

Elena Benito Peñãa

List of Publications by Year in descending order

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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	Molecularly Imprinted Polymer-Based Biomimetic Sensors for Food Analysis. , 2023, , 568-598.		1
2	Recombinant antibodies and their use for food immunoanalysis. Analytical and Bioanalytical Chemistry, 2022, 414, 193-217.	3.7	27
3	Molecular super-gluing: a straightforward tool for antibody labelling and its application to mycotoxin biosensing. Analytical and Bioanalytical Chemistry, 2022, , 1.	3.7	3
4	Comparative Study of the Performance of Two Different Luciferases for the Analysis of Fumonisin B ₁ in Wheat Samples. Analysis & Sensing, 2022, 2, .	2.0	0
5	Biosensing based on upconversion nanoparticles for food quality and safety applications. Analyst, The, 2021, 146, 13-32.	3.5	40
6	Mycotoxin extraction from edible insects with natural deep eutectic solvents: a green alternative to conventional methods. Journal of Chromatography A, 2021, 1648, 462180.	3.7	14
7	Analytical applications of biomimetic recognition elements “an update. Analytical and Bioanalytical Chemistry, 2021, 413, 6059-6061.	3.7	5
8	Recombinant Peptide Mimetic NanoLuc Tracer for Sensitive Immunodetection of Mycophenolic Acid. Analytical Chemistry, 2021, 93, 10358-10364.	6.5	6
9	Identification of high-affinity phage-displayed VH fragments by use of a quartz crystal microbalance with dissipation monitoring. Sensors and Actuators B: Chemical, 2021, 340, 129954.	7.8	6
10	Competitive upconversion-linked immunoassay using peptide mimetics for the detection of the mycotoxin zearalenone. Biosensors and Bioelectronics, 2020, 170, 112683.	10.1	36
11	Bioluminescent detection of zearalenone using recombinant peptidomimetic Gaussia luciferase fusion protein. Mikrochimica Acta, 2020, 187, 547.	5.0	15
12	Development and comparison of mimotope-based immunoassays for the analysis of fumonisin B ₁ . Analytical and Bioanalytical Chemistry, 2019, 411, 6801-6811.	3.7	19
13	Phage Display in the Quest for New Selective Recognition Elements for Biosensors. ACS Omega, 2019, 4, 11569-11580.	3.5	59
14	The 2018 Nobel Prize in Chemistry: phage display of peptides and antibodies. Analytical and Bioanalytical Chemistry, 2019, 411, 2475-2479.	3.7	62
15	Tag-Specific Affinity Purification of Recombinant Proteins by Using Molecularly Imprinted Polymers. Analytical Chemistry, 2019, 91, 4100-4106.	6.5	44
16	Highly Fluorescent Magnetic Nanobeads with a Remarkable Stokes Shift as Labels for Enhanced Detection in Immunoassays. Small, 2018, 14, e1703810.	10.0	31
17	Sensitive Rapid Fluorescence Polarization Immunoassay for Free Mycophenolic Acid Determination in Human Serum and Plasma. Analytical Chemistry, 2018, 90, 5459-5465.	6.5	23
18	Bioinspired recognition elements for mycotoxin sensors. Analytical and Bioanalytical Chemistry, 2018, 410, 747-771.	3.7	52

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19	Optical Biosensors for Label-Free Detection of Small Molecules. <i>Sensors</i> , 2018, 18, 4126.	3.8	139
20	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
21	Biosensing Based on Nanoparticles for Food Allergens Detection. <i>Sensors</i> , 2018, 18, 1087.	3.8	35
22	Microarray-Based Immunoassay with Synthetic Mimotopes for the Detection of Fumonisin B ₁ . <i>Analytical Chemistry</i> , 2017, 89, 6216-6223.	6.5	48
23	Optically-based Molecularly Imprinted Polymers Sensors. , 2017, , .		1
24	Fluorescence based fiber optic and planar waveguide biosensors. A review. <i>Analytica Chimica Acta</i> , 2016, 943, 17-40.	5.4	86
25	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
26	Species-specific optical genosensors for the detection of mycotoxigenic Fusarium fungi in food samples. <i>Analytica Chimica Acta</i> , 2016, 935, 231-238.	5.4	10
27	Molecularly imprinted hydrogels as functional active packaging materials. <i>Food Chemistry</i> , 2016, 190, 487-494.	8.2	39
28	Analytical applications of biomimetic recognition elements. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1725-1726.	3.7	0
29	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
30	Application of bacteriophages in sensor development. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1805-1828.	3.7	59
31	Allicin Induces Calcium and Mitochondrial Dysregulation Causing Necrotic Death in Leishmania. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004525.	3.0	39
32	Fiber-optic array using molecularly imprinted microspheres for antibiotic analysis. <i>Chemical Science</i> , 2015, 6, 3139-3147.	7.4	44
33	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
34	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
35	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
36	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

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37	Surface-imprinted Nanofilaments for Europium-amplified Luminescent Detection of Fluoroquinolone Antibiotics. <i>Chemistry - A European Journal</i> , 2013, 19, 10209-10216.	3.3	33
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Molecularly Imprinted Polymers as Selective Recognition Elements in Optical Sensing. <i>Current Analytical Chemistry</i> , 2008, 4, 316-340.	1.2	78
48	Molecularly imprinted polymers as biomimetic receptors for fluorescence-based optical sensors. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
49	Molecular Engineering of Fluorescent Penicillins for Molecularly Imprinted Polymer Assays. <i>Analytical Chemistry</i> , 2006, 78, 2019-2027.	6.5	62
50	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
51	FUNDAMENTALS OF ENZYME-BASED SENSORS. , 2006, , 323-352.		1
52	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
53	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
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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