

# Neus Bastus

## List of Publications by Citations

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69  
papers

4,714  
citations

29  
h-index

68  
g-index

73  
ext. papers

5,478  
ext. citations

7.6  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
69	Kinetically controlled seeded growth synthesis of citrate-stabilized gold nanoparticles of up to 200 nm: size focusing versus Ostwald ripening. <i>Langmuir</i> , <b>2011</b> , 27, 11098-105	4	1092
68	Synthesis of Highly Monodisperse Citrate-Stabilized Silver Nanoparticles of up to 200 nm: Kinetic Control and Catalytic Properties. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2836-2846	9.6	548
67	Size-Controlled Synthesis of Sub-10-nanometer Citrate-Stabilized Gold Nanoparticles and Related Optical Properties.. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1066-1075	9.6	294
66	Collective behaviour in two-dimensional cobalt nanoparticle assemblies observed by magnetic force microscopy. <i>Nature Materials</i> , <b>2004</b> , 3, 263-8	27	270
65	Nanoparticle-mediated local and remote manipulation of protein aggregation. <i>Nano Letters</i> , <b>2006</b> , 6, 110-5	11.5	256
64	Size-Dependent Protein-Nanoparticle Interactions in Citrate-Stabilized Gold Nanoparticles: The Emergence of the Protein Corona. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 88-97	6.3	184
63	Small Gold Nanoparticles Synthesized with Sodium Citrate and Heavy Water: Insights into the Reaction Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1800-1804	3.8	170
62	Homogeneous conjugation of peptides onto gold nanoparticles enhances macrophage response. <i>ACS Nano</i> , <b>2009</b> , 3, 1335-44	16.7	132
61	Formation of the Protein Corona: The Interface between Nanoparticles and the Immune System. <i>Seminars in Immunology</i> , <b>2017</b> , 34, 52-60	10.7	125
60	Little adjustments significantly improve the Turkevich synthesis of gold nanoparticles. <i>Langmuir</i> , <b>2014</b> , 30, 10779-84	4	118
59	Influence of the Sequence of the Reagents Addition in the Citrate-Mediated Synthesis of Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 15752-15757	3.8	112
58	Peptides conjugated to gold nanoparticles induce macrophage activation. <i>Molecular Immunology</i> , <b>2009</b> , 46, 743-8	4.3	109
57	Distribution and potential toxicity of engineered inorganic nanoparticles and carbon nanostructures in biological systems. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2008</b> , 27, 672-683	14.6	96
56	Quantifying the Sensitivity of Multipolar (Dipolar, Quadrupolar, and Octapolar) Surface Plasmon Resonances in Silver Nanoparticles: The Effect of Size, Composition, and Surface Coating. <i>Langmuir</i> , <b>2016</b> , 32, 290-300	4	80
55	Tunable plasmon coupling in distance-controlled gold nanoparticles. <i>Langmuir</i> , <b>2012</b> , 28, 8862-6	4	75
54	Hollow metal nanostructures for enhanced plasmonics: synthesis, local plasmonic properties and applications. <i>Nanophotonics</i> , <b>2017</b> , 6, 193-213	6.3	73
53	Effect of the spacer structure on the stability of gold nanoparticles functionalized with monodentate thiolated poly(ethylene glycol) ligands. <i>Langmuir</i> , <b>2013</b> , 29, 9897-908	4	66

52	Gold Nanoparticles and Microwave Irradiation Inhibit Beta-Amyloid Amyloidogenesis. <i>Nanoscale Research Letters</i> , <b>2008</b> , 3, 435-443	5	64
51	Seeded Growth Synthesis of Au@Fe <sub>3</sub> O <sub>4</sub> Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4022-4035	9.6	53
50	MOF-Beads Containing Inorganic Nanoparticles for the Simultaneous Removal of Multiple Heavy Metals from Water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10554-10562	9.5	53
49	Shuttling gold nanoparticles into tumoral cells with an amphipathic proline-rich peptide. <i>ChemBioChem</i> , <b>2009</b> , 10, 1025-31	3.8	45
48	Reactivity of engineered inorganic nanoparticles and carbon nanostructures in biological media. <i>Nanotoxicology</i> , <b>2008</b> , 2, 99-112	5.3	43
47	Probing the surface reactivity of nanocrystals by the catalytic degradation of organic dyes: the effect of size, surface chemistry and composition. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11917-11929 <sup>13</sup>	13	41
46	Tuning the Plasmonic Response up: Hollow Cuboid Metal Nanostructures. <i>ACS Photonics</i> , <b>2016</b> , 3, 770-779 <sup>3</sup>	13	36
45	Amphiphilic, cross-linkable diblock copolymers for multifunctionalized nanoparticles as biological probes. <i>Nanoscale</i> , <b>2013</b> , 5, 7433-44	7.7	36
44	Hepato(Geno)Toxicity Assessment of Nanoparticles in a HepG2 Liver Spheroid Model. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	34
43	Gold nanoparticles for selective and remote heating of Amyloid protein aggregates. <i>Materials Science and Engineering C</i> , <b>2007</b> , 27, 1236-1240	8.3	34
42	Enhanced reactivity of high-index surface platinum hollow nanocrystals. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 200-208	13	30
41	SERS efficiencies of micrometric polystyrene beads coated with gold and silver nanoparticles: the effect of nanoparticle size. <i>Journal of Optics (United Kingdom)</i> , <b>2015</b> , 17, 114012	1.7	29
40	In situ functionalization and PEO coating of iron oxide nanocrystals using seeded emulsion polymerization. <i>Langmuir</i> , <b>2013</b> , 29, 4915-21	4	24
39	Gold nanoparticles functionalized with a fragment of the neural cell adhesion molecule L1 stimulate L1-mediated functions. <i>Nanoscale</i> , <b>2013</b> , 5, 10605-17	7.7	22
38	Inorganic engineered nanoparticles and their impact on the immune response. <i>Current Drug Metabolism</i> , <b>2009</b> , 10, 895-904	3.5	22
37	Core-shell Au/CeO <sub>2</sub> nanoparticles supported in UiO-66 beads exhibiting full CO conversion at 100 °C. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13966-13970	13	21
36	A general route towards well-defined magneto- or fluorescent-plasmonic nanohybrids. <i>Nanoscale</i> , <b>2013</b> , 5, 11783-94	7.7	21
35	Time- and Size-Resolved Plasmonic Evolution with nm Resolution of Galvanic Replacement Reaction in AuAg Nanoshells Synthesis. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5098-5107	9.6	20

34	Radical Initiated Reactions on Biocompatible CdSe-Based Quantum Dots: Ligand Cross-Linking, Crystal Annealing, and Fluorescence Enhancement. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 8570-8578 <sup>3.8</sup>	20
33	Growth and reductive transformation of a gold shell around pyramidal cadmium selenide nanocrystals. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 10602	19
32	Addressing Nanomaterial Immunotoxicity by Evaluating Innate Immunity across Living Species. <i>Small</i> , <b>2020</b> , 16, e2000598	11 18
31	A lab-on-a-chip system with an embedded porous membrane-based impedance biosensor array for nanoparticle risk assessment on placental BeWo trophoblast cells. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 312, 127946	8.5 16
30	Nanosafety: Towards Safer Nanoparticles by Design. <i>Current Medicinal Chemistry</i> , <b>2018</b> , 25, 4587-4601	4.3 15
29	One-pot polyol synthesis of highly monodisperse short green silver nanorods. <i>Chemical Communications</i> , <b>2016</b> , 52, 10960-3	5.8 14
28	Microfluidic In Vitro Platform for (Nano)Safety and (Nano)Drug Efficiency Screening. <i>Small</i> , <b>2021</b> , 17, e2006012	11 13
27	The influence of the MOF shell thickness on the catalytic performance of composites made of inorganic (hollow) nanoparticles encapsulated into MOFs. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 8388-8391 <sup>5.5-12</sup>	5.5-12
26	Gold nanoparticles coated with polyvinylpyrrolidone and sea urchin extracellular molecules induce transient immune activation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123793	12.8 12
25	Fluorescently labelled nanomaterials in nanosafety research: Practical advice to avoid artefacts and trace unbound dye. <i>NanoImpact</i> , <b>2018</b> , 9, 102-113	5.6 12
24	Understanding galvanic replacement reactions: the case of Pt and Ag. <i>Materials Today Advances</i> , <b>2020</b> , 5, 100037	7.4 11
23	Plasmon-exciton interactions on single thermoresponsive platforms demonstrated by optical tweezers. <i>Nano Letters</i> , <b>2011</b> , 11, 4742-7	11.5 11
22	Dynamic Equilibrium in the Cetyltrimethylammonium Bromide-Au Nanoparticle Bilayer, and the Consequent Impact on the Formation of the Nanoparticle Protein Corona. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 2917-2930	6.3 10
21	Modeling the Optical Responses of Noble Metal Nanoparticles Subjected to Physicochemical Transformations in Physiological Environments: Aggregation, Dissolution and Oxidation. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2017</b> , 231,	3.1 9
20	Seeded-Growth Aqueous Synthesis of Colloidal-Stable Citrate-Stabilized Au/CeO <sub>2</sub> Hybrid Nanocrystals: Heterodimers, Core@Shell, and Clover- and Star-Like Structures. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7922-7932	9.6 9
19	Probing the immune responses to nanoparticles across environmental species. A perspective of the EU Horizon 2020 project PANDORA. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 3216-3232	7.1 9
18	Hollow PdAg-CeO heterodimer nanocrystals as highly structured heterogeneous catalysts. <i>Scientific Reports</i> , <b>2019</b> , 9, 18776	4.9 9
17	Robust one-pot synthesis of citrate-stabilized Au@CeO <sub>2</sub> hybrid nanocrystals with different thickness and dimensionality. <i>Applied Materials Today</i> , <b>2019</b> , 15, 445-452	6.6 7

16	Sequential Deconstruction-Reconstruction of Metal-Organic Frameworks: An Alternative Strategy for Synthesizing (Multi)-Layered ZIF Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23952-23960	9.5	6
15	Formation and evolution of the nanoparticle environmental corona: The case of Au and humic acid. <i>Science of the Total Environment</i> , <b>2021</b> , 768, 144792	10.2	6
14	Shell or Dots [Precursor Controlled Morphology of Au@Ag Deposits on CdSe Nanoparticles. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2704-2714	9.6	6
13	Exploring New Synthetic Strategies for the Production of Advanced Complex Inorganic Nanocrystals. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2015</b> , 229,	3.1	5
12	Mechanomodulation of Lipid Membranes by Weakly Aggregating Silver Nanoparticles. <i>Biochemistry</i> , <b>2019</b> , 58, 4761-4773	3.2	4
11	Analysis of time-dependent conjugation of gold nanoparticles with an antiparkinsonian molecule by using curve resolution methods. <i>Analytica Chimica Acta</i> , <b>2011</b> , 683, 170-7	6.6	4
10	Pharmacokinetics of PEGylated Gold Nanoparticles: In Vitro-In Vivo Correlation.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	4
9	Assessment of iron oxide nanoparticle ecotoxicity on regeneration and homeostasis in the replacement model system <i>Schmidtea mediterranea</i> . <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2019</b> , 36, 583-596	4.3	4
8	Introducing visible-light sensitivity into photocatalytic CeO nanoparticles by hybrid particle preparation exploiting plasmonic properties of gold: enhanced photoelectrocatalysis exemplified for hydrogen peroxide sensing. <i>Nanoscale</i> , <b>2021</b> , 13, 980-990	7.7	4
7	Antibody cooperative adsorption onto AuNPs and its exploitation to force natural killer cells to kill HIV-infected T cells. <i>Nano Today</i> , <b>2021</b> , 36, 101056-101056	17.9	4
6	One-Pot Synthesis of Cationic Gold Nanoparticles by Differential Reduction. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2017</b> , 231,	3.1	3
5	Characterizing Nanoparticles Reactivity: Structure-Photocatalytic Activity Relationship. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 429, 012040	0.3	3
4	Antibacterial Films Based on MOF Composites that Release Iodine Passively or Upon Triggering by Near-Infrared Light. <i>Advanced Functional Materials</i> , 2112902	15.6	3
3	Nanocrystal[Molecular Hybrids for the Photocatalytic Oxidation of Water. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10008-10014	6.1	3
2	Pathways Related to NLRP3 Inflammasome Activation Induced by Gold Nanorods. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5763	6.3	0
1	Increasing complexity of nanocrystals. <i>Nano Today</i> , <b>2020</b> , 32, 100859	17.9	