

Iseult Lynch

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253
papers

23,378
citations

62
h-index

151
g-index

290
ext. papers

26,397
ext. citations

8.4
avg, IF

7.14
L-index

#	Paper	IF	Citations
253	Understanding the nanoparticle-protein corona using methods to quantify exchange rates and affinities of proteins for nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2050-5	11.5	2316
252	Nanoparticle size and surface properties determine the protein corona with possible implications for biological impacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14265-70	11.5	2257
251	Protein-nanoparticle interactions. <i>Nano Today</i> , 2008 , 3, 40-47	17.9	1411
250	Physical-chemical aspects of protein corona: relevance to in vitro and in vivo biological impacts of nanoparticles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2525-34	16.4	1369
249	Protein-nanoparticle interactions: opportunities and challenges. <i>Chemical Reviews</i> , 2011 , 111, 5610-37	68.1	1075
248	What the cell "sees" in bionanoscience. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5761-8	16.4	956
247	Nucleation of protein fibrillation by nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 8691-6	11.5	722
246	Mechanisms of Silver Nanoparticle Release, Transformation and Toxicity: A Critical Review of Current Knowledge and Recommendations for Future Studies and Applications. <i>Materials</i> , 2013 , 6, 2295-2350	3.5	692
245	Detailed identification of plasma proteins adsorbed on copolymer nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5754-6	16.4	653
244	The evolution of the protein corona around nanoparticles: a test study. <i>ACS Nano</i> , 2011 , 5, 7503-9	16.7	612
243	The nanoparticle-protein complex as a biological entity; a complex fluids and surface science challenge for the 21st century. <i>Advances in Colloid and Interface Science</i> , 2007 , 134-135, 167-74	14.3	540
242	Inhibition of amyloid beta protein fibrillation by polymeric nanoparticles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15437-43	16.4	421
241	Systematic investigation of the thermodynamics of HSA adsorption to N-iso-propylacrylamide/N-tert-butylacrylamide copolymer nanoparticles. Effects of particle size and hydrophobicity. <i>Nano Letters</i> , 2007 , 7, 914-20	11.5	322
240	Designing the nanoparticle-biomolecule interface for "targeting and therapeutic delivery". <i>Journal of Controlled Release</i> , 2012 , 161, 164-74	11.7	306
239	Fate and effects of CeO ₂ nanoparticles in aquatic ecotoxicity tests. <i>Environmental Science & Technology</i> , 2009 , 43, 4537-46	10.3	303
238	Effects of transport inhibitors on the cellular uptake of carboxylated polystyrene nanoparticles in different cell lines. <i>PLoS ONE</i> , 2011 , 6, e24438	3.7	275
237	Serum heat inactivation affects protein corona composition and nanoparticle uptake. <i>Biomaterials</i> , 2010 , 31, 9511-8	15.6	235

236	Experimental and theoretical comparison of intracellular import of polymeric nanoparticles and small molecules: toward models of uptake kinetics. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 818-26	6	226
235	Complete high-density lipoproteins in nanoparticle corona. <i>FEBS Journal</i> , 2009 , 276, 3372-81	5.7	221
234	Dual effect of amino modified polystyrene nanoparticles on amyloid β protein fibrillation. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 279-87	5.7	219
233	Nanopesticides: guiding principles for regulatory evaluation of environmental risks. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 4227-40	5.7	210
232	Surface-induced changes in protein adsorption and implications for cellular phenotypic responses to surface interaction. <i>Biomaterials</i> , 2006 , 27, 3096-108	15.6	189
231	Quantitative assessment of the comparative nanoparticle-uptake efficiency of a range of cell lines. <i>Small</i> , 2011 , 7, 3341-9	11	186
230	Reproducible comet assay of amorphous silica nanoparticles detects no genotoxicity. <i>Nano Letters</i> , 2008 , 8, 3069-74	11.5	184
229	Time and space resolved uptake study of silica nanoparticles by human cells. <i>Molecular BioSystems</i> , 2011 , 7, 371-8		181
228	Therapeutic nanoparticles in clinics and under clinical evaluation. <i>Nanomedicine</i> , 2013 , 8, 449-67	5.6	180
227	Secreted protein eco-corona mediates uptake and impacts of polystyrene nanoparticles on <i>Daphnia magna</i> . <i>Journal of Proteomics</i> , 2016 , 137, 45-51	3.9	178
226	NANOSAFETY. How safe are nanomaterials?. <i>Science</i> , 2015 , 350, 388-9	33.3	148
225	Detecting cryptic epitopes created by nanoparticles. <i>Science Signaling</i> , 2006 , 2006, pe14	8.8	146
224	Advanced tools for the safety assessment of nanomaterials. <i>Nature Nanotechnology</i> , 2018 , 13, 537-543	28.7	145
223	Characterisation of nanoparticle size and state prior to nanotoxicological studies. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 47-53	2.3	145
222	A strategy for grouping of nanomaterials based on key physico-chemical descriptors as a basis for safer-by-design NMs. <i>Nano Today</i> , 2014 , 9, 266-270	17.9	143
221	Effect of natural organic matter on cerium dioxide nanoparticles settling in model fresh water. <i>Chemosphere</i> , 2010 , 81, 711-5	8.4	143
220	Abundance, Distribution, and Drivers of Microplastic Contamination in Urban River Environments. <i>Water (Switzerland)</i> , 2018 , 10, 1597	3	129
219	Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. <i>Nanotoxicology</i> , 2011 , 5, 1-11	5.3	126

218	Nanomaterial categorization for assessing risk potential to facilitate regulatory decision-making. <i>ACS Nano</i> , 2015 , 9, 3409-17	16.7	119
217	In vitro developmental toxicity test detects inhibition of stem cell differentiation by silica nanoparticles. <i>Toxicology and Applied Pharmacology</i> , 2009 , 240, 108-16	4.6	118
216	Protein fibrillation and nanoparticle interactions: opportunities and challenges. <i>Nanoscale</i> , 2013 , 5, 2570-88	7.8	116
215	Influence of the physicochemical properties of superparamagnetic iron oxide nanoparticles on amyloid protein fibrillation in solution. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 475-85	5.7	113
214	Inhibition of IAPP and IAPP(20-29) fibrillation by polymeric nanoparticles. <i>Langmuir</i> , 2010 , 26, 3453-61	4	112
213	Cationic nanoparticles induce caspase 3-, 7- and 9-mediated cytotoxicity in a human astrocytoma cell line. <i>Nanotoxicology</i> , 2011 , 5, 557-67	5.3	106
212	Formation and characterization of the nanoparticle-protein corona. <i>Methods in Molecular Biology</i> , 2013 , 1025, 137-55	1.4	93
211	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019 , 14, 629-635	28.7	92
210	Toxicity of copper oxide nanoparticles in the blue mussel, <i>Mytilus edulis</i> : a redox proteomic investigation. <i>Chemosphere</i> , 2014 , 108, 289-99	8.4	90
209	Nanoscale reference materials for environmental, health and safety measurements: needs, gaps and opportunities. <i>Nanotoxicology</i> , 2013 , 7, 1325-37	5.3	87
208	Modeling nanomaterial fate and uptake in the environment: current knowledge and future trends. <i>Environmental Science: Nano</i> , 2016 , 3, 323-345	7.1	86
207	Particle toxicology and health - where are we?. <i>Particle and Fibre Toxicology</i> , 2019 , 16, 19	8.4	83
206	Protein corona affects the relaxivity and MRI contrast efficiency of magnetic nanoparticles. <i>Nanoscale</i> , 2013 , 5, 8656-65	7.7	82
205	Internal benchmarking of a human blood-brain barrier cell model for screening of nanoparticle uptake and transcytosis. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 360-7	5.7	77
204	Long-term exposure of A549 cells to titanium dioxide nanoparticles induces DNA damage and sensitizes cells towards genotoxic agents. <i>Nanotoxicology</i> , 2016 , 10, 913-23	5.3	76
203	Interlaboratory comparison of size and surface charge measurements on nanoparticles prior to biological impact assessment. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2675-2687	2.3	74
202	Impact of storage conditions and storage time on silver nanoparticles' physicochemical properties and implications for their biological effects. <i>RSC Advances</i> , 2015 , 5, 84172-84185	3.7	73
201	Elution of labile fluorescent dye from nanoparticles during biological use. <i>PLoS ONE</i> , 2011 , 6, e25556	3.7	72

200	Brushlike interactions between thermoresponsive microgel particles. <i>Physical Review Letters</i> , 2010 , 104, 128304	7.4	71
199	Intracellular localisation, geno- and cytotoxic response of polyN-isopropylacrylamide (PNIPAM) nanoparticles to human keratinocyte (HaCaT) and colon cells (SW 480). <i>Toxicology Letters</i> , 2010 , 198, 134-43	4.4	71
198	Temperature-sensitive poly(N-isopropyl-acrylamide) microgel particles: a light scattering study. <i>European Physical Journal E</i> , 2009 , 28, 165-71	1.5	67
197	Detailed Identification of Plasma Proteins Adsorbed on Copolymer Nanoparticles. <i>Angewandte Chemie</i> , 2007 , 119, 5856-5858	3.6	67
196	Genotoxicity evaluation of amorphous silica nanoparticles of different sizes using the micronucleus and the plasmid lacZ gene mutation assay. <i>Nanotoxicology</i> , 2011 , 5, 168-81	5.3	66
195	Emerging methods and tools for environmental risk assessment, decision-making, and policy for nanomaterials: summary of NATO Advanced Research Workshop. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 513-527	2.3	65
194	How should the completeness and quality of curated nanomaterial data be evaluated?. <i>Nanoscale</i> , 2016 , 8, 9919-43	7.7	65
193	Activation of stress-related signalling pathway in human cells upon SiO ₂ nanoparticles exposure as an early indicator of cytotoxicity. <i>Journal of Nanobiotechnology</i> , 2011 , 9, 29	9.4	60
192	Changing environments and biomolecule coronas: consequences and challenges for the design of environmentally acceptable engineered nanoparticles. <i>Green Chemistry</i> , 2018 , 20, 4133-4168	10	58
191	Is the toxic potential of nanosilver dependent on its size?. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 65	8.4	55
190	Simultaneous release of hydrophobic and cationic solutes from thin-film "plum-pudding" gels: a multifunctional platform for surface drug delivery?. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6257-61	3.4	55
189	Molecular basis of cell-biomaterial interaction: insights gained from transcriptomic and proteomic studies. <i>Biomaterials</i> , 2006 , 27, 5871-82	15.6	55
188	Ionic surfactants with polymeric counterions. <i>Advances in Colloid and Interface Science</i> , 2009 , 147-148, 228-36	14.3	52
187	Preparation, characterization of NIPAM and NIPAM/BAM copolymer nanoparticles and their acute toxicity testing using an aquatic test battery. <i>Aquatic Toxicology</i> , 2009 , 92, 146-54	5.1	50
186	Corona of Thorns: The Surface Chemistry-Mediated Protein Corona Perturbs the Recognition and Immune Response of Macrophages. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1997-2008	9.5	50
185	Are there generic mechanisms governing interactions between nanoparticles and cells? Epitope mapping the outer layer of the protein/material interface. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 373, 511-520	3.3	47
184	Release of Model Compounds from Plum-Pudding-Type Gels Composed of Microgel Particles Randomly Dispersed in a Gel Matrix. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 10893-10898	3.4	46
183	The protein corona mediates the impact of nanomaterials and slows amyloid beta fibrillation. <i>ChemBioChem</i> , 2013 , 14, 568-72	3.8	44

182	Nanomaterials in the Environment Acquire an "Eco-Corona" Impacting their Toxicity to Daphnia Magna-a Call for Updating Toxicity Testing Policies. <i>Proteomics</i> , 2020 , 20, e1800412	4.8	44
181	A TEM protocol for quality assurance of in vitro cellular barrier models and its application to the assessment of nanoparticle transport mechanisms across barriers. <i>Analyst, The</i> , 2015 , 140, 83-97	5	42
180	Characterization of Nanoparticle Batch-To-Batch Variability. <i>Nanomaterials</i> , 2018 , 8,	5.4	42
179	NanoSolveIT Project: Driving nanoinformatics research to develop innovative and integrated tools for nanosafety assessment. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 583-602	6.8	41
178	Inter-laboratory comparison of nanoparticle size measurements using dynamic light scattering and differential centrifugal sedimentation. <i>NanoImpact</i> , 2018 , 10, 97-107	5.6	41
177	Phase behavior of aqueous polyion-surfactant ion complex salts: effects of polyion charge density. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8402-10	3.4	41
176	Correlation of the Adhesive Properties of Cells to N-Isopropylacrylamide/N-tert-Butylacrylamide Copolymer Surfaces with Changes in Surface Structure Using Contact Angle Measurements, Molecular Simulations, and Raman Spectroscopy. <i>Chemistry of Materials</i> , 2005 , 17, 3889-3898	9.6	40
175	Environmental dimensions of the protein corona. <i>Nature Nanotechnology</i> , 2021 , 16, 617-629	28.7	40
174	Long-term monitoring for nanomedicine implants and drugs. <i>Nature Nanotechnology</i> , 2016 , 11, 206-10	28.7	38
173	Best practice in reporting corona studies: Minimum information about Nanomaterial Biocorona Experiments (MINBE). <i>Nano Today</i> , 2019 , 28,	17.9	38
172	Gelled polymerizable microemulsions. 1. Phase behavior. <i>Langmuir</i> , 2007 , 23, 7730-7	4	38
171	Reswelling of polyelectrolyte hydrogels by oppositely charged surfactants. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4258-62	3.4	38
170	Synthesis and Characterization of an Extremely Versatile Structural Motif Called the Blum-Pudding Gel. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9629-9637	3.4	38
169	Nanomaterial Transformation in the Soil-Plant System: Implications for Food Safety and Application in Agriculture. <i>Small</i> , 2020 , 16, e2000705	11	37
168	Key principles and operational practices for improved nanotechnology environmental exposure assessment. <i>Nature Nanotechnology</i> , 2020 , 15, 731-742	28.7	34
167	Gelled polymerizable microemulsions. 2. Microstructure. <i>Langmuir</i> , 2008 , 24, 8473-82	4	33
166	Plant species-dependent transformation and translocation of ceria nanoparticles. <i>Environmental Science: Nano</i> , 2019 , 6, 60-67	7.1	32
165	Paracrine signalling of inflammatory cytokines from an in vitro blood brain barrier model upon exposure to polymeric nanoparticles. <i>Analyst, The</i> , 2014 , 139, 923-30	5	32

164	Macromolecular Coronas and Their Importance in Nanotoxicology and Nanoecotoxicology. <i>Frontiers of Nanoscience</i> , 2014 , 7, 127-156	0.7	32
163	Microscopy-based high-throughput assays enable multi-parametric analysis to assess adverse effects of nanomaterials in various cell lines. <i>Archives of Toxicology</i> , 2018 , 92, 633-649	5.8	31
162	Uptake and impacts of polyvinylpyrrolidone (PVP) capped metal oxide nanoparticles on <i>Daphnia magna</i> : role of core composition and acquired corona. <i>Environmental Science: Nano</i> , 2018 , 5, 1745-1756	7.1	29
161	Quantification of nanoparticle uptake by cells using an unbiased sampling method and electron microscopy. <i>Nanomedicine</i> , 2011 , 6, 1189-98	5.6	29
160	Plum-pudding gels as a platform for drug delivery: understanding the effects of the different components on the diffusion behavior of solutes. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 7367-76	3.4	29
159	A nanoinformatics decision support tool for the virtual screening of gold nanoparticle cellular association using protein corona fingerprints. <i>Nanotoxicology</i> , 2018 , 12, 1148-1165	5.3	29
158	Novel "plum pudding" gels as potential drug-eluting stent coatings: controlled release of fluvastatin. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 923-33	5.4	28
157	The Crucial Role of Environmental Coronas in Determining the Biological Effects of Engineered Nanomaterials. <i>Small</i> , 2020 , 16, e2003691	11	28
156	Advances in de Novo Drug Design: From Conventional to Machine Learning Methods. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	28
155	Hydrophobicity and counterion effects on the binding of ionic surfactants to uncharged polymeric hydrogels. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4252-7	3.4	26
154	Nano and microplastic interactions with freshwater biota - Current knowledge, challenges and future solutions. <i>Environment International</i> , 2021 , 152, 106504	12.9	26
153	Shape and Charge of Gold Nanomaterials Influence Survivorship, Oxidative Stress and Moulting of <i>Daphnia magna</i> . <i>Nanomaterials</i> , 2016 , 6,	5.4	26
152	Towards a holistic environmental impact assessment of carbon nanotube growth through chemical vapour deposition. <i>Journal of Cleaner Production</i> , 2016 , 129, 384-394	10.3	26
151	Towards a Consensus View on Understanding Nanomaterials Hazards and Managing Exposure: Knowledge Gaps and Recommendations. <i>Materials</i> , 2013 , 6, 1090-1117	3.5	25
150	A safe-by-design tool for functionalised nanomaterials through the Enalos Nanoinformatics Cloud platform. <i>Nanoscale Advances</i> , 2019 , 1, 706-718	5.1	24
149	The rise of the nanomaterial metabolite corona, and emergence of the complete corona. <i>Environmental Science: Nano</i> , 2020 , 7, 1041-1060	7.1	24
148	Current Application of Capillary Electrophoresis in Nanomaterial Characterisation and Its Potential to Characterise the Protein and Small Molecule Corona. <i>Nanomaterials</i> , 2018 , 8,	5.4	24
147	Comparison of Confocal and Super-Resolution Reflectance Imaging of Metal Oxide Nanoparticles. <i>PLoS ONE</i> , 2016 , 11, e0159980	3.7	24

146	Nanotechnology and artificial intelligence to enable sustainable and precision agriculture. <i>Nature Plants</i> , 2021 , 7, 864-876	11.5	24
145	Detection limits are central to improve reporting standards when using Nile red for microplastic quantification. <i>Chemosphere</i> , 2021 , 263, 127953	8.4	24
144	'Bio-nano interactions: new tools, insights and impacts': summary of the Royal Society discussion meeting. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370, 20140162	5.8	23
143	Cytotoxic effects in 3T3-L1 mouse and WI-38 human fibroblasts following 72 hour and 7 day exposures to commercial silica nanoparticles. <i>Toxicology and Applied Pharmacology</i> , 2012 , 263, 89-101	4.6	23
142	The bio-nano-interface in predicting nanoparticle fate and behaviour in living organisms: towards grouping and categorising nanomaterials and ensuring nanosafety by design. <i>BioNanoMaterials</i> , 2013 , 14,		23
141	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , 2020 , 7, 13-36	7.1	23
140	Corona Isolation Method Matters: Capillary Electrophoresis Mass Spectrometry Based Comparison of Protein Corona Compositions Following On-Particle versus In-Solution or In-Gel Digestion. <i>Nanomaterials</i> , 2019 , 9,	5.4	22
139	Novel method to prepare morphologically rich polymeric surfaces for biomedical applications via phase separation and arrest of microgel particles. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14581-9	3.4	22
138	Investigation of the Segregative Phase Separation Induced by Addition of Polystyrene to AOT Oil-Continuous Microemulsions. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5443-5452	3.4	22
137	Metadata Stewardship in Nanosafety Research: Community-Driven Organisation of Metadata Schemas to Support FAIR Nanoscience Data. <i>Nanomaterials</i> , 2020 , 10,	5.4	22
136	Gathering at the top? Environmental controls of microplastic uptake and biomagnification in freshwater food webs. <i>Environmental Pollution</i> , 2021 , 268, 115750	9.3	22
135	Zeta-Potential Read-Across Model Utilizing Nanodescriptors Extracted via the NanoXtract Image Analysis Tool Available on the Enalos Nanoinformatics Cloud Platform. <i>Small</i> , 2020 , 16, e1906588	11	21
134	Sensory systems and ionocytes are targets for silver nanoparticle effects in fish. <i>Nanotoxicology</i> , 2016 , 10, 1276-86	5.3	21
133	Graphene Oxide-Induced pH Alteration, Iron Overload, and Subsequent Oxidative Damage in Rice (L.): A New Mechanism of Nanomaterial Phytotoxicity. <i>Environmental Science & Technology</i> , 2020 , 54, 3181-3190	10.3	20
132	Expert perspectives on potential environmental risks from nanomedicines and adequacy of the current guideline on environmental risk assessment. <i>Environmental Science: Nano</i> , 2018 , 5, 1873-1889	7.1	20
131	Predicting Cytotoxicity of Metal Oxide Nanoparticles using Isalos Analytics Platform. <i>Nanomaterials</i> , 2020 , 10,	5.4	20
130	Refining in vitro models for nanomaterial exposure to cells and tissues. <i>NanoImpact</i> , 2018 , 10, 121-142	5.6	19
129	Updating traditional regulatory tests for use with novel materials: Nanomaterial toxicity testing with <i>Daphnia magna</i> . <i>Safety Science</i> , 2019 , 118, 497-504	5.8	19

128	Alleviation of nitrogen stress in rice (<i>Oryza sativa</i>) by ceria nanoparticles. <i>Environmental Science: Nano</i> , 2020 , 7, 2930-2940	7.1	19
127	Translating Scientific Advances in the AOP Framework to Decision Making for Nanomaterials. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
126	Capillary Electrophoresis-Mass Spectrometry at Trial by Metabo-Ring: Effective Electrophoretic Mobility for Reproducible and Robust Compound Annotation. <i>Analytical Chemistry</i> , 2020 , 92, 14103-14112	7.8	18
125	Multi-omics approaches confirm metal ions mediate the main toxicological pathways of metal-bearing nanoparticles in lung epithelial A549 cells. <i>Environmental Science: Nano</i> , 2018 , 5, 1506-1517	7.1	18
124	Sea-water desalination using a desalting unit integrated with a parabolic trough collector and activated carbon pellets as energy storage medium. <i>Desalination</i> , 2021 , 516, 115217	10.3	18
123	Development of scalable and versatile nanomaterial libraries for nanosafety studies: polyvinylpyrrolidone (PVP) capped metal oxide nanoparticles. <i>RSC Advances</i> , 2017 , 7, 3894-3906	3.7	17
122	Bioaccumulation and toxic effects of nanoparticulate and ionic silver in <i>Saccostrea glomerata</i> (rock oyster). <i>Ecotoxicology and Environmental Safety</i> , 2019 , 179, 127-134	7	17
121	The need for in situ characterisation in nanosafety assessment: funded transnational access via the QNano research infrastructure. <i>Nanotoxicology</i> , 2013 , 7, 346-9	5.3	17
120	Effect of a Polymeric Additive on the Pore-Size Distribution and Shrinking Process of a Hydrogel Network. <i>Macromolecular Chemistry and Physics</i> , 2003 , 204, 443-450	2.6	17
119	Air-Liquid Interface Exposure of Lung Epithelial Cells to Low Doses of Nanoparticles to Assess Pulmonary Adverse Effects. <i>Nanomaterials</i> , 2020 , 11,	5.4	17
118	Elucidating the origin of the surface functionalization - dependent bacterial toxicity of graphene nanomaterials: Oxidative damage, physical disruption, and cell autolysis. <i>Science of the Total Environment</i> , 2020 , 747, 141546	10.2	17
117	Differences in the toxicity of cerium dioxide nanomaterials after inhalation can be explained by lung deposition, animal species and nanoforms. <i>Inhalation Toxicology</i> , 2018 , 30, 273-286	2.7	17
116	Metabolomic method to detect a metabolite corona on amino-functionalized polystyrene nanoparticles. <i>Nanotoxicology</i> , 2019 , 13, 783-794	5.3	16
115	Secondary transmission of SARS-CoV-2 through wastewater: Concerns and tactics for treatment to effectively control the pandemic. <i>Journal of Environmental Management</i> , 2021 , 290, 112668	7.9	16
114	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. <i>Nano Today</i> , 2021 , 39, 101184	17.9	16
113	Neutral red retention time assay in determination of toxicity of nanoparticles. <i>Marine Environmental Research</i> , 2015 , 111, 158-61	3.3	15
112	Exposure medium and particle ageing moderate the toxicological effects of nanomaterials to <i>Daphnia magna</i> over multiple generations: a case for standard test review?. <i>Environmental Science: Nano</i> , 2020 , 7, 1136-1149	7.1	15
111	Exposure Assessment: Recommendations for Nanotechnology-Based Pesticides. <i>International Journal of Occupational and Environmental Health</i> , 2010 , 16, 467-474		15

110	Development of Deep Learning Models for Predicting the Effects of Exposure to Engineered Nanomaterials on <i>Daphnia magna</i> . <i>Small</i> , 2020 , 16, e2001080	11	14
109	The Nanomaterial Metabolite Corona Determined Using a Quantitative Metabolomics Approach: A Pilot Study. <i>Small</i> , 2020 , 16, e2000295	11	14
108	In vitro evaluation of cytotoxic and inflammatory properties of silica nanoparticles of different sizes in murine RAW 264.7 macrophages. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 6775-6787	2.3	14
107	Size, Concentration, and Solvency Effects on the Viscosifying Behavior of PEOBSEEO Triblock Copolymers in AOT Oil-Continuous Microemulsions. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7515-7522	2.4	14
106	Deciphering the particle specific effects on metabolism in rat liver and plasma from ZnO nanoparticles versus ionic Zn exposure. <i>Environment International</i> , 2020 , 136, 105437	12.9	14
105	Risk Governance of Emerging Technologies Demonstrated in Terms of its Applicability to Nanomaterials. <i>Small</i> , 2020 , 16, e2003303	11	14
104	A methodology for developing key events to advance nanomaterial-relevant adverse outcome pathways to inform risk assessment. <i>Nanotoxicology</i> , 2021 , 15, 289-310	5.3	14
103	Multigenerational Exposures of <i>Daphnia Magna</i> to Pristine and Aged Silver Nanoparticles: Epigenetic Changes and Phenotypical Ageing Related Effects. <i>Small</i> , 2020 , 16, e2000301	11	13
102	Chemical shift imaging of molecular transport in colloidal systems: visualization and quantification of diffusion processes. <i>Journal of Colloid and Interface Science</i> , 2007 , 308, 542-50	9.3	13
101	Imaging In focus: Reflected light imaging: Techniques and applications. <i>International Journal of Biochemistry and Cell Biology</i> , 2017 , 83, 65-70	5.6	12
100	Surface-induced cell signaling events control actin rearrangements and motility. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 93, 493-504	5.4	12
99	Mechanisms for cellular uptake of nanosized clinical MRI contrast agents. <i>Nanotoxicology</i> , 2020 , 14, 504-532	5.3	11
98	The effect of zirconium doping of cerium dioxide nanoparticles on pulmonary and cardiovascular toxicity and biodistribution in mice after inhalation. <i>Nanotoxicology</i> , 2017 , 11, 794-808	5.3	11
97	Intranasal exposure to ZnO nanoparticles induces alterations in cholinergic neurotransmission in rat brain. <i>Nano Today</i> , 2020 , 35, 100977	17.9	11
96	Elucidating the mechanism of the surface functionalization dependent neurotoxicity of graphene family nanomaterials. <i>Nanoscale</i> , 2020 , 12, 18600-18605	7.7	11
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