

# Maria Fernandez-arguelles

## List of Publications by Year in descending order

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43  
papers

1,738  
citations

393982

19  
h-index

360668

35  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2458  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoactivated luminescent CdSe quantum dots as sensitive cyanide probes in aqueous solutions. <i>Chemical Communications</i> , 2005, , 883-885.	2.2	294
2	Surface-modified CdSe quantum dots for the sensitive and selective determination of Cu(II) in aqueous solutions by luminescent measurements. <i>Analytica Chimica Acta</i> , 2005, 549, 20-25.	2.6	191
3	Synthesis and Characterization of Polymer-Coated Quantum Dots with Integrated Acceptor Dyes as FRET-Based Nanoprobes. <i>Nano Letters</i> , 2007, 7, 2613-2617.	4.5	173
4	Green synthesis of fluorescent carbon dots from spices for in vitro imaging and tumour cell growth inhibition. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 530-544.	1.5	139
5	Nanoparticles as fluorescent labels for optical imaging and sensing in genomics and proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 29-42.	1.9	114
6	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). <i>Journal of Materials Chemistry</i> , 2007, 17, 1343-1346.	6.7	108
7	Mn-doped ZnS quantum dots for the determination of acetone by phosphorescence attenuation. <i>Analytica Chimica Acta</i> , 2012, 712, 120-126.	2.6	81
8	Influence of Mn <sup>2+</sup> concentration on Mn <sup>2+</sup> -doped ZnS quantum dot synthesis: evaluation of the structural and photoluminescent properties. <i>Nanoscale</i> , 2013, 5, 9156.	2.8	62
9	Functionalized phosphorescent nanoparticles in (bio)chemical sensing and imaging – A review. <i>Analytica Chimica Acta</i> , 2019, 1046, 16-31.	2.6	49
10	Simple bio-conjugation of polymer-coated quantum dots with antibodies for fluorescence-based immunoassays. <i>Analyst</i> , 2008, 133, 444.	1.7	46
11	Elemental mass spectrometry: a powerful tool for an accurate characterisation at elemental level of quantum dots. <i>Chemical Communications</i> , 2009, , 3107.	2.2	41
12	Detection of Sulfide Using Mercapto Tetrazine-Protected Fluorescent Gold Nanodots: Preparation of Paper-Based Testing Kit for On-Site Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1634-1645.	4.0	41
13	Quantum dot-based array for sensitive detection of <i>Escherichia coli</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2755-2762.	1.9	38
14	Quantum Dot Bioconjugates for Diagnostic Applications. <i>Topics in Current Chemistry</i> , 2020, 378, 35.	3.0	36
15	Capping of Mn-Doped ZnS Quantum Dots with DHLA for Their Stabilization in Aqueous Media: Determination of the Nanoparticle Number Concentration and Surface Ligand Density. <i>Langmuir</i> , 2017, 33, 6333-6341.	1.6	32
16	Elemental ratios for characterization of quantum-dots populations in complex mixtures by asymmetrical flow field-flow fractionation on-line coupled to fluorescence and inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2014, 839, 8-13.	2.6	29
17	Flow injection determination of nitrite by fluorescence quenching. <i>Talanta</i> , 2004, 62, 991-995.	2.9	24
18	Immobilization of phosphorescent quantum dots in a sol-gel matrix for acetone sensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 102-108.	4.0	24

#	ARTICLE	IF	CITATIONS
19	Green synthesis of multimodal "OFF"ON™ activatable MRI/optical probes. Dalton Transactions, 2016, 45, 17672-17680.	1.6	20
20	Flow-through optosensing of 1-naphthaleneacetic acid in water and apples by heavy atom induced room temperature phosphorescence measurements. Talanta, 2005, 66, 696-702.	2.9	17
21	Sensitive prostate specific antigen quantification using dihydrolipoic acid surface-functionalized phosphorescent quantum dots. Analytica Chimica Acta, 2017, 987, 118-126.	2.6	17
22	The influence of surface coating on the properties of water-soluble CdSe and CdSe/ZnS quantum dots. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	16
23	Visual detection of microRNA146a by using RNA-functionalized gold nanoparticles. Mikrochimica Acta, 2020, 187, 192.	2.5	16
24	Room temperature phosphorimetric determination of cyanide based on triplet state energy transfer. Analytica Chimica Acta, 2003, 491, 27-35.	2.6	15
25	Novel one-pot and facile room temperature synthesis of gold nanodots and application as highly sensitive and selective probes for cyanide detection. Nanotechnology, 2016, 27, 475505.	1.3	15
26	Near-infrared fluorescent nanoprobe for highly sensitive cyanide quantification in natural waters. Talanta, 2019, 192, 463-470.	2.9	15
27	Dynamic analysis of the photoenhancement process of colloidal quantum dots with different surface modifications. Nanotechnology, 2011, 22, 385703.	1.3	14
28	Metal Nanoparticles and Clusters. , 2018, , .		14
29	Entrapment of quantum dots in sol-gel matrices to develop sensing material based on fluorescence resonance energy transfer. Chemical Communications, 2009, , 5454.	2.2	10
30	Room temperature phosphorimetric determination of bromate in flour based on energy transfer. Talanta, 2013, 116, 231-236.	2.9	10
31	Detection of Foodborne Pathogens Using Nanoparticles. Advantages and Trends. , 2016, , 183-201.		9
32	Gold Nanoparticle Smartphone Platform for Diagnosing Urinary Tract Infections. ACS Nanoscience Au, 2022, 2, 324-332.	2.0	7
33	In Vivo Applications of Inorganic Nanoparticles. , 2011, , 185-220.		5
34	Portable Instrument for Monitoring Environmental Toxins Using Immobilized Quantum Dots as the Sensing Material. Applied Sciences (Switzerland), 2020, 10, 3246.	1.3	3
35	Optoelectronic Instrumentation and Measurement Strategies for Optical Chemical (Bio)Sensing. Applied Sciences (Switzerland), 2021, 11, 7849.	1.3	3
36	Inorganic nanoparticles coupled to nucleic acid enzymes as analytical signal amplification tools. Analytical and Bioanalytical Chemistry, 2022, 414, 5201-5215.	1.9	3

#	ARTICLE	IF	CITATIONS
37	Improving the analytical performance of a phosphorescent nanosensor by optimizing a ratiometric technique. Sensors and Actuators B: Chemical, 2016, 233, 574-581.	4.0	2
38	Dynamic Analysis of CdSe Quantum Dots Luminescent Emissions for Cyanide Detection. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	1
39	Optical Atomic Emission Spectrometry/Flame Photometry. , 2018, , .		1
40	Photoluminescent Nanoparticles for Optical Imaging in Biology and Medicine. Frontiers in Nanobiomedical Research, 2014, , 307-344.	0.1	0
41	Gold and Silver Fluorescent Nanomaterials as Emerging Probes for Toxic and Biochemical Sensors. , 2018, , 327-383.		0
42	Phosphorescence (a) Principles and Instrumentation. , 2018, , 284-284.		0
43	Optical Atomic Spectrometry: An Overview. , 2018, , 99-99.		0