2014 , 10, 1341-50	11	46
159	Quantifying nanoparticle cellular uptake: which method is best?. <i>Nanomedicine</i> , 2017 , 12, 1095-1099	5.6	45
158	Filling polymersomes with polymers by peroxidase-catalyzed atom transfer radical polymerization. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 507-14	4.8	42
157	Magnetoliposomes: opportunities and challenges. <i>European Journal of Nanomedicine</i> , 2014 , 6,		42
156	Repeated exposure to carbon nanotube-based aerosols does not affect the functional properties of a 3D human epithelial airway model. <i>Nanotoxicology</i> , 2015 , 9, 983-93	5.3	41
155	A mixture of ferritin and magnetite nanoparticles mimics the magnetic properties of human brain tissue. <i>Physical Review B</i> , 2006 , 73,	3.3	39
154	Aerosol Delivery of Functionalized Gold Nanoparticles Target and Activate Dendritic Cells in a 3D Lung Cellular Model. <i>ACS Nano</i> , 2017 , 11, 375-383	16.7	37
153	Size-dependent accumulation of particles in lysosomes modulates dendritic cell function through impaired antigen degradation. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3885-902	7.3	37
152	Use of EpiAlveolar Lung Model to Predict Fibrotic Potential of Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , 2020 , 14, 3941-3956	16.7	34
151	Can the Ames test provide an insight into nano-object mutagenicity? Investigating the interaction between nano-objects and bacteria. <i>Nanotoxicology</i> , 2013 , 7, 1373-85	5.3	34
150	Cellulose Nanocrystals with Tethered Polymer Chains: Chemically Patchy versus Uniform Decoration. <i>ACS Macro Letters</i> , 2017 , 6, 892-897	6.6	34
149	Superparamagnetic nanoparticles as a powerful systems biology characterization tool in the physiological context. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7857-60	16.4	34
148	Nanoparticle administration method in cell culture alters particle-cell interaction. <i>Scientific Reports</i> , 2019 , 9, 900	4.9	33

147	Hybrid Lipid/Polymer Nanoparticles for Pulmonary Delivery of siRNA: Development and Fate Upon In Vitro Deposition on the Human Epithelial Airway Barrier. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2018 , 31, 170-181	3.8	33
146	Magnetic and in vitro heating properties of implants formed in situ from injectable formulations and containing superparamagnetic iron oxide nanoparticles (SPIONs) embedded in silica microparticles for magnetically induced local hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 1054-1063	2.8	33
145	Pulmonary delivery of cationic gold nanoparticles boost antigen-specific CD4 T Cell Proliferation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1815-1826	6	33
144	Human Asthmatic Bronchial Cells Are More Susceptible to Subchronic Repeated Exposures of Aerosolized Carbon Nanotubes At Occupationally Relevant Doses Than Healthy Cells. <i>ACS Nano</i> , 2017 , 11, 7615-7625	16.7	32
143	In vivo labelling of resting monocytes in the reticuloendothelial system with fluorescent iron oxide nanoparticles prior to injury reveals that they are mobilized to infarcted myocardium. <i>European Heart Journal</i> , 2010 , 31, 1410-20	9.5	32
142	Plasmonic nanoparticles and their characterization in physiological fluids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 137, 39-49	6	29
141	Biodistribution of single and aggregated gold nanoparticles exposed to the human lung epithelial tissue barrier at the air-liquid interface. <i>Particle and Fibre Toxicology</i> , 2017 , 14, 49	8.4	29
140	Co-encapsulation of dexamethasone 21-acetate and SPIONs into biodegradable polymeric microparticles designed for intra-articular delivery. <i>Journal of Microencapsulation</i> , 2008 , 25, 339-50	3.4	29
139	Interaction of biomedical nanoparticles with the pulmonary immune system. <i>Journal of Nanobiotechnology</i> , 2017 , 15, 6	9.4	28
138	Uptake and biocompatibility of functionalized poly(vinylalcohol) coated superparamagnetic maghemite nanoparticles by synoviocytes in vitro. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2829-40	1.3	28
137	Combined exposure of diesel exhaust particles and respirable Soufrière Hills volcanic ash causes a (pro-)inflammatory response in an in vitro multicellular epithelial tissue barrier model. <i>Particle and Fibre Toxicology</i> , 2016 , 13, 67	8.4	27
136	Dynamic Depolarized Light Scattering of Small Round Plasmonic Nanoparticles: When Imperfection is Only Perfect. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17968-17974	3.8	26
135	Solder doped polycaprolactone scaffold enables reproducible laser tissue soldering. <i>Lasers in Surgery and Medicine</i> , 2008 , 40, 716-25	3.6	25
134	Cellular Shuttles: Monocytes/Macrophages Exhibit Transendothelial Transport of Nanoparticles under Physiological Flow. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18501-18511	9.5	24
133	Nanoparticle Polydispersity Can Strongly Affect In Vitro Dose. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 321-333	3.1	24
132	Taylor Dispersion of Inorganic Nanoparticles and Comparison to Dynamic Light Scattering and Transmission Electron Microscopy. <i>Colloids and Interface Science Communications</i> , 2018 , 22, 29-33	5.4	24
131	Current in vitro approaches to assess nanoparticle interactions with lung cells. <i>Nanomedicine</i> , 2016 , 11, 2457-69	5.6	24
130	Assessment of a panel of interleukin-8 reporter lung epithelial cell lines to monitor the pro-inflammatory response following zinc oxide nanoparticle exposure under different cell culture conditions. <i>Particle and Fibre Toxicology</i> , 2015 , 12, 29	8.4	24

129	Local moderate magnetically induced hyperthermia using an implant formed in situ in a mouse tumor model. <i>International Journal of Hyperthermia</i> , 2009 , 25, 229-39	3.7	23
128	Fixed bed reactor for solid-phase surface derivatization of superparamagnetic nanoparticles. <i>Bioconjugate Chemistry</i> , 2007 , 18, 1684-90	6.3	22
127	From Bioinspired Glue to Medicine: Polydopamine as a Biomedical Material. <i>Materials</i> , 2020 , 13,	3.5	22
126	Single exposure to aerosolized graphene oxide and graphene nanoplatelets did not initiate an acute biological response in a 3D human lung model. <i>Carbon</i> , 2018 , 137, 125-135	10.4	21
125	Assessing meso- and microplastic pollution in the Ligurian and Tyrrhenian Seas. <i>Marine Pollution Bulletin</i> , 2019 , 149, 110572	6.7	20
124	Dynamic and biocompatible thermo-responsive magnetic hydrogels that respond to an alternating magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 427, 212-219	2.8	20
123	Human epithelial cells in vitro □Are they an advantageous tool to help understand the nanomaterial-biological barrier interaction? 2012 , 4, 1-19		20
122	Hazard identification of exhausts from gasoline-ethanol fuel blends using a multi-cellular human lung model. <i>Environmental Research</i> , 2016 , 151, 789-796	7.9	20
121	Assessment of lung cell toxicity of various gasoline engine exhausts using a versatile in□vitro exposure system. <i>Environmental Pollution</i> , 2018 , 235, 263-271	9.3	19
120	Reduction of Nanoparticle Load in Cells by Mitosis but Not Exocytosis. <i>ACS Nano</i> , 2019 , 13, 7759-7770	16.7	19
119	Systemic distribution and elimination of plain and with Cy3.5 functionalized poly(vinyl alcohol) coated superparamagnetic maghemite nanoparticles after intraarticular injection in sheep in vivo. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 3261-8	1.3	19
118	Mimicking the Chemistry of Natural Eumelanin Synthesis: The KE Sequence in Polypeptides and in Proteins Allows for a Specific Control of Nanosized Functional Polydopamine Formation. <i>Biomacromolecules</i> , 2018 , 19, 3693-3704	6.9	18
117	Reduction in (pro-)inflammatory responses of lung cells exposed in□vitro to diesel exhaust treated with a non-catalyzed diesel particle filter. <i>Atmospheric Environment</i> , 2013 , 81, 117-124	5.3	18
116	Taylor dispersion of nanoparticles. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	18
115	Cellulose Nanocrystals: Surface Modification, Applications and Opportunities at Interfaces. <i>Chimia</i> , 2017 , 71, 376-383	1.3	18
114	Nanomaterials and the human lung: what is known and what must be deciphered to realise their potential advantages?. <i>Swiss Medical Weekly</i> , 2013 , 143, w13758	3.1	18
113	A new angle on dynamic depolarized light scattering: number-averaged size distribution of nanoparticles in focus. <i>Nanoscale</i> , 2016 , 8, 15813-21	7.7	18
112	Profibrotic Activity of Multiwalled Carbon Nanotubes Upon Prolonged Exposures in Different Human Lung Cell Types. <i>Applied in Vitro Toxicology</i> , 2019 , 5, 47-61	1.3	17

111	Effects of an iron-based fuel-borne catalyst and a diesel particle filter on exhaust toxicity in lung cells in vitro. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5977-86	4.4	17
110	Exposure to silver nanoparticles affects viability and function of natural killer cells, mostly via the release of ions. <i>Cell Biology and Toxicology</i> , 2018 , 34, 167-176	7.4	17
109	Engineered nanomaterials: toward effective safety management in research laboratories. <i>Journal of Nanobiotechnology</i> , 2016 , 14, 21	9.4	17
108	Application of pulsed-magnetic field enhances non-viral gene delivery in primary cells from different origins. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 1517-1527	2.8	17
107	Respiratory hazard assessment of combined exposure to complete gasoline exhaust and respirable volcanic ash in a multicellular human lung model at the air-liquid interface. <i>Environmental Pollution</i> , 2018 , 238, 977-987	9.3	15
106	Modeling nanoparticle-alveolar epithelial cell interactions under breathing conditions using captive bubble surfactometry. <i>Langmuir</i> , 2014 , 30, 4924-32	4	15
105	Assessing the Stability of Fluorescently Encoded Nanoparticles in Lysosomes by Using Complementary Methods. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13382-13386	16.4	15
104	A rapid screening method to evaluate the impact of nanoparticles on macrophages. <i>Nanoscale</i> , 2017 , 9, 2492-2504	7.7	14
103	A hydrofluoric acid-free method to dissolve and quantify silica nanoparticles in aqueous and solid matrices. <i>Scientific Reports</i> , 2019 , 9, 7938	4.9	14
102	Biological Effects in Lung Cells In Vitro of Exhaust Aerosols from a Gasoline Passenger Car With and Without Particle Filter. <i>Emission Control Science and Technology</i> , 2015 , 1, 237-246	2	14
101	Involvement of two uptake mechanisms of gold and iron oxide nanoparticles in a co-exposure scenario using mouse macrophages. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2396-2409	3	14
100	Biokinetics of Aerosolized Liposomal Ciclosporin A in Human Lung Cells In Vitro Using an Air-Liquid Cell Interface Exposure System. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2017 , 30, 411-424	2.8	14
99	Amino covalent binding approach on iron oxide nanoparticle surface: Toward biological applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 415, 98-104	5.1	14
98	Biocompatible thermo- and magneto-responsive shape-memory polyurethane bionanocomposites. <i>Materials Science and Engineering C</i> , 2019 , 97, 658-668	8.3	14
97	Heating behavior of magnetic iron oxide nanoparticles at clinically relevant concentration. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 474, 637-642	2.8	14
96	Polydopamine/Transferrin Hybrid Nanoparticles for Targeted Cell-Killing. <i>Nanomaterials</i> , 2018 , 8,	5.4	14
95	A novel technique to determine the cell type specific response within an in vitro co-culture model via multi-colour flow cytometry. <i>Scientific Reports</i> , 2017 , 7, 434	4.9	13
94	Polymer-Coated Gold Nanospheres Do Not Impair the Innate Immune Function of Human B Lymphocytes in Vitro. <i>ACS Nano</i> , 2019 , 13, 6790-6800	16.7	13

93	Biological response of an in vitro human 3D lung cell model exposed to brake wear debris varies based on brake pad formulation. <i>Archives of Toxicology</i> , 2018 , 92, 2339-2351	5.8	13
92	Measuring the heating power of magnetic nanoparticles: an overview of currently used methods. <i>Materials Today: Proceedings</i> , 2017 , 4, S107-S117	1.4	13
91	In vitro-ex vivo model systems for nanosafety assessment. <i>European Journal of Nanomedicine</i> , 2015 , 7,		13
90	An In Vitro Lung System to Assess the Proinflammatory Hazard of Carbon Nanotube Aerosols. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	13
89	Acute effects of multi-walled carbon nanotubes on primary bronchial epithelial cells from COPD patients. <i>Nanotoxicology</i> , 2018 , 12, 699-711	5.3	13
88	Gold Nanorods: Controlling Their Surface Chemistry and Complete Detoxification by a Two-Step Place Exchange. <i>Angewandte Chemie</i> , 2013 , 125, 1988-1992	3.6	12
87	Control of morphology and nanostructure of copper and cobalt oxalates: effect of complexing ions, polymeric additives and molecular weight. <i>Nanoscale</i> , 2010 , 2, 2470-7	7.7	12
86	Detection of Sub-Micro- and Nanoplastic Particles on Gold Nanoparticle-Based Substrates through Surface-Enhanced Raman Scattering (SERS) Spectroscopy. <i>Nanomaterials</i> , 2021 , 11,	5.4	12
85	Polyvinyl alcohol as a biocompatible alternative for the passivation of gold nanorods. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12613-7	16.4	11
84	Lock-In Thermography as an Analytical Tool for Magnetic Nanoparticles: Measuring Heating Power and Magnetic Fields. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27164-27175	3.8	11
83	Advanced human in vitro models to assess metal oxide nanoparticle-cell interactions. <i>MRS Bulletin</i> , 2014 , 39, 984-989	3.2	11
82	Bis-TEGylated Poly(p-benzamide)s: Combining Organosolubility with Shape Persistence. <i>Macromolecules</i> , 2013 , 46, 5520-5530	5.5	11
81	Beyond Global Charge: Role of Amine Bulkiness and Protein Fingerprint on Nanoparticle-Cell Interaction. <i>Small</i> , 2018 , 14, e1802088	11	11
80	Cellular uptake and cell-to-cell transfer of polyelectrolyte microcapsules within a triple co-culture system representing parts of the respiratory tract. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 034608	7.1	10
79	Speckle-Visibility Spectroscopy of Depolarized Dynamic Light Scattering. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7999-8007	3.4	10
78	Catechol-derivatized poly(vinyl alcohol) as a coating molecule for magnetic nanoclusters. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 380, 157-162	2.8	9
77	Simple and fast evaluation of relaxation parameters of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 499, 166176	2.8	9
76	The crux of positive controls - Pro-inflammatory responses in lung cell models. <i>Toxicology in Vitro</i> , 2019 , 54, 189-193	3.6	9

75	Hypothesis Test of the Photon Count Distribution for Dust Discrimination in Dynamic Light Scattering. <i>Analytical Chemistry</i> , 2018 , 90, 3656-3660	7.8	8
74	Distribution of polymer-coated gold nanoparticles in a 3D lung model and indication of apoptosis after repeated exposure. <i>Nanomedicine</i> , 2018 , 13, 1169-1185	5.6	8
73	Phase Transformation of Superparamagnetic Iron Oxide Nanoparticles via Thermal Annealing: Implications for Hyperthermia Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4462-4470	5.6	8
72	Test-methods on the test-bench: a comparison of complete exhaust and exhaust particle extracts for genotoxicity/mutagenicity assessment. <i>Environmental Science & Technology</i> , 2014 , 48, 5237-44	10.3	8
71	Influence of Serum Supplemented Cell Culture Medium on Colloidal Stability of Polymer Coated Iron Oxide and Polystyrene Nanoparticles With Impact on Cell Interactions In Vitro. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 402-407	2	8
70	Lock-in thermography as a rapid and reproducible thermal characterization method for magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 427, 206-211	2.8	8
69	Ultrathin Ceramic Membranes as Scaffolds for Functional Cell Coculture Models on a Biomimetic Scale. <i>BioResearch Open Access</i> , 2015 , 4, 457-68	2.4	8
68	Lipid nanoparticles biocompatibility and cellular uptake in a 3D human lung model. <i>Nanomedicine</i> , 2020 , 15, 259-271	5.6	8
67	Nanoparticles and Taylor Dispersion as a Linear Time-Invariant System. <i>Analytical Chemistry</i> , 2019 , 91, 1217-1221	7.8	8
66	Revealing the Role of Epithelial Mechanics and Macrophage Clearance during Pulmonary Epithelial Injury Recovery in the Presence of Carbon Nanotubes. <i>Advanced Materials</i> , 2018 , 30, e1806181	24	8
65	Inter-laboratory variability of A549 epithelial cells grown under submerged and air-liquid interface conditions. <i>Toxicology in Vitro</i> , 2021 , 75, 105178	3.6	8
64	Nanoparticle Behaviour in Complex Media: Methods for Characterizing Physicochemical Properties, Evaluating Protein Corona Formation, and Implications for Biological Studies. <i>Nanoscience and Technology</i> , 2019 , 101-150	0.6	7
63	Assessment of the potential for in-plume sulphur dioxide gas-ash interactions to influence the respiratory toxicity of volcanic ash. <i>Environmental Research</i> , 2019 , 179, 108798	7.9	7
62	Inhalation Pathway as a Promising Portal of Entry: What Has to Be Considered in Designing New Nanomaterials for Biomedical Application? 2014 , 205-222		7
61	A biological perspective toward the interaction of theranostic nanoparticles with the bloodstream - what needs to be considered?. <i>Frontiers in Chemistry</i> , 2015 , 3, 7	5	7
60	The micro-, submicron-, and nanoplastic hunt: A review of detection methods for plastic particles.. <i>Chemosphere</i> , 2022 , 133514	8.4	7
59	A comparative study of silver nanoparticle dissolution under physiological conditions. <i>Nanoscale Advances</i> , 2020 , 2, 5760-5768	5.1	7
58	Quantification of Carbon Nanotube Doses in Adherent Cell Culture Assays Using UV-VIS-NIR Spectroscopy. <i>Nanomaterials</i> , 2019 , 9,	5.4	7

57	Assumption-free morphological quantification of single anisotropic nanoparticles and aggregates. <i>Nanoscale</i> , 2017 , 9, 4918-4927	7.7	6
56	Precision of Taylor Dispersion. <i>Analytical Chemistry</i> , 2019 , 91, 9946-9951	7.8	6
55	A realistic in vitro exposure revealed seasonal differences in (pro-)inflammatory effects from ambient air in Fribourg, Switzerland. <i>Inhalation Toxicology</i> , 2018 , 30, 40-48	2.7	6
54	Probing nano-scale viscoelastic response in air and in liquid with dynamic atomic force microscopy. <i>Soft Matter</i> , 2018 , 14, 3998-4006	3.6	6
53	Lock-In Thermography to Analyze Plasmonic Nanoparticle Dispersions. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900224	3.1	6
52	Multi-Functional Magnetic Photoluminescent Photocatalytic Polystyrene-Based Micro- and Nano-Fibers Obtained by Electrospinning. <i>Fibers</i> , 2014 , 2, 75-91	3.7	6
51	A guide to investigating colloidal nanoparticles by cryogenic transmission electron microscopy: pitfalls and benefits. <i>AIMS Biophysics</i> , 2015 , 2, 245-258	0.8	6
50	Preparation of metallosupramolecular single-chain polymeric nanoparticles and their characterization by Taylor dispersion. <i>Polymer Chemistry</i> , 2020 , 11, 586-592	4.9	6
49	Nanoparticle-Cell Interactions: Overview of Uptake, Intracellular Fate and Induction of Cell Responses. <i>Nanoscience and Technology</i> , 2019 , 153-170	0.6	5
48	Carbon nanodots: Opportunities and limitations to study their biodistribution at the human lung epithelial tissue barrier. <i>Biointerphases</i> , 2018 , 13, 06D404	1.8	5
47	Artificial Lysosomal Platform to Study Nanoparticle Long-term Stability. <i>Chimia</i> , 2019 , 73, 55-58	1.3	4
46	Particle Surfaces to Study Macrophage Adherence, Migration, and Clearance. <i>Advanced Functional Materials</i> , 2020 , 30, 2002630	15.6	4
45	Spatial SPION Localization in Liposome Membranes. <i>IEEE Transactions on Magnetism</i> , 2013 , 49, 166-171	2	4
44	Assessing the impact of the physical properties of industrially produced carbon nanotubes on their interaction with human primary macrophages in vitro. <i>BioNanoMaterials</i> , 2013 , 14,		4
43	Nanoparticles and cells: an interdisciplinary approach. <i>Chimia</i> , 2012 , 66, 104-9	1.3	4
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