

Beatriz Pelaz

List of Publications by Year in descending order

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95
papers

7,181
citations

116194

36
h-index

64407

83
g-index

99
all docs

99
docs citations

99
times ranked

14416
citing authors

#	ARTICLE	IF	CITATIONS
1	Sonosensitive capsules for brain thrombolysis increase ischemic damage in a stroke model. <i>Journal of Nanobiotechnology</i> , 2022, 20, 46.	4.2	8
2	Colloidal stability of polymer coated zwitterionic Au nanoparticles in biological media. <i>Inorganica Chimica Acta</i> , 2022, 534, 120820.	1.2	6
3	High-yield halide-assisted synthesis of metal-organic framework UiO-based nanocarriers. <i>Nanoscale</i> , 2022, 14, 6789-6801.	2.8	4
4	Pathways Related to NLRP3 Inflammasome Activation Induced by Gold Nanorods. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5763.	1.8	1
5	Hyperspectral-enhanced dark field analysis of individual and collective photo-responsive gold-copper sulfide nanoparticles. <i>Nanoscale</i> , 2021, 13, 13256-13272.	2.8	17
6	In depth characterisation of the biomolecular coronas of polymer coated inorganic nanoparticles with differential centrifugal sedimentation. <i>Scientific Reports</i> , 2021, 11, 6443.	1.6	14
7	REAP: revealing drug tolerant persister cells in cancer using contrast enhanced optical coherence and photoacoustic tomography. <i>JPhys Photonics</i> , 2021, 3, 021001.	2.2	1
8	New Approaches in Nanomedicine for Ischemic Stroke. <i>Pharmaceutics</i> , 2021, 13, 757.	2.0	19
9	Aerogelation of Polymer-Coated Photoluminescent, Plasmonic, and Magnetic Nanoparticles for Biosensing Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 6678-6688.	2.4	13
10	Monodisperse superparamagnetic nanoparticles separation adsorbents for high-yield removal of arsenic and/or mercury metals in aqueous media. <i>Journal of Molecular Liquids</i> , 2021, 335, 116485.	2.3	7
11	Plasmonic-Assisted Thermocyclizations in Living Cells Using Metal-Organic Framework Based Nanoreactors. <i>ACS Nano</i> , 2021, 15, 16924-16933.	7.3	20
12	Nanoparticle behavior and stability in biological environments. , 2020, , 5-18.		7
13	808-nm-activable core@multishell upconverting nanoparticles with enhanced stability for efficient photodynamic therapy. <i>Journal of Nanobiotechnology</i> , 2020, 18, 85.	4.2	22
14	Core-Shell Palladium/MOF Platforms as Diffusion-Controlled Nanoreactors in Living Cells and Tissue Models. <i>Cell Reports Physical Science</i> , 2020, 1, 100076.	2.8	35
15	Synthesis, Characterization, and Evaluation of Superparamagnetic Doped Ferrites as Potential Therapeutic Nanotools. <i>Chemistry of Materials</i> , 2020, 32, 2220-2231.	3.2	50
16	Plasmonic Cell-Derived Nanocomposites for Light-Controlled Cargo Release inside Living Cells. <i>Advanced Biology</i> , 2020, 4, e1900260.	3.0	11
17	In vivo ultrasound-activated delivery of recombinant tissue plasminogen activator from the cavity of sub-micrometric capsules. <i>Journal of Controlled Release</i> , 2019, 308, 162-171.	4.8	21
18	Photothermal effects on protein adsorption dynamics of PEGylated gold nanorods. <i>Applied Materials Today</i> , 2019, 15, 599-604.	2.3	23

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19	Aqueous stable luminescent perovskite-polymer composites. <i>Applied Materials Today</i> , 2019, 15, 562-569.	2.3	13
20	Aqueous Stable Gold Nanostar/ZIF-8 Nanocomposites for Light-Triggered Release of Active Cargo Inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7078-7082.	7.2	103
21	Aqueous Stable Gold Nanostar/ZIF-8 Nanocomposites for Light-Triggered Release of Active Cargo Inside Living Cells. <i>Angewandte Chemie</i> , 2019, 131, 7152-7156.	1.6	15
22	Investigating Possible Enzymatic Degradation on Polymer Shells around Inorganic Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 935.	1.8	17
23	Tracking stem cells and macrophages with gold and iron oxide nanoparticles – The choice of the best suited particles. <i>Applied Materials Today</i> , 2019, 15, 267-279.	2.3	39
24	Nanoparticles engineered to bind cellular motors for efficient delivery. <i>Journal of Nanobiotechnology</i> , 2018, 16, 33.	4.2	14
25	Colloidal bioplasmonics. <i>Nano Today</i> , 2018, 20, 58-73.	6.2	25
26	Aqueous Synthesis of Copper(II)-Imidazolate Nanoparticles. <i>Inorganic Chemistry</i> , 2018, 57, 12056-12065.	1.9	6
27	How Entanglement of Different Physicochemical Properties Complicates the Prediction of <i>in Vitro</i> and <i>in Vivo</i> Interactions of Gold Nanoparticles. <i>ACS Nano</i> , 2018, 12, 10104-10113.	7.3	113
28	Antireflection self-reference method based on ultrathin metallic nanofilms for improving terahertz reflection spectroscopy. <i>Optics Express</i> , 2018, 26, 19470.	1.7	7
29	Magnetic Nanoparticles for Cancer Therapy and Bioimaging. <i>Nanomedicine and Nanotoxicology</i> , 2018, , 239-279.	0.1	9
30	Dual Enzymatic Reaction-Assisted Gemcitabine Delivery Systems for Programmed Pancreatic Cancer Therapy. <i>ACS Nano</i> , 2017, 11, 1281-1291.	7.3	160
31	Dissecting common and divergent molecular pathways elicited by CdSe/ZnS quantum dots in freshwater and marine sentinel invertebrates. <i>Nanotoxicology</i> , 2017, 11, 289-303.	1.6	27
32	Advances toward More Efficient Targeted Delivery of Nanoparticles <i>in Vivo</i> : Understanding Interactions between Nanoparticles and Cells. <i>ACS Nano</i> , 2017, 11, 2397-2402.	7.3	98
33	Enhanced Terahertz Radiation Generation of Photoconductive Antennas Based on Manganese Ferrite Nanoparticles. <i>Scientific Reports</i> , 2017, 7, 46261.	1.6	9
34	Introducing Students to Surface Modification and Phase Transfer of Nanoparticles with a Laboratory Experiment. <i>Journal of Chemical Education</i> , 2017, 94, 769-774.	1.1	9
35	The role of intracellular trafficking of CdSe/ZnS QDs on their consequent toxicity profile. <i>Journal of Nanobiotechnology</i> , 2017, 15, 45.	4.2	31
36	Real-time, label-free monitoring of cell viability based on cell adhesion measurements with an atomic force microscope. <i>Journal of Nanobiotechnology</i> , 2017, 15, 23.	4.2	17

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37	Colloidal Gold Nanoparticles Induce Changes in Cellular and Subcellular Morphology. ACS Nano, 2017, 11, 7807-7820.	7.3	88
38	Optimizing conditions for labeling of mesenchymal stromal cells (MSCs) with gold nanoparticles: a prerequisite for in vivo tracking of MSCs. Journal of Nanobiotechnology, 2017, 15, 24.	4.2	31
39	Influence of Size and Shape on the Anatomical Distribution of Endotoxin-Free Gold Nanoparticles. ACS Nano, 2017, 11, 5519-5529.	7.3	131
40	Choose your cell model wisely: The in vitro nanoneurotoxicity of differentially coated iron oxide nanoparticles for neural cell labeling. Acta Biomaterialia, 2017, 55, 204-213.	4.1	13
41	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
42	Polymer-coated nanoparticles: Carrier platforms for hydrophobic water- and air-sensitive metallo-organic compounds. Pharmacological Research, 2017, 117, 261-266.	3.1	17
43	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. Chemistry of Materials, 2017, 29, 399-461.	3.2	233
44	Enhanced All-Optical Modulation of Terahertz Waves on the Basis of Manganese Ferrite Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 21634-21640.	1.5	17
45	Direct protein quantification in complex sample solutions by surface-engineered nanorod probes. Scientific Reports, 2017, 7, 4752.	1.6	11
46	Multiparametric analysis of anti-proliferative and apoptotic effects of gold nanoprisms on mouse and human primary and transformed cells, biodistribution and toxicity in vivo. Particle and Fibre Toxicology, 2017, 14, 41.	2.8	17
47	Synthesis and Surface Engineering of Gold Nanoparticles, and Their Potential Applications in Bionanotechnology. , 2017, , .		0
48	Homogeneous Biosensing Based on Magnetic Particle Labels. Sensors, 2016, 16, 828.	2.1	75
49	Nanoparticle dosage—a nontrivial task of utmost importance for quantitative nanosafety research. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 479-492.	3.3	22
50	Inhibition of the cancer-associated TASK 3 channels by magnetically induced thermal release of Tetradrine from a polymeric drug carrier. Journal of Controlled Release, 2016, 237, 50-60.	4.8	29
51	Basic Physicochemical Properties of Polyethylene Glycol Coated Gold Nanoparticles that Determine Their Interaction with Cells. Angewandte Chemie - International Edition, 2016, 55, 5483-5487.	7.2	115
52	Basic Physicochemical Properties of Polyethylene Glycol Coated Gold Nanoparticles that Determine Their Interaction with Cells. Angewandte Chemie, 2016, 128, 5573-5577.	1.6	11
53	Tumour homing and therapeutic effect of colloidal nanoparticles depend on the number of attached antibodies. Nature Communications, 2016, 7, 13818.	5.8	115
54	Homogeneous Protein Analysis by Magnetic Core-Shell Nanorod Probes. ACS Applied Materials & Interfaces, 2016, 8, 8893-8899.	4.0	18

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55	Sterilization Case Study 1: Effects of Different Sterilization Techniques on Gold Nanoparticles. <i>Frontiers in Nanobiomedical Research</i> , 2016, , 77-92.	0.1	0
56	Highly active antibody-modified magnetic polyelectrolyte capsules. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 1-8.	5.0	22
57	Evaluation of quantum dot cytotoxicity: interpretation of nanoparticle concentrations versus intracellular nanoparticle numbers. <i>Nanotoxicology</i> , 2016, 10, 1318-1328.	1.6	33
58	The impact of species and cell type on the nanosafety profile of iron oxide nanoparticles in neural cells. <i>Journal of Nanobiotechnology</i> , 2016, 14, 69.	4.2	41
59	Quantitative uptake of colloidal particles by cell cultures. <i>Science of the Total Environment</i> , 2016, 568, 819-828.	3.9	35
60	Gold-Based Nanomaterials for Applications in Nanomedicine. <i>Topics in Current Chemistry</i> , 2016, 370, 169-202.	4.0	56
61	Conjugation of Polymer-Coated Gold Nanoparticles with Antibodies—Synthesis and Characterization. <i>Nanomaterials</i> , 2015, 5, 1297-1316.	1.9	29
62	Comparison of the in Vitro Uptake and Toxicity of Collagen- and Synthetic Polymer-Coated Gold Nanoparticles. <i>Nanomaterials</i> , 2015, 5, 1418-1430.	1.9	35
63	Optical biosensor technologies for molecular diagnostics at the point-of-care. , 2015, , .		3
64	Phase Transfer and Polymer Coating Methods toward Improving the Stability of Metallic Nanoparticles for Biological Applications. <i>Chemistry of Materials</i> , 2015, 27, 990-997.	3.2	116
65	Surface Functionalization of Nanoparticles with Polyethylene Glycol: Effects on Protein Adsorption and Cellular Uptake. <i>ACS Nano</i> , 2015, 9, 6996-7008.	7.3	717
66	Characterization of gold nanoparticles with different hydrophilic coatings via capillary electrophoresis and Taylor dispersion analysis. Part I: Determination of the zeta potential employing a modified analytic approximation. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 288-300.	5.0	57
67	Model Driven Optimization of Magnetic Anisotropy of Exchange-Coupled Core–Shell Ferrite Nanoparticles for Maximal Hysteretic Loss. <i>Chemistry of Materials</i> , 2015, 27, 7380-7387.	3.2	93
68	Characterization of hydrophilic coated gold nanoparticles via capillary electrophoresis and Taylor dispersion analysis. Part II: Determination of the hydrodynamic radius distribution – Comparison with asymmetric flow field-flow fractionation. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 131-140.	5.0	35
69	Investigating the role of shape on the biological impact of gold nanoparticles <i>in vitro</i> . <i>Nanomedicine</i> , 2015, 10, 2643-2657.	1.7	33
70	Charge and agglomeration dependent in vitro uptake and cytotoxicity of zinc oxide nanoparticles. <i>Journal of Inorganic Biochemistry</i> , 2015, 153, 334-338.	1.5	60
71	High-Content Imaging and Gene Expression Approaches To Unravel the Effect of Surface Functionality on Cellular Interactions of Silver Nanoparticles. <i>ACS Nano</i> , 2015, 9, 10431-10444.	7.3	70
72	Particle-Based Optical Sensing of Intracellular Ions at the Example of Calcium - What Are the Experimental Pitfalls?. <i>Small</i> , 2015, 11, 896-904.	5.2	27

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73	Dissecting the Molecular Mechanism of Apoptosis during Photothermal Therapy Using Gold Nanoprisms. ACS Nano, 2015, 9, 52-61.	7.3	336
74	In vitro interaction of colloidal nanoparticles with mammalian cells: What have we learned thus far?. Beilstein Journal of Nanotechnology, 2014, 5, 1477-1490.	1.5	130
75	Fluorescence-based ion-sensing with colloidal particles. Current Opinion in Pharmacology, 2014, 18, 98-103.	1.7	8
76	Integrated optical waveguide and nanoparticle based label-free molecular biosensing concepts. , 2014, , .		0
77	Protein corona formation around nanoparticles “ from the past to the future. Materials Horizons, 2014, 1, 301-313.	6.4	464
78	Interaction of stable colloidal nanoparticles with cellular membranes. Biotechnology Advances, 2014, 32, 679-692.	6.0	62
79	Metal ions in the context of nanoparticles toward biological applications. Current Opinion in Chemical Engineering, 2014, 4, 88-96.	3.8	28
80	The Challenge To Relate the Physicochemical Properties of Colloidal Nanoparticles to Their Cytotoxicity. Accounts of Chemical Research, 2013, 46, 743-749.	7.6	330
81	Design and Characterization of Functional Nanoparticles for Enhanced Bio-performance. Methods in Molecular Biology, 2013, 1051, 165-207.	0.4	1
82	Nanoprisms: Gold Nanoprisms as Optoacoustic Signal Nanoamplifiers for In Vivo Bioimaging of Gastrointestinal Cancers (Small 1/2013). Small, 2013, 9, 67-67.	5.2	2
83	Plasmonic-driven thermal sensing: ultralow detection of cancer markers. Chemical Communications, 2013, 49, 3676.	2.2	44
84	CuTe Nanocrystals: Shape and Size Control, Plasmonic Properties, and Use as SERS Probes and Photothermal Agents. Journal of the American Chemical Society, 2013, 135, 7098-7101.	6.6	403
85	Interfacing Engineered Nanoparticles with Biological Systems: Anticipating Adverse Nano“Bio Interactions. Small, 2013, 9, 1573-1584.	5.2	176
86	Gold Nanoprisms as Optoacoustic Signal Nanoamplifiers for In Vivo Bioimaging of Gastrointestinal Cancers. Small, 2013, 9, 68-74.	5.2	121
87	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. ACS Nano, 2012, 6, 8468-8483.	7.3	211
88	Tailoring the Synthesis and Heating Ability of Gold Nanoprisms for Bioapplications. Langmuir, 2012, 28, 8965-8970.	1.6	167
89	Hyperthermia Using Inorganic Nanoparticles. Frontiers of Nanoscience, 2012, , 309-335.	0.3	5
90	Synthesis Applications of Gold Nanoparticles. Frontiers of Nanoscience, 2012, , 3-33.	0.3	7

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91	Functionalized Fe ₃ O ₄ @Au superparamagnetic nanoparticles: <i>in vitro</i> bioactivity. <i>Nanotechnology</i> , 2012, 23, 315102.	1.3	44
92	Engineering biofunctional magnetic nanoparticles for biotechnological applications. <i>Nanoscale</i> , 2010, 2, 1746.	2.8	96
93	The effect of static magnetic fields and tat peptides on cellular and nuclear uptake of magnetic nanoparticles. <i>Biomaterials</i> , 2010, 31, 4392-4400.	5.7	68
94	Sterilization Matters: Consequences of Different Sterilization Techniques on Gold Nanoparticles. <i>Small</i> , 2010, 6, 89-95.	5.2	65
95	Asymmetric Negishi reaction for sterically hindered couplings: synthesis of chiral binaphthalenes. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 2593-2595.	1.8	39