

Kenneth A A Dawson

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ext. papers

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ext. citations

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7.32
L-index

#	Paper	IF	Citations
3 ¹⁷	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
3 ¹⁶	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
3 ¹⁵	Biomolecular coronas provide the biological identity of nanosized materials. <i>Nature Nanotechnology</i> , 2012 , 7, 779-86	28.7	1877
3 ¹⁴	Protein-nanoparticle interactions. <i>Nano Today</i> , 2008 , 3, 40-47	17.9	1411
3 ¹³	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
3 ¹²	Transferrin-functionalized nanoparticles lose their targeting capabilities when a biomolecule corona adsorbs on the surface. <i>Nature Nanotechnology</i> , 2013 , 8, 137-43	28.7	1256
3 ¹¹	What the cell "sees" in bionanoscience. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5761-8	16.4	956
3 ¹⁰	Effects of the presence or absence of a protein corona on silica nanoparticle uptake and impact on cells. <i>ACS Nano</i> , 2012 , 6, 5845-57	16.7	809
3 ⁰⁹	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
3 ⁰⁸	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
3 ⁰⁷	Detailed identification of plasma proteins adsorbed on copolymer nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5754-6	16.4	653
3 ⁰⁶	The evolution of the protein corona around nanoparticles: a test study. <i>ACS Nano</i> , 2011 , 5, 7503-9	16.7	612
3 ⁰⁵	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
3 ⁰⁴	Nanoparticle adhesion to the cell membrane and its effect on nanoparticle uptake efficiency. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1438-44	16.4	532
3 ⁰³	Role of cell cycle on the cellular uptake and dilution of nanoparticles in a cell population. <i>Nature Nanotechnology</i> , 2011 , 7, 62-8	28.7	454
3 ⁰²	Inhibition of amyloid beta protein fibrillation by polymeric nanoparticles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15437-43	16.4	421
3 ⁰¹	Accumulation and embryotoxicity of polystyrene nanoparticles at early stage of development of sea urchin embryos <i>Paracentrotus lividus</i> . <i>Environmental Science & Technology</i> , 2014 , 48, 12302-11	10.3	367

300	Reversible versus irreversible binding of transferrin to polystyrene nanoparticles: soft and hard corona. <i>ACS Nano</i> , 2012 , 6, 2532-41	16.7	361
299	Higher-order glass-transition singularities in colloidal systems with attractive interactions. <i>Physical Review E</i> , 2001 , 63, 011401	2.4	343
298	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
297	Designing the nanoparticle-biomolecule interface for "targeting and therapeutic delivery". <i>Journal of Controlled Release</i> , 2012 , 161, 164-74	11.7	306
296	Fate and effects of CeO ₂ nanoparticles in aquatic ecotoxicity tests. <i>Environmental Science & Technology</i> , 2009 , 43, 4537-46	10.3	303
295	The biomolecular corona is retained during nanoparticle uptake and protects the cells from the damage induced by cationic nanoparticles until degraded in the lysosomes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 1159-68	6	302
294	Classification framework for graphene-based materials. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7714-8	16.4	287
293	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
292	Mapping protein binding sites on the biomolecular corona of nanoparticles. <i>Nature Nanotechnology</i> , 2015 , 10, 472-9	28.7	268
291	Serum heat inactivation affects protein corona composition and nanoparticle uptake. <i>Biomaterials</i> , 2010 , 31, 9511-8	15.6	235
290	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
289	Complete high-density lipoproteins in nanoparticle corona. <i>FEBS Journal</i> , 2009 , 276, 3372-81	5.7	221
288	Dual effect of amino modified polystyrene nanoparticles on amyloid β protein fibrillation. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 279-87	5.7	219
287	In Vivo Biomolecule Corona around Blood-Circulating, Clinically Used and Antibody-Targeted Lipid Bilayer Nanoscale Vesicles. <i>ACS Nano</i> , 2015 , 9, 8142-56	16.7	218
286	Evidence for immunomodulation and apoptotic processes induced by cationic polystyrene nanoparticles in the hemocytes of the marine bivalve <i>Mytilus</i> . <i>Marine Environmental Research</i> , 2015 , 111, 34-40	3.3	200
285	The glass paradigm for colloidal glasses, gels, and other arrested states driven by attractive interactions. <i>Current Opinion in Colloid and Interface Science</i> , 2002 , 7, 218-227	7.6	200
284	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
283	Long-term toxicity of surface-charged polystyrene nanoplastics to marine planktonic species <i>Dunaliella tertiolecta</i> and <i>Artemia franciscana</i> . <i>Aquatic Toxicology</i> , 2017 , 189, 159-169	5.1	188

282	Quantitative assessment of the comparative nanoparticle-uptake efficiency of a range of cell lines. <i>Small</i> , 2011 , 7, 3341-9	11	186
281	Reproducible comet assay of amorphous silica nanoparticles detects no genotoxicity. <i>Nano Letters</i> , 2008 , 8, 3069-74	11.5	184
280	Nano-sized polystyrene affects feeding, behavior and physiology of brine shrimp <i>Artemia franciscana</i> larvae. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 123, 18-25	7	183
279	Time and space resolved uptake study of silica nanoparticles by human cells. <i>Molecular BioSystems</i> , 2011 , 7, 371-8		181
278	Ultrasmall inorganic nanoparticles: State-of-the-art and perspectives for biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1663-701	6	178
277	Understanding the Kinetics of Protein-Nanoparticle Corona Formation. <i>ACS Nano</i> , 2016 , 10, 10842-10850	6.7	165
276	The "sweet" side of the protein corona: effects of glycosylation on nanoparticle-cell interactions. <i>ACS Nano</i> , 2015 , 9, 2157-66	16.7	157
275	Phase equilibria and glass transition in colloidal systems with short-ranged attractive interactions: application to protein crystallization. <i>Physical Review E</i> , 2002 , 65, 031407	2.4	154
274	Detecting cryptic epitopes created by nanoparticles. <i>Science Signaling</i> , 2006 , 2006, pe14	8.8	146
273	Characterisation of nanoparticle size and state prior to nanotoxicological studies. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 47-53	2.3	145
272	Identification of Receptor Binding to the Biomolecular Corona of Nanoparticles. <i>ACS Nano</i> , 2017 , 11, 1884-1893	16.7	144
271	Effect of natural organic matter on cerium dioxide nanoparticles settling in model fresh water. <i>Chemosphere</i> , 2010 , 81, 711-5	8.4	143
270	Confirmation of anomalous dynamical arrest in attractive colloids: a molecular dynamics study. <i>Physical Review E</i> , 2002 , 66, 041402	2.4	132
269	Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. <i>Nanotoxicology</i> , 2011 , 5, 1-11	5.3	126
268	The Intracellular Destiny of the Protein Corona: A Study on its Cellular Internalization and Evolution. <i>ACS Nano</i> , 2016 , 10, 10471-10479	16.7	125
267	Time resolved study of cell death mechanisms induced by amine-modified polystyrene nanoparticles. <i>Nanoscale</i> , 2013 , 5, 10868-76	7.7	119
266	Surface coatings shape the protein corona of SPIONs with relevance to their application in vivo. <i>Langmuir</i> , 2012 , 28, 14983-91	4	119
265	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

264	Influence of the physiochemical properties of superparamagnetic iron oxide nanoparticles on amyloid β protein fibrillation in solution. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 475-85	5.7	113
263	Inhibition of IAPP and IAPP(20-29) fibrillation by polymeric nanoparticles. <i>Langmuir</i> , 2010 , 26, 3453-61	4	112
262	The case for strategic international alliances to harness nutritional genomics for public and personal health. <i>British Journal of Nutrition</i> , 2005 , 94, 623-32	3.6	112
261	Kinetics at the collapse transition of homopolymers and random copolymers. <i>Journal of Chemical Physics</i> , 1995 , 103, 4807-4818	3.9	112
260	High-speed imaging of Rab family small GTPases reveals rare events in nanoparticle trafficking in living cells. <i>ACS Nano</i> , 2012 , 6, 1513-21	16.7	108
259	In situ characterization of nanoparticle biomolecular interactions in complex biological media by flow cytometry. <i>Nature Communications</i> , 2016 , 7, 13475	17.4	107
258	Does Calcium Turn a Zwitterionic Lipid Cationic?. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9869-9875	3.4	107
257	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
256	Structural arrest in dense star-polymer solutions. <i>Physical Review Letters</i> , 2003 , 90, 238301	7.4	102
255	Mechanical properties of a model of attractive colloidal solutions. <i>Physical Review E</i> , 2001 , 63, 031501	2.4	100
254	Influence of Size and Shape on the Anatomical Distribution of Endotoxin-Free Gold Nanoparticles. <i>ACS Nano</i> , 2017 , 11, 5519-5529	16.7	99
253	Imaging approach to mechanistic study of nanoparticle interactions with the blood-brain barrier. <i>ACS Nano</i> , 2014 , 8, 4304-12	16.7	97
252	Evidence for an unusual dynamical-arrest scenario in short-ranged colloidal systems. <i>Physical Review E</i> , 2002 , 65, 050802	2.4	94
251	Formation and characterization of the nanoparticle-protein corona. <i>Methods in Molecular Biology</i> , 2013 , 1025, 137-55	1.4	93
250	The density matrix, density, and Fermi hole in Hartree-Fock theory. <i>Journal of Chemical Physics</i> , 1984 , 81, 5850-5854	3.9	91
249	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
248	Nanoparticle accumulation and transcytosis in brain endothelial cell layers. <i>Nanoscale</i> , 2013 , 5, 11153-65	7.7	90
247	Quantifying size-dependent interactions between fluorescently labeled polystyrene nanoparticles and mammalian cells. <i>Journal of Nanobiotechnology</i> , 2012 , 10, 39	9.4	88

246	Local drug delivery in restenosis injury: thermoresponsive co-polymers as potential drug delivery systems 2004 , 102, 1-15		82
245	Stabilising fluorescent silica nanoparticles against dissolution effects for biological studies. <i>Chemical Communications</i> , 2012 , 48, 7970-2	5.8	81
244	Kinetic laws at the collapse transition of a homopolymer. <i>Journal of Chemical Physics</i> , 1996 , 104, 3338-3347	3.7	81
243	Physical characteristics of calcium induced κ -carrageenan networks. <i>Carbohydrate Polymers</i> , 2003 , 53, 395-400	10.3	79
242	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
241	Phase separation in dilute solutions of poly (N-isopropylacrylamide). <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 240, 443-452	3.3	76
240	Phase diagram of a lattice microemulsion model. <i>Journal of Chemical Physics</i> , 1988 , 88, 5149-5156	3.9	76
239	Transferrin coated nanoparticles: study of the bionano interface in human plasma. <i>PLoS ONE</i> , 2012 , 7, e40685	3.7	74
238	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
237	Thermoresponsive poly(N-isopropylacrylamide) copolymers: contact angles and surface energies of polymer films. <i>Langmuir</i> , 2004 , 20, 10138-45	4	74
236	High content analysis provides mechanistic insights on the pathways of toxicity induced by amine-modified polystyrene nanoparticles. <i>PLoS ONE</i> , 2014 , 9, e108025	3.7	74
235	Mapping of Molecular Structure of the Nanoscale Surface in Bionanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 111-114	16.4	73
234	Suppression of nanoparticle cytotoxicity approaching in vivo serum concentrations: limitations of in vitro testing for nanosafety. <i>Nanoscale</i> , 2014 , 6, 14180-4	7.7	73
233	Observation of a rectangular columnar phase in a DNA-calcium-zwitterionic lipid complex. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15966-7	16.4	73
232	Phase Behavior of DPPC in a DNA-Calcium-Zwitterionic Lipid Complex Studied by Small-Angle X-ray Scattering. <i>Langmuir</i> , 2003 , 19, 9630-9637	4	73
231	Kinetics of homopolymer collapse. <i>Journal of Chemical Physics</i> , 1995 , 102, 573-577	3.9	73
230	Elution of labile fluorescent dye from nanoparticles during biological use. <i>PLoS ONE</i> , 2011 , 6, e25556	3.7	72
229	Interaction of soft condensed materials with living cells: phenotype/transcriptome correlations for the hydrophobic effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6331-6	11.5	72

228	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
227	The Compressibility of Alkyltrimethylammonium Bromide Micelles. <i>Journal of Colloid and Interface Science</i> , 1998 , 203, 59-68	9.3	69
226	Low dose of amino-modified nanoparticles induces cell cycle arrest. <i>ACS Nano</i> , 2013 , 7, 7483-94	16.7	68
225	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
224	Understanding and modulating the competitive surface-adsorption of proteins through coarse-grained molecular dynamics simulations. <i>Soft Matter</i> , 2013 , 9, 6978	3.6	64
223	Regimes of Biomolecular Ultrasmall Nanoparticle Interactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4215-4218	16.4	62
222	Poly(N-isopropylacrylamide) co-polymer films as potential vehicles for delivery of an antimitotic agent to vascular smooth muscle cells. <i>Cardiovascular Pathology</i> , 2003 , 12, 105-10	3.8	62
221	Amino-modified polystyrene nanoparticles affect signalling pathways of the sea urchin (<i>Paracentrotus lividus</i>) embryos. <i>Nanotoxicology</i> , 2017 , 11, 201-209	5.3	61
220	Diagnostic nanoparticle targeting of the EGF-receptor in complex biological conditions using single-domain antibodies. <i>Nanoscale</i> , 2014 , 6, 6046-56	7.7	60
219	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
218	Surface complexation of DNA with insoluble monolayers. Influence of divalent counterions. <i>Langmuir</i> , 2005 , 21, 1900-7	4	57
217	Interfaces between phases in a lattice model of microemulsions. <i>Physical Review A</i> , 1987 , 35, 1766-1773	2.6	57
216	Biological recognition of graphene nanoflakes. <i>Nature Communications</i> , 2018 , 9, 1577	17.4	55
215	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
214	Molecular basis of cell-biomaterial interaction: insights gained from transcriptomic and proteomic studies. <i>Biomaterials</i> , 2006 , 27, 5871-82	15.6	55
213	Magnetic nanoparticles to recover cellular organelles and study the time resolved nanoparticle-cell interactome throughout uptake. <i>Small</i> , 2014 , 10, 3307-15	11	53
212	Kinetics at the collapse transition Gaussian self-consistent approach. <i>Journal of Chemical Physics</i> , 1995 , 102, 1816-1823	3.9	53
211	Complex formation between DNA and cationic surfactant. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 249, 216-225	3.3	51

210	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
209	Universality in lattice models of dynamic arrest: introduction of an order parameter. <i>Physical Review Letters</i> , 2002 , 89, 245503	7.4	49
208	The protein corona of dendrimers: PAMAM binds and activates complement proteins in human plasma in a generation dependent manner. <i>RSC Advances</i> , 2012 , 2, 11245	3.7	48
207	Gaussian density fluctuations and mode coupling theory for supercooled liquids. <i>Europhysics Letters</i> , 2001 , 55, 157-163	1.6	48
206	Characterization of the bionano interface and mapping extrinsic interactions of the corona of nanomaterials. <i>Nanoscale</i> , 2015 , 7, 15268-76	7.7	47
205	Tuning of nanoparticle biological functionality through controlled surface chemistry and characterisation at the bioconjugated nanoparticle surface. <i>Scientific Reports</i> , 2015 , 5, 17040	4.9	46
204	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
203	Equilibrium and kinetic phenomena in a stiff homopolymer and possible applications to DNA. <i>Journal of Chemical Physics</i> , 1996 , 105, 7116-7134	3.9	46
202	Enrichment of immunoregulatory proteins in the biomolecular corona of nanoparticles within human respiratory tract lining fluid. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1033-1043 ⁴⁴	6	44
201	The protein corona mediates the impact of nanomaterials and slows amyloid beta fibrillation. <i>ChemBioChem</i> , 2013 , 14, 568-72	3.8	44
200	Tricritical point in heterogeneous k-core percolation. <i>Physical Review Letters</i> , 2011 , 107, 175703	7.4	44
199	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
198	Differential Recognition of Nanoparticle Protein Corona and Modified Low-Density Lipoprotein by Macrophage Receptor with Collagenous Structure. <i>ACS Nano</i> , 2018 , 12, 4930-4937	16.7	42
197	Accounting for fluctuations in a lattice model of microemulsions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990 , 165, 320-351	3.3	42
196	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
195	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
194	Surfactant titration of nanoparticle-protein corona. <i>Analytical Chemistry</i> , 2014 , 86, 12055-63	7.8	39
193	Gelled polymerizable microemulsions. 1. Phase behavior. <i>Langmuir</i> , 2007 , 23, 7730-7	4	38

192	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
191	Stoichiometry of dipalmitoylphosphatidylcholine-DNA interaction in the presence of Ca ²⁺ : a temperature-scanning ultrasonic study. <i>FEBS Letters</i> , 1999 , 446, 27-9	3.8	38
190	A mean field approach to the structure of polyelectrolytes. <i>Journal of Chemical Physics</i> , 1993 , 99, 5352-5361	3.6	38
189	Protein-Mediated Shape Control of Silver Nanoparticles. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1261-1265	6.3	36
188	Magnetic One-Step Purification of His-Tagged Protein by Bare Iron Oxide Nanoparticles. <i>ACS Omega</i> , 2019 , 4, 3790-3799	3.9	34
187	Correlation signature of the macroscopic states of the gene regulatory network in cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4079-84	11.5	34
186	Formation of mesoglobules from phase separation in dilute polymer solutions: a study in experiment, theory, and applications. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 244, 68-80	3.3	34
185	Numerical simulation of phase separation in the presence of surfactants and hydrodynamics. <i>Physical Review E</i> , 1995 , 52, 6908-6911	2.4	34
184	High-content analysis for drug delivery and nanoparticle applications. <i>Drug Discovery Today</i> , 2015 , 20, 942-57	8.8	32
183	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
182	Macromolecular Coronas and Their Importance in Nanotoxicology and Nanoecotoxicology. <i>Frontiers of Nanoscience</i> , 2014 , 7, 127-156	0.7	32
181	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
180	Microscopic model of amphiphilic assembly. <i>Journal of Chemical Physics</i> , 1989 , 91, 6393-6403	3.9	30
179	Quantitative measurement of nanoparticle uptake by flow cytometry illustrated by an interlaboratory comparison of the uptake of labelled polystyrene nanoparticles. <i>NanoImpact</i> , 2018 , 9, 42-50	5.6	29
178	Quantification of nanoparticle uptake by cells using an unbiased sampling method and electron microscopy. <i>Nanomedicine</i> , 2011 , 6, 1189-98	5.6	29
177	Kinetic Arrest Originating in Competition Between Attractive Interaction and Packing Force. <i>Journal of Statistical Physics</i> , 2000 , 100, 363-376	1.5	29
176	Kinetics of a Gaussian random copolymer as a prototype for protein folding. <i>Physical Review E</i> , 1996 , 54, 4071-4086	2.4	29
175	Nanomaterials: impact on cells and cell organelles. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 811, 135-56	3.6	28

174	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
173	Exact solution of a jamming transition: closed equations for a bootstrap percolation problem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5669-73	11.5	28
172	A lattice model description of amphiphilic mixtures. I. Equilibrium properties. <i>Journal of Chemical Physics</i> , 1992 , 96, 3152-3169	3.9	28
171	Renormalization of a Landau-Ginzburg-Wilson theory of microemulsion. <i>Physical Review A</i> , 1992 , 45, 7302-7319	2.3	28
170	Current understanding of biological identity at the nanoscale and future prospects. <i>Nature Nanotechnology</i> , 2021 , 16, 229-242	28.7	28
169	Connection of microstructure to rheology in a microemulsion model. <i>Physical Review E</i> , 1996 , 54, 1669-1682	6.2	27
168	TGF-beta1-induced thrombospondin-1 expression through the p38 MAPK pathway is abolished by fluvastatin in human coronary artery smooth muscle cells. <i>Vascular Pharmacology</i> , 2006 , 44, 469-75	5.9	26
167	Clarification of the bootstrap percolation paradox. <i>Physical Review Letters</i> , 2004 , 93, 025501	7.4	26
166	A simple and effective separation and purification procedure for DNA fragments using dodecyltrimethylammonium bromide. <i>Bioseparation</i> , 2000 , 9, 307-13		26
165	Spatially frustrated lattice models. <i>Physical Review A</i> , 1987 , 36, 3383-3391	2.6	26
164	Graphene Nanoflake Uptake Mediated by Scavenger Receptors. <i>Nano Letters</i> , 2019 , 19, 1260-1268	11.5	26
163	Bismuth-based nanoparticles as the environmentally friendly replacement for lead-based piezoelectrics. <i>RSC Advances</i> , 2015 , 5, 27295-27304	3.7	25
162	Towards reproducible measurement of nanoparticle size using dynamic light scattering: Important controls and considerations. <i>NanoImpact</i> , 2018 , 10, 161-167	5.6	24
161	Poly(N-isopropylacrylamide) copolymer films as vehicles for the sustained delivery of proteins to vascular endothelial cells. <i>Journal of Biomedical Materials Research Part B</i> , 2005 , 72, 25-35		24
160	Surface modification for controlled cell growth on copolymers of N-isopropylacrylamide 2001 , 153-156		24
159	Conformational transitions of heteropolymers in dilute solutions. <i>Physical Review E</i> , 1998 , 57, 6801-6814	4.4	24
158	Rheology of self-assembled fluids. <i>Journal of Chemical Physics</i> , 1996 , 104, 5932-5941	3.9	24
157	New orientationally ordered phases of a homopolymer. <i>Journal of Chemical Physics</i> , 1996 , 104, 336-341	3.9	24

156	Labeling the Structural Integrity of Nanoparticles for Advanced In Situ Tracking in Bionanotechnology. <i>ACS Nano</i> , 2016 , 10, 4660-71	16.7	23
155	Theoretical framework for nanoparticle uptake and accumulation kinetics in dividing cell populations. <i>Europhysics Letters</i> , 2013 , 101, 38007	1.6	23
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