# Carolina Carrillo-Carrion

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | Photodynamic therapy: photosensitizers and nanostructures. Materials Chemistry Frontiers, 2021, 5, 3788-3812. | 5.9 | 92 |
| 3 | 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 |
| 4 | Rapid, Effective, and Versatile Extraction of Gluten in Food with Application on Different Immunological Methods. Foods, 2021, 10, 652. | 4.3 | 8 |
| 5 | Mechanochemical Synthesis of Nickel-Modified Metalâ€“Organic Frameworks for Reduction Reactions. Catalysts, 2021, 11, 526. | 3.5 | 7 |
| 6 | Exploiting the Potential of Biosilica from Rice Husk as Porous Support for Catalytically Active Iron Oxide Nanoparticles. Nanomaterials, 2021, 11, 1259. | 4.1 | 10 |
| 7 | 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 |
| 8 | 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 |
| 9 | In Vitro Cellular Uptake Studies of Self-Assembled Fluorinated Nanoparticles Labelled with Antibodies. Nanomaterials, 2021, 11, 1906. | 4.1 | 1 |
| 10 | Molecular Bottom-Up Approaches for the Synthesis of Inorganic and Hybrid Nanostructures. Inorganics, 2021, 9, 58. | 2.7 | 15 |
| 11 | Plasmonic-Assisted Thermocyclizations in Living Cells Using Metalâ€“Organic Framework Based Nanoreactors. ACS Nano, 2021, 15, 16924-16933. | 14.6 | 20 |
| 12 | 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 |
| 13 | Biodegradation of Bi-Labeled Polymer-Coated Rare-Earth Nanoparticles in Adherent Cell Cultures. Chemistry of Materials, 2020, 32, 245-254. | 6.7 | 16 |
| 14 | Nanoparticle behavior and stability in biological environments. , 2020, , 5-18. | | 7 |
| 15 | 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 |
| 16 | Toward Diffusion Measurements of Colloidal Nanoparticles in Biological Environments by Nuclear Magnetic Resonance. Small, 2020, 16, e2001160. | 10.0 | 15 |
| 17 | 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 |
| 18 | Aqueous stable luminescent perovskite-polymer composites. Applied Materials Today, 2019, 15, 562-569. | 4.3 | 13 |

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|---|---|---|---|
| 19 | 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 |
| 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 | 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 |
| 22 | Fluorinated CdSe/ZnS quantum dots: Interactions with cell membrane. Colloids and Surfaces B: Biointerfaces, 2019, 173, 148-154. | 5.0 | 8 |
| 23 | Surfaceâ€Active Fluorinated Quantum Dots for Enhanced Cellular Uptake. Chemistry - A European Journal, 2019, 25, 195-199. | 3.3 | 10 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | Study of Fluorinated Quantum Dots-Protein Interactions at the Oil/Water Interface by Interfacial Surface Tension Changes. Materials, 2018, 11, 750. | 2.9 | 5 |
| 28 | 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 |
| 29 | Novel fluorinated ligands for gold nanoparticle labelling with applications in <sup>19</sup>F-MRI. Chemical Communications, 2017, 53, 2447-2450. | 4.1 | 18 |
| 30 | Techniques for the experimental investigation of the protein corona. Current Opinion in Biotechnology, 2017, 46, 106-113. | 6.6 | 126 |
| 31 | Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. Chemistry of Materials, 2017, 29, 399-461. | 6.7 | 233 |
| 32 | In situ detection of the protein corona in complex environments. Nature Communications, 2017, 8, 1542. | 12.8 | 117 |
| 33 | Multiplexed Fluorophore-Nanoparticle Hybrids for Extending the Range of pH Measurements. Small Methods, 2017, 1, 1700153. | 8.6 | 9 |
| 34 | Rare earth based nanostructured materials: synthesis, functionalization, properties and bioimaging and biosensing applications. Nanophotonics, 2017, 6, 881-921. | 6.0 | 137 |
| 35 | Synthesis and functionalization of monodisperse near-ultraviolet and visible excitable multifunctional Eu<sup>3+</sup>, Bi<sup>3+</sup>:REVO<sub>4</sub>nanophosphors for bioimaging and biosensing applications. Nanoscale, 2016, 8, 12221-12236. | 5.6 | 56 |
| 36 | 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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|---|---|---|---|
| 37 | Optical sensing by integration of analyte-sensitive fluorophore to particles. TrAC - Trends in Analytical Chemistry, 2016, 84, 84-96. | 11.4 | 11 |
| 38 | 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 |
| 39 | One-Step Synthesis and Characterization of N-Doped Carbon Nanodots for Sensing in Organic Media. Analytical Chemistry, 2016, 88, 3178-3185. | 6.5 | 39 |
| 40 | Luminescent rare earth vanadate nanoparticles doped with Eu<sup>3+</sup>and Bi<sup>3</sup>for sensing and imaging applications. Proceedings of SPIE, 2016, , . | 0.8 | 4 |
| 41 | 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 |
| 42 | Determination of the ratio of fluorophore/nanoparticle for fluorescence-labelled nanoparticles. Analyst, The, 2016, 141, 1266-1272. | 3.5 | 9 |
| 43 | Gold-Based Nanomaterials for Applications in Nanomedicine. Topics in Current Chemistry, 2016, 370, 169-202. | 4.0 | 56 |
| 44 | Semiconductor and carbon-based fluorescent nanodots: the need for consistency. Chemical Communications, 2016, 52, 1311-1326. | 4.1 | 389 |
| 45 | 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 |
| 46 | 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 |
| 47 | Water dispersible upconverting nanoparticles: effects of surface modification on their luminescence and colloidal stability. Nanoscale, 2015, 7, 1403-1410. | 5.6 | 210 |
| 48 | Fluorescence-based ion-sensing with colloidal particles. Current Opinion in Pharmacology, 2014, 18, 98-103. | 3.5 | 8 |
| 49 | Analytical strategies based on quantum dots for heavy metal ions detection. Journal of Biomedical Optics, 2014, 19, 101503. | 2.6 | 78 |
| 50 | Metal ions in the context of nanoparticles toward biological applications. Current Opinion in Chemical Engineering, 2014, 4, 88-96. | 7.8 | 28 |
| 51 | 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 |
| 52 | 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 |
| 53 | (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 |
| 54 | 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 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Calix[8]arene Coated CdSe/ZnS Quantum Dots as C<sub>60</sub>-Nanosensor. Analytical Chemistry, 2011, 83, 8093-8100. | 6.5 | 37 |
| 57 | 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 |
| 58 | Capillary Electrophoresis Method for the Characterization and Separation of CdSe Quantum Dots. Analytical Chemistry, 2011, 83, 2807-2813. | 6.5 | 38 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | Quantum dots luminescence enhancement due to illumination with UV/Vis light. Chemical Communications, 2009, , 5214. | 4.1 | 282 |
| 64 | Selective Quantification of Carnitine Enantiomers Using Chiral Cysteine-Capped CdSe(ZnS) Quantum Dots. Analytical Chemistry, 2009, 81, 4730-4733. | 6.5 | 107 |
| 65 | Surfactant-coated carbon nanotubes as pseudophases in liquidâ€“liquid extraction. Analyst, The, 2007, 132, 551-559. | 3.5 | 45 |
| 66 | 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 |
| 67 | Principles of qualitative analysis in the chromatographic context. Journal of Chromatography A, 2007, 1158, 234-240. | 3.7 | 15 |
| 68 | 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 |