

# Eudald Casals

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65  
papers

4,599  
citations

31  
h-index

67  
g-index

79  
ext. papers

5,210  
ext. citations

6.8  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
65	Time evolution of the nanoparticle protein corona. <i>ACS Nano</i> , <b>2010</b> , 4, 3623-32	16.7	885
64	Evaluation of the ecotoxicity of model nanoparticles. <i>Chemosphere</i> , <b>2009</b> , 75, 850-7	8.4	360
63	Shape matters: effects of silver nanospheres and wires on human alveolar epithelial cells. <i>Particle and Fibre Toxicology</i> , <b>2011</b> , 8, 36	8.4	180
62	Hardening of the nanoparticle-protein corona in metal (Au, Ag) and oxide (Fe <sub>3</sub> O <sub>4</sub> , CoO, and CeO <sub>2</sub> ) nanoparticles. <i>Small</i> , <b>2011</b> , 7, 3479-86	11	174
61	Effect of cerium dioxide, titanium dioxide, silver, and gold nanoparticles on the activity of microbial communities intended in wastewater treatment. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 199-200, 64-72	12.8	173
60	Physicochemical characteristics of protein-NP bioconjugates: the role of particle curvature and solution conditions on human serum albumin conformation and fibrillogenesis inhibition. <i>Langmuir</i> , <b>2012</b> , 28, 9113-26	4	168
59	Acute toxicity of cerium oxide, titanium oxide and iron oxide nanoparticles using standardized tests. <i>Desalination</i> , <b>2011</b> , 269, 136-141	10.3	157
58	The oxidative potential of differently charged silver and gold nanoparticles on three human lung epithelial cell types. <i>Journal of Nanobiotechnology</i> , <b>2015</b> , 13, 1	9.4	148
57	Problems and challenges in the development and validation of human cell-based assays to determine nanoparticle-induced immunomodulatory effects. <i>Particle and Fibre Toxicology</i> , <b>2011</b> , 8, 8	8.4	142
56	Absence of Ce <sup>3+</sup> sites in chemically active colloidal ceria nanoparticles. <i>ACS Nano</i> , <b>2013</b> , 7, 10726-32	16.7	128
55	Synthesis of platinum cubes, polypods, cuboctahedrons, and raspberries assisted by cobalt nanocrystals. <i>Nano Letters</i> , <b>2010</b> , 10, 964-73	11.5	126
54	Chromium VI adsorption on cerium oxide nanoparticles and morphology changes during the process. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 184, 425-431	12.8	126
53	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
52	Cerium oxide nanoparticles reduce steatosis, portal hypertension and display anti-inflammatory properties in rats with liver fibrosis. <i>Journal of Hepatology</i> , <b>2016</b> , 64, 691-8	13.4	120
51	Programmed iron oxide nanoparticles disintegration in anaerobic digesters boosts biogas production. <i>Small</i> , <b>2014</b> , 10, 2801-8, 2741	11	114
50	Ecotoxicity of, and remediation with, engineered inorganic nanoparticles in the environment. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2011</b> , 30, 507-516	14.6	104
49	Use of CeO <sub>2</sub> , TiO <sub>2</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles for the removal of lead from water: Toxicity of nanoparticles and derived compounds. <i>Desalination</i> , <b>2011</b> , 277, 213-220	10.3	102

48	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
47	The suitability of different cellular in vitro immunotoxicity and genotoxicity methods for the analysis of nanoparticle-induced events. <i>Nanotoxicology</i> , <b>2010</b> , 4, 52-72	5.3	88
46	Inorganic nanoparticle biomolecular corona: formation, evolution and biological impact. <i>Nanomedicine</i> , <b>2012</b> , 7, 1917-30	5.6	70
45	Chitosan functionalisation of gold nanoparticles encourages particle uptake and induces cytotoxicity and pro-inflammatory conditions in phagocytic cells, as well as enhancing particle interactions with serum components. <i>Journal of Nanobiotechnology</i> , <b>2015</b> , 13, 84	9.4	62
44	Reactivity of inorganic nanoparticles in biological environments: insights into nanotoxicity mechanisms. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 443001	3	60
43	Bacterial endotoxin (lipopolysaccharide) binds to the surface of gold nanoparticles, interferes with biocorona formation and induces human monocyte inflammatory activation. <i>Nanotoxicology</i> , <b>2017</b> , 11, 1157-1175	5.3	55
42	Reactivity of engineered inorganic nanoparticles and carbon nanostructures in biological media. <i>Nanotoxicology</i> , <b>2008</b> , 2, 99-112	5.3	43
41	Engineered inorganic nanoparticles for drug delivery applications. <i>Current Drug Metabolism</i> , <b>2013</b> , 14, 518-30	3.5	43
40	Optimising the use of commercial LAL assays for the analysis of endotoxin contamination in metal colloids and metal oxide nanoparticles. <i>Nanotoxicology</i> , <b>2015</b> , 9, 462-73	5.3	42
39	Nanoparticle microinjection and Raman spectroscopy as tools for nanotoxicology studies. <i>Analyst, The</i> , <b>2011</b> , 136, 4402-8	5	41
38	Cerium Oxide Nanoparticles: Advances in Biodistribution, Toxicity, and Preclinical Exploration. <i>Small</i> , <b>2020</b> , 16, e1907322	11	38
37	Stimuli-responsive hybrid nanocarriers developed by controllable integration of hyperbranched PEI with mesoporous silica nanoparticles for sustained intracellular siRNA delivery. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 6591-6608	7.3	38
36	Intrinsic and Extrinsic Properties Affecting Innate Immune Responses to Nanoparticles: The Case of Cerium Oxide. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 970	8.4	31
35	Assessing the Immunosafety of Engineered Nanoparticles with a Novel in Vitro Model Based on Human Primary Monocytes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 28437-28447	9.5	31
34	Analyses in zebrafish embryos reveal that nanotoxicity profiles are dependent on surface-functionalization controlled penetrance of biological membranes. <i>Scientific Reports</i> , <b>2017</b> , 7, 8423	4.9	30
33	In vitro investigation of immunomodulatory effects caused by engineered inorganic nanoparticles □ the impact of experimental design and cell choice. <i>Nanotoxicology</i> , <b>2009</b> , 3, 46-59	5.3	30
32	Cancer resistance to treatment and antiresistance tools offered by multimodal multifunctional nanoparticles. <i>Cancer Nanotechnology</i> , <b>2017</b> , 8, 7	7.9	29
31	Toxicity of nickel in the marine calanoid copepod <i>Acartia tonsa</i> : Nickel chloride versus nanoparticles. <i>Aquatic Toxicology</i> , <b>2016</b> , 170, 1-12	5.1	28

30	Conserved effects and altered trafficking of Cetuximab antibodies conjugated to gold nanoparticles with precise control of their number and orientation. <i>Nanoscale</i> , <b>2017</b> , 9, 6111-6121	7.7	25
29	Assessment of a panel of interleukin-8 reporter lung epithelial cell lines to monitor the pro-inflammatory response following zinc oxide nanoparticle exposure under different cell culture conditions. <i>Particle and Fibre Toxicology</i> , <b>2015</b> , 12, 29	8.4	24
28	Beyond the Scavenging of Reactive Oxygen Species (ROS): Direct Effect of Cerium Oxide Nanoparticles in Reducing Fatty Acids Content in an In Vitro Model of Hepatocellular Steatosis. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	23
27	Potential use of CeO <sub>2</sub> , TiO <sub>2</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles for the removal of cadmium from water. <i>Desalination and Water Treatment</i> , <b>2012</b> , 41, 296-300		23
26	Preliminary study of phosphate adsorption onto cerium oxide nanoparticles for use in water purification; nanoparticles synthesis and characterization. <i>Water Science and Technology</i> , <b>2012</b> , 66, 503-9 <sup>2.2</sup>		22
25	Inorganic engineered nanoparticles and their impact on the immune response. <i>Current Drug Metabolism</i> , <b>2009</b> , 10, 895-904	3.5	22
24	Cerium oxide nanoparticles display antilipogenic effect in rats with non-alcoholic fatty liver disease. <i>Scientific Reports</i> , <b>2019</b> , 9, 12848	4.9	19
23	Gene expression profiles reveal distinct immunological responses of cobalt and cerium dioxide nanoparticles in two in vitro lung epithelial cell models. <i>Toxicology Letters</i> , <b>2014</b> , 228, 157-69	4.4	19
22	Cerium oxide nanoparticles improve liver regeneration after acetaminophen-induced liver injury and partial hepatectomy in rats. <i>Journal of Nanobiotechnology</i> , <b>2019</b> , 17, 112	9.4	17
21	Bespoken Nanoceria: An Effective Treatment in Experimental Hepatocellular Carcinoma. <i>Hepatology</i> , <b>2020</b> , 72, 1267-1282	11.2	15
20	Functionalized cerium oxide nanoparticles mitigate the oxidative stress and pro-inflammatory activity associated to the portal vein endothelium of cirrhotic rats. <i>PLoS ONE</i> , <b>2019</b> , 14, e0218716	3.7	12
19	Cerium Oxide Nanoparticles Protect against Oxidant Injury and Interfere with Oxidative Mediated Kinase Signaling in Human-Derived Hepatocytes. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	12
18	Characterization of modified mesoporous silica nanoparticles as vectors for siRNA delivery. <i>Asian Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 13, 592-599	9	11
17	Pharmacokinetics and Tissue Disposition of Nanosystem-Entrapped Betulin After Endotracheal Administration to Rats. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , <b>2017</b> , 42, 327-332	2.7	10
16	Cerium Oxide Nanoparticles: A New Therapeutic Tool in Liver Diseases. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	10
15	Mesoporous silica coated CeO nanozymes with combined lipid-lowering and antioxidant activity induce long-term improvement of the metabolic profile in obese Zucker rats. <i>Nanoscale</i> , <b>2021</b> , 13, 8452-8466	7.7	8
14	Biodistribution, Excretion, and Toxicity of Inorganic Nanoparticles <b>2019</b> , 3-26		7
13	The Interactions between Nanoparticles and the Innate Immune System from a Nanotechnologist Perspective. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	7

12	A Co-Doped FeO Nanozyme Shows Enhanced Reactive Oxygen and Nitrogen Species Scavenging Activity and Ameliorates the Deleterious Effects of Ischemic Stroke. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46213-46224	9.5	7
11	Simple spectroscopic determination of the hard protein corona composition in AuNPs: albumin at 75. <i>Nanoscale</i> , <b>2020</b> , 12, 15832-15844	7.7	5
10	Nano-immunosafety: issues in assay validation. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 304, 012077	0.3	5
9	Inorganic Nanoparticles and the Environment: Balancing Benefits and Risks. <i>Comprehensive Analytical Chemistry</i> , <b>2012</b> , 59, 265-290	1.9	4
8	Phase separation of a nonionic surfactant aqueous solution in a standing surface acoustic wave for submicron particle manipulation. <i>Lab on A Chip</i> , <b>2021</b> , 21, 660-667	7.2	4
7	The Reactivity of Colloidal Inorganic Nanoparticles <b>2012</b> ,		3
6	Characterizing Nanoparticles Reactivity: Structure-Photocatalytic Activity Relationship. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 429, 012040	0.3	3
5	Preclinical studies conducted on nanozyme antioxidants: shortcomings and challenges based on USFDA regulations. <i>Nanomedicine</i> , <b>2021</b> , 16, 1133-1151	5.6	3
4	Cerium Oxide Nanoparticles: Cerium Oxide Nanoparticles: Advances in Biodistribution, Toxicity, and Preclinical Exploration (Small 20/2020). <i>Small</i> , <b>2020</b> , 16, 2070111	11	2
3	Validation of a Gas Chromatography-Mass Spectrometry Method for the Measurement of the Redox State Metabolic Ratios Lactate/Pyruvate and $\beta$ -Hydroxybutyrate/Acetoacetate in Biological Samples. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
2	Circumventing Drug Treatment? Intrinsic Lethal Effects of Polyethyleneimine (PEI)-Functionalized Nanoparticles on Glioblastoma Cells Cultured in Stem Cell Conditions. <i>Cancers</i> , <b>2021</b> , 13,	6.6	2
1	Scalable synthesis of multicomponent multifunctional inorganic core@mesoporous silica shell nanocomposites. <i>Materials Science and Engineering C</i> , <b>2021</b> , 128, 112272	8.3	1