

# Barbara Rothen-Rutishauser

## List of Publications by Year in Descending Order

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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	Impurities in polyvinylpyrrolidone: the key factor in the synthesis of gold nanostars.. <i>Nanoscale Advances</i> , <b>2022</b> , 4, 387-392	5.1	0
255	The micro-, submicron-, and nanoplastic hunt: A review of detection methods for plastic particles.. <i>Chemosphere</i> , <b>2022</b> , 133514	8.4	7
254	The Road to Achieving the European Commission's Chemicals Strategy for Nanomaterial Sustainability-A PATROLS Perspective on New Approach Methodologies.. <i>Small</i> , <b>2022</b> , e2200231	11	3
253	High-Throughput Manufacturing of Antibacterial Nanofibers by Melt Coextrusion and Post-Processing Surface-Initiated Atom Transfer Radical Polymerization. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 260-269	4.3	2
252	Intracellular gold nanoparticles influence light scattering and facilitate amplified spontaneous emission generation.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 622, 914-923	9.3	1
251	Aligned and Oriented Collagen Nanocomposite Fibers as Substrates to Activate Fibroblasts.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 8316-8324	4.1	2
250	Factors Affecting Nanoparticle Dose Exposure and Cell Response. <i>Molecular and Integrative Toxicology</i> , <b>2021</b> , 129-140	0.5	
249	Experimental and Theoretical Validation of Plasmonic Nanoparticle Heat Generation by Using Lock-In Thermography. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 5890-5896	3.8	0
248	Detection of Sub-Micro- and Nanoplastic Particles on Gold Nanoparticle-Based Substrates through Surface-Enhanced Raman Scattering (SERS) Spectroscopy. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	12
247	Silica nanoparticles enhance disease resistance in Arabidopsis plants. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 344-353	28.7	58
246	Understanding nanoparticle endocytosis to improve targeting strategies in nanomedicine. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 5397-5434	58.5	89
245	Particle Stiffness and Surface Topography Determine Macrophage-Mediated Removal of Surface Adsorbed Particles. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001667	10.1	3
244	Understanding the Development, Standardization, and Validation Process of Alternative In Vitro Test Methods for Regulatory Approval from a Researcher Perspective. <i>Small</i> , <b>2021</b> , 17, e2006027	11	3
243	Non-Animal Strategies for Toxicity Assessment of Nanoscale Materials: Role of Adverse Outcome Pathways in the Selection of Endpoints. <i>Small</i> , <b>2021</b> , 17, e2007628	11	11
242	Design of Perfused PTFE Vessel-Like Constructs for In Vitro Applications. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100016	5.5	0
241	Inter-laboratory variability of A549 epithelial cells grown under submerged and air-liquid interface conditions. <i>Toxicology in Vitro</i> , <b>2021</b> , 75, 105178	3.6	8
240	Fluorescent plastic nanoparticles to track their interaction and fate in physiological environments. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 502-513	7.1	4

239	Understanding selectivity of metabolic labelling and click-targeting in multicellular environments as a route to tissue selective drug delivery. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 5365-5373	7.3	0
238	Characterization of the Shape Anisotropy of Superparamagnetic Iron Oxide Nanoparticles during Thermal Decomposition. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
237	Size and Surface Charge Dependent Impregnation of Nanoparticles in Soft- and Hardwood. <i>Chemistry</i> , <b>2020</b> , 2, 361-373	2.1	2
236	Use of EpiAlveolar Lung Model to Predict Fibrotic Potential of Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , <b>2020</b> , 14, 3941-3956	16.7	34
235	Particle Surfaces to Study Macrophage Adherence, Migration, and Clearance. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002630	15.6	4
234	Innovative preclinical models for pulmonary drug delivery research. <i>Expert Opinion on Drug Delivery</i> , <b>2020</b> , 17, 463-478	8	27
233	Versatile Macroscale Concentration Gradients of Nanoparticles in Soft Nanocomposites. <i>Small</i> , <b>2020</b> , 16, e1905192	11	2
232	Multicellular Human Alveolar Model Composed of Epithelial Cells and Primary Immune Cells for Hazard Assessment. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	3
231	A comparative study of silver nanoparticle dissolution under physiological conditions. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 5760-5768	5.1	7
230	Polydopamine Nanoparticle Doped Nanofluid for Solar Thermal Energy Collector Efficiency Increase. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 1900101	5.9	3
229	Lipid nanoparticles biocompatibility and cellular uptake in a 3D human lung model. <i>Nanomedicine</i> , <b>2020</b> , 15, 259-271	5.6	8
228	An Inflamed Human Alveolar Model for Testing the Efficiency of Anti-inflammatory Drugs. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 987	5.8	4
227	An In Vitro Lung System to Assess the Proinflammatory Hazard of Carbon Nanotube Aerosols. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	13
226	Impact of airborne particulate matter on skin: a systematic review from epidemiology to in vitro studies. <i>Particle and Fibre Toxicology</i> , <b>2020</b> , 17, 35	8.4	25
225	Increased Uptake of Silica Nanoparticles in Inflamed Macrophages but Not upon Co-Exposure to Micron-Sized Particles. <i>Cells</i> , <b>2020</b> , 9,	7.9	4
224	Rapid and sensitive quantification of cell-associated multi-walled carbon nanotubes. <i>Nanoscale</i> , <b>2020</b> , 12, 17362-17372	7.7	4
223	When plants and plastic interact. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 729-730	28.7	4
222	From Bioinspired Glue to Medicine: Polydopamine as a Biomedical Material. <i>Materials</i> , <b>2020</b> , 13,	3.5	22

221	Nanoparticle administration method in cell culture alters particle-cell interaction. <i>Scientific Reports</i> , <b>2019</b> , 9, 900	4.9	33
220	Precision of Taylor Dispersion. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9946-9951	7.8	6
219	A hydrofluoric acid-free method to dissolve and quantify silica nanoparticles in aqueous and solid matrices. <i>Scientific Reports</i> , <b>2019</b> , 9, 7938	4.9	14
218	Nanoparticle Behaviour in Complex Media: Methods for Characterizing Physicochemical Properties, Evaluating Protein Corona Formation, and Implications for Biological Studies. <i>Nanoscience and Technology</i> , <b>2019</b> , 101-150	0.6	7
217	Nanoparticle-Cell Interactions: Overview of Uptake, Intracellular Fate and Induction of Cell Responses. <i>Nanoscience and Technology</i> , <b>2019</b> , 153-170	0.6	5
216	Profibrotic Activity of Multiwalled Carbon Nanotubes Upon Prolonged Exposures in Different Human Lung Cell Types. <i>Applied in Vitro Toxicology</i> , <b>2019</b> , 5, 47-61	1.3	17
215	Artificial Lysosomal Platform to Study Nanoparticle Long-term Stability. <i>Chimia</i> , <b>2019</b> , 73, 55-58	1.3	4
214	A Bio-Inspired Amplification Cascade for the Detection of Rare Cancer Cells. <i>Chimia</i> , <b>2019</b> , 73, 63-68	1.3	2
213	An Atomistic Look into Bio-inspired Nanoparticles and their Molecular Interactions with Cells. <i>Chimia</i> , <b>2019</b> , 73, 78-80	1.3	2
212	Lock-In Thermography to Analyze Plasmonic Nanoparticle Dispersions. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1900224	3.1	6
211	Phase Transformation of Superparamagnetic Iron Oxide Nanoparticles via Thermal Annealing: Implications for Hyperthermia Applications. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 4462-4470	5.6	8
210	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 629-635	28.7	92
209	Reduction of Nanoparticle Load in Cells by Mitosis but Not Exocytosis. <i>ACS Nano</i> , <b>2019</b> , 13, 7759-7770	16.7	19
208	Assessing meso- and microplastic pollution in the Ligurian and Tyrrhenian Seas. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 149, 110572	6.7	20
207	A Simple Method to Determine Cytotoxicity of Water-Soluble Organic Compounds and Solid Particles from Biomass Combustion in Lung Cells in Vitro. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3959-3968	10.3	4
206	Quantification of Carbon Nanotube Doses in Adherent Cell Culture Assays Using UV-VIS-NIR Spectroscopy. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	7
205	Emergence of Nanoplastic in the Environment and Possible Impact on Human Health. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 1748-1765	10.3	356
204	Leveraging proteomics to compare submerged versus air-liquid interface carbon nanotube exposure to a 3D lung cell model. <i>Toxicology in Vitro</i> , <b>2019</b> , 54, 58-66	3.6	11

203	The crux of positive controls - Pro-inflammatory responses in lung cell models. <i>Toxicology in Vitro</i> , <b>2019</b> , 54, 189-193	3.6	9
202	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> , <b>2018</b> , 238, 977-987	9.3	15
201	A realistic in vitro exposure revealed seasonal differences in (pro-)inflammatory effects from ambient air in Fribourg, Switzerland. <i>Inhalation Toxicology</i> , <b>2018</b> , 30, 40-48	2.7	6
200	Probing nano-scale viscoelastic response in air and in liquid with dynamic atomic force microscopy. <i>Soft Matter</i> , <b>2018</b> , 14, 3998-4006	3.6	6
199	Assessment of lung cell toxicity of various gasoline engine exhausts using a versatile in vitro exposure system. <i>Environmental Pollution</i> , <b>2018</b> , 235, 263-271	9.3	19
198	Biodistribution, Clearance, and Long-Term Fate of Clinically Relevant Nanomaterials. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704307	24	167
197	Taylor Dispersion of Inorganic Nanoparticles and Comparison to Dynamic Light Scattering and Transmission Electron Microscopy. <i>Colloids and Interface Science Communications</i> , <b>2018</b> , 22, 29-33	5.4	24
196	Nanoparticle-Cell Interaction: A Cell Mechanics Perspective. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704463	24	60
195	Air-Liquid Interface Models for Respiratory Toxicology Research: Consensus Workshop and Recommendations. <i>Applied in Vitro Toxicology</i> , <b>2018</b> , 4, 91-106	1.3	78
194	Exposure to silver nanoparticles affects viability and function of natural killer cells, mostly via the release of ions. <i>Cell Biology and Toxicology</i> , <b>2018</b> , 34, 167-176	7.4	17
193	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> , <b>2018</b> , 31, 170-181	3.8	33
192	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> , <b>2018</b> , 19, 3693-3704	6.9	18
191	A rational and iterative process for targeted nanoparticle design and validation. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 171, 579-589	6	3
190	A novel sample holder for 4D live cell imaging to study cellular dynamics in complex 3D tissue cultures. <i>Scientific Reports</i> , <b>2018</b> , 8, 9861	4.9	3
189	Subcellular Imaging of Liquid Silicone Coated-Intestinal Epithelial Cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 107634.9	4.9	3
188	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> , <b>2018</b> , 92, 2339-2351	5.8	13
187	Distribution of polymer-coated gold nanoparticles in a 3D lung model and indication of apoptosis after repeated exposure. <i>Nanomedicine</i> , <b>2018</b> , 13, 1169-1185	5.6	8
186	Polydopamine/Transferrin Hybrid Nanoparticles for Targeted Cell-Killing. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	14

185	Alveolar Epithelium in Lung Toxicology <b>2018</b> , 50-77		3
184	Revealing the Role of Epithelial Mechanics and Macrophage Clearance during Pulmonary Epithelial Injury Recovery in the Presence of Carbon Nanotubes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1806181	24	8
183	Slow-targeted release of a ruthenium anticancer agent from vitamin B functionalized marine diatom microalgae. <i>Dalton Transactions</i> , <b>2018</b> , 47, 17221-17232	4-3	28
182	Carbon nanodots: Opportunities and limitations to study their biodistribution at the human lung epithelial tissue barrier. <i>Biointerphases</i> , <b>2018</b> , 13, 06D404	1.8	5
181	Beyond Global Charge: Role of Amine Bulkiness and Protein Fingerprint on Nanoparticle-Cell Interaction. <i>Small</i> , <b>2018</b> , 14, e1802088	11	11
180	Acute effects of multi-walled carbon nanotubes on primary bronchial epithelial cells from COPD patients. <i>Nanotoxicology</i> , <b>2018</b> , 12, 699-711	5-3	13
179	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> , <b>2018</b> , 137, 125-135	10.4	21
178	Organometallic cobalamin anticancer derivatives for targeted prodrug delivery via transcobalamin-mediated uptake. <i>Dalton Transactions</i> , <b>2017</b> , 46, 2159-2164	4-3	21
177	Interaction of biomedical nanoparticles with the pulmonary immune system. <i>Journal of Nanobiotechnology</i> , <b>2017</b> , 15, 6	9.4	28
176	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> , <b>2017</b> , 7, 434	4.9	13
175	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> , <b>2017</b> , 11, 7615-7625	16.7	32
174	Quantifying nanoparticle cellular uptake: which method is best?. <i>Nanomedicine</i> , <b>2017</b> , 12, 1095-1099	5.6	45
173	Cellular Shuttles: Monocytes/Macrophages Exhibit Transendothelial Transport of Nanoparticles under Physiological Flow. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18501-18511	9.5	24
172	Assumption-free morphological quantification of single anisotropic nanoparticles and aggregates. <i>Nanoscale</i> , <b>2017</b> , 9, 4918-4927	7.7	6
171	Aerosol Delivery of Functionalized Gold Nanoparticles Target and Activate Dendritic Cells in a 3D Lung Cellular Model. <i>ACS Nano</i> , <b>2017</b> , 11, 375-383	16.7	37
170	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> , <b>2017</b> , 8, 2396-2409	3	14
169	Characteristics and properties of nano-LiCoO synthesized by pre-organized single source precursors: Li-ion diffusivity, electrochemistry and biological assessment. <i>Journal of Nanobiotechnology</i> , <b>2017</b> , 15, 58	9.4	8
168	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> , <b>2017</b> , 14, 49	8.4	29

167	Effects of gasoline and ethanol-gasoline exhaust exposure on human bronchial epithelial and natural killer cells in vitro. <i>Toxicology in Vitro</i> , <b>2017</b> , 45, 101-110	3.6	11
166	Form Follows Function: Nanoparticle Shape and Its Implications for Nanomedicine. <i>Chemical Reviews</i> , <b>2017</b> , 117, 11476-11521	68.1	300
165	In vitro approaches to assess the hazard of nanomaterials. <i>NanoImpact</i> , <b>2017</b> , 8, 99-116	5.6	126
164	Assessing the Stability of Fluorescently Encoded Nanoparticles in Lysosomes by Using Complementary Methods. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13567-13571	3.6	2
163	Assessing the Stability of Fluorescently Encoded Nanoparticles in Lysosomes by Using Complementary Methods. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13382-13386	16.4	15
162	Taylor dispersion of nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	18
161	Measuring the heating power of magnetic nanoparticles: an overview of currently used methods. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, S107-S117	1.4	13
160	Lock-In Thermography as an Analytical Tool for Magnetic Nanoparticles: Measuring Heating Power and Magnetic Fields. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27164-27175	3.8	11
159	Lock-in thermography as a rapid and reproducible thermal characterization method for magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 427, 206-211	2.8	8
158	Dynamic and biocompatible thermo-responsive magnetic hydrogels that respond to an alternating magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 427, 212-219	2.8	20
157	Identification and Characterization of a Dendritic Cell Precursor in Parenchymal Lung Tissue. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2017</b> , 56, 353-361	5.7	1
156	Plasmonic nanoparticles and their characterization in physiological fluids. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 137, 39-49	6	29
155	Decoupling the shape parameter to assess gold nanorod uptake by mammalian cells. <i>Nanoscale</i> , <b>2016</b> , 8, 16416-16426	7.7	17
154	Current in vitro approaches to assess nanoparticle interactions with lung cells. <i>Nanomedicine</i> , <b>2016</b> , 11, 2457-69	5.6	24
153	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> , <b>2016</b> , 13, 67	8.4	27
152	A lock-in-based method to examine the thermal signatures of magnetic nanoparticles in the liquid, solid and aggregated states. <i>Nanoscale</i> , <b>2016</b> , 8, 13321-32	7.7	18
151	Engineered nanomaterials: toward effective safety management in research laboratories. <i>Journal of Nanobiotechnology</i> , <b>2016</b> , 14, 21	9.4	17
150	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> , <b>2016</b> , 4, 1166-1174	7.3	17



149	Articular cartilage: from formation to tissue engineering. <i>Biomaterials Science</i> , <b>2016</b> , 4, 734-67	7.4	164
148	Distribution of Silica-Coated Silver/Gold Nanostars in Soft- and Hardwood Applying SERS-Based Imaging. <i>Langmuir</i> , <b>2016</b> , 32, 274-83	4	5
147	Directed cell growth in multi-zonal scaffolds for cartilage tissue engineering. <i>Biomaterials</i> , <b>2016</b> , 74, 42-53,6	5.6	94
146	A critical review of the current knowledge regarding the biological impact of nanocellulose. <i>Journal of Nanobiotechnology</i> , <b>2016</b> , 14, 78	9.4	141
145	Predicting pulmonary fibrosis in humans after exposure to multi-walled carbon nanotubes (MWCNTs). <i>Archives of Toxicology</i> , <b>2016</b> , 90, 1605-22	5.8	34
144	Expert consensus on an in vitro approach to assess pulmonary fibrogenic potential of aerosolized nanomaterials. <i>Archives of Toxicology</i> , <b>2016</b> , 90, 1769-83	5.8	41
143	Diesel exhaust: current knowledge of adverse effects and underlying cellular mechanisms. <i>Archives of Toxicology</i> , <b>2016</b> , 90, 1541-53	5.8	152
142	Hazard identification of exhausts from gasoline-ethanol fuel blends using a multi-cellular human lung model. <i>Environmental Research</i> , <b>2016</b> , 151, 789-796	7.9	20
141	Characterizing nanoparticles in complex biological media and physiological fluids with depolarized dynamic light scattering. <i>Nanoscale</i> , <b>2015</b> , 7, 5991-7	7.7	64
140	Biomimetics of fetal alveolar flow phenomena using microfluidics. <i>Biomicrofluidics</i> , <b>2015</b> , 9, 014120	3.2	11
139	Fate of cellulose nanocrystal aerosols deposited on the lung cell surface in vitro. <i>Biomacromolecules</i> , <b>2015</b> , 16, 1267-75	6.9	57
138	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> , <b>2015</b> , 1, 237-246	2	14
137	Repeated exposure to carbon nanotube-based aerosols does not affect the functional properties of a 3D human epithelial airway model. <i>Nanotoxicology</i> , <b>2015</b> , 9, 983-93	5.3	41
136	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> , <b>2015</b> , 12, 18	8.4	61
135	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> , <b>2015</b> , 16, 034608	7.1	10
134	Investigating the role of shape on the biological impact of gold nanoparticles in vitro. <i>Nanomedicine</i> , <b>2015</b> , 10, 2643-57	5.6	24
133	Nanoparticle Polydispersity Can Strongly Affect In Vitro Dose. <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 321-333	3.1	24
132	Uptake and Intracellular Fate of Peptide Surface-Functionalized Silica Hybrid Magnetic Nanoparticles In Vitro. <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 188-196	3.1	2



131	Microfluidic platforms for advanced risk assessments of nanomaterials. <i>Nanotoxicology</i> , <b>2015</b> , 9, 381-95	5.3	38
130	In vitro-ex vivo model systems for nanosafety assessment. <i>European Journal of Nanomedicine</i> , <b>2015</b> , 7,		13
129	Ultrathin Ceramic Membranes as Scaffolds for Functional Cell Coculture Models on a Biomimetic Scale. <i>BioResearch Open Access</i> , <b>2015</b> , 4, 457-68	2.4	8
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> , <b>2015</b> , 12, 29	8.4	24
127	A Fast and Reliable Method for Screening of Exhaust Emission Toxicity in Lung Cells. <i>Chimia</i> , <b>2015</b> , 69, 68	1.3	
126	A biological perspective toward the interaction of theranostic nanoparticles with the bloodstream - what needs to be considered?. <i>Frontiers in Chemistry</i> , <b>2015</b> , 3, 7	5	7
125	Nanoparticle colloidal stability in cell culture media and impact on cellular interactions. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 6287-305	58.5	576
124	Avoiding drying-artifacts in transmission electron microscopy: Characterizing the size and colloidal state of nanoparticles. <i>Scientific Reports</i> , <b>2015</b> , 5, 9793	4.9	123
123	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> , <b>2015</b> , 11, 633-44	6	64
122	Catechol-derivatized poly(vinyl alcohol) as a coating molecule for magnetic nanoclusters. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 380, 157-162	2.8	9
121	Integrating silver compounds and nanoparticles into ceria nanocontainers for antimicrobial applications. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 1760-1768	7.3	22
120	Engineering an in vitro air-blood barrier by 3D bioprinting. <i>Scientific Reports</i> , <b>2015</b> , 5, 7974	4.9	207
119	A guide to investigating colloidal nanoparticles by cryogenic transmission electron microscopy: pitfalls and benefits. <i>AIMS Biophysics</i> , <b>2015</b> , 2, 245-258	0.8	6
118	Encoded Particles: Fluorescence-Encoded Gold Nanoparticles: Library Design and Modulation of Cellular Uptake into Dendritic Cells (Small 7/2014). <i>Small</i> , <b>2014</b> , 10, 1440-1440	11	1
117	In vitro dosimetry of agglomerates. <i>Nanoscale</i> , <b>2014</b> , 6, 7325-31	7.7	31
116	Magnetic microreactors for efficient and reliable magnetic nanoparticle surface functionalization. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2276-86	7.2	6
115	Thermally reversible self-assembly of nanoparticles via polymer crystallization. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 2012-7	4.8	2
114	Dynamic Depolarized Light Scattering of Small Round Plasmonic Nanoparticles: When Imperfection is Only Perfect. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 17968-17974	3.8	26

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