# List of Publications by Year in descending order



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|---|---|---|---|
| 251 papers | 29,800 citations | 6254 80 h-index | 4991 167 g-index |
| 257 all docs | 257 docs citations | 257 times ranked | 37506 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Antibacterial properties of nanoparticles. Trends in Biotechnology, 2012, 30, 499-511. | 9.3 | 2,113 |
| 2 | Cellular uptake of nanoparticles: journey inside the cell. Chemical Society Reviews, 2017, 46, 4218-4244. | 38.1 | 1,709 |
| 3 | Superparamagnetic iron oxide nanoparticles (SPIONs): Development, surface modification and applications in chemotherapy. Advanced Drug Delivery Reviews, 2011, 63, 24-46. | 13.7 | 1,555 |
| 4 | Proteinâ˜Nanoparticle Interactions: Opportunities and Challenges. Chemical Reviews, 2011, 111, 5610-5637. | 47.7 | 1,242 |
| 5 | Iron oxide nanoparticles inhibit tumour growth by inducing pro-inflammatory macrophage polarization in tumour tissues. Nature Nanotechnology, 2016, 11, 986-994. | 31.5 | 1,223 |
| 6 | Toxicity of nanomaterials. Chemical Society Reviews, 2012, 41, 2323-2343. | 38.1 | 1,221 |
| 7 | Magnetic fluid hyperthermia: Focus on superparamagnetic iron oxide nanoparticles. Advances in Colloid and Interface Science, 2011, 166, 8-23. | 14.7 | 1,125 |
| 8 | Optical sensor arrays for chemical sensing: the optoelectronic nose. Chemical Society Reviews, 2013, 42, 8649. | 38.1 | 760 |
| 9 | Graphene: Promises, Facts, Opportunities, and Challenges in Nanomedicine. Chemical Reviews, 2013, 113, 3407-3424. | 47.7 | 643 |
| 10 | Assessing the In Vitro and In Vivo Toxicity of Superparamagnetic Iron Oxide Nanoparticles. Chemical Reviews, 2012, 112, 2323-2338. | 47.7 | 513 |
| 11 | Mechanistic understanding of in vivo protein corona formation on polymeric nanoparticles and impact on pharmacokinetics. Nature Communications, 2017, 8, 777. | 12.8 | 507 |
| 12 | Epicardial FSTL1 reconstitution regenerates the adult mammalian heart. Nature, 2015, 525, 479-485. | 27.8 | 402 |
| 13 | Magnetic Resonance Imaging Tracking of Stem Cells in Vivo Using Iron Oxide Nanoparticles as a Tool for the Advancement of Clinical Regenerative Medicine. Chemical Reviews, 2011, 111, 253-280. | 47.7 | 385 |
| 14 | Superparamagnetic iron oxide nanoparticles for delivery of therapeutic agents: opportunities and challenges. Expert Opinion on Drug Delivery, 2014, 11, 1449-1470. | 5.0 | 357 |
| 15 | Protein corona significantly reduces active targeting yield. Chemical Communications, 2013, 49, 2557. | 4.1 | 321 |
| 16 | Toxicity Evaluations of Superparamagnetic Iron Oxide Nanoparticles: Cell â€œVisionâ€•versus Physicochemical Properties of Nanoparticles. ACS Nano, 2011, 5, 7263-7276. | 14.6 | 317 |
| 17 | Twoâ€Dimensional Antimoneneâ€Based Photonic Nanomedicine for Cancer Theranostics. Advanced Materials, 2018, 30, e1802061. | 21.0 | 314 |
| 18 | Biological Identity of Nanoparticles In Vivo : Clinical Implications of the Protein Corona. Trends in Biotechnology, 2017, 35, 257-264. | 9.3 | 313 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Effect of Nanoparticles on the Cell Life Cycle. Chemical Reviews, 2011, 111, 3407-3432. | 47.7 | 301 |
| 20 | Temperature: The â€œIgnoredâ€•Factor at the NanoBio Interface. ACS Nano, 2013, 7, 6555-6562. | 14.6 | 299 |
| 21 | Silver-Coated Engineered Magnetic Nanoparticles Are Promising for the Success in the Fight against Antibacterial Resistance Threat. ACS Nano, 2012, 6, 2656-2664. | 14.6 | 287 |
| 22 | A new approach for the in vitro identification of the cytotoxicity of superparamagnetic iron oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2010, 75, 300-309. | 5.0 | 264 |
| 23 | Regulation of Macrophage Recognition through the Interplay of Nanoparticle Surface Functionality and Protein Corona. ACS Nano, 2016, 10, 4421-4430. | 14.6 | 264 |
| 24 | Impact of protein pre-coating on the protein corona composition and nanoparticle cellular uptake. Biomaterials, 2016, 75, 295-304. | 11.4 | 256 |
| 25 | Engineered nanoparticles for biomolecular imaging. Nanoscale, 2011, 3, 3007. | 5.6 | 246 |
| 26 | Personalized protein coronas: a â€œkeyâ€•factor at the nanobiointerface. Biomaterials Science, 2014, 2, 1210. | 5.4 | 238 |
| 27 | Optimal Design and Characterization of Superparamagnetic Iron Oxide Nanoparticles Coated with Polyvinyl Alcohol for Targeted Delivery and Imaging. Journal of Physical Chemistry B, 2008, 112, 14470-14481. | 2.6 | 232 |
| 28 | Revisiting structure-property relationship of pH-responsive polymers for drug delivery applications. Journal of Controlled Release, 2017, 253, 46-63. | 9.9 | 231 |
| 29 | Personalized protein corona on nanoparticles and its clinical implications. Biomaterials Science, 2017, 5, 378-387. | 5.4 | 227 |
| 30 | Gut microbiota and cardiovascular disease: opportunities and challenges. Microbiome, 2020, 8, 36. | 11.1 | 213 |
| 31 | Exocytosis of nanoparticles from cells: Role in cellular retention and toxicity. Advances in Colloid and Interface Science, 2013, 201-202, 18-29. | 14.7 | 212 |
| 32 | Emerging understanding of the protein corona at the nano-bio interfaces. Nano Today, 2016, 11, 817-832. | 11.9 | 205 |
| 33 | Protein Corona Composition of Superparamagnetic Iron Oxide Nanoparticles with Various Physico-Chemical Properties and Coatings. Scientific Reports, 2014, 4, 5020. | 3.3 | 204 |
| 34 | Personalized disease-specific protein corona influences the therapeutic impact of graphene oxide. Nanoscale, 2015, 7, 8978-8994. | 5.6 | 199 |
| 35 | Graphene oxide strongly inhibits amyloid beta fibrillation. Nanoscale, 2012, 4, 7322. | 5.6 | 197 |
| 36 | Intracellular Mechanistic Understanding of 2D MoS<sub>2</sub> Nanosheets for Anti-Exocytosis-Enhanced Synergistic Cancer Therapy. ACS Nano, 2018, 12, 2922-2938. | 14.6 | 188 |

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|---|---|---|---|
| 37 | Therapeutic Benefits from Nanoparticles: The Potential Significance of Nanoscience in Diseases with Compromise to the Blood Brain Barrier. Chemical Reviews, 2013, 113, 1877-1903. | 47.7 | 187 |
| 38 | Variation of Protein Corona Composition of Gold Nanoparticles Following Plasmonic Heating. Nano Letters, 2014, 14, 6-12. | 9.1 | 184 |
| 39 | The effect of bioengineered acellular collagen patch on cardiac remodeling and ventricular function post myocardial infarction. Biomaterials, 2013, 34, 9048-9055. | 11.4 | 168 |
| 40 | Effects of Magnetite Nanoparticles on Soybean Chlorophyll. Environmental Science & Technology, 2013, 47, 130906140819003. | 10.0 | 168 |
| 41 | Superparamagnetic Iron Oxide Nanoparticles with Rigid Cross-linked Polyethylene Glycol Fumarate Coating for Application in Imaging and Drug Delivery. Journal of Physical Chemistry C, 2009, 113, 8124-8131. | 3.1 | 164 |
| 42 | Interplay of protein corona and immune cells controls blood residency of liposomes. Nature Communications, 2019, 10, 3686. | 12.8 | 160 |
| 43 | Crucial Ignored Parameters on Nanotoxicology: The Importance of Toxicity Assay Modifications and â€œCell Visionâ€• PLoS ONE, 2012, 7, e29997. | 2.5 | 154 |
| 44 | Protein fibrillation and nanoparticle interactions: opportunities and challenges. Nanoscale, 2013, 5, 2570. | 5.6 | 153 |
| 45 | Magnetic targeting of surface-modified superparamagnetic iron oxide nanoparticles yields antibacterial efficacy against biofilms of gentamicin-resistant staphylococci. Acta Biomaterialia, 2012, 8, 2047-2055. | 8.3 | 151 |
| 46 | Big Signals from Small Particles: Regulation of Cell Signaling Pathways by Nanoparticles. Chemical Reviews, 2013, 113, 3391-3406. | 47.7 | 146 |
| 47 | Targeted superparamagnetic iron oxide nanoparticles for early detection of cancer: Possibilities and challenges. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 287-307. | 3.3 | 145 |
| 48 | Debugging Nanoâ€“Bio Interfaces: Systematic Strategies to Accelerate Clinical Translation of Nanotechnologies. Trends in Biotechnology, 2018, 36, 755-769. | 9.3 | 145 |
| 49 | Protein corona change the drug release profile of nanocarriers: The â€œoverlookedâ€• factor at the nanobio interface. Colloids and Surfaces B: Biointerfaces, 2014, 123, 143-149. | 5.0 | 144 |
| 50 | Cell â€œvisionâ€• complementary factor of protein corona in nanotoxicology. Nanoscale, 2012, 4, 5461. | 5.6 | 143 |
| 51 | Protein corona: Opportunities and challenges. International Journal of Biochemistry and Cell Biology, 2016, 75, 143-147. | 2.8 | 143 |
| 52 | Superparamagnetic Iron Oxide Nanoparticles: Promises for Diagnosis and Treatment of Multiple Sclerosis. ACS Chemical Neuroscience, 2011, 2, 118-140. | 3.5 | 141 |
| 53 | Correlative Super-Resolution Microscopy: New Dimensions and New Opportunities. Chemical Reviews, 2017, 117, 7428-7456. | 47.7 | 141 |
| 54 | Significance of surface charge and shell material of superparamagnetic iron oxide nanoparticle (SPION) based core/shell nanoparticles on the composition of the protein corona. Biomaterials Science, 2015, 3, 265-278. | 5.4 | 133 |

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|---|---|---|---|
| 55 | Influence of the Physiochemical Properties of Superparamagnetic Iron Oxide Nanoparticles on Amyloid Î² Protein Fibrillation in Solution. ACS Chemical Neuroscience, 2013, 4, 475-485. | 3.5 | 132 |
| 56 | Exploring Cellular Interactions of Liposomes Using Protein Corona Fingerprints and Physicochemical Properties. ACS Nano, 2016, 10, 3723-3737. | 14.6 | 130 |
| 57 | Cytotoxicity of Uncoated and Polyvinyl Alcohol Coated Superparamagnetic Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 9573-9580. | 3.1 | 128 |
| 58 | Paracrine Effects of the Pluripotent Stem Cell-Derived Cardiac Myocytes Salvage the Injured Myocardium. Circulation Research, 2017, 121, e22-e36. | 4.5 | 124 |
| 59 | Advances in Alzheimerâ€™s Diagnosis and Therapy: The Implications of Nanotechnology. Trends in Biotechnology, 2017, 35, 937-953. | 9.3 | 121 |
| 60 | Tumor Microenvironment-Responsive Multistaged Nanoplatform for Systemic RNAi and Cancer Therapy. Nano Letters, 2017, 17, 4427-4435. | 9.1 | 119 |
| 61 | A colorimetric sensor array for detection and discrimination of biothiols based on aggregation of gold nanoparticles. Analytica Chimica Acta, 2015, 882, 58-67. | 5.4 | 114 |
| 62 | Irreversible changes in protein conformation due to interaction with superparamagnetic iron oxide nanoparticles. Nanoscale, 2011, 3, 1127-38. | 5.6 | 112 |
| 63 | The importance of selecting a proper biological milieu for protein corona analysis in vitro: Human plasma versus human serum. International Journal of Biochemistry and Cell Biology, 2016, 75, 188-195. | 2.8 | 112 |
| 64 | Anin vitrostudy of bare and poly(ethylene glycol)-co-fumarate-coated superparamagnetic iron oxide nanoparticles: a new toxicity identification procedure. Nanotechnology, 2009, 20, 225104. | 2.6 | 110 |
| 65 | Cell-Imprinted Substrates Direct the Fate of Stem Cells. ACS Nano, 2013, 7, 8379-8384. | 14.6 | 110 |
| 66 | Superparamagnetic iron oxide nanoparticles for in vivo molecular and cellular imaging. Contrast Media and Molecular Imaging, 2015, 10, 329-355. | 0.8 | 109 |
| 67 | Protein corona composition of gold nanoparticles/nanorods affects amyloid beta fibrillation process. Nanoscale, 2015, 7, 5004-5013. | 5.6 | 107 |
| 68 | Bacterial Effects and Protein Corona Evaluations: Crucial Ignored Factors in the Prediction of Bio-Efficacy of Various Forms of Silver Nanoparticles. Chemical Research in Toxicology, 2012, 25, 1231-1242. | 3.3 | 106 |
| 69 | Ex situ evaluation of the composition of protein corona of intravenously injected superparamagnetic nanoparticles in rats. Nanoscale, 2014, 6, 11439-11450. | 5.6 | 106 |
| 70 | Multiscale technologies for treatment of ischemic cardiomyopathy. Nature Nanotechnology, 2017, 12, 845-855. | 31.5 | 104 |
| 71 | Nanoparticle Surface Functionality Dictates Cellular and Systemic Toxicity. Chemistry of Materials, 2017, 29, 6578-6595. | 6.7 | 99 |
| 72 | Protein corona affects the relaxivity and MRI contrast efficiency of magnetic nanoparticles. Nanoscale, 2013, 5, 8656. | 5.6 | 98 |

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|---|---|---|---|
| 73 | Crucial role of the protein corona for the specific targeting of nanoparticles. Nanomedicine, 2015, 10, 215-226. | 3.3 | 96 |
| 74 | Protein-Nanoparticle Interactions. Springer Series in Biophysics, 2013, , . | 0.4 | 93 |
| 75 | Nanostructures: a platform for brain repair and augmentation. Frontiers in Systems Neuroscience, 2014, 8, 91. | 2.5 | 92 |
| 76 | Bypassing Protein Corona Issue on Active Targeting: Zwitterionic Coatings Dictate Specific Interactions of Targeting Moieties and Cell Receptors. ACS Applied Materials & Interfaces, 2016, 8, 22808-22818. | 8.0 | 92 |
| 77 | Multiphysics Flow Modeling and in Vitro Toxicity of Iron Oxide Nanoparticles Coated with Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Over | 3.1 | 91 |
| 78 | Triggered release in lipid bilayer-capped mesoporous silica nanoparticles containing SPION using an alternating magnetic field. Chemical Communications, 2012, 48, 5647. | 4.1 | 91 |
| 79 | Double-doped TiO2 nanoparticles as an efficient visible-light-active photocatalyst and antibacterial agent under solar simulated light. Applied Surface Science, 2014, 301, 338-345. | 6.1 | 88 |
| 80 | Effect of Cell Sex on Uptake of Nanoparticles: The Overlooked Factor at the Nanobio Interface. ACS Nano, 2018, 12, 2253-2266. | 14.6 | 87 |
| 81 | Nanomedicine in Healing Chronic Wounds: Opportunities and Challenges. Molecular Pharmaceutics, 2021, 18, 550-575. | 4.6 | 84 |
| 82 | Antibody-Drug Conjugates: Possibilities and Challenges. Avicenna Journal of Medical Biotechnology, 2019, 11, 3-23. | 0.3 | 83 |
| 83 | Proteome of human plasma very low-density lipoprotein and low-density lipoprotein exhibits a link with coagulation and lipid metabolism. Thrombosis and Haemostasis, 2014, 112, 518-530. | 3.4 | 82 |
| 84 | Nanoparticle and Protein Corona. Springer Series in Biophysics, 2013, , 21-44. | 0.4 | 76 |
| 85 | Synergistic antimicrobial therapy using nanoparticles and antibiotics for the treatment of multidrug-resistant bacterial infection. Nano Futures, 2017, 1, 015004. | 2.2 | 75 |
| 86 | Impact of Gold Nanoparticles on Amyloid Î²-Induced Alzheimerâ€™s Disease in a Rat Animal Model: Involvement of STIM Proteins. ACS Chemical Neuroscience, 2019, 10, 2299-2309. | 3.5 | 74 |
| 87 | Significance of cell â€œobserverâ€•and protein source in nanobiosciences. Journal of Colloid and Interface Science, 2013, 392, 431-445. | 9.4 | 73 |
| 88 | Cell-Imprinted Substrates Act as an Artificial Niche for Skin Regeneration. ACS Applied Materials & Interfaces, 2014, 6, 13280-13292. | 8.0 | 70 |
| 89 | Nanotoxicology: advances and pitfalls in research methodology. Nanomedicine, 2015, 10, 2931-2952. | 3.3 | 70 |
| 90 | Plasma concentration gradient influences the protein corona decoration on nanoparticles. RSC Advances, 2013, 3, 1119-1126. | 3.6 | 69 |

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| 91 | Label-free detection of Î²-amyloid peptides (AÎ²40 and AÎ²42): a colorimetric sensor array for plasma monitoring of Alzheimer's disease. Nanoscale, 2018, 10, 6361-6368. | 5.6 | 68 |
| 92 | Disease-specific protein corona sensor arrays may have disease detection capacity. Nanoscale Horizons, 2019, 4, 1063-1076. | 8.0 | 68 |
| 93 | Regulation of stem cell fate by nanomaterial substrates. Nanomedicine, 2015, 10, 829-847. | 3.3 | 65 |
| 94 | Superparamagnetic iron oxide nanoparticles: promises for diagnosis and treatment of cancer. International Journal of Molecular Epidemiology and Genetics, 2011, 2, 367-90. | 0.4 | 65 |
| 95 | Hard corona composition and cellular toxicities of the graphene sheets. Colloids and Surfaces B: Biointerfaces, 2013, 109, 212-218. | 5.0 | 64 |
| 96 | Targeted Nanotherapeutics Encapsulating Liver X Receptor Agonist GW3965 Enhance Antiatherogenic Effects without Adverse Effects on Hepatic Lipid Metabolism in Ldlr<sup>â^'/â^'</sup> Mice. Advanced Healthcare Materials, 2017, 6, 1700313. | 7.6 | 63 |
| 97 | Interaction of stable colloidal nanoparticles with cellular membranes. Biotechnology Advances, 2014, 32, 679-692. | 11.7 | 62 |
| 98 | Disease-related metabolites affect proteinâ€“nanoparticle interactions. Nanoscale, 2018, 10, 7108-7115. | 5.6 | 61 |
| 99 | Nanoscale characterization of the biomolecular corona by cryo-electron microscopy, cryo-electron tomography, and image simulation. Nature Communications, 2021, 12, 573. | 12.8 | 61 |
| 100 | Physiological Temperature Has a Crucial Role in Amyloid Beta in the Absence and Presence of Hydrophobic and Hydrophilic Nanoparticles. ACS Chemical Neuroscience, 2013, 4, 375-378. | 3.5 | 59 |
| 101 | Identification of catecholamine neurotransmitters using fluorescence sensor array. Analytica Chimica Acta, 2016, 917, 85-92. | 5.4 | 58 |
| 102 | Synthesis, surface architecture and biological response of superparamagnetic iron oxide nanoparticles for application in drug delivery: a review. International Journal of Biomedical Nanoscience and Nanotechnology, 2010, 1, 164. | 0.1 | 57 |
| 103 | Slight temperature changes affect protein affinity and cellular uptake/toxicity of nanoparticles. Nanoscale, 2013, 5, 3240. | 5.6 | 57 |
| 104 | Protein Corona Influences Cellâ€“Biomaterial Interactions in Nanostructured Tissue Engineering Scaffolds. Advanced Functional Materials, 2015, 25, 4379-4389. | 14.9 | 57 |
| 105 | Nanomedicine for safe healing of bone trauma: Opportunities and challenges. Biomaterials, 2017, 146, 168-182. | 11.4 | 57 |
| 106 | Superparamagnetic colloidal nanocrystalclusters coated with polyethylene glycol fumarate: a possible novel theranostic agent. Nanoscale, 2011, 3, 1022-1030. | 5.6 | 56 |
| 107 | Identification of Nanoparticles with a Colorimetric Sensor Array. ACS Sensors, 2016, 1, 17-21. | 7.8 | 55 |
| 108 | Probing fibronectin conformation on a protein corona layer around nanoparticles. Nanoscale, 2018, 10, 1228-1233. | 5.6 | 55 |

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|---|---|---|---|
| 109 | Infection-resistant MRI-visible scaffolds for tissue engineering applications. BioImpacts, 2016, 6, 111-115. | 1.5 | 55 |
| 110 | Cytotoxicity and Cell Cycle Effects of Bare and Poly(vinyl alcohol)â€Coated Iron Oxide Nanoparticles in Mouse Fibroblasts. Advanced Engineering Materials, 2009, 11, B243. | 3.5 | 54 |
| 111 | Brain Targeting by Liposomeâ€“Biomolecular Corona Boosts Anticancer Efficacy of Temozolomide in Glioblastoma Cells. ACS Chemical Neuroscience, 2018, 9, 3166-3174. | 3.5 | 53 |
| 112 | Cell-Imprinted Substrates Modulate Differentiation, Redifferentiation, and Transdifferentiation. ACS Applied Materials & Interfaces, 2016, 8, 13777-13784. | 8.0 | 52 |
| 113 | Cytotoxicity of protein corona-graphene oxide nanoribbons on human epithelial cells. Applied Surface Science, 2014, 320, 596-601. | 6.1 | 51 |
| 114 | Mechanistic Understanding of the Interactions between Nano-Objects with Different Surface Properties and Î±-Synuclein. ACS Nano, 2019, 13, 3243-3256. | 14.6 | 51 |
| 115 | Hyperthermia-induced protein corona improves the therapeutic effects of zinc ferrite spinel-graphene sheets against cancer. RSC Advances, 2014, 4, 62557-62565. | 3.6 | 50 |
| 116 | Monoclonal antibody conjugated magnetic nanoparticles could target MUCâ€1â€positive cells in vitro but not in vivo. Contrast Media and Molecular Imaging, 2015, 10, 225-236. | 0.8 | 50 |
| 117 | A new strategy to design colorful ratiometric probes and its application to fluorescent detection of Hg(II). Sensors and Actuators B: Chemical, 2018, 259, 894-899. | 7.8 | 50 |
| 118 | Large Protein Absorptions from Small Changes on the Surface of Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 18275-18283. | 3.1 | 49 |
| 119 | Direct Evaluation of Myocardial Viability and Stem Cell Engraftment Demonstrates Salvage of the Injured Myocardium. Circulation Research, 2015, 116, e40-50. | 4.5 | 49 |
| 120 | Cell Type-Specific Activation of AKT and ERK Signaling Pathways by Small Negatively-Charged Magnetic Nanoparticles. Scientific Reports, 2012, 2, 868. | 3.3 | 48 |
| 121 | Interdisciplinary challenges and promising theranostic effects of nanoscience in Alzheimer's disease. RSC Advances, 2012, 2, 5008. | 3.6 | 48 |
| 122 | The Protein Corona Mediates the Impact of Nanomaterials and Slows Amyloid Beta Fibrillation. ChemBioChem, 2013, 14, 568-572. | 2.6 | 48 |
| 123 | Zeolite Nanoparticles Inhibit Aî²â€“Fibrinogen Interaction and Formation of a Consequent Abnormal Structural Clot. ACS Applied Materials & Interfaces, 2016, 8, 30768-30779. | 8.0 | 47 |
| 124 | Sex as an important factor in nanomedicine. Nature Communications, 2021, 12, 2984. | 12.8 | 47 |
| 125 | Nanoscale Technologies for Prevention and Treatment of Heart Failure: Challenges and Opportunities. Chemical Reviews, 2019, 119, 11352-11390. | 47.7 | 46 |
| 126 | Challenges in molecular diagnostic research in cancer nanotechnology. Nano Today, 2019, 27, 6-10. | 11.9 | 45 |

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| 127 | [Pyr1]-Apelin-13 delivery via nano-liposomal encapsulation attenuates pressure overload-induced cardiac dysfunction. Biomaterials, 2015, 37, 289-298. | 11.4 | 44 |
| 128 | Bioengineering cardiac constructs using 3D printing. Journal of 3D Printing in Medicine, 2017, 1, 123-139. | 2.0 | 44 |
| 129 | On-chip synthesis of fine-tuned bone-seeking hybrid nanoparticles. Nanomedicine, 2015, 10, 3431-3449. | 3.3 | 43 |
| 130 | Engineering of Mature Human Induced Pluripotent Stem Cellâ€Derived Cardiomyocytes Using Substrates with Multiscale Topography. Advanced Functional Materials, 2018, 28, 1707378. | 14.9 | 43 |
| 131 | Bare surface of gold nanoparticle induces inflammation through unfolding of plasma fibrinogen. Scientific Reports, 2018, 8, 12557. | 3.3 | 43 |
| 132 | The need for robust characterization of nanomaterials for nanomedicine applications. Nature Communications, 2021, 12, 5246. | 12.8 | 43 |
| 133 | The need for improved methodology in protein corona analysis. Nature Communications, 2022, 13, 49. | 12.8 | 43 |
| 134 | Tumor-associated macrophages, nanomedicine and imaging: the axis of success in the future of cancer immunotherapy. Immunotherapy, 2017, 9, 819-835. | 2.0 | 41 |
| 135 | Multifunctional stable fluorescent magnetic nanoparticles. Chemical Communications, 2012, 48, 3957. | 4.1 | 40 |
| 136 | Polyrotaxane/gold nanoparticle hybrid nanomaterials as anticancer drug delivery systems. Journal of Materials Chemistry, 2011, 21, 18686. | 6.7 | 39 |
| 137 | Misinterpretation in Nanotoxicology: A Personal Perspective. Chemical Research in Toxicology, 2016, 29, 943-948. | 3.3 | 38 |
| 138 | Sensing of Alzheimerâ€™s Disease and Multiple Sclerosis Using Nano-Bio Interfaces. Journal of Alzheimer's Disease, 2017, 59, 1187-1202. | 2.6 | 38 |
| 139 | An engineered cell-imprinted substrate directs osteogenic differentiation in stem cells. Biomaterials Science, 2018, 6, 189-199. | 5.4 | 38 |
| 140 | Biomolecular Corona Affects Controlled Release of Drug Payloads from Nanocarriers. Trends in Pharmacological Sciences, 2020, 41, 641-652. | 8.7 | 38 |
| 141 | Nanotechnology for Targeted Detection and Removal of Bacteria: Opportunities and Challenges. Advanced Science, 2021, 8, e2100556. | 11.2 | 38 |
| 142 | Synthesis and in Vitro Evaluation of Bone-Seeking Superparamagnetic Iron Oxide Nanoparticles as Contrast Agents for Imaging Bone Metabolic Activity. ACS Applied Materials & Interfaces, 2013, 5, 5219-5226. | 8.0 | 37 |
| 143 | Determination of nanoparticles using UV-Vis spectra. Nanoscale, 2015, 7, 5134-5139. | 5.6 | 37 |
| 144 | Cardiovascular tissue bioprinting: Physical and chemical processes. Applied Physics Reviews, 2018, 5, 041106. | 11.3 | 36 |

| # | Article | IF | Citations |
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| 145 | <p>Opportunities and Challenges of the Management of Chronic Wounds: A Multidisciplinary Viewpoint</p>. Chronic Wound Care Management and Research, 0, Volume 7, 27-36. | 0.4 | 36 |
| 146 | Antibody orientation determines corona mistargeting capability. Nature Nanotechnology, 2018, 13, 775-776. | 31.5 | 35 |
| 147 | Nanomaterials for bone tissue regeneration: updates and future perspectives. Nanomedicine, 2019, 14, 2987-3006. | 3.3 | 35 |
| 148 | Novel MRI Contrast Agent from Magnetotactic Bacteria Enables In Vivo Tracking of iPSC-derived Cardiomyocytes. Scientific Reports, 2016, 6, 26960. | 3.3 | 33 |
| 149 | Development of a Virtual Cell Model to Predict Cell Response to Substrate Topography. ACS Nano, 2017, 11, 9084-9092. | 14.6 | 33 |
| 150 | STEM the bullying: An empirical investigation of abusive supervision in academic science. EClinicalMedicine, 2021, 40, 101121. | 7.1 | 33 |
| 151 | In Vivo Tracking of Tissue Engineered Constructs. Micromachines, 2019, 10, 474. | 2.9 | 32 |
| 152 | Detection and Discrimination of Bacterial Colonies with Mueller Matrix Imaging. Scientific Reports, 2018, 8, 10815. | 3.3 | 31 |
| 153 | Mapping the heterogeneity of protein corona by ex vivo magnetic levitation. Nanoscale, 2020, 12, 2374-2383. | 5.6 | 31 |
| 154 | Magnetic Levitation Systems for Disease Diagnostics. Trends in Biotechnology, 2021, 39, 311-321. | 9.3 | 31 |
| 155 | Effect of Cell Age on Uptake and Toxicity of Nanoparticles: The Overlooked Factor at the Nanobio Interface. ACS Applied Materials & Interfaces, 2019, 11, 39672-39687. | 8.0 | 30 |
| 156 | Synthesis of new hybrid nanomaterials: promising systems for cancer therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 806-817. | 3.3 | 29 |
| 157 | Time-Resolved Visual Chiral Discrimination of Cysteine Using Unmodified CdTe Quantum Dots. Scientific Reports, 2017, 7, 890. | 3.3 | 29 |
| 158 | Biomaterial approaches for cardiovascular tissue engineering. Emergent Materials, 2019, 2, 193-207. | 5.7 | 29 |
| 159 | The Protein Corona around Nanoparticles Facilitates Stem Cell Labeling for Clinical MR Imaging. Radiology, 2018, 286, 938-947. | 7.3 | 27 |
| 160 | Magnetically Levitated Plasma Proteins. Analytical Chemistry, 2020, 92, 1663-1668. | 6.5 | 27 |
| 161 | Protein corona: The golden gate to clinical applications of nanoparticles. International Journal of Biochemistry and Cell Biology, 2016, 75, 141-142. | 2.8 | 25 |
| 162 | Exploitation of nanoparticle-protein interactions for early disease detection. Applied Physics Letters, 2019, 114, 163702. | 3.3 | 25 |

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|---|---|---|---|
| 163 | Simple one-pot fabrication of ultra-stable core-shell superparamagnetic nanoparticles for potential application in drug delivery. RSC Advances, 2012, 2, 5221. | 3.6 | 23 |
| 164 | Photothermal effects on protein adsorption dynamics of PEGylated gold nanorods. Applied Materials Today, 2019, 15, 599-604. | 4.3 | 23 |
| 165 | Impact of plasma concentration of transferrin on targeting capacity of nanoparticles. Nanoscale, 2020, 12, 4935-4944. | 5.6 | 23 |
| 166 | Synthesis of a solar photo and bioactive CNTâ€“TiO2 nanocatalyst. RSC Advances, 2013, 3, 18529. | 3.6 | 22 |
| 167 | Placenta-specific1 (PLAC1) is a potential target for antibody-drug conjugate-based prostate cancer immunotherapy. Scientific Reports, 2017, 7, 13373. | 3.3 | 22 |
| 168 | Nanoparticleâ€biomolecular corona: A new approach for the early detection of nonâ€smallâ€cell lung cancer. Journal of Cellular Physiology, 2019, 234, 9378-9386. | 4.1 | 22 |
| 169 | Evolving Magnetically Levitated Plasma Proteins Detects Opioid Use Disorder as a Model Disease. Advanced Healthcare Materials, 2020, 9, 1901608. | 7.6 | 22 |
| 170 | 3D Bioprinted Bacteriostatic Hyperelastic Bone Scaffold for Damage-Specific Bone Regeneration. Polymers, 2021, 13, 1099. | 4.5 | 22 |
| 171 | Cell shape affects nanoparticle uptake and toxicity: An overlooked factor at the nanobio interfaces. Journal of Colloid and Interface Science, 2018, 531, 245-252. | 9.4 | 21 |
| 172 | Molecular interaction of fibrinogen with zeolite nanoparticles. Scientific Reports, 2019, 9, 1558. | 3.3 | 21 |
| 173 | The role of sex as a biological variable in the efficacy and toxicity of therapeutic nanomedicine. Advanced Drug Delivery Reviews, 2021, 174, 337-347. | 13.7 | 21 |
| 174 | Synergistic Analysis of Protein Corona and Haemoglobin Levels Detects Pancreatic Cancer. Cancers, 2021, 13, 93. | 3.7 | 21 |
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