

Kenneth A A Dawson

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.

317
papers

32,905
citations

78
h-index

178
g-index

335
ext. papers

35,986
ext. citations

7.1
avg, IF

7.32
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 317 | Designing Functional Bionanoconstructs for Effective Targeting.. <i>Bioconjugate Chemistry</i> , 2022 , | 6.3 | 2 |
| 316 | Spatiotemporal Tracing of the Cellular Internalization Process of Rod-Shaped Nanostructures.. <i>ACS Nano</i> , 2022 , | 16.7 | 2 |
| 315 | In depth characterisation of the biomolecular coronas of polymer coated inorganic nanoparticles with differential centrifugal sedimentation. <i>Scientific Reports</i> , 2021 , 11, 6443 | 4.9 | 5 |
| 314 | X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , 2021 , 15, 3754-3807 | 16.7 | 18 |
| 313 | Transportation of AIE-visualized nanoliposomes is dominated by the protein corona. <i>National Science Review</i> , 2021 , 8, nwab068 | 10.8 | 2 |
| 312 | Impact of dynamic sub-populations within grafted chains on the protein binding and colloidal stability of PEGylated nanoparticles. <i>Nanoscale</i> , 2021 , 13, 5344-5355 | 7.7 | 4 |
| 311 | Multifunctional superparamagnetic nanoparticles with a fluorescent silica shell for the study of bio-nano interactions at the subcellular scale. <i>Nanoscale</i> , 2021 , 13, 16324-16338 | 7.7 | 1 |
| 310 | Current understanding of biological identity at the nanoscale and future prospects. <i>Nature Nanotechnology</i> , 2021 , 16, 229-242 | 28.7 | 28 |
| 309 | Unusual zymogen activation patterns in the protein corona of Ca-zeolites. <i>Nature Catalysis</i> , 2021 , 4, 607-614 | 6.4 | 9 |
| 308 | Bootstrap Percolation 2021 , 149-173 | | |
| 307 | Understanding intracellular nanoparticle trafficking fates through spatiotemporally resolved magnetic nanoparticle recovery. <i>Nanoscale Advances</i> , 2021 , 3, 2397-2410 | 5.1 | 1 |
| 306 | A head-to-head Caco-2 assay comparison of the mechanisms of action of the intestinal permeation enhancers: SNAC and sodium caprate (C). <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 152, 95-107 | 5.7 | 22 |
| 305 | Ultrasmall Gold Nanoparticle Cellular Uptake: Influence of Transient Bionano Interactions.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 3800-3808 | 4.1 | 10 |
| 304 | Classification and biological identity of complex nano shapes. <i>Communications Materials</i> , 2020 , 1, | 6 | 15 |
| 303 | Protein-Nanoparticle Interactions 2020 , 231-250 | | 5 |
| 302 | Biomolecular Coronas Provide the Biological Identity of Nanosized Materials 2020 , 205-229 | | |
| 301 | Ultrathin Silicon Membranes for Optical Analysis of Nanoparticle Translocation across a Human Blood-Brain Barrier Model. <i>ACS Nano</i> , 2020 , 14, 1111-1122 | 16.7 | 16 |

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|-----|--|------|-----|
| 300 | Improving Quality in Nanoparticle-Induced Cytotoxicity Testing by a Tiered Inter-Laboratory Comparison Study. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 5 |
| 299 | A high-throughput microscopy method for single-cell analysis of event-time correlations in nanoparticle-induced cell death. <i>Communications Biology</i> , 2019 , 2, 35 | 6.7 | 8 |
| 298 | Magnetic One-Step Purification of His-Tagged Protein by Bare Iron Oxide Nanoparticles. <i>ACS Omega</i> , 2019 , 4, 3790-3799 | 3.9 | 34 |
| 297 | Characterisation and Categorisation Strategies for Anisotropic Gold Nanoparticles for Applications in Biology. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1818-1819 | 0.5 | |
| 296 | A Three-Dimensional Cell Culture Platform for Long Time-Scale Observations of Bio-Nano Interactions. <i>ACS Nano</i> , 2019 , 13, 13524-13536 | 16.7 | 5 |
| 295 | Graphene Nanoflake Uptake Mediated by Scavenger Receptors. <i>Nano Letters</i> , 2019 , 19, 1260-1268 | 11.5 | 26 |
| 294 | Protein-Mediated Shape Control of Silver Nanoparticles. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1261-1265 | 6.3 | 36 |
| 293 | Label-free in-flow detection of receptor recognition motifs on the biomolecular corona of nanoparticles. <i>Nanoscale</i> , 2018 , 10, 5474-5481 | 7.7 | 19 |
| 292 | Biological recognition of graphene nanoflakes. <i>Nature Communications</i> , 2018 , 9, 1577 | 17.4 | 55 |
| 291 | 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 |
| 290 | Towards reproducible measurement of nanoparticle size using dynamic light scattering: Important controls and considerations. <i>NanoImpact</i> , 2018 , 10, 161-167 | 5.6 | 24 |
| 289 | 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 |
| 288 | Ordered Surface Structuring of Spherical Colloids with Binary Nanoparticle Superlattices. <i>Nano Letters</i> , 2018 , 18, 2511-2518 | 11.5 | 8 |
| 287 | 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 |
| 286 | 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 |
| 285 | 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 |
| 284 | Identification of Receptor Binding to the Biomolecular Corona of Nanoparticles. <i>ACS Nano</i> , 2017 , 11, 1884-1893 | 16.7 | 144 |
| 283 | Detecting the shape of anisotropic gold nanoparticles in dispersion with single particle extinction and scattering. <i>Nanoscale</i> , 2017 , 9, 2778-2784 | 7.7 | 20 |

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|-----|---|------|-----|
| 282 | Locating Reactive Groups on Nanomaterials with Gold Nanoclusters: Toward a Surface Reactive Site Map. <i>Langmuir</i> , 2017 , 33, 5086-5097 | 4 | 1 |
| 281 | 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 |
| 280 | 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 |
| 279 | Using single nanoparticle tracking obtained by nanophotonic force microscopy to simultaneously characterize nanoparticle size distribution and nanoparticle-surface interactions. <i>Nanoscale</i> , 2017 , 9, 4524-4535 | 7.7 | 7 |
| 278 | Regimes of Biomolecular Ultrasmall Nanoparticle Interactions. <i>Angewandte Chemie</i> , 2017 , 129, 4279-4282 | 9.6 | 10 |
| 277 | Regimes of Biomolecular Ultrasmall Nanoparticle Interactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4215-4218 | 16.4 | 62 |
| 276 | 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 |
| 275 | Reciprocal upregulation of scavenger receptors complicates interpretation of nanoparticle uptake in non-phagocytic cells. <i>Nanoscale</i> , 2017 , 9, 11261-11268 | 7.7 | 6 |
| 274 | Differences in the coronal proteome acquired by particles depositing in the lungs of asthmatic versus healthy humans. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 2517-2521 | 6 | 9 |
| 273 | Reply to 'The interface of nanoparticles with proliferating mammalian cells'. <i>Nature Nanotechnology</i> , 2017 , 12, 600-603 | 28.7 | 7 |
| 272 | Human DMBT1-Derived Cell-Penetrating Peptides for Intracellular siRNA Delivery. <i>Molecular Therapy - Nucleic Acids</i> , 2017 , 8, 264-276 | 10.7 | 19 |
| 271 | Low uptake of silica nanoparticles in Caco-2 intestinal epithelial barriers. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1396-1406 | 3 | 14 |
| 270 | Constructing bifunctional nanoparticles for dual targeting: improved grafting and surface recognition assessment of multiple ligand nanoparticles. <i>Nanoscale</i> , 2016 , 8, 16969-16975 | 7.7 | 20 |
| 269 | Interaction of gold nanoparticles and nickel(II) sulfate affects dendritic cell maturation. <i>Nanotoxicology</i> , 2016 , 10, 1395-1403 | 5.3 | 14 |
| 268 | Drug delivery: Leukocyte-like carriers. <i>Nature Materials</i> , 2016 , 15, 935-6 | 27 | 8 |
| 267 | In situ characterization of nanoparticle biomolecular interactions in complex biological media by flow cytometry. <i>Nature Communications</i> , 2016 , 7, 13475 | 17.4 | 107 |
| 266 | Understanding the Kinetics of Protein-Nanoparticle Corona Formation. <i>ACS Nano</i> , 2016 , 10, 10842-10850 | 6.7 | 165 |
| 265 | Unravelling Malaria Antigen Binding to Antibody-Gold Nanoparticle Conjugates. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 906-915 | 3.1 | 9 |

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|-----|---|------|-----|
| 264 | Spatial and Structural Metrics for Living Cells Inspired by Statistical Mechanics. <i>Scientific Reports</i> , 2016 , 6, 34457 | 4.9 | 9 |
| 263 | 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 |
| 262 | A systematic High-Content Screening microscopy approach reveals key roles for Rab33b, OATL1 and Myo6 in nanoparticle trafficking in HeLa cells. <i>Scientific Reports</i> , 2016 , 6, 28865 | 4.9 | 16 |
| 261 | 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, 10333-10434 ⁴⁴ | 6 | 178 |
| 260 | 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 |
| 259 | Labeling the Structural Integrity of Nanoparticles for Advanced In Situ Tracking in Bionanotechnology. <i>ACS Nano</i> , 2016 , 10, 4660-71 | 16.7 | 23 |
| 258 | 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 |
| 257 | Time-Resolved Study of Nanoparticle Induced Apoptosis Using Microfabricated Single Cell Arrays. <i>Microarrays (Basel, Switzerland)</i> , 2016 , 5, | | 8 |
| 256 | Understanding and Characterizing Functional Properties of Nanoparticles 2016 , 63-80 | | |
| 255 | Biological in situ characterization of polymeric microbubble contrast agents. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 75, 232-43 | 5.6 | 8 |
| 254 | 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 |
| 253 | Bismuth-based nanoparticles as the environmentally friendly replacement for lead-based piezoelectrics. <i>RSC Advances</i> , 2015 , 5, 27295-27304 | 3.7 | 25 |
| 252 | 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 |
| 251 | 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 |
| 250 | High-content analysis for drug delivery and nanoparticle applications. <i>Drug Discovery Today</i> , 2015 , 20, 942-57 | 8.8 | 32 |
| 249 | Neutral red retention time assay in determination of toxicity of nanoparticles. <i>Marine Environmental Research</i> , 2015 , 111, 158-61 | 3.3 | 15 |
| 248 | Immunogold labeling reveals subcellular localisation of silica nanoparticles in a human blood-brain barrier model. <i>Nanoscale</i> , 2015 , 7, 10050-8 | 7.7 | 9 |
| 247 | Mapping protein binding sites on the biomolecular corona of nanoparticles. <i>Nature Nanotechnology</i> , 2015 , 10, 472-9 | 28.7 | 268 |

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|-----|---|------|-----|
| 246 | Controlling aqueous silica nanoparticle synthesis in the 10-100 nm range. <i>Chemical Communications</i> , 2015 , 51, 17420-3 | 5.8 | 18 |
| 245 | Characterization of the bionano interface and mapping extrinsic interactions of the corona of nanomaterials. <i>Nanoscale</i> , 2015 , 7, 15268-76 | 7.7 | 47 |
| 244 | 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 |
| 243 | 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 |
| 242 | Human plasma protein adsorption onto alumina nanoparticles relevant to orthopedic wear. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2015 , 13, e145-55 | 1.8 | 4 |
| 241 | Trajectory-based co-localization measures for nanoparticle-cell interaction studies. <i>Small</i> , 2015 , 11, 2026-31 | 6.3 | 11 |
| 240 | 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 |
| 239 | Imaging approach to mechanistic study of nanoparticle interactions with the blood-brain barrier. <i>ACS Nano</i> , 2014 , 8, 4304-12 | 16.7 | 97 |
| 238 | Surfactant titration of nanoparticle-protein corona. <i>Analytical Chemistry</i> , 2014 , 86, 12055-63 | 7.8 | 39 |
| 237 | 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 |
| 236 | 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 |
| 235 | 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 |
| 234 | 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 |
| 233 | Classification framework for graphene-based materials. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7714-8 | 16.4 | 287 |
| 232 | The interaction between nanoparticles and biological barriers. <i>European Journal of Nanomedicine</i> , 2014 , 6, | | 3 |
| 231 | RNAi-mediated inhibition of apoptosis fails to prevent cationic nanoparticle-induced cell death in cultured cells. <i>Nanomedicine</i> , 2014 , 9, 1651-64 | 5.6 | 12 |
| 230 | Macromolecular Coronas and Their Importance in Nanotoxicology and Nanoecotoxicology. <i>Frontiers of Nanoscience</i> , 2014 , 7, 127-156 | 0.7 | 32 |
| 229 | Rahmenbedingungen für die Klassifizierung graphenbasierter Materialien. <i>Angewandte Chemie</i> , 2014 , 126, 7846-7850 | 3.6 | 6 |

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|-----|--|------|------|
| 228 | 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 |
| 227 | Nanomaterials: impact on cells and cell organelles. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 811, 135-56 | 3.6 | 28 |
| 226 | Designing the future of nanomedicine: current barriers to targeted brain therapeutics. <i>European Journal of Nanomedicine</i> , 2014 , 6, | | 12 |
| 225 | Reproducibility in biological models of the blood-brain barrier. <i>European Journal of Nanomedicine</i> , 2014 , 6, | | 8 |
| 224 | 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 |
| 223 | Theoretical framework for nanoparticle uptake and accumulation kinetics in dividing cell populations. <i>Europhysics Letters</i> , 2013 , 101, 38007 | 1.6 | 23 |
| 222 | 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 |
| 221 | 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 |
| 220 | The protein corona mediates the impact of nanomaterials and slows amyloid beta fibrillation. <i>ChemBioChem</i> , 2013 , 14, 568-72 | 3.8 | 44 |
| 219 | Formation and characterization of the nanoparticle-protein corona. <i>Methods in Molecular Biology</i> , 2013 , 1025, 137-55 | 1.4 | 93 |
| 218 | Low dose of amino-modified nanoparticles induces cell cycle arrest. <i>ACS Nano</i> , 2013 , 7, 7483-94 | 16.7 | 68 |
| 217 | Time resolved study of cell death mechanisms induced by amine-modified polystyrene nanoparticles. <i>Nanoscale</i> , 2013 , 5, 10868-76 | 7.7 | 119 |
| 216 | Leave the policing to others. <i>Nature Nanotechnology</i> , 2013 , 8, 73 | 28.7 | 10 |
| 215 | Nanoparticle accumulation and transcytosis in brain endothelial cell layers. <i>Nanoscale</i> , 2013 , 5, 11153-65 | 7.7 | 90 |
| 214 | The dendrimer impact on vesicles can be tuned based on the bilayer charge and the presence of albumin. <i>Soft Matter</i> , 2013 , 9, 8862-70 | 3.6 | 19 |
| 213 | 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 |
| 212 | 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 |
| 211 | 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 |

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|-----|--|------|------|
| 210 | 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 |
| 209 | Critical phenomena in heterogeneous k-core percolation. <i>Physical Review E</i> , 2013 , 87, 022134 | 2.4 | 21 |
| 208 | COMPARISONS OF NANOPARTICLE PROTEIN CORONA COMPLEXES ISOLATED WITH DIFFERENT METHODS. <i>Nano LIFE</i> , 2013 , 03, 1343004 | 0.9 | 13 |
| 207 | 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 |
| 206 | Self-Consistent Approaches for the Protein Folding Problem: Kinetics and Equilibrium Properties of Random Copolymers. <i>Progress of Theoretical Physics Supplement</i> , 2013 , 126, 321-327 | | |
| 205 | Designing the nanoparticle-biomolecule interface for "targeting and therapeutic delivery". <i>Journal of Controlled Release</i> , 2012 , 161, 164-74 | 11.7 | 306 |
| 204 | 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 |
| 203 | Biomolecular coronas provide the biological identity of nanosized materials. <i>Nature Nanotechnology</i> , 2012 , 7, 779-86 | 28.7 | 1877 |
| 202 | Surface coatings shape the protein corona of SPIONs with relevance to their application in vivo. <i>Langmuir</i> , 2012 , 28, 14983-91 | 4 | 119 |
| 201 | Quantifying size-dependent interactions between fluorescently labeled polystyrene nanoparticles and mammalian cells. <i>Journal of Nanobiotechnology</i> , 2012 , 10, 39 | 9.4 | 88 |
| 200 | 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 |
| 199 | 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 |
| 198 | Stabilising fluorescent silica nanoparticles against dissolution effects for biological studies. <i>Chemical Communications</i> , 2012 , 48, 7970-2 | 5.8 | 81 |
| 197 | Reversible versus irreversible binding of transferrin to polystyrene nanoparticles: soft and hard corona. <i>ACS Nano</i> , 2012 , 6, 2532-41 | 16.7 | 361 |
| 196 | Transferrin coated nanoparticles: study of the bionano interface in human plasma. <i>PLoS ONE</i> , 2012 , 7, e40685 | 3.7 | 74 |
| 195 | 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 |
| 194 | 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 |
| 193 | Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. <i>Nanotoxicology</i> , 2011 , 5, 1-11 | 5.3 | 126 |

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|-----|--|------|------|
| 192 | The evolution of the protein corona around nanoparticles: a test study. <i>ACS Nano</i> , 2011 , 5, 7503-9 | 16.7 | 612 |
| 191 | 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 |
| 190 | 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 |
| 189 | A new methodology for studying nanoparticle interactions in biological systems: dispersing titania in biocompatible media using chemical stabilisers. <i>Nanoscale</i> , 2011 , 3, 4617-24 | 7.7 | 20 |
| 188 | Multi-colour emission from dye doped polymeric nanotubes by host-guest energy transfer. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15995 | | 11 |
| 187 | Quantification of nanoparticle uptake by cells using an unbiased sampling method and electron microscopy. <i>Nanomedicine</i> , 2011 , 6, 1189-98 | 5.6 | 29 |
| 186 | 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 |
| 185 | Elution of labile fluorescent dye from nanoparticles during biological use. <i>PLoS ONE</i> , 2011 , 6, e25556 | 3.7 | 72 |
| 184 | Rapid and Facile Purification of Apolipoprotein A-I from Human Plasma Using Thermo-responsive Nanoparticles. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2011 , 02, 258-266 | 1 | 8 |
| 183 | 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 |
| 182 | Time and space resolved uptake study of silica nanoparticles by human cells. <i>Molecular BioSystems</i> , 2011 , 7, 371-8 | | 181 |
| 181 | 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 |
| 180 | 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 |
| 179 | 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 |
| 178 | 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 |
| 177 | Quantitative assessment of the comparative nanoparticle-uptake efficiency of a range of cell lines. <i>Small</i> , 2011 , 7, 3341-9 | 11 | 186 |
| 176 | Tricritical point in heterogeneous k-core percolation. <i>Physical Review Letters</i> , 2011 , 107, 175703 | 7.4 | 44 |
| 175 | Lattice model of glasses. <i>Journal of Chemical Physics</i> , 2011 , 134, 114503 | 3.9 | 1 |

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|-----|--|------|-----|
| 174 | 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 |
| 173 | Inhibition of IAPP and IAPP(20-29) fibrillation by polymeric nanoparticles. <i>Langmuir</i> , 2010 , 26, 3453-61 | 4 | 112 |
| 172 | What the cell "sees" in bionanoscience. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5761-8 | 16.4 | 956 |
| 171 | Dual effect of amino modified polystyrene nanoparticles on amyloid β protein fibrillation. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 279-87 | 5.7 | 219 |
| 170 | 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 |
| 169 | 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 |
| 168 | Characterisation of nanoparticle size and state prior to nanotoxicological studies. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 47-53 | 2.3 | 145 |
| 167 | Biological bifocal lenses with image separation. <i>Current Biology</i> , 2010 , 20, 1482-6 | 6.3 | 18 |
| 166 | Effect of natural organic matter on cerium dioxide nanoparticles settling in model fresh water. <i>Chemosphere</i> , 2010 , 81, 711-5 | 8.4 | 143 |
| 165 | Serum heat inactivation affects protein corona composition and nanoparticle uptake. <i>Biomaterials</i> , 2010 , 31, 9511-8 | 15.6 | 235 |
| 164 | Exposure assessment: recommendations for nanotechnology-based pesticides. <i>International Journal of Occupational and Environmental Health</i> , 2010 , 16, 467-74 | | 4 |
| 163 | NANOINTERACT: A rational approach to the interaction between nanoscale materials and living matter?. <i>Journal of Physics: Conference Series</i> , 2009 , 170, 012040 | 0.3 | 1 |
| 162 | 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 |
| 161 | The origin of intermittent dynamics in the \mathbb{E}_h lattice gas model. <i>Europhysics Letters</i> , 2009 , 85, 26002 | 1.6 | 1 |
| 160 | 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 |
| 159 | Complete high-density lipoproteins in nanoparticle corona. <i>FEBS Journal</i> , 2009 , 276, 3372-81 | 5.7 | 221 |
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