

Vanesa Romero

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,304
citations

361413

20
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

1660
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Building of a Nanoprobe Based on Fluorescent Carbon Dots for Methylmercury Detection. <i>Analytical Chemistry</i> , 2014, 86, 4536-4543.	6.5	132
2	Sample pretreatment strategies for total reflection X-ray fluorescence analysis: A tutorial review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 90, 23-54.	2.9	107
3	Natural deep eutectic solvents in combination with ultrasonic energy as a green approach for solubilisation of proteins: application to gluten determination by immunoassay. <i>Talanta</i> , 2017, 162, 453-459.	5.5	82
4	Green chemistry in analytical atomic spectrometry: a review. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1831.	3.0	74
5	An overview of recent advances in the application of quantum dots as luminescent probes to inorganic-trace analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 57, 64-72.	11.4	65
6	Tailoring Covalent Organic Frameworks To Capture Water Contaminants. <i>Chemistry - A European Journal</i> , 2019, 25, 6461-6473.	3.3	62
7	Greener derivatization in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 61, 1-10.	11.4	58
8	Recyclable magnetic covalent organic framework for the extraction of marine biotoxins. <i>Nanoscale</i> , 2019, 11, 6072-6079.	5.6	57
9	Advances in miniaturized UV-Vis spectrometric systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1637-1648.	11.4	55
10	Efficient adsorption of endocrine-disrupting pesticides from water with a reusable magnetic covalent organic framework. <i>Microporous and Mesoporous Materials</i> , 2020, 307, 110523.	4.4	51
11	Nanoparticle-enhanced liquid-phase microextraction. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 68, 78-87.	11.4	50
12	Quantum Dot-Based Headspace Single-Drop Microextraction Technique for Optical Sensing of Volatile Species. <i>Analytical Chemistry</i> , 2011, 83, 2388-2393.	6.5	46
13	Turn-on fluorescent sensor for the detection of periodate anion following photochemical synthesis of nitrogen and sulphur co-doped carbon dots from vegetables. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 290-297.	7.8	43
14	Quantum Dots Confined in an Organic Drop as Luminescent Probes for Detection of Selenium by Microfluorospectrometry after Hydrization: Study of the Quenching Mechanism and Analytical Performance. <i>Analytical Chemistry</i> , 2012, 84, 4452-4459.	6.5	41
15	Covalent Organic Framework Composites: Synthesis and Analytical Applications. <i>Molecules</i> , 2020, 25, 5404.	3.8	38
16	Cold vapor-solid phase microextraction using amalgamation in different Pd-based substrates combined with direct thermal desorption in a modified absorption cell for the determination of Hg by atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 156-162.	2.9	33
17	In situ ultrasound-assisted synthesis of Fe ₃ O ₄ nanoparticles with simultaneous ion co-precipitation for multielemental analysis of natural waters by total reflection X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 923.	3.0	24
18	Graphene-based nanocomposites in analytical extraction processes. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 142, 116303.	11.4	24

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19	In situ photochemical synthesis of fluorescent carbon dots for optical sensing of hydrogen peroxide and antioxidants. <i>Talanta</i> , 2015, 144, 1308-1315.	5.5	23
20	Covalent organic framework as adsorbent for ultrasound-assisted dispersive (micro)solid phase extraction of polycyclic synthetic fragrances from seawater followed by fluorescent determination. <i>Analytica Chimica Acta</i> , 2022, 1191, 339293.	5.4	20
21	Solid-state chemiluminescence assay for ultrasensitive detection of antimony using on-vial immobilization of CdSe quantum dots combined with liquid-liquid microextraction. <i>Analytica Chimica Acta</i> , 2013, 788, 114-121.	5.4	19
22	Graphene membranes as novel preconcentration platforms for chromium speciation by total reflection X-ray fluorescence. <i>RSC Advances</i> , 2016, 6, 669-676.	3.6	19
23	Silver nanoparticle-assisted preconcentration of selenium and mercury on quartz reflectors for total reflection X-ray fluorescence analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 696.	3.0	18
24	In situ growth of Fe ₃ O ₄ nanoparticles for dispersive magnetic micro-solid phase extraction of cadmium followed by ETAAS detection. <i>Analytical Methods</i> , 2015, 7, 1154-1160.	2.7	18
25	In situ ultrasound-assisted preparation of Fe ₃ O ₄ @MnO ₂ core-shell nanoparticles integrated with ion co-precipitation for multielemental analysis by total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 131, 40-47.	2.9	17
26	Facile preparation of an immobilized surfactant-free palladium nanocatalyst for metal hydride trapping: a novel sensing platform for TXRF analysis. <i>Nanoscale</i> , 2015, 7, 1994-2002.	5.6	14
27	Room temperature trapping of stibine and bismuthine onto quartz substrates coated with nanostructured palladium for total reflection X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 107, 125-131.	2.9	13
28	Paper-Based Analytical Devices for Colorimetric and Luminescent Detection of Mercury in Waters: An Overview. <i>Sensors</i> , 2021, 21, 7571.	3.8	13
29	Ultrasound-assisted dispersive micro-solid phase extraction of Pb(II) in water samples with in situ synthesis of magnetic Fe ₃ O ₄ -PbS nanocomposites followed by electrothermal atomic absorption spectrometry determination. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 188, 106349.	2.9	13
30	Ion pair-based liquid-phase microextraction combined with cuvetteless UV-vis micro-spectrophotometry as a miniaturized assay for monitoring ammonia in waters. <i>Talanta</i> , 2011, 85, 1448-1452.	5.5	12
31	Nanomaterial-Integrated Cellulose Platforms for Optical Sensing of Trace Metals and Anionic Species in the Environment. <i>Sensors</i> , 2021, 21, 604.	3.8	12
32	Ultrasensitive determination of mercury in waters via photochemical vapor deposition onto quartz substrates coated with palladium nanoparticles followed by total reflection X-ray fluorescence analysis. <i>Mikrochimica Acta</i> , 2016, 183, 141-148.	5.0	11
33	Headspace thin-film microextraction onto graphene membranes for specific detection of methyl(cyclopentadienyl)-tricarbonyl manganese in water samples by total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 126, 65-70.	2.9	9
34	Study on the efficiency of a covalent organic framework as adsorbent for the screening of pharmaceuticals in estuary waters. <i>Chemosphere</i> , 2021, 278, 130364.	8.2	9
35	Speciation of inorganic As and Sb in natural waters by total reflection X-ray fluorescence following selective hydride generation and trapping onto quartz reflectors coated with nanostructured Pd. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1705-1712.	3.0	7
36	Luminescent assays based on carbon dots for inorganic trace analysis. <i>Reviews in Analytical Chemistry</i> , 2015, 34, .	3.2	5

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37	Simultaneous ultrasound-assisted iodide oxidation and liquid-liquid microextraction for rapid quality control of iodized salts by UV-vis micro-spectrophotometry. <i>Microchemical Journal</i> , 2017, 133, 577-582.	4.5	5
38	Nanoparticle-assisted stabilization of metal species as an alternative to conventional approaches for avoiding volatilization errors in total reflection X-ray fluorescence: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 168, 105843.	2.9	4
39	Frontispiece: Tailoring Covalent Organic Frameworks To Capture Water Contaminants. <i>Chemistry - A European Journal</i> , 2019, 25, .	3.3	1
40	QUALITATIVE ANALYTICAL CHEMISTRY IN A CRIME SCENE: A MEANS OF INCREASING STUDENTS' INTEREST. <i>EDULEARN Proceedings</i> , 2022, , .	0.0	0