

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	Inorganic nanoparticles coupled to nucleic acid enzymes as analytical signal amplification tools. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5201-5215.	1.9	3
2	Gold Nanoparticle Smartphone Platform for Diagnosing Urinary Tract Infections. <i>ACS Nanoscience Au</i> , 2022, 2, 324-332.	2.0	7
3	Optoelectronic Instrumentation and Measurement Strategies for Optical Chemical (Bio)Sensing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7849.	1.3	3
4	Portable Instrument for Monitoring Environmental Toxins Using Immobilized Quantum Dots as the Sensing Material. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3246.	1.3	3
5	Visual detection of microRNA146a by using RNA-functionalized gold nanoparticles. <i>Mikrochimica Acta</i> , 2020, 187, 192.	2.5	16
6	Quantum Dot Bioconjugates for Diagnostic Applications. <i>Topics in Current Chemistry</i> , 2020, 378, 35.	3.0	36
7	Functionalized phosphorescent nanoparticles in (bio)chemical sensing and imaging – A review. <i>Analytica Chimica Acta</i> , 2019, 1046, 16-31.	2.6	49
8	Near-infrared fluorescent nanoprobes for highly sensitive cyanide quantification in natural waters. <i>Talanta</i> , 2019, 192, 463-470.	2.9	15
9	Detection of Sulfide Using Mercapto Tetrazine-Protected Fluorescent Gold Nanodots: Preparation of Paper-Based Testing Kit for On-Site Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1634-1645.	4.0	41
10	Metal Nanoparticles and Clusters. , 2018, , .		14
11	Gold and Silver Fluorescent Nanomaterials as Emerging Probes for Toxic and Biochemical Sensors. , 2018, , 327-383.		0
12	Phosphorescence (a) Principles and Instrumentation. , 2018, , 284-284.		0
13	Optical Atomic Emission Spectrometry/Flame Photometry. , 2018, , .		1
14	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
15	Optical Atomic Spectrometry: An Overview. , 2018, , 99-99.		0
16	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
17	Sensitive prostate specific antigen quantification using dihydrolipoic acid surface-functionalized phosphorescent quantum dots. <i>Analytica Chimica Acta</i> , 2017, 987, 118-126.	2.6	17
18	Detection of Foodborne Pathogens Using Nanoparticles. <i>Advantages and Trends</i> . , 2016, , 183-201.		9

#	ARTICLE	IF	CITATIONS
19	Green synthesis of multimodal "OFF"ON™ activatable MRI/optical probes. Dalton Transactions, 2016, 45, 17672-17680.	1.6	20
20	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
21	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
22	Photoluminescent Nanoparticles for Optical Imaging in Biology and Medicine. Frontiers in Nanobiomedical Research, 2014, , 307-344.	0.1	0
23	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. Analytica Chimica Acta, 2014, 839, 8-13.	2.6	29
24	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
25	Room temperature phosphorimetric determination of bromate in flour based on energy transfer. Talanta, 2013, 116, 231-236.	2.9	10
26	Influence of Mn ²⁺ concentration on Mn ²⁺ -doped ZnS quantum dot synthesis: evaluation of the structural and photoluminescent properties. Nanoscale, 2013, 5, 9156.	2.8	62
27	Mn-doped ZnS quantum dots for the determination of acetone by phosphorescence attenuation. Analytica Chimica Acta, 2012, 712, 120-126.	2.6	81
28	Immobilization of phosphorescent quantum dots in a sol-gel matrix for acetone sensing. Sensors and Actuators B: Chemical, 2012, 174, 102-108.	4.0	24
29	In Vivo Applications of Inorganic Nanoparticles. , 2011, , 185-220.		5
30	Dynamic analysis of the photoenhancement process of colloidal quantum dots with different surface modifications. Nanotechnology, 2011, 22, 385703.	1.3	14
31	Nanoparticles as fluorescent labels for optical imaging and sensing in genomics and proteomics. Analytical and Bioanalytical Chemistry, 2011, 399, 29-42.	1.9	114
32	Quantum dot-based array for sensitive detection of Escherichia coli. Analytical and Bioanalytical Chemistry, 2011, 399, 2755-2762.	1.9	38
33	Elemental mass spectrometry: a powerful tool for an accurate characterisation at elemental level of quantum dots. Chemical Communications, 2009, , 3107.	2.2	41
34	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
35	Simple bio-conjugation of polymer-coated quantum dots with antibodies for fluorescence-based immunoassays. Analyst, The, 2008, 133, 444.	1.7	46
36	Dynamic Analysis of CdSe Quantum Dots Luminescent Emissions for Cyanide Detection. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	1

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37	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). Journal of Materials Chemistry, 2007, 17, 1343-1346.	6.7	108
38	Synthesis and Characterization of Polymer-Coated Quantum Dots with Integrated Acceptor Dyes as FRET-Based Nanoprobes. Nano Letters, 2007, 7, 2613-2617.	4.5	173
39	Surface-modified CdSe quantum dots for the sensitive and selective determination of Cu(II) in aqueous solutions by luminescent measurements. Analytica Chimica Acta, 2005, 549, 20-25.	2.6	191
40	Photoactivated luminescent CdSe quantum dots as sensitive cyanide probes in aqueous solutions. Chemical Communications, 2005, , 883-885.	2.2	294
41	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
42	Flow injection determination of nitrite by fluorescence quenching. Talanta, 2004, 62, 991-995.	2.9	24
43	Room temperature phosphorimetric determination of cyanide based on triplet state energy transfer. Analytica Chimica Acta, 2003, 491, 27-35.	2.6	15