Dorleta Jimenez de Aberasturi

List of Publications by Year
in descending order

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45 papers	7,578 citations	270111 25 h-index	252626 46 g-index
47 all docs	47 docs citations	47 times ranked	14938 citing authors

#	Article	IF	Citations
1	Robust Encapsulation of Biocompatible Gold Nanosphere Assemblies for Bioimaging via Surface Enhanced Raman Scattering. Advanced Optical Materials, 2022, 10, .	3.6	5
2	SERS and Fluorescence-Active Multimodal Tessellated Scaffolds for Three-Dimensional Bioimaging. ACS Applied Materials & Interfaces, 2022, 14, 20708-20719.	4.0	15
3	Combination of Live Cell Surface-Enhanced Raman Scattering Imaging with Chemometrics to Study Intracellular Nanoparticle Dynamics. ACS Sensors, 2022, 7, 1747-1756.	4.0	7
4	SERSTEM: An app for the statistical analysis of correlative SERS and TEM imaging and evaluation of SERS tags performance. Journal of Raman Spectroscopy, 2021, 52, 355-365.	1.2	9
5	Nd³⁺-Doped Lanthanum Oxychloride Nanocrystals as Nanothermometers. Journal of Physical Chemistry C, 2021, 125, 19887-19896.	1.5	12
6	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	7.3	2,153
7	Live-Cell Surface-Enhanced Raman Spectroscopy Imaging of Intracellular pH: From Two Dimensions to Three Dimensions. ACS Sensors, 2020, 5, 3194-3206.	4.0	32
8	3Dâ€Printed Biocompatible Scaffolds with Builtâ€In Nanoplasmonic Sensors. Advanced Functional Materials, 2020, 30, 2005407.	7.8	24
9	Shielded Silver Nanorods for Bioapplications. Chemistry of Materials, 2020, 32, 5879-5889.	3.2	30
10	SERS-based immunoassay for monitoring cortisol-related disorders. Biosensors and Bioelectronics, 2020, 165, 112418.	5.3	32
11	Using SERS Tags to Image the Threeâ€Dimensional Structure of Complex Cell Models. Advanced Functional Materials, 2020, 30, 1909655.	7.8	44
12	Surface-Enhanced Raman Scattering Tags for Three-Dimensional Bioimaging and Biomarker Detection. ACS Sensors, 2019, 4, 1126-1137.	4.0	111
13	Encapsulation of Noble Metal Nanoparticles through Seeded Emulsion Polymerization as Highly Stable Plasmonic Systems. Advanced Functional Materials, 2019, 29, 1809071.	7.8	23
14	Size-Dependent Transport and Cytotoxicity of Mitomycin-Gold Nanoparticle Conjugates in 2D and 3D Mammalian Cell Models. Bioconjugate Chemistry, 2019, 30, 242-252.	1.8	17
15	Composite Polymer Colloids for SERSâ€Based Applications. Chemical Record, 2018, 18, 807-818.	2.9	23
16	Ion-Selective Ligands: How Colloidal Nano- and Micro-Particles Can Introduce New Functionalities. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1307-1317.	1.4	8
17	Anisotropic metal nanoparticles for surface enhanced Raman scattering. Chemical Society Reviews, 2017, 46, 3866-3885.	18.7	415
18	Janus plasmonicâ€“magnetic goldâ€“iron oxide nanoparticles as contrast agents for multimodal imaging. Nanoscale, 2017, 9, 9467-9480.	2.8	145

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19	Colloidal Gold Nanoparticles Induce Changes in Cellular and Subcellular Morphology. ACS Nano, 2017, 11, 7807-7820.	7.3	88
20	Spatial Analysis of Metalâ€“PLGA Hybrid Microstructures Using 3D SERS Imaging. Advanced Functional Materials, 2017, 27, 1701626.	7.8	37
21	Involvement of two uptake mechanisms of gold and iron oxide nanoparticles in a co-exposure scenario using mouse macrophages. Beilstein Journal of Nanotechnology, 2017, 8, 2396-2409.	1.5	18
22	Gold Nanostar-Coated Polystyrene Beads as Multifunctional Nanoprobes for SERS Bioimaging. Journal of Physical Chemistry C, 2016, 120, 20860-20868.	1.5	69
23	Surface Enhanced Raman Scattering Encoded Gold Nanostars for Multiplexed Cell Discrimination. Chemistry of Materials, 2016, 28, 6779-6790.	3.2	147
24	Some thoughts about the intracellular location of nanoparticles and the resulting consequences. Journal of Colloid and Interface Science, 2016, 482, 260-266.	5.0	19
25	Inulin coated plasmonic gold nanoparticles as a tumor-selective tool for cancer therapy. Journal of Materials Chemistry B, 2016, 4, 1150-1155.	2.9	47
26	Synthesis of Janus plasmonicâ€“magnetic, starâ€“sphere nanoparticles, and their application in SERS detection. Faraday Discussions, 2016, 191, 47-59.	1.6	58
27	Determining the exact number of dye molecules attached to colloidal CdSe/ZnS quantum dots in FÃ¶rster resonant energy transfer assemblies. Journal of Applied Physics, 2015, 117, 024701.	1.1	20
28	Modern Applications of Plasmonic Nanoparticles: From Energy to Health. Advanced Optical Materials, 2015, 3, 602-617.	3.6	209
29	In vivo integrity of polymer-coated gold nanoparticles. Nature Nanotechnology, 2015, 10, 619-623.	15.6	314
30	A General Method for Solvent Exchange of Plasmonic Nanoparticles and Self-Assembly into SERS-Active Monolayers. Langmuir, 2015, 31, 9205-9213.	1.6	119
31	Particle-Based Optical Sensing of Intracellular Ions at the Example of Calcium - What Are the Experimental Pitfalls?. Small, 2015, 11, 896-904.	5.2	27
32	Multiplexed measurements by time resolved spectroscopy using colloidal CdSe/ZnS quantum dots. Applied Physics Letters, 2014, 104, 041901.	1.5	19
33	R-MnO2 nanourchins: a promising catalyst in Li-O2 batteries. Materials Research Society Symposia Proceedings, 2014, 1643, 1.	0.1	1
34	Modeling Nanoparticleâ€“Alveolar Epithelial Cell Interactions under Breathing Conditions Using Captive Bubble Surfactometry. Langmuir, 2014, 30, 4924-4932.	1.6	19
35	Interaction of colloidal nanoparticles with their local environment: the (ionic) nanoenvironment around nanoparticles is different from bulk and determines the physico-chemical properties of the nanoparticles. Journal of the Royal Society Interface, 2014, 11, 20130931.	1.5	308
36	Microstructural improvements of the gradient composite material Pr0.6Sr0.4Fe0.8Co0.2O3/Ce0.8Sm0.2O1.9 by employing vertically aligned carbon nanotubes. International Journal of Hydrogen Energy, 2014, 39, 4074-4080.	3.8	3

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37	The Challenge To Relate the Physicochemical Properties of Colloidal Nanoparticles to Their Cytotoxicity. Accounts of Chemical Research, 2013, 46, 743-749.	7.6	330
38	Optical Sensing of Small Ions with Colloidal Nanoparticles. Chemistry of Materials, 2012, 24, 738-745.	3.2	60
39	Antibacterial properties of nanoparticles. Trends in Biotechnology, 2012, 30, 499-511.	4.9	2,113
40	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. ACS Nano, 2012, 6, 8468-8483.	7.3	211
41	Effect of the Strontium Content on the Electrochemical Performance of the Perovskite-Type Pr1-xSrxFe0.8Co0.2O3 Oxides. ECS Transactions, 2011, 35, 2183-2190.	0.3	2
42	A straightforward synthesis of carbon nanotubeâ€“perovskite composites for solid oxide fuel cells. Journal of Materials Chemistry, 2011, 21, 10273.	6.7	11
43	Recovery by hydrometallurgical extraction of the platinum-group metals from car catalytic converters. Minerals Engineering, 2011, 24, 505-513.	1.8	152
44	Pr-doped ceria nanoparticles as intermediate temperature ionic conductors. International Journal of Hydrogen Energy, 2011, 36, 10981-10990.	3.8	22
45	Synthesis of highly ordered three-dimensional nanostructures and the influence of the temperature on their application as solid oxide fuel cells cathodes. Journal of Power Sources, 2011, 196, 4174-4180.	4.0	12