Victor Puntes

List of Publications by Citations

206 papers	17,742 citations	62 h-index	131 g-index
229 ext. papers	19,667 ext. citations	7.5 avg, IF	6.88 L-index

#	Paper	IF	Citations
206	Molecular rulers for scaling down nanostructures. *Science*, **2001**, 291, 1019-20	33.3	2241
205	Kinetically controlled seeded growth synthesis of citrate-stabilized gold nanoparticles of up to 200 nm: size focusing versus Ostwald ripening. *Langmuir*, **2011**, 27, 11098-105	4	1092
204	Time evolution of the nanoparticle protein corona. *ACS Nano*, **2010**, 4, 3623-32	16.7	885
203	Nanocrystalline CeO2 increases the activity of Au for CO oxidation by two orders of magnitude. *Angewandte Chemie - International Edition*, **2004**, 43, 2538-40	16.4	743
202	Diverse Applications of Nanomedicine. *ACS Nano*, **2017**, 11, 2313-2381	16.7	714
201	Synthesis of hcp-Co Nanodisks. *Journal of the American Chemical Society*, **2002**, 124, 12874-80	16.4	595
200	Synthesis of Highly Monodisperse Citrate-Stabilized Silver Nanoparticles of up to 200 nm: Kinetic Control and Catalytic Properties. *Chemistry of Materials*, **2014**, 26, 2836-2846	9.6	548
199	Carving at the nanoscale: sequential galvanic exchange and Kirkendall growth at room temperature. *Science*, **2011**, 334, 1377-80	33.3	521
198	Colloidal Nanocrystal Shape and Size Control: The Case of Cobalt. *Science*, **2001**, 291, 2115-2117	33.3	393
197	Evaluation of the ecotoxicity of model nanoparticles. *Chemosphere*, **2009**, 75, 850-7	8.4	360
196	Size-Controlled Synthesis of Sub-10-nanometer Citrate-Stabilized Gold Nanoparticles and Related Optical Properties.. *Chemistry of Materials*, **2016**, 28, 1066-1075	9.6	294
195	Synthesis, self-assembly, and magnetic behavior of a two-dimensional superlattice of single-crystal Co nanoparticles. *Applied Physics Letters*, **2001**, 78, 2187-2189	3.4	282
194	Vacancy coalescence during oxidation of iron nanoparticles. *Journal of the American Chemical Society*, **2007**, 129, 10358-60	16.4	270
193	Collective behaviour in two-dimensional cobalt nanoparticle assemblies observed by magnetic force microscopy. *Nature Materials*, **2004**, 3, 263-8	27	270
192	Correlating physico-chemical with toxicological properties of nanoparticles: the present and the future. *ACS Nano*, **2010**, 4, 5527-31	16.7	269
191	Nanoparticle-mediated local and remote manipulation of protein aggregation. *Nano Letters*, **2006**, 6, 110-5	11.5	256
190	Nanoparticles for imaging, sensing, and therapeutic intervention. *ACS Nano*, **2014**, 8, 3107-22	16.7	211

189	Coordination polymer particles as potential drug delivery systems. *Chemical Communications*, **2010**, 46, 4737-9	5.8	193
188	Size-Dependent Protein-Nanoparticle Interactions in Citrate-Stabilized Gold Nanoparticles: The Emergence of the Protein Corona. *Bioconjugate Chemistry*, **2017**, 28, 88-97	6.3	184
187	Shape matters: effects of silver nanospheres and wires on human alveolar epithelial cells. *Particle and Fibre Toxicology*, **2011**, 8, 36	8.4	180
186	Hardening of the nanoparticle-protein corona in metal (Au, Ag) and oxide (Fe3O4, CoO, and CeO2) nanoparticles. *Small*, **2011**, 7, 3479-86	11	174
185	Effect of cerium dioxide, titanium dioxide, silver, and gold nanoparticles on the activity of microbial communities intended in wastewater treatment. *Journal of Hazardous Materials*, **2012**, 199-200, 64-72	12.8	173
184	Small Gold Nanoparticles Synthesized with Sodium Citrate and Heavy Water: Insights into the Reaction Mechanism. *Journal of Physical Chemistry C*, **2010**, 114, 1800-1804	3.8	170
183	Physicochemical characteristics of protein-NP bioconjugates: the role of particle curvature and solution conditions on human serum albumin conformation and fibrillogenesis inhibition. *Langmuir*, **2012**, 28, 9113-26	4	168
182	Acute toxicity of cerium oxide, titanium oxide and iron oxide nanoparticles using standardized tests. *Desalination*, **2011**, 269, 136-141	10.3	157
181	Synthetic Insertion of Gold Nanoparticles into Mesoporous Silica. *Chemistry of Materials*, **2003**, 15, 1242-1248	9.4	157
180	Citrate-coated gold nanoparticles as smart scavengers for mercury(II) removal from polluted waters. *ACS Nano*, **2012**, 6, 2253-60	16.7	156
179	Encapsulation of Metal (Au, Ag, Pt) Nanoparticles into the Mesoporous SBA-15 Structure. *Langmuir*, **2003**, 19, 4396-4401	4	154
178	The oxidative potential of differently charged silver and gold nanoparticles on three human lung epithelial cell types. *Journal of Nanobiotechnology*, **2015**, 13, 1	9.4	148
177	Problems and challenges in the development and validation of human cell-based assays to determine nanoparticle-induced immunomodulatory effects. *Particle and Fibre Toxicology*, **2011**, 8, 8	8.4	142
176	Homogeneous conjugation of peptides onto gold nanoparticles enhances macrophage response. *ACS Nano*, **2009**, 3, 1335-44	16.7	132
175	Absence of Ce3+ sites in chemically active colloidal ceria nanoparticles. *ACS Nano*, **2013**, 7, 10726-32	16.7	128
174	Synthesis of platinum cubes, polypods, cuboctahedrons, and raspberries assisted by cobalt nanocrystals. *Nano Letters*, **2010**, 10, 964-73	11.5	126
173	Chromium VI adsorption on cerium oxide nanoparticles and morphology changes during the process. *Journal of Hazardous Materials*, **2010**, 184, 425-431	12.8	126
172	Formation of the Protein Corona: The Interface between Nanoparticles and the Immune System. *Seminars in Immunology*, **2017**, 34, 52-60	10.7	125

171	Common strategies and technologies for the ecosafety assessment and design of nanomaterials entering the marine environment. *ACS Nano*, **2014**, 8, 9694-709	16.7	123
170	Cerium oxide nanoparticles reduce steatosis, portal hypertension and display anti-inflammatory properties in rats with liver fibrosis. *Journal of Hepatology*, **2016**, 64, 691-8	13.4	120
169	Little adjustments significantly improve the Turkevich synthesis of gold nanoparticles. *Langmuir*, **2014**, 30, 10779-84	4	118
168	Programmed iron oxide nanoparticles disintegration in anaerobic digesters boosts biogas production. *Small*, **2014**, 10, 2801-8, 2741	11	114
167	Influence of the Sequence of the Reagents Addition in the Citrate-Mediated Synthesis of Gold Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 15752-15757	3.8	112
166	Peptides conjugated to gold nanoparticles induce macrophage activation. *Molecular Immunology*, **2009**, 46, 743-8	4.3	109
165	Instability of cationic gold nanoparticle bioconjugates: the role of citrate ions. *Journal of the American Chemical Society*, **2009**, 131, 13320-7	16.4	106
164	Ecotoxicity of, and remediation with, engineered inorganic nanoparticles in the environment. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 507-516	14.6	104
163	Critical review of existing nanomaterial adsorbents to capture carbon dioxide and methane. *Science of the Total Environment*, **2017**, 595, 51-62	10.2	102
162	Use of CeO2, TiO2 and Fe3O4 nanoparticles for the removal of lead from water: Toxicity of nanoparticles and derived compounds. *Desalination*, **2011**, 277, 213-220	10.3	102
161	Dipolar magnetism in ordered and disordered low-dimensional nanoparticle assemblies. *Scientific Reports*, **2013**, 3, 1234	4.9	101
160	Magnetic domains and surface effects in hollow maghemite nanoparticles. *Physical Review B*, **2009**, 79,	3.3	100
159	Distribution and potential toxicity of engineered inorganic nanoparticles and carbon nanostructures in biological systems. *TrAC - Trends in Analytical Chemistry*, **2008**, 27, 672-683	14.6	96
158	Facile preparation of cationic gold nanoparticle-bioconjugates for cell penetration and nuclear targeting. *ACS Nano*, **2012**, 6, 7692-702	16.7	92
157	Altered characteristics of silica nanoparticles in bovine and human serum: the importance of nanomaterial characterization prior to its toxicological evaluation. *Particle and Fibre Toxicology*, **2013**, 10, 56	8.4	90
156	The suitability of different cellular in vitro immunotoxicity and genotoxicity methods for the analysis of nanoparticle-induced events. *Nanotoxicology*, **2010**, 4, 52-72	5.3	88
155	Characterization and catalytic properties of cobalt supported on delaminated ITQ-6 and ITQ-2 zeolites for the Fischer□Tropsch synthesis reaction. *Journal of Catalysis*, **2004**, 228, 321-332	7.3	85
154	Nanocrystal Templating of Silica Mesopores with Tunable Pore Sizes. *Nano Letters*, **2002**, 2, 907-910	11.5	81

153	Quantifying the Sensitivity of Multipolar (Dipolar, Quadrupolar, and Octapolar) Surface Plasmon Resonances in Silver Nanoparticles: The Effect of Size, Composition, and Surface Coating. *Langmuir*, **2016**, 32, 290-300	4	80
152	Synthesis of Colloidal Cobalt Nanoparticles with Controlled Size and Shapes. *Topics in Catalysis*, **2002**, 19, 145-148	2.3	76
151	Hollow metal nanostructures for enhanced plasmonics: synthesis, local plasmonic properties and applications. *Nanophotonics*, **2017**, 6, 193-213	6.3	73
150	Inorganic nanoparticle biomolecular corona: formation, evolution and biological impact. *Nanomedicine*, **2012**, 7, 1917-30	5.6	70
149	Novel Two-Step Synthesis of Controlled Size and Shape Platinum Nanoparticles Encapsulated in Mesoporous Silica. *Catalysis Letters*, **2002**, 81, 137-140	2.8	70
148	Detoxifying antitumoral drugs via nanoconjugation: the case of gold nanoparticles and cisplatin. *PLoS ONE*, **2012**, 7, e47562	3.7	68
147	Gold Nanoparticles and Microwave Irradiation Inhibit Beta-Amyloid Amyloidogenesis. *Nanoscale Research Letters*, **2008**, 3, 435-443	5	64
146	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. *Journal of Nanobiotechnology*, **2015**, 13, 84	9.4	62
145	Reactivity of inorganic nanoparticles in biological environments: insights into nanotoxicity mechanisms. *Journal Physics D: Applied Physics*, **2012**, 45, 443001	3	60
144	Bacterial endotoxin (lipopolysaccharide) binds to the surface of gold nanoparticles, interferes with biocorona formation and induces human monocyte inflammatory activation. *Nanotoxicology*, **2017**, 11, 1157-1175	5.3	55
143	Seeded Growth Synthesis of Au□Fe3O4 Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. *Chemistry of Materials*, **2017**, 29, 4022-4035	9.6	53
142	MOF-Beads Containing Inorganic Nanoparticles for the Simultaneous Removal of Multiple Heavy Metals from Water. *ACS Applied Materials & Interfaces*, **2020**, 12, 10554-10562	9.5	53
141	Properties of silver nanoparticles influencing their uptake in and toxicity to the earthworm Lumbricus rubellus following exposure in soil. *Environmental Pollution*, **2016**, 218, 870-878	9.3	49
140	Shuttling gold nanoparticles into tumoral cells with an amphipathic proline-rich peptide. *ChemBioChem*, **2009**, 10, 1025-31	3.8	45
139	Rational nanoconjugation improves biocatalytic performance of enzymes: aldol addition catalyzed by immobilized rhamnulose-1-phosphate aldolase. *Langmuir*, **2012**, 28, 6461-7	4	43
138	Identifying Spinel Phases in Nearly Monodisperse Iron Oxide Colloidal Nanocrystal. *Journal of Physical Chemistry C*, **2009**, 113, 18667-18675	3.8	43
137	Reactivity of engineered inorganic nanoparticles and carbon nanostructures in biological media. *Nanotoxicology*, **2008**, 2, 99-112	5.3	43
136	Engineered inorganic nanoparticles for drug delivery applications. *Current Drug Metabolism*, **2013**, 14, 518-30	3.5	43

135	Confining Functional Nanoparticles into Colloidal Imine-Based COF Spheres by a Sequential Encapsulation-Crystallization Method. *Chemistry - A European Journal*, **2017**, 23, 8623-8627	4.8	42
134	Optimising the use of commercial LAL assays for the analysis of endotoxin contamination in metal colloids and metal oxide nanoparticles. *Nanotoxicology*, **2015**, 9, 462-73	5.3	42
133	Characterization of Nanoparticle Batch-To-Batch Variability. *Nanomaterials*, **2018**, 8,	5.4	42
132	Probing the surface reactivity of nanocrystals by the catalytic degradation of organic dyes: the effect of size, surface chemistry and composition. *Journal of Materials Chemistry A*, **2017**, 5, 11917-11929	13	41
131	Inter-laboratory comparison of nanoparticle size measurements using dynamic light scattering and differential centrifugal sedimentation. *NanoImpact*, **2018**, 10, 97-107	5.6	41
130	Nanoparticle microinjection and Raman spectroscopy as tools for nanotoxicology studies. *Analyst, The*, **2011**, 136, 4402-8	5	41
129	Cerium Oxide Nanoparticles: Advances in Biodistribution, Toxicity, and Preclinical Exploration. *Small*, **2020**, 16, e1907322	11	38
128	Synthesis, structural order and magnetic behavior of self-assembled /spl epsi/-Co nanocrystal arrays. *IEEE Transactions on Magnetics*, **2001**, 37, 2210-2212	2	38
127	CoFe□u granular alloys: From noninteracting particles to magnetic percolation. *Journal of Applied Physics*, **1999**, 85, 7328-7335	2.5	38
126	Tuning the Plasmonic Response up: Hollow Cuboid Metal Nanostructures. *ACS Photonics*, **2016**, 3, 770-776	6.3	36
125	Synthesis and evaluation of gold nanoparticle-modified polyelectrolyte capsules under microwave irradiation for remotely controlled release for cargo. *Journal of Materials Chemistry*, **2011**, 21, 11468		35
124	Hepato(Geno)Toxicity Assessment of Nanoparticles in a HepG2 Liver Spheroid Model. *Nanomaterials*, **2020**, 10,	5.4	34
123	Gold nanoparticles for selective and remote heating of □amyloid protein aggregates. *Materials Science and Engineering C*, **2007**, 27, 1236-1240	8.3	34
122	Pt nanocrystal evolution in the presence of Au(III)-salts at room temperature: spontaneous formation of AuPt heterodimers. *Journal of Materials Chemistry*, **2011**, 21, 11518		33
121	Spontaneous formation of hollow cobalt oxide nanoparticles by the Kirkendall effect at room temperature at the water-air interface. *Nanoscale*, **2013**, 5, 2429-36	7.7	32
120	Intrinsic and Extrinsic Properties Affecting Innate Immune Responses to Nanoparticles: The Case of Cerium Oxide. *Frontiers in Immunology*, **2017**, 8, 970	8.4	31
119	Interaction of differently functionalized fluorescent silica nanoparticles with neural stem- and tissue-type cells. *Nanotoxicology*, **2014**, 8 Suppl 1, 138-48	5.3	31
118	Assessing the Immunosafety of Engineered Nanoparticles with a Novel in Vitro Model Based on Human Primary Monocytes. *ACS Applied Materials & Interfaces*, **2016**, 8, 28437-28447	9.5	31

117	Enhanced reactivity of high-index surface platinum hollow nanocrystals. *Journal of Materials Chemistry A*, **2016**, 4, 200-208	13	30
116	In vitro investigation of immunomodulatory effects caused by engineered inorganic nanoparticles the impact of experimental design and cell choice. *Nanotoxicology*, **2009**, 3, 46-59	5.3	30
115	Cancer resistance to treatment and antiresistance tools offered by multimodal multifunctional nanoparticles. *Cancer Nanotechnology*, **2017**, 8, 7	7.9	29
114	SERS efficiencies of micrometric polystyrene beads coated with gold and silver nanoparticles: the effect of nanoparticle size. *Journal of Optics (United Kingdom)*, **2015**, 17, 114012	1.7	29
113	Toxicity of nickel in the marine calanoid copepod Acartia tonsa: Nickel chloride versus nanoparticles. *Aquatic Toxicology*, **2016**, 170, 1-12	5.1	28
112	Engineered nonviral nanocarriers for intracellular gene delivery applications. *Biomedical Materials (Bristol)*, **2012**, 7, 054106	3.5	27
111	Effects of Systematic Variation in Size and Surface Coating of Silver Nanoparticles on Their In Vitro Toxicity to Macrophage RAW 264.7 Cells. *Toxicological Sciences*, **2018**, 162, 79-88	4.4	26
110	Conserved effects and altered trafficking of Cetuximab antibodies conjugated to gold nanoparticles with precise control of their number and orientation. *Nanoscale*, **2017**, 9, 6111-6121	7.7	25
109	Dipolar driven spontaneous self assembly of superparamagnetic Co nanoparticles into micrometric rice-grain like structures. *Langmuir*, **2010**, 26, 109-16	4	25
108	Exploring the Limitations of the Use of Competing Reducers to Control the Morphology and Composition of Pt and PtCo Nanocrystals. *Chemistry of Materials*, **2010**, 22, 4495-4504	9.6	24
107	Synthesis and characterization of stabilized subnanometric cobalt metal particles. *Journal of the American Chemical Society*, **2005**, 127, 18026-30	16.4	24
106	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. *Biomolecules*, **2019**, 9,	5.9	23
105	Plasmonic assemblies of gold nanorods on nanoscale patterns of poly(ethylene glycol): Application in surface-enhanced Raman spectroscopy. *Journal of Colloid and Interface Science*, **2018**, 532, 449-455	9.3	23
104	Potential use of CeO2, TiO2 and Fe3O4 nanoparticles for the removal of cadmium from water. *Desalination and Water Treatment*, **2012**, 41, 296-300		23
103	Use of cerium oxide (CeO2) nanoparticles for the adsorption of dissolved cadmium (II), lead (II) and chromium (VI) at two different pHs in single and multi-component systems. *Global Nest Journal*, **2015**, 17, 536-543	1.4	23
102	Low-Cost Strategy for the Development of a Rapid Electrochemical Assay for Bacteria Detection Based on AuAg Nanoshells. *ACS Omega*, **2018**, 3, 18849-18856	3.9	23
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100	Preliminary study of phosphate adsorption onto cerium oxide nanoparticles for use in water purification; nanoparticles synthesis and characterization. *Water Science and Technology*, **2012**, 66, 503-9	2.2	22

99	Inorganic engineered nanoparticles and their impact on the immune response. *Current Drug Metabolism*, **2009**, 10, 895-904	3.5	22
98	Core□hell Au/CeO2 nanoparticles supported in UiO-66 beads exhibiting full CO conversion at 100 □C. *Journal of Materials Chemistry A*, **2017**, 5, 13966-13970	13	21
97	Time- and Size-Resolved Plasmonic Evolution with nm Resolution of Galvanic Replacement Reaction in AuAg Nanoshells Synthesis. *Chemistry of Materials*, **2018**, 30, 5098-5107	9.6	20
96	Aging reduces the toxicity of pristine but not sulphidised silver nanoparticles to soil bacteria. *Environmental Science: Nano*, **2018**, 5, 2618-2630	7.1	20
95	Cerium oxide nanoparticles display antilipogenic effect in rats with non-alcoholic fatty liver disease. *Scientific Reports*, **2019**, 9, 12848	4.9	19
94	Detection of resistance protein A (MxA) in paper-based immunoassays with surface enhanced Raman spectroscopy with AuAg nanoshells. *Nanoscale*, **2019**, 11, 10819-10827	7.7	19
93	Gene expression profiles reveal distinct immunological responses of cobalt and cerium dioxide nanoparticles in two in vitro lung epithelial cell models. *Toxicology Letters*, **2014**, 228, 157-69	4.4	19
92	Synthesis and self-assembled ring structures of Ni nanocrystals. *Journal of Colloid and Interface Science*, **2006**, 293, 430-6	9.3	19
91	Addressing Nanomaterial Immunosafety by Evaluating Innate Immunity across Living Species. *Small* , **2020**, 16, e2000598	11	18
90	Epigenetics in Breast Cancer Therapy-New Strategies and Future Nanomedicine Perspectives. *Cancers*, **2020**, 12,	6.6	17
89	Gold Nanoparticles Modulate BCG-Induced Innate Immune Memory in Human Monocytes by Shifting the Memory Response towards Tolerance. *Cells*, **2020**, 9,	7.9	17
88	Influence of Nanomaterial Compatibilization Strategies on Polyamide Nanocomposites Properties and Nanomaterial Release during the Use Phase. *Environmental Science & Technology*, **2016**, 50, 2584-94	10.3	17
87	Cerium oxide nanoparticles improve liver regeneration after acetaminophen-induced liver injury and partial hepatectomy in rats. *Journal of Nanobiotechnology*, **2019**, 17, 112	9.4	17
86	Monitoring migration and transformation of nanomaterials in polymeric composites during accelerated aging. *Journal of Physics: Conference Series*, **2013**, 429, 012044	0.3	17
85	A new synthetic route to produce metal zeolites with subnanometric magnetic clusters. *Chemical Communications*, **2004**, 1974-5	5.8	17
84	Assembly of Plasmonic Nanoparticles on Nanopatterns of Polymer Brushes Fabricated by Electrospin Nanolithography. *ACS Macro Letters*, **2017**, 6, 603-608	6.6	16
83	A lab-on-a-chip system with an embedded porous membrane-based impedance biosensor array for nanoparticle risk assessment on placental Bewo trophoblast cells. *Sensors and Actuators B: Chemical*, **2020**, 312, 127946	8.5	16
82	Enhanced detection with spectral imaging fluorescence microscopy reveals tissue- and cell-type-specific compartmentalization of surface-modified polystyrene nanoparticles. *Journal of Nanobiotechnology*, **2016**, 14, 55	9.4	16

81	Exploring release and recovery of nanomaterials from commercial polymeric nanocomposites. *Journal of Physics: Conference Series*, **2013**, 429, 012048	0.3	16
80	Low-Temperature Synthesis of CoO Nanoparticles via Chemically Assisted Oxidative Decarbonylation. *Chemistry of Materials*, **2008**, 20, 92-100	9.6	16
79	Bespoken Nanoceria: An Effective Treatment in Experimental Hepatocellular Carcinoma. *Hepatology*, **2020**, 72, 1267-1282	11.2	15
78	Peptides as capping ligands for in situ synthesis of water soluble Co nanoparticles for bioapplications. *Journal of Physics: Conference Series*, **2005**, 17, 70-76	0.3	15
77	Nanosafety: Towards Safer Nanoparticles by Design. *Current Medicinal Chemistry*, **2018**, 25, 4587-4601	4.3	15
76	Interaction of gold nanoparticles and nickel(II) sulfate affects dendritic cell maturation. *Nanotoxicology*, **2016**, 10, 1395-1403	5.3	14
75	What can nanotechnology do to fight cancer?. *Clinical and Translational Oncology*, **2006**, 8, 788-95	3.6	14
74	One-pot polyol synthesis of highly monodisperse short green silver nanorods. *Chemical Communications*, **2016**, 52, 10960-3	5.8	14
73	Internalization and toxicological mechanisms of uncoated and PVP-coated cerium oxide nanoparticles in the freshwater alga Chlamydomonas reinhardtii. *Environmental Science: Nano*, **2019**, 6, 1959-1972	7.1	13
72	Controlled positioning of nanoparticles on graphene by noninvasive AFM lithography. *Langmuir*, **2012**, 28, 12400-9	4	13
71	Microfluidic In Vitro Platform for (Nano)Safety and (Nano)Drug Efficiency Screening. *Small*, **2021**, 17, e2006012	11	13
70	Functionalized cerium oxide nanoparticles mitigate the oxidative stress and pro-inflammatory activity associated to the portal vein endothelium of cirrhotic rats. *PLoS ONE*, **2019**, 14, e0218716	3.7	12
69	The influence of the MOF shell thickness on the catalytic performance of composites made of inorganic (hollow) nanoparticles encapsulated into MOFs. *Catalysis Science and Technology*, **2016**, 6, 8388-8391	5.5	12
68	Influence of soil porewater properties on the fate and toxicity of silver nanoparticles to Caenorhabditis elegans. *Environmental Toxicology and Chemistry*, **2018**, 37, 2609-2618	3.8	12
67	Cerium Oxide Nanoparticles Protect against Oxidant Injury and Interfere with Oxidative Mediated Kinase Signaling in Human-Derived Hepatocytes. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	12
66	Gold nanoparticles coated with polyvinylpyrrolidone and sea urchin extracellular molecules induce transient immune activation. *Journal of Hazardous Materials*, **2021**, 402, 123793	12.8	12
65	Fluorescently labelled nanomaterials in nanosafety research: Practical advice to avoid artefacts and trace unbound dye. *NanoImpact*, **2018**, 9, 102-113	5.6	12
64	Kidney nanotoxicity studied in human renal proximal tubule epithelial cell line TH1. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2019**, 845, 403017	3	11

63	Understanding galvanic replacement reactions: the case of Pt and Ag. *Materials Today Advances*, **2020**, 5, 100037	7.4	11
62	Sustained effect of zero-valent iron nanoparticles under semi-continuous anaerobic digestion of sewage sludge: Evolution of nanoparticles and microbial community dynamics. *Science of the Total Environment*, **2021**, 777, 145969	10.2	11
61	Dynamic Equilibrium in the Cetyltrimethylammonium Bromide-Au Nanoparticle Bilayer, and the Consequent Impact on the Formation of the Nanoparticle Protein Corona. *Bioconjugate Chemistry*, **2019**, 30, 2917-2930	6.3	10
60	Exploring the binding of Pt drugs to gold nanoparticles for controlled passive release of cisplatin. *Journal of Controlled Release*, **2010**, 148, e31-2	11.7	10
59	Nucleation phenomenon in nanoparticle self-assemblies. *International Journal of Nanotechnology*, **2005**, 2, 62	1.5	10
58	Cerium Oxide Nanoparticles: A New Therapeutic Tool in Liver Diseases. *Antioxidants*, **2021**, 10,	7.1	10
57	In situ nanoremediation of soils and groundwaters from the nanoparticle standpoint: A review. *Science of the Total Environment*, **2021**, 791, 148324	10.2	10
56	Modeling the Optical Responses of Noble Metal Nanoparticles Subjected to Physicochemical Transformations in Physiological Environments: Aggregation, Dissolution and Oxidation. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231,	3.1	9
55	Seeded-Growth Aqueous Synthesis of Colloidal-Stable Citrate-Stabilized Au/CeO2 Hybrid Nanocrystals: Heterodimers, Core@Shell, and Clover- and Star-Like Structures. *Chemistry of Materials*, **2019**, 31, 7922-7932	9.6	9
54	Safer by design strategies. *Journal of Physics: Conference Series*, **2017**, 838, 012016	0.3	9
53	Probing the immune responses to nanoparticles across environmental species. A perspective of the EU Horizon 2020 project PANDORA. *Environmental Science: Nano*, **2020**, 7, 3216-3232	7.1	9
52	Paradigms to assess the human health risks of nano- and microplastics. *Microplastics and Nanoplastics*, **2021**, 1,		9
51	Hollow PdAg-CeO heterodimer nanocrystals as highly structured heterogeneous catalysts. *Scientific Reports*, **2019**, 9, 18776	4.9	9
50	Design and pharmacokinetical aspects for the use of inorganic nanoparticles in radiomedicine. *British Journal of Radiology*, **2016**, 89, 20150210	3.4	8
49	Tunable electrochemistry of gold-silver alloy nanoshells. *Nano Research*, **2018**, 11, 6336-6345	10	8
48	Domain Formation and Conformational Changes in Gold Nanoparticle Conjugates Studied Using DPD Simulations. *Langmuir*, **2017**, 33, 14502-14512	4	8
47	Mesoporous silica coated CeO nanozymes with combined lipid-lowering and antioxidant activity induce long-term improvement of the metabolic profile in obese Zucker rats. *Nanoscale*, **2021**, 13, 8452-8466	7.7	8
46	Biodistribution, Excretion, and Toxicity of Inorganic Nanoparticles **2019**, 3-26		7

45	Robust one-pot synthesis of citrate-stabilized Au@CeO2 hybrid nanocrystals with different thickness and dimensionality. *Applied Materials Today*, **2019**, 15, 445-452	6.6	7
44	Longitudinal domain wall formation in elongated assemblies of ferromagnetic nanoparticles. *Scientific Reports*, **2015**, 5, 14536	4.9	7
43	The Interactions between Nanoparticles and the Innate Immune System from a Nanotechnologist Perspective. *Nanomaterials*, **2021**, 11,	5.4	7
42	Impact of AgS NPs on soil bacterial community - A terrestrial mesocosm approach. *Ecotoxicology and Environmental Safety*, **2020**, 206, 111405	7	7
41	High Aspect Ratio Gold Nanorods Grown with Platinum Seeds. *Journal of Physical Chemistry C*, **2015**, 119, 11818-11825	3.8	6
40	Sequential Deconstruction-Reconstruction of Metal-Organic Frameworks: An Alternative Strategy for Synthesizing (Multi)-Layered ZIF Composites. *ACS Applied Materials & Interfaces*, **2018**, 10, 23952-23960	9.5	6
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38	The Role of PEG Conformation in Mixed Layers: From Protein Corona Substrate to Steric Stabilization Avoiding Protein Adsorption.. *ScienceOpen Research*,		6
37	Formation and evolution of the nanoparticle environmental corona: The case of Au and humic acid. *Science of the Total Environment*, **2021**, 768, 144792	10.2	6
36	Simple spectroscopic determination of the hard protein corona composition in AuNPs: albumin at 75. *Nanoscale*, **2020**, 12, 15832-15844	7.7	5
35	Exploring New Synthetic Strategies for the Production of Advanced Complex Inorganic Nanocrystals. *Zeitschrift Fur Physikalische Chemie*, **2015**, 229,	3.1	5
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