Carolina Carrillo-Carrion

List of Publications by Year
in descending order

68 papers	3,657 citations	172457 29 h-index	133252 59 g-index
69 all docs	69 docs citations	69 times ranked	6623 citing authors

#	Article	IF	Citations
1	Semiconductor and carbon-based fluorescent nanodots: the need for consistency. Chemical Communications, 2016, 52, 1311-1326.	4.1	389
2	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
3	Quantum dots luminescence enhancement due to illumination with UV/Vis light. Chemical Communications, 2009, , 5214.	4.1	282
4	Detection of gluten immunogenic peptides in the urine of patients with coeliac disease reveals transgressions in the gluten-free diet and incomplete mucosal healing. Gut, 2017, 66, 250-257.	12.1	233
5	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. Chemistry of Materials, 2017, 29, 399-461.	6.7	233
6	Water dispersible upconverting nanoparticles: effects of surface modification on their luminescence and colloidal stability. Nanoscale, 2015, 7, 1403-1410.	5.6	210
7	Rare earth based nanostructured materials: synthesis, functionalization, properties and bioimaging and biosensing applications. Nanophotonics, 2017, 6, 881-921.	6.0	137
8	Techniques for the experimental investigation of the protein corona. Current Opinion in Biotechnology, 2017, 46, 106-113.	6.6	126
9	In situ detection of the protein corona in complex environments. Nature Communications, 2017, 8, 1542.	12.8	117
10	Selective Quantification of Carnitine Enantiomers Using Chiral Cysteine-Capped CdSe(ZnS) Quantum Dots. Analytical Chemistry, 2009, 81, 4730-4733.	6.5	107
11	Aqueous Stable Gold Nanostar/ZIFâ€8 Nanocomposites for Lightâ€Triggered Release of Active Cargo Inside Living Cells. Angewandte Chemie - International Edition, 2019, 58, 7078-7082.	13.8	103
12	Photodynamic therapy: photosensitizers and nanostructures. Materials Chemistry Frontiers, 2021, 5, 3788-3812.	5.9	92
13	Analytical strategies based on quantum dots for heavy metal ions detection. Journal of Biomedical Optics, 2014, 19, 101503.	2.6	78
14	Colistin-functionalised CdSe/ZnS quantum dots as fluorescent probe for the rapid detection of Escherichia coli. Biosensors and Bioelectronics, 2011, 26, 4368-4374.	10.1	60
15	Synthesis and functionalization of monodisperse near-ultraviolet and visible excitable multifunctional Eu³⁺, Bi³⁺:REVO₄nanophosphors for bioimaging and biosensing applications. Nanoscale, 2016, 8, 12221-12236.	5.6	56
16	Gold-Based Nanomaterials for Applications in Nanomedicine. Topics in Current Chemistry, 2016, 370, 169-202.	4.0	56
17	Lignin, lipid, protein, hyaluronic acid, starch, cellulose, gum, pectin, alginate and chitosan-based nanomaterials for cancer nanotherapy: Challenges and opportunities. International Journal of Biological Macromolecules, 2021, 178, 193-228.	7.5	51
18	Luminescent Rare-earth-based Nanoparticles: A Summarized Overview of their Synthesis, Functionalization, and Applications. Topics in Current Chemistry, 2016, 374, 48.	5.8	47

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19	Liquidâ€“liquid extraction/headspace/gas chromatographic/mass spectrometric determination of benzene, toluene, ethylbenzene, (o-, m- and p-)xylene and styrene in olive oil using surfactant-coated carbon nanotubes as extractant. Journal of Chromatography A, 2007, 1171, 1-7.	3.7	46
20	Triple-Labeling of Polymer-Coated Quantum Dots and Adsorbed Proteins for Tracing their Fate in Cell Cultures. ACS Nano, 2019, 13, 4631-4639.	14.6	46
21	Surfactant-coated carbon nanotubes as pseudophases in liquidâ€“liquid extraction. Analyst, The, 2007, 132, 551-559.	3.5	45
22	Determination of Pyrimidine and Purine Bases by Reversed-Phase Capillary Liquid Chromatography with At-Line Surface-Enhanced Raman Spectroscopic Detection Employing a Novel SERS Substrate Based on ZnS/CdSe Silverâ€“Quantum Dots. Analytical Chemistry, 2011, 83, 9391-9398.	6.5	43
23	Determination of TNT explosive based on its selectively interaction with creatinine-capped CdSe/ZnS quantum dots. Analytica Chimica Acta, 2013, 792, 93-100.	5.4	42
24	One-Step Synthesis and Characterization of N-Doped Carbon Nanodots for Sensing in Organic Media. Analytical Chemistry, 2016, 88, 3178-3185.	6.5	39
25	Capillary Electrophoresis Method for the Characterization and Separation of CdSe Quantum Dots. Analytical Chemistry, 2011, 83, 2807-2813.	6.5	38
26	Taking Advantage of Hydrophobic Fluorine Interactions for Selfâ€Assembled Quantum Dots as a Delivery Platform for Enzymes. Angewandte Chemie - International Edition, 2018, 57, 5033-5036.	13.8	38
27	Calix[8]arene Coated CdSe/ZnS Quantum Dots as C₆₀-Nanosensor. Analytical Chemistry, 2011, 83, 8093-8100.	6.5	37
28	Nanoscale metalâ€“organic frameworks as key players in the context of drug delivery: evolution toward theranostic platforms. Analytical and Bioanalytical Chemistry, 2020, 412, 37-54.	3.7	35
29	Core-Shell Palladium/MOF Platforms as Diffusion-Controlled Nanoreactors in Living Cells and Tissue Models. Cell Reports Physical Science, 2020, 1, 100076.	5.6	35
30	Carbon nanotubeâ€“quantum dot nanocomposites as new fluorescence nanoparticles for the determination of trace levels of PAHs in water. Analytica Chimica Acta, 2009, 652, 278-284.	5.4	30
31	(CdSe/ZnS QDs)-ionic liquid-based headspace single drop microextraction for the fluorimetric determination of trimethylamine in fish. Analyst, The, 2012, 137, 1152.	3.5	29
32	Determination of pesticides by capillary chromatography and SERS detection using a novel Silver-Quantum dots â€œspongeâ€•nanocomposite. Journal of Chromatography A, 2012, 1225, 55-61.	3.7	29
33	Metal ions in the context of nanoparticles toward biological applications. Current Opinion in Chemical Engineering, 2014, 4, 88-96.	7.8	28
34	Particle-Based Optical Sensing of Intracellular Ions at the Example of Calcium - What Are the Experimental Pitfalls?. Small, 2015, 11, 896-904.	10.0	27
35	Rapid fluorescence determination of diquat herbicide in food grains using quantum dots as new reducing agent. Analytica Chimica Acta, 2011, 692, 103-108.	5.4	24
36	Vanguard/rearguard strategy for the evaluation of the degradation of yoghurt samples based on the direct analysis of the volatiles profile through headspace-gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2007, 1141, 98-105.	3.7	22

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37	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.	2.5	20
38	Plasmonic-Assisted Thermocyclizations in Living Cells Using Metalâ€“Organic Framework Based Nanoreactors. ACS Nano, 2021, 15, 16924-16933.	14.6	20
39	Cyclodextrin-modified nanodiamond for the sensitive fluorometric determination of doxorubicin in urine based on its differential affinity towards Î²/Î³-cyclodextrins. Mikrochimica Acta, 2018, 185, 115.	5.0	19
40	Novel fluorinated ligands for gold nanoparticle labelling with applications in ¹⁹F-MRI. Chemical Communications, 2017, 53, 2447-2450.	4.1	18
41	Design of pyridyl-modified amphiphilic polymeric ligands: Towards better passivation of water-soluble colloidal quantum dots for improved optical performance. Journal of Colloid and Interface Science, 2016, 478, 88-96.	9.4	17
42	Biodegradation of Bi-Labeled Polymer-Coated Rare-Earth Nanoparticles in Adherent Cell Cultures. Chemistry of Materials, 2020, 32, 245-254.	6.7	16
43	Principles of qualitative analysis in the chromatographic context. Journal of Chromatography A, 2007, 1158, 234-240.	3.7	15
44	FÃ¶rster resonance energy transfer mediated enhancement of the fluorescence lifetime of organic fluorophores to the millisecond range by coupling to Mn-doped CdS/ZnS quantum dots. Nanotechnology, 2016, 27, 055101.	2.6	15
45	Aqueous Stable Gold Nanostar/ZIFâ€8 Nanocomposites for Lightâ€Triggered Release of Active Cargo Inside Living Cells. Angewandte Chemie, 2019, 131, 7152-7156.	2.0	15
46	Toward Diffusion Measurements of Colloidal Nanoparticles in Biological Environments by Nuclear Magnetic Resonance. Small, 2020, 16, e2001160.	10.0	15
47	Molecular Bottom-Up Approaches for the Synthesis of Inorganic and Hybrid Nanostructures. Inorganics, 2021, 9, 58.	2.7	15
48	Aqueous stable luminescent perovskite-polymer composites. Applied Materials Today, 2019, 15, 562-569.	4.3	13
49	Quantification of DNT isomers by capillary liquid chromatography using at-line SERS detection or multivariate analysis of SERS spectra of DNT isomer mixtures. Journal of Raman Spectroscopy, 2012, 43, 998-1002.	2.5	12
50	Optical sensing by integration of analyte-sensitive fluorophore to particles. TrAC - Trends in Analytical Chemistry, 2016, 84, 84-96.	11.4	11
51	Surfaceâ€Active Fluorinated Quantum Dots for Enhanced Cellular Uptake. Chemistry - A European Journal, 2019, 25, 195-199.	3.3	10
52	Exploiting the Potential of Biosilica from Rice Husk as Porous Support for Catalytically Active Iron Oxide Nanoparticles. Nanomaterials, 2021, 11, 1259.	4.1	10
53	Determination of the ratio of fluorophore/nanoparticle for fluorescence-labelled nanoparticles. Analyst, The, 2016, 141, 1266-1272.	3.5	9
54	Multiplexed Fluorophore-Nanoparticle Hybrids for Extending the Range of pH Measurements. Small Methods, 2017, 1, 1700153.	8.6	9

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55	Fluorescence-based ion-sensing with colloidal particles. Current Opinion in Pharmacology, 2014, 18, 98-103.	3.5	8
56	Taking Advantage of Hydrophobic Fluorine Interactions for Selfâ€Assembled Quantum Dots as a Delivery Platform for Enzymes. Angewandte Chemie, 2018, 130, 5127-5130.	2.0	8
57	Fluorinated CdSe/ZnS quantum dots: Interactions with cell membrane. Colloids and Surfaces B: Biointerfaces, 2019, 173, 148-154.	5.0	8
58	Exploring the potential of biomass-templated Nb/ZnO nanocatalysts for the sustainable synthesis of N-heterocycles. Catalysis Today, 2021, 368, 243-249.	4.4	8
59	Rapid, Effective, and Versatile Extraction of Gluten in Food with Application on Different Immunological Methods. Foods, 2021, 10, 652.	4.3	8
60	Nanoparticle behavior and stability in biological environments. , 2020, , 5-18.		7
61	Mechanochemical Synthesis of Nickel-Modified Metalâ€“Organic Frameworks for Reduction Reactions. Catalysts, 2021, 11, 526.	3.5	7
62	Core-shell iron oxide@cathecol-polymer@palladium/copper nanocomposites as efficient and sustainable catalysts in cross-coupling reactions. Molecular Catalysis, 2020, 493, 111042.	2.0	6
63	Study of Fluorinated Quantum Dots-Protein Interactions at the Oil/Water Interface by Interfacial Surface Tension Changes. Materials, 2018, 11, 750.	2.9	5
64	Luminescent rare earth vanadate nanoparticles doped with Eu³⁺and Bi³for sensing and imaging applications. Proceedings of SPIE, 2016, , .	0.8	4
65	Selectivity Control in the Oxidative Ring-Opening of Dimethylfuran Mediated by Zeolitic-Imidazolate Framework-8 Nanoparticles. ACS Sustainable Chemistry and Engineering, 2021, 9, 8090-8096.	6.7	4
66	Determination of amines based on their interaction with QDs: Effect of the formation QD-assemblies. Analytica Chimica Acta, 2011, 703, 212-218.	5.4	3
67	Metal doping of porous materials via a post-synthetic mechano-chemical approach: a general route to design low-loaded versatile catalytic systems. Catalysis Science and Technology, 2021, 11, 2103-2109.	4.1	2
68	In Vitro Cellular Uptake Studies of Self-Assembled Fluorinated Nanoparticles Labelled with Antibodies. Nanomaterials, 2021, 11, 1906.	4.1	1