

Barbara Rothen-Rutishauser

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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.

256
papers

13,987
citations

62
h-index

110
g-index

276
ext. papers

16,077
ext. citations

7.2
avg, IF

6.62
L-index

#	Paper	IF	Citations
256	Ultrafine particles cross cellular membranes by nonphagocytic mechanisms in lungs and in cultured cells. <i>Environmental Health Perspectives</i> , 2005 , 113, 1555-60	8.4	994
255	Nanoparticle colloidal stability in cell culture media and impact on cellular interactions. <i>Chemical Society Reviews</i> , 2015 , 44, 6287-305	58.5	576
254	Assessing the in vitro and in vivo toxicity of superparamagnetic iron oxide nanoparticles. <i>Chemical Reviews</i> , 2012 , 112, 2323-38	68.1	440
253	Translocation and potential neurological effects of fine and ultrafine particles a critical update. <i>Particle and Fibre Toxicology</i> , 2006 , 3, 13	8.4	381
252	Emergence of Nanoplastic in the Environment and Possible Impact on Human Health. <i>Environmental Science & Technology</i> , 2019 , 53, 1748-1765	10.3	356
251	Form Follows Function: Nanoparticle Shape and Its Implications for Nanomedicine. <i>Chemical Reviews</i> , 2017 , 117, 11476-11521	68.1	300
250	Different endocytotic uptake mechanisms for nanoparticles in epithelial cells and macrophages. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1625-36	3	289
249	The impact of different nanoparticle surface chemistry and size on uptake and toxicity in a murine macrophage cell line. <i>Toxicology and Applied Pharmacology</i> , 2008 , 232, 418-27	4.6	281
248	Quantitative evaluation of cellular uptake and trafficking of plain and polyethylene glycol-coated gold nanoparticles. <i>Small</i> , 2010 , 6, 1669-78	11	277
247	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
246	Evaluation of particle uptake in human blood monocyte-derived cells in vitro. Does phagocytosis activity of dendritic cells measure up with macrophages?. <i>Journal of Controlled Release</i> , 2001 , 76, 59-71	11.7	231
245	In-vitro cell exposure studies for the assessment of nanoparticle toxicity in the lung: A dialog between aerosol science and biology. <i>Journal of Aerosol Science</i> , 2011 , 42, 668-692	4.3	215
244	Engineering an in vitro air-blood barrier by 3D bioprinting. <i>Scientific Reports</i> , 2015 , 5, 7974	4.9	207
243	A dose-controlled system for air-liquid interface cell exposure and application to zinc oxide nanoparticles. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 32	8.4	168
242	Biodistribution, Clearance, and Long-Term Fate of Clinically Relevant Nanomaterials. <i>Advanced Materials</i> , 2018 , 30, e1704307	24	167
241	Investigating the interaction of cellulose nanofibers derived from cotton with a sophisticated 3D human lung cell coculture. <i>Biomacromolecules</i> , 2011 , 12, 3666-73	6.9	165
240	Articular cartilage: from formation to tissue engineering. <i>Biomaterials Science</i> , 2016 , 4, 734-67	7.4	164

239	Major to trace element analysis of melt inclusions by laser-ablation ICP-MS: methods of quantification. <i>Chemical Geology</i> , 2002 , 183, 63-86	4.2	158
238	Diesel exhaust: current knowledge of adverse effects and underlying cellular mechanisms. <i>Archives of Toxicology</i> , 2016 , 90, 1541-53	5.8	152
237	Translocation of particles and inflammatory responses after exposure to fine particles and nanoparticles in an epithelial airway model. <i>Particle and Fibre Toxicology</i> , 2007 , 4, 9	8.4	151
236	Dendritic cells and macrophages form a transepithelial network against foreign particulate antigens. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007 , 36, 669-77	5.7	149
235	Effects and uptake of gold nanoparticles deposited at the air-liquid interface of a human epithelial airway model. <i>Toxicology and Applied Pharmacology</i> , 2010 , 242, 56-65	4.6	146
234	Interactions of nanoparticles with pulmonary structures and cellular responses. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008 , 294, L817-29	5.8	142
233	A critical review of the current knowledge regarding the biological impact of nanocellulose. <i>Journal of Nanobiotechnology</i> , 2016 , 14, 78	9.4	141
232	In vitro models of the human epithelial airway barrier to study the toxic potential of particulate matter. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2008 , 4, 1075-89	5.5	140
231	Cell "vision": complementary factor of protein corona in nanotoxicology. <i>Nanoscale</i> , 2012 , 4, 5461-8	7.7	133
230	In vitro approaches to assess the hazard of nanomaterials. <i>NanoImpact</i> , 2017 , 8, 99-116	5.6	126
229	A comparison of acute and long-term effects of industrial multiwalled carbon nanotubes on human lung and immune cells in vitro. <i>Toxicology Letters</i> , 2011 , 200, 176-86	4.4	125
228	Oxidative stress and inflammation response after nanoparticle exposure: differences between human lung cell monocultures and an advanced three-dimensional model of the human epithelial airways. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 1, S27-40	4.1	124
227	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
226	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014 , 31, 441-77	4.3	122
225	Cytotoxicity and genotoxicity of size-fractionated iron oxide (magnetite) in A549 human lung epithelial cells: role of ROS, JNK, and NF- κ B. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1460-75	4	121
224	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
223	Cell cultures as tools in biopharmacy. <i>European Journal of Pharmaceutical Sciences</i> , 2000 , 11 Suppl 2, S51-60	5.1	108
222	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

221	PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1944-63	3	102
220	Visualization and quantitative analysis of nanoparticles in the respiratory tract by transmission electron microscopy. <i>Particle and Fibre Toxicology</i> , 2007 , 4, 11	8.4	101
219	Phenotypic characterization of human umbilical vein endothelial (ECV304) and urinary carcinoma (T24) cells: endothelial versus epithelial features. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2001 , 37, 505-14	2.6	101
218	Toxic effects of brake wear particles on epithelial lung cells in vitro. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 30	8.4	100
217	Nanotoxicology: a perspective and discussion of whether or not in vitro testing is a valid alternative. <i>Archives of Toxicology</i> , 2011 , 85, 723-31	5.8	96
216	Directed cell growth in multi-zonal scaffolds for cartilage tissue engineering. <i>Biomaterials</i> , 2016 , 74, 42-52	5.6	94
215	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019 , 14, 629-635	28.7	92
214	Dynamics of tight and adherens junctions under EGTA treatment. <i>Journal of Membrane Biology</i> , 2002 , 188, 151-62	2.3	92
213	Understanding nanoparticle endocytosis to improve targeting strategies in nanomedicine. <i>Chemical Society Reviews</i> , 2021 , 50, 5397-5434	58.5	89
212	Fluorescent-magnetic hybrid nanoparticles induce a dose-dependent increase in proinflammatory response in lung cells in vitro correlated with intracellular localization. <i>Small</i> , 2010 , 6, 753-62	11	86
211	Novel peptide conjugates for tumor-specific chemotherapy. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 1341-8	8.3	86
210	Transfer of lipophilic markers from PLGA and polystyrene nanoparticles to caco-2 monolayers mimics particle uptake. <i>Pharmaceutical Research</i> , 2002 , 19, 595-601	4.5	82
209	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
208	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
207	Air-Liquid Interface Models for Respiratory Toxicology Research: Consensus Workshop and Recommendations. <i>Applied in Vitro Toxicology</i> , 2018 , 4, 91-106	1.3	78
206	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
205	Active uptake of dendritic cell-derived exovesicles by epithelial cells induces the release of inflammatory mediators through a TNF-alpha-mediated pathway. <i>American Journal of Pathology</i> , 2009 , 175, 696-705	5.8	77
204	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

203	The adsorption of biomolecules to multi-walled carbon nanotubes is influenced by both pulmonary surfactant lipids and surface chemistry. <i>Journal of Nanobiotechnology</i> , 2010 , 8, 31	9.4	76
202	Translocation of human calcitonin in respiratory nasal epithelium is associated with self-assembly in lipid membrane. <i>Biochemistry</i> , 1998 , 37, 16582-90	3.2	75
201	Exovesicles from human activated dendritic cells fuse with resting dendritic cells, allowing them to present alloantigens. <i>American Journal of Pathology</i> , 2006 , 169, 2127-36	5.8	75
200	Insertion of nanoparticle clusters into vesicle bilayers. <i>ACS Nano</i> , 2014 , 8, 3451-60	16.7	71
199	Spinal muscular atrophy: SMN2 pre-mRNA splicing corrected by a U7 snRNA derivative carrying a splicing enhancer sequence. <i>Molecular Therapy</i> , 2007 , 15, 1479-86	11.7	68
198	Characterizing nanoparticles in complex biological media and physiological fluids with depolarized dynamic light scattering. <i>Nanoscale</i> , 2015 , 7, 5991-7	7.7	64
197	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
196	Pulmonary surfactant coating of multi-walled carbon nanotubes (MWCNTs) influences their oxidative and pro-inflammatory potential in vitro. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 17	8.4	64
195	Intracellular imaging of nanoparticles: is it an elemental mistake to believe what you see?. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 15	8.4	64
194	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
193	Direct combination of nanoparticle fabrication and exposure to lung cell cultures in a closed setup as a method to simulate accidental nanoparticle exposure of humans. <i>Environmental Science & Technology</i> , 2009 , 43, 2634-40	10.3	61
192	Nanoparticle-Cell Interaction: A Cell Mechanics Perspective. <i>Advanced Materials</i> , 2018 , 30, e1704463	24	60
191	Quantification of gold nanoparticle cell uptake under controlled biological conditions and adequate resolution. <i>Nanomedicine</i> , 2014 , 9, 607-21	5.6	59
190	Connexin43 ablation in foetal atrial myocytes decreases electrical coupling, partner connexins, and sodium current. <i>Cardiovascular Research</i> , 2012 , 94, 58-65	9.9	59
189	The uptake and intracellular fate of a series of different surface coated quantum dots in vitro. <i>Toxicology</i> , 2011 , 286, 58-68	4.4	59
188	Effects of combustion-derived ultrafine particles and manufactured nanoparticles on heart cells in vitro. <i>Toxicology</i> , 2008 , 253, 70-8	4.4	58
187	Silica nanoparticles enhance disease resistance in Arabidopsis plants. <i>Nature Nanotechnology</i> , 2021 , 16, 344-353	28.7	58
186	Fate of cellulose nanocrystal aerosols deposited on the lung cell surface in vitro. <i>Biomacromolecules</i> , 2015 , 16, 1267-75	6.9	57

185	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
184	Quantum dot cytotoxicity in vitro: an investigation into the cytotoxic effects of a series of different surface chemistries and their core/shell materials. <i>Nanotoxicology</i> , 2011 , 5, 664-74	5.3	55
183	MDCK cell cultures as an epithelial in vitro model: cytoskeleton and tight junctions as indicators for the definition of age-related stages by confocal microscopy. <i>Pharmaceutical Research</i> , 1998 , 15, 964-71	4.5	55
182	Re-evaluation of pulmonary titanium dioxide nanoparticle distribution using the "relative deposition index": Evidence for clearance through microvasculature. <i>Particle and Fibre Toxicology</i> , 2007 , 4, 7	8.4	55
181	A ZO1-GFP fusion protein to study the dynamics of tight junctions in living cells. <i>Histochemistry and Cell Biology</i> , 2002 , 117, 307-15	2.4	53
180	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
179	Differences in the intracellular distribution of acid-sensitive doxorubicin-protein conjugates in comparison to free and liposomal formulated doxorubicin as shown by confocal microscopy. <i>Pharmaceutical Research</i> , 2001 , 18, 29-38	4.5	51
178	A newly developed in vitro model of the human epithelial airway barrier to study the toxic potential of nanoparticles. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2008 , 25, 191-6	4.3	51
177	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
176	Preparation and characterization of functional silica hybrid magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 362, 72-79	2.8	50
175	Relating the physicochemical characteristics and dispersion of multiwalled carbon nanotubes in different suspension media to their oxidative reactivity in vitro and inflammation in vivo. <i>Nanotoxicology</i> , 2010 , 4, 331-42	5.3	49
174	Cell-to-cell coupling in engineered pairs of rat ventricular cardiomyocytes: relation between Cx43 immunofluorescence and intercellular electrical conductance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H443-50	5.2	49
173	Biomechanical effects of environmental and engineered particles on human airway smooth muscle cells. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 3, S331-40	4.1	47
172	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
171	Fluorescence-encoded gold nanoparticles: library design and modulation of cellular uptake into dendritic cells. <i>Small</i> , 2014 , 10, 1341-50	11	46
170	Quantifying nanoparticle cellular uptake: which method is best?. <i>Nanomedicine</i> , 2017 , 12, 1095-1099	5.6	45
169	The influence of pulmonary surfactant on nanoparticulate drug delivery systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 350-2	5.7	45
168	New exposure system to evaluate the toxicity of (scooter) exhaust emissions in lung cells in vitro. <i>Environmental Science & Technology</i> , 2010 , 44, 2632-8	10.3	45

167	Monitoring of the internalization of neuropeptide Y on neuroblastoma cell line SK-N-MC. <i>FEBS Journal</i> , 2000 , 267, 5631-7		45
166	Magnetoliposomes: opportunities and challenges. <i>European Journal of Nanomedicine</i> , 2014 , 6,		42
165	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
164	Comparison of manganese oxide nanoparticles and manganese sulfate with regard to oxidative stress, uptake and apoptosis in alveolar epithelial cells. <i>Toxicology Letters</i> , 2011 , 205, 163-72	4.4	41
163	A novel quantitative method for analyzing the distributions of nanoparticles between different tissue and intracellular compartments. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2007 , 20, 395-407		41
162	Expert consensus on an in vitro approach to assess pulmonary fibrogenic potential of aerosolized nanomaterials. <i>Archives of Toxicology</i> , 2016 , 90, 1769-83	5.8	41
161	Effects of flame made zinc oxide particles in human lung cells - a comparison of aerosol and suspension exposures. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 33	8.4	40
160	Mechanisms of nanoparticle-mediated photomechanical cell damage. <i>Biomedical Optics Express</i> , 2012 , 3, 435-46	3.5	40
159	Cerium dioxide nanoparticles can interfere with the associated cellular mechanistic response to diesel exhaust exposure. <i>Toxicology Letters</i> , 2012 , 214, 218-25	4.4	39
158	Microfluidic platforms for advanced risk assessments of nanomaterials. <i>Nanotoxicology</i> , 2015 , 9, 381-95	5.3	38
157	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
156	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
155	Permeation and pathways of human calcitonin (hCT) across excised bovine nasal mucosa. <i>Peptides</i> , 1998 , 19, 599-607	3.8	37
154	A novel cell compatible impingement system to study in vitro drug absorption from dry powder aerosol formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 72, 350-7	5.7	35
153	Use of EpiAlveolar Lung Model to Predict Fibrotic Potential of Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , 2020 , 14, 3941-3956	16.7	34
152	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
151	Predicting pulmonary fibrosis in humans after exposure to multi-walled carbon nanotubes (MWCNTs). <i>Archives of Toxicology</i> , 2016 , 90, 1605-22	5.8	34
150	Nanoparticle administration method in cell culture alters particle-cell interaction. <i>Scientific Reports</i> , 2019 , 9, 900	4.9	33

149	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
148	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
147	A brief summary of carbon nanotubes science and technology: a health and safety perspective. <i>ChemSusChem</i> , 2011 , 4, 905-11	8.3	32
146	In vitro dosimetry of agglomerates. <i>Nanoscale</i> , 2014 , 6, 7325-31	7.7	31
145	Formation of multilayers in the caco-2 cell culture model: a confocal laser scanning microscopy study. <i>Pharmaceutical Research</i> , 2000 , 17, 460-5	4.5	31
144	Structure-permeation relations of met-enkephalin peptide analogues on absorption and secretion mechanisms in Caco-2 monolayers. <i>Journal of Pharmaceutical Sciences</i> , 1997 , 86, 846-53	3.9	30
143	Plasmonic nanoparticles and their characterization in physiological fluids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 137, 39-49	6	29
142	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
141	Cerium oxide nanoparticle uptake kinetics from the gas-phase into lung cells in vitro is transport limited. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 368-75	5.7	29
140	Interaction of biomedical nanoparticles with the pulmonary immune system. <i>Journal of Nanobiotechnology</i> , 2017 , 15, 6	9.4	28
139	Slow-targeted release of a ruthenium anticancer agent from vitamin B functionalized marine diatom microalgae. <i>Dalton Transactions</i> , 2018 , 47, 17221-17232	4.3	28
138	Innovative preclinical models for pulmonary drug delivery research. <i>Expert Opinion on Drug Delivery</i> , 2020 , 17, 463-478	8	27
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	Realistic Exposure Methods for Investigating the Interaction of Nanoparticles with the Lung at the Air-Liquid Interface In Vitro. <i>Insciences Journal</i> , 30-64		27
135	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
134	Impact of airborne particulate matter on skin: a systematic review from epidemiology to in vitro studies. <i>Particle and Fibre Toxicology</i> , 2020 , 17, 35	8.4	25
133	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
132	Investigating the role of shape on the biological impact of gold nanoparticles in vitro. <i>Nanomedicine</i> , 2015 , 10, 2643-57	5.6	24

131	Nanoparticle Polydispersity Can Strongly Affect In Vitro Dose. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 321-333	3.1	24
130	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
129	Current in vitro approaches to assess nanoparticle interactions with lung cells. <i>Nanomedicine</i> , 2016 , 11, 2457-69	5.6	24
128	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
127	Differential effects of long and short carbon nanotubes on the gas-exchange region of the mouse lung. <i>Nanotoxicology</i> , 2012 , 6, 867-79	5.3	23
126	Integrating silver compounds and nanoparticles into ceria nanocontainers for antimicrobial applications. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1760-1768	7.3	22
125	Macroscopic to microscopic scales of particle dosimetry: from source to fate in the body. <i>Air Quality, Atmosphere and Health</i> , 2012 , 5, 169-187	5.6	22
124	Recent advances into understanding some aspects of the structure and function of mammalian and avian lungs. <i>Physiological and Biochemical Zoology</i> , 2010 , 83, 792-807	2	22
123	Coupling of mutated Met variants to DNA repair via Abl and Rad51. <i>Cancer Research</i> , 2008 , 68, 5769-77	10.1	22
122	From Bioinspired Glue to Medicine: Polydopamine as a Biomedical Material. <i>Materials</i> , 2020 , 13,	3.5	22
121	Organometallic cobalamin anticancer derivatives for targeted prodrug delivery via transcobalamin-mediated uptake. <i>Dalton Transactions</i> , 2017 , 46, 2159-2164	4.3	21
120	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
119	Assessing meso- and microplastic pollution in the Ligurian and Tyrrhenian Seas. <i>Marine Pollution Bulletin</i> , 2019 , 149, 110572	6.7	20
118	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
117	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
116	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
115	Reduction of Nanoparticle Load in Cells by Mitosis but Not Exocytosis. <i>ACS Nano</i> , 2019 , 13, 7759-7770	16.7	19
114	Particles induce apical plasma membrane enlargement in epithelial lung cell line depending on particle surface area dose. <i>Respiratory Research</i> , 2009 , 10, 22	7.3	19

113	A lock-in-based method to examine the thermal signatures of magnetic nanoparticles in the liquid, solid and aggregated states. <i>Nanoscale</i> , 2016 , 8, 13321-32	7.7	18
112	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
111	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
110	Taylor dispersion of nanoparticles. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	18
109	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
108	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
107	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
106	Decoupling the shape parameter to assess gold nanorod uptake by mammalian cells. <i>Nanoscale</i> , 2016 , 8, 16416-16426	7.7	17
105	Engineered nanomaterials: toward effective safety management in research laboratories. <i>Journal of Nanobiotechnology</i> , 2016 , 14, 21	9.4	17
104	Synthesis, characterization, antibacterial activity and cytotoxicity of hollow TiO-coated CeO nanocontainers encapsulating silver nanoparticles for controlled silver release. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1166-1174	7.3	17
103	Investigating the potential for different scooter and car exhaust emissions to cause cytotoxic and (pro-)inflammatory responses to a 3D in vitro model of the human epithelial airway. <i>Toxicological and Environmental Chemistry</i> , 2012 , 94, 164-180	1.4	16
102	Role of dendritic cells in the lung: in vitro models, animal models and human studies. <i>Expert Review of Respiratory Medicine</i> , 2008 , 2, 215-33	3.8	16
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	9.3	15
100	Modeling nanoparticle-alveolar epithelial cell interactions under breathing conditions using captive bubble surfactometry. <i>Langmuir</i> , 2014 , 30, 4924-32	4	15
99	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
98	Proinflammatory and cytotoxic response to nanoparticles in precision-cut lung slices. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2440-9	3	15
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