

Elena Benito Peñãa

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,169
citations

172457

29
h-index

223800

46
g-index

55
all docs

55
docs citations

55
times ranked

3088
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Biosensors for Label-Free Detection of Small Molecules. <i>Sensors</i> , 2018, 18, 4126.	3.8	139
2	Evaluation of mixed mode solid phase extraction cartridges for the preconcentration of beta-lactam antibiotics in wastewater using liquid chromatography with UV-DAD detection. <i>Analytica Chimica Acta</i> , 2006, 556, 415-422.	5.4	124
3	Water-compatible molecularly imprinted polymer for the selective recognition of fluoroquinolone antibiotics in biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 235-245.	3.7	102
4	Multiresidue Determination of Ultratrace Levels of Fluoroquinolone Antimicrobials in Drinking and Aquaculture Water Samples by Automated Online Molecularly Imprinted Solid Phase Extraction and Liquid Chromatography. <i>Analytical Chemistry</i> , 2011, 83, 2046-2055.	6.5	102
5	Solid-phase extraction of fluoroquinolones from aqueous samples using a water-compatible stoichiometrically imprinted polymer. <i>Journal of Chromatography A</i> , 2008, 1208, 62-70.	3.7	100
6	Quantitative determination of penicillin V and amoxicillin in feed samples by pressurised liquid extraction and liquid chromatography with ultraviolet detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 289-294.	2.8	88
7	Fluorescence based fiber optic and planar waveguide biosensors. A review. <i>Analytica Chimica Acta</i> , 2016, 943, 17-40.	5.4	86
8	Molecularly Imprinted Polymers as Selective Recognition Elements in Optical Sensing. <i>Current Analytical Chemistry</i> , 2008, 4, 316-340.	1.2	78
9	Multibranching Gold-Mesoporous Silica Nanoparticles Coated with a Molecularly Imprinted Polymer for Label-Free Antibiotic Surface-Enhanced Raman Scattering Analysis. <i>Chemistry of Materials</i> , 2016, 28, 7947-7954.	6.7	72
10	Analysis of Zearalenone in Cereal and Swine Feed Samples Using an Automated Flow-Through Immunosensor. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 3338-3344.	5.2	68
11	Development of a Novel and Automated Fluorescent Immunoassay for the Analysis of β -Lactam Antibiotics. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 6635-6642.	5.2	64
12	Molecular Engineering of Fluorescent Penicillins for Molecularly Imprinted Polymer Assays. <i>Analytical Chemistry</i> , 2006, 78, 2019-2027.	6.5	62
13	The 2018 Nobel Prize in Chemistry: phage display of peptides and antibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2475-2479.	3.7	62
14	Application of bacteriophages in sensor development. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1805-1828.	3.7	59
15	Homogeneous Quenching Immunoassay for Fumonisin B ₁ Based on Gold Nanoparticles and an Epitope-Mimicking Yellow Fluorescent Protein. <i>ACS Nano</i> , 2018, 12, 11333-11342.	14.6	59
16	Phage Display in the Quest for New Selective Recognition Elements for Biosensors. <i>ACS Omega</i> , 2019, 4, 11569-11580.	3.5	59
17	Furfural Determination with Disposable Polymer Films and Smartphone-Based Colorimetry for Beer Freshness Assessment. <i>Analytical Chemistry</i> , 2016, 88, 3959-3966.	6.5	53
18	Bioinspired recognition elements for mycotoxin sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 747-771.	3.7	52

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19	Synthesis, Spectroscopic, and Analyte-Responsive Behavior of a Polymerizable Naphthalimide-Based Carboxylate Probe and Molecularly Imprinted Polymers Prepared Thereof. <i>Journal of Organic Chemistry</i> , 2013, 78, 1377-1389.	3.2	50
20	Microarray-Based Immunoassay with Synthetic Mimotopes for the Detection of Fumonisin B ₁ . <i>Analytical Chemistry</i> , 2017, 89, 6216-6223.	6.5	48
21	Fiber-optic array using molecularly imprinted microspheres for antibiotic analysis. <i>Chemical Science</i> , 2015, 6, 3139-3147.	7.4	44
22	Tag-Specific Affinity Purification of Recombinant Proteins by Using Molecularly Imprinted Polymers. <i>Analytical Chemistry</i> , 2019, 91, 4100-4106.	6.5	44
23	Biosensing based on upconversion nanoparticles for food quality and safety applications. <i>Analyst, The</i> , 2021, 146, 13-32.	3.5	40
24	Improved performance of SPR sensors by a chemical etching of tapered optical fibers. <i>Optics and Lasers in Engineering</i> , 2011, 49, 1065-1068.	3.8	39
25	Molecularly imprinted hydrogels as functional active packaging materials. <i>Food Chemistry</i> , 2016, 190, 487-494.	8.2	39
26	Allicin Induces Calcium and Mitochondrial Dysregulation Causing Necrotic Death in Leishmania. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004525.	3.0	39
27	Competitive upconversion-linked immunoassay using peptide mimetics for the detection of the mycotoxin zearalenone. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112683.	10.1	36
28	Biosensing Based on Nanoparticles for Food Allergens Detection. <i>Sensors</i> , 2018, 18, 1087.	3.8	35
29	Surface-Imprinted Nanofilaments for Europium-Amplified Luminescent Detection of Fluoroquinolone Antibiotics. <i>Chemistry - A European Journal</i> , 2013, 19, 10209-10216.	3.3	33
30	InfoBiology by printed arrays of microorganism colonies for timed and on-demand release of messages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16510-16514.	7.1	31
31	Highly Fluorescent Magnetic Nanobeads with a Remarkable Stokes Shift as Labels for Enhanced Detection in Immunoassays. <i>Small</i> , 2018, 14, e1703810.	10.0	31
32	Preparation of antibodies and development of a sensitive immunoassay with fluorescence detection for triazine herbicides. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1801-1812.	3.7	29
33	Recombinant antibodies and their use for food immunoanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 193-217.	3.7	27
34	Multiplexed Salivary Protein Profiling for Patients with Respiratory Diseases Using Fiber-Optic Bundles and Fluorescent Antibody-Based Microarrays. <i>Analytical Chemistry</i> , 2013, 85, 9272-9280.	6.5	26
35	Sensitive Rapid Fluorescence Polarization Immunoassay for Free Mycophenolic Acid Determination in Human Serum and Plasma. <i>Analytical Chemistry</i> , 2018, 90, 5459-5465.	6.5	23
36	Development and comparison of mimotope-based immunoassays for the analysis of fumonisin B1. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6801-6811.	3.7	19

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37	Active Food Packaging Based on Molecularly Imprinted Polymers: Study of the Release Kinetics of Ferulic Acid. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 11215-11221.	5.2	18
38	Experimental Mixture Design as a Tool for the Synthesis of Antimicrobial Selective Molecularly Imprinted Monodisperse Microbeads. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10966-10976.	8.0	17
39	Bioluminescent detection of zearalenone using recombinant peptidomimetic Gaussia luciferase fusion protein. <i>Mikrochimica Acta</i> , 2020, 187, 547.	5.0	15
40	Mycotoxin extraction from edible insects with natural deep eutectic solvents: a green alternative to conventional methods. <i>Journal of Chromatography A</i> , 2021, 1648, 462180.	3.7	14
41	Species-specific optical genosensors for the detection of mycotoxigenic <i>Fusarium</i> fungi in food samples. <i>Analytica Chimica Acta</i> , 2016, 935, 231-238.	5.4	10
42	Recombinant Peptide Mimetic NanoLuc Tracer for Sensitive Immunodetection of Mycophenolic Acid. <i>Analytical Chemistry</i> , 2021, 93, 10358-10364.	6.5	6
43	Identification of high-affinity phage-displayed VH fragments by use of a quartz crystal microbalance with dissipation monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129954.	7.8	6
44	Analytical applications of biomimetic recognition elements – an update. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6059-6061.	3.7	5
45	Biosensor for on-line fluorescent detection of trifluoroperazine based on genetically modified calmodulin. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3211-3218.	3.7	4
46	Multiplexed Fluorescent Microarray for Human Salivary Protein Analysis Using Polymer Microspheres and Fiber-optic Bundles. <i>Journal of Visualized Experiments</i> , 2013, , .	0.3	4
47	Molecular super-gluing: a straightforward tool for antibody labelling and its application to mycotoxin biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2022, , 1.	3.7	3
48	Molecularly imprinted polymers as biomimetic receptors for fluorescence-based optical sensors. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
49	FUNDAMENTALS OF ENZYME-BASED SENSORS. , 2006, , 323-352.		1
50	Optically-based Molecularly Imprinted Polymers Sensors. , 2017, , .		1
51	Molecularly Imprinted Polymer-Based Biomimetic Sensors for Food Analysis. , 2023, , 568-598.		1
52	Analytical applications of biomimetic recognition elements. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1725-1726.	3.7	0
53	Comparative Study of the Performance of Two Different Luciferases for the Analysis of Fumonisin B ₁ in Wheat Samples. <i>Analysis & Sensing</i> , 2022, 2, .	2.0	0
54	Comparative Study of the Performance of Two Different Luciferases for the Analysis of Fumonisin B ₁ in Wheat Samples. <i>Analysis & Sensing</i> , 0, , .	2.0	0

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55	Comparative Study of the Performance of Two Different Luciferases for the Analysis of Fumonisin B ₁ in Wheat Samples. Analysis & Sensing, 0, , .	2.0	0