

Alke Petri-Fink

List of Publications by Year in descending order

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204
papers

10,453
citations

46984

47
h-index

38368

95
g-index

216
all docs

216
docs citations

216
times ranked

16205
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticle colloidal stability in cell culture media and impact on cellular interactions. <i>Chemical Society Reviews</i> , 2015, 44, 6287-6305.	18.7	771
2	Emergence of Nanoplastic in the Environment and Possible Impact on Human Health. <i>Environmental Science & Technology</i> , 2019, 53, 1748-1765.	4.6	709
3	Assessing the In Vitro and In Vivo Toxicity of Superparamagnetic Iron Oxide Nanoparticles. <i>Chemical Reviews</i> , 2012, 112, 2323-2338.	23.0	513
4	Form Follows Function: Nanoparticle Shape and Its Implications for Nanomedicine. <i>Chemical Reviews</i> , 2017, 117, 11476-11521.	23.0	464
5	Understanding nanoparticle endocytosis to improve targeting strategies in nanomedicine. <i>Chemical Society Reviews</i> , 2021, 50, 5397-5434.	18.7	398
6	Different endocytotic uptake mechanisms for nanoparticles in epithelial cells and macrophages. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1625-1636.	1.5	386
7	Engineering an in vitro air-blood barrier by 3D bioprinting. <i>Scientific Reports</i> , 2015, 5, 7974.	1.6	281
8	Biodistribution, Clearance, and Long-Term Fate of Clinically Relevant Nanomaterials. <i>Advanced Materials</i> , 2018, 30, e1704307.	11.1	276
9	Bioavailability of silver nanoparticles and ions: from a chemical and biochemical perspective. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130396.	1.5	273
10	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, 129-137.	2.0	225
11	Diesel exhaust: current knowledge of adverse effects and underlying cellular mechanisms. <i>Archives of Toxicology</i> , 2016, 90, 1541-1553.	1.9	213
12	Silica nanoparticles enhance disease resistance in Arabidopsis plants. <i>Nature Nanotechnology</i> , 2021, 16, 344-353.	15.6	172
13	In vitro approaches to assess the hazard of nanomaterials. <i>NanoImpact</i> , 2017, 8, 99-116.	2.4	171
14	Interaction of Functionalized Superparamagnetic Iron Oxide Nanoparticles with Brain Structures. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 108-116.	1.3	168
15	Avoiding drying-artifacts in transmission electron microscopy: Characterizing the size and colloidal state of nanoparticles. <i>Scientific Reports</i> , 2015, 5, 9793.	1.6	163
16	Particle Size Distribution Measurements of Manganese-Doped ZnS Nanoparticles. <i>Analytical Chemistry</i> , 2009, 81, 3889-3895.	3.2	150
17	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.	5.7	127
18	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.	2.8	127

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19	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.	2.8	118
20	Enhancement of the efficiency of non-viral gene delivery by application of pulsed magnetic field. <i>Nucleic Acids Research</i> , 2006, 34, e40-e40.	6.5	106
21	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.	1.4	105
22	Nanoparticle-Cell Interaction: A Cell Mechanics Perspective. <i>Advanced Materials</i> , 2018, 30, e1704463.	11.1	94
23	An in vitro testing strategy towards mimicking the inhalation of high aspect ratio nanoparticles. <i>Particle and Fibre Toxicology</i> , 2014, 11, 40.	2.8	91
24	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.	1.0	90
25	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, 529-538.	2.0	88
26	Biomedical nanoparticles modulate specific CD4 ⁺ T cell stimulation by inhibition of antigen processing in dendritic cells. <i>Nanotoxicology</i> , 2011, 5, 606-621.	1.6	88
27	Gold Nanorods: Controlling Their Surface Chemistry and Complete Detoxification by a Two-Step Place Exchange. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1934-1938.	7.2	87
28	Insertion of Nanoparticle Clusters into Vesicle Bilayers. <i>ACS Nano</i> , 2014, 8, 3451-3460.	7.3	82
29	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.	2.8	82
30	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, 633-644.	1.7	78
31	Management of nanomaterials safety in research environment. <i>Particle and Fibre Toxicology</i> , 2010, 7, 40.	2.8	77
32	Superparamagnetic Iron Oxide Nanoparticles (SPIONs): From Synthesis to <i>In Vivo</i> Studies—A Summary of the Synthesis, Characterization, <i>In Vitro</i> , and <i>In Vivo</i> Investigations of SPIONs With Particular Focus on Surface and Colloidal Properties. <i>IEEE Transactions on Nanobioscience</i> , 2007, 6, 289-297.	2.2	70
33	Preparation and characterization of functional silica hybrid magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 362, 72-79.	1.0	66
34	Quantification of gold nanoparticle cell uptake under controlled biological conditions and adequate resolution. <i>Nanomedicine</i> , 2014, 9, 607-621.	1.7	66
35	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.	1.4	65
36	Fate of Cellulose Nanocrystal Aerosols Deposited on the Lung Cell Surface In Vitro. <i>Biomacromolecules</i> , 2015, 16, 1267-1275.	2.6	65

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37	Nanoparticle administration method in cell culture alters particle-cell interaction. Scientific Reports, 2019, 9, 900.	1.6	65
38	Comparison of the toxicity of diesel exhaust produced by bio- and fossil diesel combustion in human lung cells in vitro. Atmospheric Environment, 2013, 81, 380-388.	1.9	61
39	Quantifying nanoparticle cellular uptake: which method is best?. Nanomedicine, 2017, 12, 1095-1099.	1.7	61
40	Quantification of nanoparticles at the single-cell level: an overview about state-of-the-art techniques and their limitations. Nanomedicine, 2014, 9, 1885-1900.	1.7	60
41	Use of EpiAlveolar Lung Model to Predict Fibrotic Potential of Multiwalled Carbon Nanotubes. ACS Nano, 2020, 14, 3941-3956.	7.3	60
42	Mimicking exposures to acute and lifetime concentrations of inhaled silver nanoparticles by two different in vitro approaches. Beilstein Journal of Nanotechnology, 2014, 5, 1357-1370.	1.5	55
43	Aerosol Delivery of Functionalized Gold Nanoparticles Target and Activate Dendritic Cells in a 3D Lung Cellular Model. ACS Nano, 2017, 11, 375-383.	7.3	55
44	From Bioinspired Glue to Medicine: Polydopamine as a Biomedical Material. Materials, 2020, 13, 1730.	1.3	55
45	Fluorescence-Encoded Gold Nanoparticles: Library Design and Modulation of Cellular Uptake into Dendritic Cells. Small, 2014, 10, 1341-1350.	5.2	54
46	The micro-, submicron-, and nanoplastic hunt: A review of detection methods for plastic particles. Chemosphere, 2022, 293, 133514.	4.2	54
47	Hybrid Lipid/Polymer Nanoparticles for Pulmonary Delivery of siRNA: Development and Fate Upon <i>In Vitro</i> Deposition on the Human Epithelial Airway Barrier. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2018, 31, 170-181.	0.7	52
48	Size-dependent accumulation of particles in lysosomes modulates dendritic cell function through impaired antigen degradation. International Journal of Nanomedicine, 2014, 9, 3885.	3.3	50
49	Filling Polymersomes with Polymers by Peroxidase-Catalyzed Atom Transfer Radical Polymerization. Macromolecular Rapid Communications, 2015, 36, 507-514.	2.0	50
50	Optical properties of annealed Mn ²⁺ -doped ZnS nanoparticles. Journal of Luminescence, 2008, 128, 92-98.	1.5	48
51	Magnetoliposomes: opportunities and challenges. European Journal of Nanomedicine, 2014, 6, .	0.6	48
52	Elucidating the Potential Biological Impact of Cellulose Nanocrystals. Fibers, 2016, 4, 21.	1.8	47
53	Cellulose Nanocrystals with Tethered Polymer Chains: Chemically Patchy versus Uniform Decoration. ACS Macro Letters, 2017, 6, 892-897.	2.3	47
54	Repeated exposure to carbon nanotube-based aerosols does not affect the functional properties of a 3D human epithelial airway model. Nanotoxicology, 2015, 9, 983-993.	1.6	46

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55	Interaction of biomedical nanoparticles with the pulmonary immune system. <i>Journal of Nanobiotechnology</i> , 2017, 15, 6.	4.2	45
56	Detection of Sub-Micro- and Nanoplastic Particles on Gold Nanoparticle-Based Substrates through Surface-Enhanced Raman Scattering (SERS) Spectroscopy. <i>Nanomaterials</i> , 2021, 11, 1149.	1.9	43
57	Pulmonary delivery of cationic gold nanoparticles boost antigen-specific CD4 + T Cell Proliferation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1815-1826.	1.7	42
58	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.	7.3	42
59	Reduction of Nanoparticle Load in Cells by Mitosis but Not Exocytosis. <i>ACS Nano</i> , 2019, 13, 7759-7770.	7.3	42
60	A mixture of ferritin and magnetite nanoparticles mimics the magnetic properties of human brain tissue. <i>Physical Review B</i> , 2006, 73, .	1.1	41
61	Can the Ames test provide an insight into nano-object mutagenicity? Investigating the interaction between nano-objects and bacteria. <i>Nanotoxicology</i> , 2013, 7, 1373-1385.	1.6	40
62	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.	1.0	38
63	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.	2.8	38
64	Superparamagnetic Nanoparticles as a Powerful Systems Biology Characterization Tool in the Physiological Context. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7857-7860.	7.2	37
65	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, 1410-1420.	1.0	37
66	Assessing meso- and microplastic pollution in the Ligurian and Tyrrhenian Seas. <i>Marine Pollution Bulletin</i> , 2019, 149, 110572.	2.3	37
67	Plasmonic nanoparticles and their characterization in physiological fluids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 137, 39-49.	2.5	35
68	Co-encapsulation of dexamethasone 21-acetate and SPIONs into biodegradable polymeric microparticles designed for intra-articular delivery. <i>Journal of Microencapsulation</i> , 2008, 25, 339-350.	1.2	34
69	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.	2.8	34
70	An In Vitro Lung System to Assess the Proinflammatory Hazard of Carbon Nanotube Aerosols. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5335.	1.8	34
71	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.	1.5	33
72	Cellular Shuttles: Monocytes/Macrophages Exhibit Transendothelial Transport of Nanoparticles under Physiological Flow. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18501-18511.	4.0	33

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73	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.	3.7	33
74	Current in vitro approaches to assess nanoparticle interactions with lung cells. <i>Nanomedicine</i> , 2016, 11, 2457-2469.	1.7	31
75	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.	2.0	31
76	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.	5.4	31
77	Local moderate magnetically induced hyperthermia using an implant formed in situ in a mouse tumor model. <i>International Journal of Hyperthermia</i> , 2009, 25, 229-239.	1.1	30
78	Nanoparticle Polydispersity Can Strongly Affect In Vitro Dose. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 321-333.	1.2	30
79	Solder doped polycaprolactone scaffold enables reproducible laser tissue soldering. <i>Lasers in Surgery and Medicine</i> , 2008, 40, 716-725.	1.1	29
80	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.	2.8	29
81	Uptake and Biocompatibility of Functionalized Poly(vinylalcohol) Coated Superparamagnetic Maghemite Nanoparticles by Synoviocytes In Vitro. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2829-2840.	0.9	29
82	A hydrofluoric acid-free method to dissolve and quantify silica nanoparticles in aqueous and solid matrices. <i>Scientific Reports</i> , 2019, 9, 7938.	1.6	28
83	Biocompatible thermo- and magneto-responsive shape-memory polyurethane bionanocomposites. <i>Materials Science and Engineering C</i> , 2019, 97, 658-668.	3.8	28
84	Hazard identification of exhausts from gasoline-ethanol fuel blends using a multi-cellular human lung model. <i>Environmental Research</i> , 2016, 151, 789-796.	3.7	26
85	Engineered nanomaterials: toward effective safety management in research laboratories. <i>Journal of Nanobiotechnology</i> , 2016, 14, 21.	4.2	26
86	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.	1.9	26
87	Inter-laboratory variability of A549 epithelial cells grown under submerged and air-liquid interface conditions. <i>Toxicology in Vitro</i> , 2021, 75, 105178.	1.1	26
88	Polyvinyl Alcohol as a Biocompatible Alternative for the Passivation of Gold Nanorods. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12613-12617.	7.2	24
89	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.	7.3	23
90	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.	0.6	23

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91	Fixed Bed Reactor for Solid-Phase Surface Derivatization of Superparamagnetic Nanoparticles. <i>Bioconjugate Chemistry</i> , 2007, 18, 1684-1690.	1.8	22
92	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.	1.0	22
93	Human epithelial cells in vitro – Are they an advantageous tool to help understand the nanomaterial-biological barrier interaction?. <i>EURO-NanoTox-Letters</i> , 2012, 4, 1-19.	1.0	22
94	In vitro-ex vivo model systems for nanosafety assessment. <i>European Journal of Nanomedicine</i> , 2015, 7, .	0.6	22
95	A new angle on dynamic depolarized light scattering: number-averaged size distribution of nanoparticles in focus. <i>Nanoscale</i> , 2016, 8, 15813-15821.	2.8	22
96	Assessing the Stability of Fluorescently Encoded Nanoparticles in Lysosomes by Using Complementary Methods. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13382-13386.	7.2	22
97	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.	1.0	22
98	Cellulose Nanocrystals: Surface Modification, Applications and Opportunities at Interfaces. <i>Chimia</i> , 2017, 71, 376.	0.3	22
99	Polydopamine/Transferrin Hybrid Nanoparticles for Targeted Cell-Killing. <i>Nanomaterials</i> , 2018, 8, 1065.	1.9	22
100	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.	2.6	22
101	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.	3.7	21
102	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.	0.8	21
103	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.	1.9	20
104	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, 5977-5986.	1.9	20
105	Taylor dispersion of nanoparticles. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	20
106	Phase Transformation of Superparamagnetic Iron Oxide Nanoparticles via Thermal Annealing: Implications for Hyperthermia Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 4462-4470.	2.4	20
107	When plants and plastic interact. <i>Nature Nanotechnology</i> , 2020, 15, 729-730.	15.6	20
108	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, 3261-3268.	0.9	20

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109	Modeling Nanoparticle-Alveolar Epithelial Cell Interactions under Breathing Conditions Using Captive Bubble Surfactometry. <i>Langmuir</i> , 2014, 30, 4924-4932.	1.6	19
110	Fluorescent plastic nanoparticles to track their interaction and fate in physiological environments. <i>Environmental Science: Nano</i> , 2021, 8, 502-513.	2.2	19
111	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.	0.7	18
112	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.	1.5	18
113	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.	1.6	17
114	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.	2.4	17
115	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.	0.8	16
116	A rapid screening method to evaluate the impact of nanoparticles on macrophages. <i>Nanoscale</i> , 2017, 9, 2492-2504.	2.8	16
117	The crux of positive controls - Pro-inflammatory responses in lung cell models. <i>Toxicology in Vitro</i> , 2019, 54, 189-193.	1.1	16
118	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.	2.8	15
119	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.	2.3	15
120	Advanced human in vitro models to assess metal oxide nanoparticle-cell interactions. <i>MRS Bulletin</i> , 2014, 39, 984-989.	1.7	15
121	Measuring the heating power of magnetic nanoparticles: an overview of currently used methods. <i>Materials Today: Proceedings</i> , 2017, 4, S107-S117.	0.9	15
122	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.	1.5	15
123	Beyond Global Charge: Role of Amine Bulkiness and Protein Fingerprint on Nanoparticle-Cell Interaction. <i>Small</i> , 2018, 14, e1802088.	5.2	15
124	Acute effects of multi-walled carbon nanotubes on primary bronchial epithelial cells from COPD patients. <i>Nanotoxicology</i> , 2018, 12, 699-711.	1.6	15
125	Heating behavior of magnetic iron oxide nanoparticles at clinically relevant concentration. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 637-642.	1.0	15
126	Lipid nanoparticles biocompatibility and cellular uptake in a 3D human lung model. <i>Nanomedicine</i> , 2020, 15, 259-271.	1.7	15

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127	Speckle-Visibility Spectroscopy of Depolarized Dynamic Light Scattering. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7999-8007.	1.2	13
128	Simple and fast evaluation of relaxation parameters of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 499, 166176.	1.0	13
129	Increased Uptake of Silica Nanoparticles in Inflamed Macrophages but Not upon Co-Exposure to Micron-Sized Particles. <i>Cells</i> , 2020, 9, 2099.	1.8	13
130	Understanding the Development, Standardization, and Validation Process of Alternative In Vitro Test Methods for Regulatory Approval from a Researcher Perspective. <i>Small</i> , 2021, 17, e2006027.	5.2	13
131	A versatile living polymerization method for aromatic amides. <i>Nature Chemistry</i> , 2021, 13, 705-713.	6.6	13
132	A comparative study of silver nanoparticle dissolution under physiological conditions. <i>Nanoscale Advances</i> , 2020, 2, 5760-5768.	2.2	13
133	Bis-TEGylated Poly(p-benzamide)s: Combining Organosolubility with Shape Persistence. <i>Macromolecules</i> , 2013, 46, 5520-5530.	2.2	12
134	Ultrathin Ceramic Membranes as Scaffolds for Functional Cell Coculture Models on a Biomimetic Scale. <i>BioResearch Open Access</i> , 2015, 4, 457-468.	2.6	12
135	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.	3.7	12
136	Artificial Lysosomal Platform to Study Nanoparticle Long-term Stability. <i>Chimia</i> , 2019, 73, 55.	0.3	12
137	An Inflamed Human Alveolar Model for Testing the Efficiency of Anti-inflammatory Drugs in vitro. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 987.	2.0	12
138	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.	1.7	11
139	Quantification of Carbon Nanotube Doses in Adherent Cell Culture Assays Using UV-VIS-NIR Spectroscopy. <i>Nanomaterials</i> , 2019, 9, 1765.	1.9	11
140	Nanoparticles and Taylor Dispersion as a Linear Time-Invariant System. <i>Analytical Chemistry</i> , 2019, 91, 1217-1221.	3.2	11
141	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.	1.2	10
142	Catechol-derivatized poly(vinyl alcohol) as a coating molecule for magnetic nanoclusters. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 157-162.	1.0	10
143	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.	2.8	10
144	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.	11.1	10

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145	Preparation of metallosupramolecular single-chain polymeric nanoparticles and their characterization by Taylor dispersion. <i>Polymer Chemistry</i> , 2020, 11, 586-592.	1.9	10
146	Cellular Uptake of Silica and Gold Nanoparticles Induces Early Activation of Nuclear Receptor NR4A1. <i>Nanomaterials</i> , 2022, 12, 690.	1.9	10
147	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, 5237-5244.	4.6	9
148	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.	1.0	9
149	Precision of Taylor Dispersion. <i>Analytical Chemistry</i> , 2019, 91, 9946-9951.	3.2	9
150	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.	1.8	8
151	Hypothesis Test of the Photon Count Distribution for Dust Discrimination in Dynamic Light Scattering. <i>Analytical Chemistry</i> , 2018, 90, 3656-3660.	3.2	8
152	Lock-In Thermography to Analyze Plasmonic Nanoparticle Dispersions. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900224.	1.2	8
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