

## List of Publications by Citations

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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.

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|-------------------|-------------------------|----------------|-----------------|
| 50<br>papers      | 2,256<br>citations      | 22<br>h-index  | 47<br>g-index   |
| 57<br>ext. papers | 2,518<br>ext. citations | 6.9<br>avg, IF | 4.66<br>L-index |

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 50 | Broad-spectrum non-toxic antiviral nanoparticles with a virucidal inhibition mechanism. <i>Nature Materials</i> , <b>2018</b> , 17, 195-203   | 27   | 229       |
| 49 | Single Living Cell Encapsulation in Nano-organized Polyelectrolyte Shells. <i>Langmuir</i> , <b>2002</b> , 18, 5047-5050  | 4    | 214       |
| 48 | Therapeutic benefits from nanoparticles: the potential significance of nanoscience in diseases with compromise to the blood brain barrier. <i>Chemical Reviews</i> , <b>2013</b> , 113, 1877-903      | 68.1 | 160       |
| 47 | Multilayer nanoencapsulation. New approach for immune protection of human pancreatic islets. <i>Nano Letters</i> , <b>2006</b> , 6, 1933-9  | 11.5 | 156       |
| 46 | Formation of three-dimensional protein-lipid aggregates in monolayer films induced by surfactant protein B. <i>Biophysical Journal</i> , <b>2000</b> , 79, 904-18                                     | 2.9  | 122       |
| 45 | Interaction of polyelectrolytes and their composites with living cells. <i>Nano Letters</i> , <b>2005</b> , 5, 2605-12  | 11.5 | 109       |
| 44 | Challenges in drug delivery to the brain: nature is against us. <i>Journal of Controlled Release</i> , <b>2012</b> , 164, 145-55  | 11.7 | 106       |
| 43 | Functionalized gold nanoparticles: a detailed in vivo multimodal microscopic brain distribution study. <i>Nanoscale</i> , <b>2010</b> , 2, 2826-34  | 7.7  | 96        |
| 42 | Evolution of Nanoparticle Protein Corona across the Blood-Brain Barrier. <i>ACS Nano</i> , <b>2018</b> , 12, 7292-7300  | 16.7 | 92        |
| 41 | Blood protein coating of gold nanoparticles as potential tool for organ targeting. <i>Biomaterials</i> , <b>2014</b> , 35, 3455-66  | 15.6 | 90        |
| 40 | Mechanical properties of single living cells encapsulated in polyelectrolyte matrixes. <i>Journal of Biotechnology</i> , <b>2006</b> , 124, 723-31  | 3.7  | 71        |
| 39 | Encapsulated living cells on microstructured surfaces. <i>Langmuir</i> , <b>2005</b> , 21, 705-9  | 4    | 70        |
| 38 | Poly-L-lysine-coated silver nanoparticles as positively charged substrates for surface-enhanced Raman scattering. <i>Langmuir</i> , <b>2012</b> , 28, 13166-71  | 4    | 69        |
| 37 | Electrophoretic characterization of gold nanoparticles functionalized with human serum albumin (HSA) and creatine. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 332, 215-23        | 9.3  | 68        |
| 36 | Asymmetrical flow field-flow fractionation with multi-angle light scattering detection for the analysis of structured nanoparticles. <i>Journal of Chromatography A</i> , <b>2009</b> , 1216, 9106-12 | 4.5  | 61        |
| 35 | Nanosensors for early cancer detection and for therapeutic drug monitoring. <i>Nanomedicine</i> , <b>2015</b> , 10, 3495-512  | 5.6  | 43        |
| 34 | Kinetics of phospholipid insertion into monolayers containing the lung surfactant proteins SP-B or SP-C. <i>European Biophysics Journal</i> , <b>2002</b> , 31, 52-61                                 | 1.9  | 43        |

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|----|--|------|----|
| 33 | Oxygen-plasma-modified biomimetic nanofibrous scaffolds for enhanced compatibility of cardiovascular implants. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 254-62                                      | 3    | 36 |
| 32 | Design, development and characterization of multi-functionalized gold nanoparticles for biodetection and targeted boron delivery in BNCT applications. <i>Applied Radiation and Isotopes</i> , <b>2011</b> , 69, 1692-7  | 1.7  | 33 |
| 31 | Deformation and adhesion of elastomer poly(dimethylsiloxane) colloidal AFM probes. <i>Langmuir</i> , <b>2007</b> , 23, 9293-302  | 4    | 28 |
| 30 | Nanocapsules: coating for living cells. <i>IEEE Transactions on Nanobioscience</i> , <b>2004</b> , 3, 32-8   | 3.4  | 27 |
| 29 | A novel class of potential prion drugs: preliminary in vitro and in vivo data for multilayer coated gold nanoparticles. <i>Nanoscale</i> , <b>2010</b> , 2, 2724-32  | 7.7  | 24 |
| 28 | Multi-sulfonated ligands on gold nanoparticles as virucidal antiviral for Dengue virus. <i>Scientific Reports</i> , <b>2020</b> , 10, 9052   | 4.9  | 21 |
| 27 | On the Slow Diffusion of Point-of-Care Systems in Therapeutic Drug Monitoring. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 20  | 5.8  | 21 |
| 26 | Structure and function of surfactant protein B and C in lipid monolayers: a scanning force microscopy study. <i>Physical Chemistry Chemical Physics</i> , <b>2000</b> , 2, 4586-4593                                     | 3.6  | 21 |
| 25 | Patchy Amphiphilic Dendrimers Bind Adenovirus and Control Its Host Interactions and in Vivo Distribution. <i>ACS Nano</i> , <b>2019</b> , 13, 8749-8759  | 16.7 | 18 |
| 24 | High sensitivity optical microscope for single molecule spectroscopy studies. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 2746-2751  | 1.7  | 18 |
| 23 | Synthesis and biological activity of an Anderson polyoxometalate bis-functionalized with a Bombesin-analog peptide. <i>Peptide Science</i> , <b>2018</b> , 110, e24047   | 3    | 17 |
| 22 | Superparamagnetic Nanoparticles as High Efficiency Magnetic Resonance Imaging T Contrast Agent. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 161-170  | 6.3  | 17 |
| 21 | Fluorinated and Charged Hydrogenated Alkanethiolates Grafted on Gold: Expanding the Diversity of Mixed-Monolayer Nanoparticles for Biological Applications. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 43-52      | 6.3  | 14 |
| 20 | Synthesis and multidisciplinary characterization of polyelectrolyte multilayer-coated nanogold with improved stability toward aggregation. <i>Colloid and Polymer Science</i> , <b>2011</b> , 289, 269-280               | 2.4  | 14 |
| 19 | Two-Photon Photolysis of 2-Nitrobenzaldehyde Monitored by Fluorescent-Labeled Nanocapsules. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 11008-11012  | 3.4  | 14 |
| 18 | FM19G11-Loaded Gold Nanoparticles Enhance the Proliferation and Self-Renewal of Ependymal Stem Progenitor Cells Derived from ALS Mice. <i>Cells</i> , <b>2019</b> , 8,   | 7.9  | 13 |
| 17 | Selective Targeting of Proteins by Hybrid Polyoxometalates: Interaction Between a Bis-Biotinylated Hybrid Conjugate and Avidin. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 278                                     | 5    | 13 |
| 16 | Conformal coating by multilayer nano-encapsulation for the protection of human pancreatic islets: In-vitro and in-vivo studies. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2018</b> , 14, 2191-2203 | 6    | 13 |

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|----|---|-----|----|
| 15 | The effect of lipid composition and physical state of phospholipid monolayer on the binding and incorporation of a basic amphipathic peptide from the C-terminal region of the HIV envelope protein gp41. <i>Chemistry and Physics of Lipids</i> , <b>2000</b> , 107, 83-92 | 3.7 | 13 |
| 14 | Urinary exosomal shuttle RNA: Promising cancer diagnosis biomarkers of lower urinary tract. <i>International Journal of Biological Markers</i> , <b>2019</b> , 34, 101-107  | 2.8 | 11 |
| 13 | Validation of Hepatocellular Carcinoma Experimental Models for TGF- $\beta$ -Promoting Tumor Progression. <i>Cancers</i> , <b>2019</b> , 11,  | 6.6 | 11 |
| 12 | Frizzled-10 and cancer progression: Is it a new prognostic marker?. <i>Oncotarget</i> , <b>2018</b> , 9, 824-830  | 3.3 | 11 |
| 11 | pH-Mediated molecular differentiation for fluorimetric quantification of chemotherapeutic drugs in human plasma. <i>Chemical Communications</i> , <b>2018</b> , 54, 1485-1488   | 5.8 | 7  |
| 10 | Nanomedicine for treatment of diabetes in an aging population: state-of-the-art and future developments. <i>Maturitas</i> , <b>2012</b> , 73, 61-7  | 5   | 7  |
| 9  | Distribution of superparamagnetic Au/Fe nanoparticles in an isolated guinea pig brain with an intact blood brain barrier. <i>Nanoscale</i> , <b>2018</b> , 10, 22420-22428  | 7.7 | 7  |
| 8  | Voltage regulation of single green fluorescent protein mutants. <i>Biophysical Chemistry</i> , <b>2007</b> , 125, 368-74  | 5.5 | 6  |
| 7  | Enhanced Green Fluorescent Protein (GFP) fluorescence after polyelectrolyte caging. <i>Optics Express</i> , <b>2006</b> , 14, 9815-24   | 3.3 | 5  |
| 6  | Polyphenols Epigallocatechin Gallate and Resveratrol, and Polyphenol-Functionalized Nanoparticles Prevent Enterovirus Infection through Clustering and Stabilization of the Viruses. <i>Pharmaceutics</i> , <b>2021</b> , 13,   | 6.4 | 5  |
| 5  | Structural stability of green fluorescent proteins entrapped in polyelectrolyte nanocapsules. <i>Journal of Biophotonics</i> , <b>2008</b> , 1, 310-9   | 3.1 | 3  |
| 4  | Reproducibility warning: The curious case of polyethylene glycol 6000 and spheroid cell culture. <i>PLoS ONE</i> , <b>2020</b> , 15, e0224002   | 3.7 | 2  |
| 3  | Targeted multicomponent polysomes for high efficiency, simultaneous anti-sense and gene delivery. <i>Soft Matter</i> , <b>2011</b> , 7, 9424  | 3.6 | 2  |
| 2  | Human serum albumin nanoparticles loaded with phthalocyanine dyes for potential use in photodynamic therapy for atherosclerotic plaques. <i>Precision Nanomedicine</i> , <b>2019</b> , 2, 279-302   | 1.2 | 1  |
| 1  | Polyelectrolytes, Polyelectrolyte Microcapsules and Nanospheres- Valuable tools for Microscope Refinement in Subresolution Range. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 1288-1289   | 0.5 |    |