

Dorleta Jimenez de Aberasturi

List of Publications by Year in descending order

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45
papers

7,578
citations

236925

25
h-index

223800

46
g-index

47
all docs

47
docs citations

47
times ranked

13201
citing authors

#	ARTICLE	IF	CITATIONS
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
2	Antibacterial properties of nanoparticles. Trends in Biotechnology, 2012, 30, 499-511.	9.3	2,113
3	Anisotropic metal nanoparticles for surface enhanced Raman scattering. Chemical Society Reviews, 2017, 46, 3866-3885.	38.1	415
4	The Challenge To Relate the Physicochemical Properties of Colloidal Nanoparticles to Their Cytotoxicity. Accounts of Chemical Research, 2013, 46, 743-749.	15.6	330
5	In vivo integrity of polymer-coated gold nanoparticles. Nature Nanotechnology, 2015, 10, 619-623.	31.5	314
6	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.	3.4	308
7	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. ACS Nano, 2012, 6, 8468-8483.	14.6	211
8	Modern Applications of Plasmonic Nanoparticles: From Energy to Health. Advanced Optical Materials, 2015, 3, 602-617.	7.3	209
9	Recovery by hydrometallurgical extraction of the platinum-group metals from car catalytic converters. Minerals Engineering, 2011, 24, 505-513.	4.3	152
10	Surface Enhanced Raman Scattering Encoded Gold Nanostars for Multiplexed Cell Discrimination. Chemistry of Materials, 2016, 28, 6779-6790.	6.7	147
11	Janus plasmonic-magnetic gold-iron oxide nanoparticles as contrast agents for multimodal imaging. Nanoscale, 2017, 9, 9467-9480.	5.6	145
12	A General Method for Solvent Exchange of Plasmonic Nanoparticles and Self-Assembly into SERS-Active Monolayers. Langmuir, 2015, 31, 9205-9213.	3.5	119
13	Surface-Enhanced Raman Scattering Tags for Three-Dimensional Bioimaging and Biomarker Detection. ACS Sensors, 2019, 4, 1126-1137.	7.8	111
14	Colloidal Gold Nanoparticles Induce Changes in Cellular and Subcellular Morphology. ACS Nano, 2017, 11, 7807-7820.	14.6	88
15	Gold Nanostar-Coated Polystyrene Beads as Multifunctional Nanoprobes for SERS Bioimaging. Journal of Physical Chemistry C, 2016, 120, 20860-20868.	3.1	69
16	Optical Sensing of Small Ions with Colloidal Nanoparticles. Chemistry of Materials, 2012, 24, 738-745.	6.7	60
17	Synthesis of Janus plasmonic-magnetic, star-sphere nanoparticles, and their application in SERS detection. Faraday Discussions, 2016, 191, 47-59.	3.2	58
18	Inulin coated plasmonic gold nanoparticles as a tumor-selective tool for cancer therapy. Journal of Materials Chemistry B, 2016, 4, 1150-1155.	5.8	47

#	ARTICLE	IF	CITATIONS
19	Using SERS Tags to Image the Three-Dimensional Structure of Complex Cell Models. <i>Advanced Functional Materials</i> , 2020, 30, 1909655.	14.9	44
20	Spatial Analysis of Metal-PLGA Hybrid Microstructures Using 3D SERS Imaging. <i>Advanced Functional Materials</i> , 2017, 27, 1701626.	14.9	37
21	Live-Cell Surface-Enhanced Raman Spectroscopy Imaging of Intracellular pH: From Two Dimensions to Three Dimensions. <i>ACS Sensors</i> , 2020, 5, 3194-3206.	7.8	32
22	SERS-based immunoassay for monitoring cortisol-related disorders. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112418.	10.1	32
23	Shielded Silver Nanorods for Bioapplications. <i>Chemistry of Materials</i> , 2020, 32, 5879-5889.	6.7	30
24	Particle-Based Optical Sensing of Intracellular Ions at the Example of Calcium - What Are the Experimental Pitfalls?. <i>Small</i> , 2015, 11, 896-904.	10.0	27
25	3D-Printed Biocompatible Scaffolds with Built-in Nanoplasmonic Sensors. <i>Advanced Functional Materials</i> , 2020, 30, 2005407.	14.9	24
26	Composite Polymer Colloids for SERS-Based Applications. <i>Chemical Record</i> , 2018, 18, 807-818.	5.8	23
27	Encapsulation of Noble Metal Nanoparticles through Seeded Emulsion Polymerization as Highly Stable Plasmonic Systems. <i>Advanced Functional Materials</i> , 2019, 29, 1809071.	14.9	23
28	Pr-doped ceria nanoparticles as intermediate temperature ionic conductors. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10981-10990.	7.1	22
29	Determining the exact number of dye molecules attached to colloidal CdSe/ZnS quantum dots in Förster resonant energy transfer assemblies. <i>Journal of Applied Physics</i> , 2015, 117, 024701.	2.5	20
30	Multiplexed measurements by time resolved spectroscopy using colloidal CdSe/ZnS quantum dots. <i>Applied Physics Letters</i> , 2014, 104, 041901.	3.3	19
31	Modeling Nanoparticle-Alveolar Epithelial Cell Interactions under Breathing Conditions Using Captive Bubble Surfactometry. <i>Langmuir</i> , 2014, 30, 4924-4932.	3.5	19
32	Some thoughts about the intracellular location of nanoparticles and the resulting consequences. <i>Journal of Colloid and Interface Science</i> , 2016, 482, 260-266.	9.4	19
33	Involvement of two uptake mechanisms of gold and iron oxide nanoparticles in a co-exposure scenario using mouse macrophages. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2396-2409.	2.8	18
34	Size-Dependent Transport and Cytotoxicity of Mitomycin-Gold Nanoparticle Conjugates in 2D and 3D Mammalian Cell Models. <i>Bioconjugate Chemistry</i> , 2019, 30, 242-252.	3.6	17
35	SERS and Fluorescence-Active Multimodal Tessellated Scaffolds for Three-Dimensional Bioimaging. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20708-20719.	8.0	15
36	Synthesis of highly ordered three-dimensional nanostructures and the influence of the temperature on their application as solid oxide fuel cells cathodes. <i>Journal of Power Sources</i> , 2011, 196, 4174-4180.	7.8	12

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37	Nd ³⁺ -Doped Lanthanum Oxide Nanocrystals as Nanothermometers. Journal of Physical Chemistry C, 2021, 125, 19887-19896.	3.1	12
38	A straightforward synthesis of carbon nanotube/perovskite composites for solid oxide fuel cells. Journal of Materials Chemistry, 2011, 21, 10273.	6.7	11
39	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.	2.5	9
40	Ion-Selective Ligands: How Colloidal Nano- and Micro-Particles Can Introduce New Functionalities. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1307-1317.	2.8	8
41	Combination of Live Cell Surface-Enhanced Raman Scattering Imaging with Chemometrics to Study Intracellular Nanoparticle Dynamics. ACS Sensors, 2022, 7, 1747-1756.	7.8	7
42	Robust Encapsulation of Biocompatible Gold Nanosphere Assemblies for Bioimaging via Surface Enhanced Raman Scattering. Advanced Optical Materials, 2022, 10, .	7.3	5
43	Microstructural improvements of the gradient composite material Pr _{0.6} Sr _{0.4} Fe _{0.8} Co _{0.2} O ₃ /Ce _{0.8} Sm _{0.2} O _{1.9} by employing vertically aligned carbon nanotubes. International Journal of Hydrogen Energy, 2014, 39, 4074-4080.	7.1	3
44	Effect of the Strontium Content on the Electrochemical Performance of the Perovskite-Type Pr _{1-x} Sr _x Fe _{0.8} Co _{0.2} O ₃ Oxides. ECS Transactions, 2011, 35, 2183-2190.	0.5	2
45	R-MnO ₂ nanorods: a promising catalyst in Li-O ₂ batteries. Materials Research Society Symposia Proceedings, 2014, 1643, 1.	0.1	1