Laura Rodriguez-Lorenzo

List of Publications by Year
in descending order

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69	5,226	147801	85541
papers	citations	31 h-index	71 g-index

73	73	73	9250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Choice of Nanoparticle Surfaceâ€Coupled Fluorescent Dyes Impacts Cellular Interaction. ChemNanoMat, 2022, 8, .	2.8	3
2	Impurities in polyvinylpyrrolidone: the key factor in the synthesis of gold nanostars. Nanoscale Advances, 2022, 4, 387-392.	4.6	2
3	Fundamentals of Biosensors and Detection Methods. Advances in Experimental Medicine and Biology, 2022, , 3-29.	1.6	5
4	Detection of Silver Nanoparticles in Seawater Using Surface-Enhanced Raman Scattering. Nanomaterials, 2021, 11, 1711.	4.1	6
5	A novel microfluidic system for the sensitive and cost-effective detection of okadaic acid in mussels. Analyst, The, 2021, 146, 2638-2645.	3.5	7
6	Are TiO₂ nanoparticles safe for photocatalysis in aqueous media?. Nanoscale Advances, 2020, 2, 4951-4960.	4.6	14
7	A SERS-based 3D nanobiosensor: towards cell metabolite monitoring. Materials Advances, 2020, 1, 1613-1621.	5.4	10
8	Improved Photocatalyzed Degradation of Phenol, as a Model Pollutant, over Metal-Impregnated Nanosized TiO2. Nanomaterials, 2020, 10, 996.	4.1	22
9	Particle Surfaces to Study Macrophage Adherence, Migration, and Clearance. Advanced Functional Materials, 2020, 30, 2002630.	14.9	6
10	Multifuntional Gold Nanoparticles for the SERS Detection of Pathogens Combined with a LAMPâ€“inâ€“Microdroplets Approach. Materials, 2020, 13, 1934.	2.9	28
11	A comparative study of silver nanoparticle dissolution under physiological conditions. Nanoscale Advances, 2020, 2, 5760-5768.	4.6	13
12	Microporous Plasmonic Capsules as Stable Molecular Sieves for Direct SERS Quantification of Small Pollutants in Natural Waters. ChemNanoMat, 2019, 5, 46-50.	2.8	31
13	Phase Transformation of Superparamagnetic Iron Oxide Nanoparticles via Thermal Annealing: Implications for Hyperthermia Applications. ACS Applied Nano Materials, 2019, 2, 4462-4470.	5.0	20
14	Gold Nanostars for the Detection of Foodborne Pathogens via Surface-Enhanced Raman Scattering Combined with Microfluidics. ACS Applied Nano Materials, 2019, 2, 6081-6086.	5.0	47
15	Nanoparticle administration method in cell culture alters particle-cell interaction. Scientific Reports, 2019, 9, 900.	3.3	65
16	A hydrofluoric acid-free method to dissolve and quantify silica nanoparticles in aqueous and solid matrices. Scientific Reports, 2019, 9, 7938.	3.3	28
17	Polymer-Coated Gold Nanospheres Do Not Impair the Innate Immune Function of Human B Lymphocytes in Vitro. ACS Nano, 2019, 13, 6790-6800.	14.6	23
18	Nanoparticle Behaviour in Complex Media: Methods for Characterizing Physicochemical Properties, Evaluating Protein Corona Formation, and Implications for Biological Studies. Nanoscience and Technology, 2019, , 101-150.	1.5	8

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19	Recyclable magnetic covalent organic framework for the extraction of marine biotoxins. Nanoscale, 2019, 11, 6072-6079.	5.6	57
20	Artificial Lysosomal Platform to Study Nanoparticle Long-term Stability. Chimia, 2019, 73, 55.	0.6	12
21	A Bio-Inspired Amplification Cascade for the Detection of Rare Cancer Cells. Chimia, 2019, 73, 63-68.	0.6	2
22	Quantification of Carbon Nanotube Doses in Adherent Cell Culture Assays Using UV-VIS-NIR Spectroscopy. Nanomaterials, 2019, 9, 1765.	4.1	11
23	Exposure to silver nanoparticles affects viability and function of natural killer cells, mostly via the release of ions. Cell Biology and Toxicology, 2018, 34, 167-176.	5.3	17
24	Revealing the Role of Epithelial Mechanics and Macrophage Clearance during Pulmonary Epithelial Injury Recovery in the Presence of Carbon Nanotubes. Advanced Materials, 2018, 30, e1806181.	21.0	10
25	Carbon nanodots: Opportunities and limitations to study their biodistribution at the human lung epithelial tissue barrier. Biointerphases, 2018, 13, 06D404.	1.6	7
26	A rational and iterative process for targeted nanoparticle design and validation. Colloids and Surfaces B: Biointerfaces, 2018, 171, 579-589.	5.0	6
27	Distribution of polymer-coated gold nanoparticles in a 3D lung model and indication of apoptosis after repeated exposure. Nanomedicine, 2018, 13, 1169-1185.	3.3	11
28	Interaction of biomedical nanoparticles with the pulmonary immune system. Journal of Nanobiotechnology, 2017, 15, 6.	9.1	45
29	Quantifying nanoparticle cellular uptake: which method is best?. Nanomedicine, 2017, 12, 1095-1099.	3.3	61
30	Assumption-free morphological quantification of single anisotropic nanoparticles and aggregates. Nanoscale, 2017, 9, 4918-4927.	5.6	6
31	Aerosol Delivery of Functionalized Gold Nanoparticles Target and Activate Dendritic Cells in a 3D Lung Cellular Model. ACS Nano, 2017, 11, 375-383.	14.6	55
32	Form Follows Function: Nanoparticle Shape and Its Implications for Nanomedicine. Chemical Reviews, 2017, 117, 11476-11521.	47.7	464
33	Assessing the Stability of Fluorescently Encoded Nanoparticles in Lysosomes by Using Complementary Methods. Angewandte Chemie, 2017, 129, 13567-13571.	2.0	2
34	Assessing the Stability of Fluorescently Encoded Nanoparticles in Lysosomes by Using Complementary Methods. Angewandte Chemie - International Edition, 2017, 56, 13382-13386.	13.8	22
35	Cellulose Nanocrystals with Tethered Polymer Chains: Chemically Patchy versus Uniform Decoration. ACS Macro Letters, 2017, 6, 892-897.	4.8	47
36	Biodistribution of single and aggregated gold nanoparticles exposed to the human lung epithelial tissue barrier at the air-liquid interface. Particle and Fibre Toxicology, 2017, 14, 49.	6.2	38

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37	Pulmonary delivery of cationic gold nanoparticles boost antigen-specific CD4 + T Cell Proliferation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1815-1826.	3.3	42
38	A new angle on dynamic depolarized light scattering: number-averaged size distribution of nanoparticles in focus. Nanoscale, 2016, 8, 15813-15821.	5.6	22
39	Decoupling the shape parameter to assess gold nanorod uptake by mammalian cells. Nanoscale, 2016, 8, 16416-16426.	5.6	23
40	Current in vitro approaches to assess nanoparticle interactions with lung cells. Nanomedicine, 2016, 11, 2457-2469.	3.3	31
41	Distribution of Silica-Coated Silver/Gold Nanostars in Soft- and Hardwood Applying SERS-Based Imaging. Langmuir, 2016, 32, 274-283.	3.5	9
42	Plasmonic nanoparticles and their characterization in physiological fluids. Colloids and Surfaces B: Biointerfaces, 2016, 137, 39-49.	5.0	35
43	Nanoparticle colloidal stability in cell culture media and impact on cellular interactions. Chemical Society Reviews, 2015, 44, 6287-6305.	38.1	771
44	Uptake efficiency of surface modified gold nanoparticles does not correlate with functional changes and cytokine secretion in human dendritic cells in vitro. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 633-644.	3.3	78
45	Characterizing nanoparticles in complex biological media and physiological fluids with depolarized dynamic light scattering. Nanoscale, 2015, 7, 5991-5997.	5.6	75
46	Translocation of gold nanoparticles across the lung epithelial tissue barrier: Combining in vitro and in silico methods to substitute in vivo experiments. Particle and Fibre Toxicology, 2015, 12, 18.	6.2	82
47	Nanoparticle Polydispersity Can Strongly Affect In Vitro Dose. Particle and Particle Systems Characterization, 2015, 32, 321-333.	2.3	30
48	Effect of engineered nanoparticles on natural killer cellsin vitro. , 2015, , .		1
49	Quantification of nanoparticles at the single-cell level: an overview about state-of-the-art techniques and their limitations. Nanomedicine, 2014, 9, 1885-1900.	3.3	60
50	Fluorescenceâ€Encoded Gold Nanoparticles: Library Design and Modulation of Cellular Uptake into Dendritic Cells. Small, 2014, 10, 1341-1350.	10.0	54
51	Encoded Particles: Fluorescence-Encoded Gold Nanoparticles: Library Design and Modulation of Cellular Uptake into Dendritic Cells (Small 7/2014). Small, 2014, 10, 1440-1440.	10.0	1
52	In vitro dosimetry of agglomerates. Nanoscale, 2014, 6, 7325-7331.	5.6	33
53	Dynamic Depolarized Light Scattering of Small Round Plasmonic Nanoparticles: When Imperfection is Only Perfect. Journal of Physical Chemistry C, 2014, 118, 17968-17974.	3.1	33
54	Surface-enhanced Raman scattering (SERS) nanoparticle sensors for biochemical and environmental sensing. , 2014, , 197-230.		2

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55	Multiplex optical sensing with surface-enhanced Raman scattering: A critical review. Analytica Chimica Acta, 2012, 745, 10-23.	5.4	130
56	Plasmonic nanosensors with inverse sensitivity by means of enzyme-guided crystal growth. Nature Materials, 2012, 11, 604-607.	27.5	395
57	Reversible assembly of metal nanoparticles induced by penicillamine. Dynamic formation of SERS hot spots. Journal of Materials Chemistry, 2011, 21, 16880.	6.7	77
58	Reshaping and LSPR tuning of Au nanostars in the presence of CTAB. Journal of Materials Chemistry, 2011, 21, 11544.	6.7	108
59	Intracellular mapping with SERS-encoded gold nanostars. Integrative Biology (United Kingdom), 2011, 3, 922.	1.3	127
60	Growth of Sharp Tips on Gold Nanowires Leads to Increased Surface-Enhanced Raman Scattering Activity. Journal of Physical Chemistry Letters, 2010, 1, 24-27.	4.6	74
61	Surface Enhanced Raman Scattering Using Star-Shaped Gold Colloidal Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 7336-7340.	3.1	224
62	Tuning Size and Sensing Properties in Colloidal Gold Nanostars. Langmuir, 2010, 26, 14943-14950.	3.5	447
63	Surface-enhanced Raman scattering biomedical applications of plasmonic colloidal particles. Journal of the Royal Society Interface, 2010, 7, S435-50.	3.4	180
64	SERS Study of the Controllable Release of Nitric Oxide from Aromatic Nitrosothiols on Bimetallic, Bifunctional Nanoparticles Supported on Carbon Nanotubes. ACS Applied Materials & Interfaces, 2009, 1, 56-59.	8.0	23
65	Design of SERS-Encoded, Submicron, Hollow Particles Through Confined Growth of Encapsulated Metal Nanoparticles. Journal of the American Chemical Society, 2009, 131, 2699-2705.	13.7	144
66	Bifunctional Nanocomposites with Long-Term Stability as SERS Optical Accumulators for Ultrasensitive Analysis. Journal of Physical Chemistry C, 2009, 113, 3373-3377.	3.1	68
67	Field gradient imaging of nanoparticle systems: analysis of geometry and surface coating effects. Nanotechnology, 2009, 20, 095708.	2.6	7
68	Label-free SERS detection of relevant bioanalytes on silver-coated carbon nanotubes: The case of cocaine. Nanoscale, 2009, 1, 153.	5.6	98
69	Zeptomol Detection Through Controlled Ultrasensitive Surface-Enhanced Raman Scattering. Journal of the American Chemical Society, 2009, 131, 4616-4618.	13.7	520