Antonio Abad-Fuentes

List of Publications by Year
in descending order

96 papers	2,843 citations	186265 28 h-index	197818 49 g-index
96 all docs	96 docs citations	96 times ranked	2516 citing authors

#	Article	IF	Citations
1	An integrated optical interferometric nanodevice based on silicon technology for biosensor applications. Nanotechnology, 2003, 14, 907-912.	2.6	279
2	Applications of quantum dots as probes in immunosensing of small-sized analytes. Biosensors and Bioelectronics, 2013, 41, 12-29.	10.1	188
3	Development of nanomechanical biosensors for detection of the pesticide DDT. Biosensors and Bioelectronics, 2003, 18, 649-653.	10.1	155
4	Determination of carbaryl in natural water samples by a surface plasmon resonance flow-through immunosensor. Biosensors and Bioelectronics, 2006, 21, 2129-2136.	10.1	127
5	Determination of carbaryl, carbofuran and methiocarb in cucumbers and strawberries by monoclonal enzyme immunoassays and high-performance liquid chromatography with fluorescence detection. Journal of Chromatography A, 1999, 833, 3-12.	3.7	96
6	Development of an immunochromatographic assay based on carbon nanoparticles for the determination of the phytoregulator forchlorfenuron. Biosensors and Bioelectronics, 2013, 42, 170-176.	10.1	83
7	Production and Characterization of Monoclonal Antibodies Specific to the Strobilurin Pesticide Pyraclostrobin. Journal of Agricultural and Food Chemistry, 2008, 56, 7682-7690.	5.2	81
8	Development of Monoclonal Antibody-Based Immunoassays to theN-Methylcarbamate Pesticide Carbofuran. Journal of Agricultural and Food Chemistry, 1999, 47, 2475-2485.	5.2	60
9	Hapten synthesis, monoclonal antibody generation, and development of competitive immunoassays for the analysis of picoxystrobin in beer. Analytica Chimica Acta, 2010, 682, 93-103.	5.4	52
10	Development of an Enzyme-Linked Immunosorbent Assay to Carbaryl. 2. Assay Optimization and Application to the Analysis of Water Samples. Journal of Agricultural and Food Chemistry, 1997, 45, 1495-1501.	5.2	50
11	Production of Monoclonal Antibodies to theN-Methylcarbamate Pesticide Propoxur. Journal of Agricultural and Food Chemistry, 2001, 49, 72-78.	5.2	50
12	Development of an Enzyme-Linked Immunosorbent Assay to Carbaryl. 1. Antibody Production from Several Haptens and Characterization in Different Immunoassay Formats. Journal of Agricultural and Food Chemistry, 1997, 45, 1486-1494.	5.2	49
13	Monoclonal Antibody-Based Flow-Through Immunosensor for Analysis of Carbaryl. Analytical Chemistry, 1997, 69, 2812-2818.	6.5	49
14	Direct competitive immunosensor for Imidacloprid pesticide detection on gold nanoparticle-modified electrodes. Talanta, 2020, 209, 120465.	5.5	48
15	Development of immunoaffinity columns for pyraclostrobin extraction from fruit juices and analysis by liquid chromatography with UV detection. Journal of Chromatography A, 2011, 1218, 4902-4909.	3.7	47
16	Determination of succinate-dehydrogenase-inhibitor fungicide residues in fruits and vegetables by liquid chromatographyâ€“tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 4207-4211.	3.7	45
17	Production of Monoclonal Antibodies for Carbaryl from a Hapten Preserving the Carbamate Group. Journal of Agricultural and Food Chemistry, 1994, 42, 1818-1823.	5.2	43
18	Hapten Synthesis and Production of Monoclonal Antibodies to DDT and Related Compounds. Journal of Agricultural and Food Chemistry, 1997, 45, 3694-3702.	5.2	43

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19	Carbon nanotube-protein carriers enhance size-dependent self-adjuvant antibody response to haptens. Journal of Controlled Release, 2013, 170, 242-251.	9.9	42
20	Rapid detection and counting of viable beer-spoilage lactic acid bacteria using a monoclonal chemiluminescence enzyme immunoassay and a CCD camera. Journal of Immunological Methods, 2005, 303, 92-104.	1.4	41
21	A monoclonal immunoassay for carbofuran and its application to the analysis of fruit juices. Analytica Chimica Acta, 1997, 347, 103-110.	5.4	39
22	Correlation study of enzyme-linked immunosorbent assay and high-performance liquid chromatography/tandem mass spectrometry for the determination of N-methylcarbamate insecticides in baby food. Analytica Chimica Acta, 2003, 495, 123-132.	5.4	37
23	Development of an automated controlled-pore glass flow-through immunosensor for carbaryl. Analytica Chimica Acta, 1997, 347, 199-205.	5.4	36
24	Hapten Synthesis and Production of Monoclonal Antibodies to theN-Methylcarbamate Pesticide Methiocarb. Journal of Agricultural and Food Chemistry, 1998, 46, 2417-2426.	5.2	36
25	Synthesis of site-heterologous haptens for high-affinity anti-pyraclostrobin antibody generation. Organic and Biomolecular Chemistry, 2011, 9, 1443.	2.8	36
26	Hapten Synthesis and Monoclonal Antibody-Based Immunoassay Development for Detection of the Fungicide Trifloxystrobin. Journal of Agricultural and Food Chemistry, 2008, 56, 2581-2588.	5.2	35
27	Determination of fenhexamid residues in grape must, kiwifruit, and strawberry samples by enzyme-linked immunosorbent assay. Food Chemistry, 2011, 124, 1727-1733.	8.2	33
28	Fungicide multiresidue monitoring in international wines by immunoassays. Food Chemistry, 2016, 196, 1279-1286.	8.2	33
29	Fluorescence polarisation immunoassays for strobilurin fungicides kresoxim-methyl, trifloxystrobin and picoxystrobin. Talanta, 2017, 162, 495-504.	5.5	29
30	Validation of a Monoclonal Enzyme Immunoassay for the Determination of Carbofuran in Fruits and Vegetables. Journal of Agricultural and Food Chemistry, 2001, 49, 1713-1719.	5.2	28
31	Hapten Synthesis and Polyclonal Antibody-Based Immunoassay Development for the Analysis of Forchlorfenuron in Kiwifruit. Journal of Agricultural and Food Chemistry, 2010, 58, 8502-8511.	5.2	28
32	Generation of anti-azoxystrobin monoclonal antibodies from regioisomeric haptens functionalized at selected sites and development of indirect competitive immunoassays. Analytica Chimica Acta, 2012, 715, 105-112.	5.4	28
33	Monoclonal Enzyme Immunoassay for the Analysis of Carbaryl in Fruits and Vegetables without Sample Cleanup. Journal of Agricultural and Food Chemistry, 2001, 49, 1707-1712.	5.2	26
34	Highly selective solid-phase extraction sorbents for chloramphenicol determination in food and urine by ion mobility spectrometry. Analytical and Bioanalytical Chemistry, 2016, 408, 8559-8567.	3.7	26
35	Application of a monoclonal antibody-based ELISA to the determination of carbaryl in apple and grape juices. Analytica Chimica Acta, 1995, 311, 365-370.	5.4	25
36	A comparative study by the enzyme-linked immunofiltration asssay of solid phases used in the development of flow immunosensors. Journal of Immunological Methods, 1997, 208, 75-83.	1.4	25

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37	Development of a Monoclonal Immunoassay Selective for Chlorinated Cyclodiene Insecticides. Journal of Agricultural and Food Chemistry, 2004, 52, 2776-2784.	5.2	25
38	Analytical performances of validated chemiluminescent enzyme immunoassays to detect N-methylcarbamate pesticides. Analytica Chimica Acta, 2005, 528, 243-248.	5.4	25
39	Production and Characterization of Monoclonal and Polyclonal Antibodies to Forchlorfenuron. Journal of Agricultural and Food Chemistry, 2008, 56, 11122-11131.	5.2	24
40	Monoclonal Antibody Generation and Direct Competitive Enzyme-Linked Immunosorbent Assay Evaluation for the Analysis of the Fungicide Fenhexamid in Must and Wine. Journal of Agricultural and Food Chemistry, 2009, 57, 5129-5135.	5.2	24
41	Forchlorfenuron-mimicking haptens: from immunogen design to antibody characterization by hierarchical clustering analysis. Organic and Biomolecular Chemistry, 2011, 9, 4863.	2.8	24
42	Fluxapyroxad Haptens and Antibodies for Highly Sensitive Immunoanalysis of Food Samples. Journal of Agricultural and Food Chemistry, 2017, 65, 9333-9341.	5.2	24
43	Concise and modular synthesis of regioisomeric haptens for the production of high-affinity and stereoselective antibodies to the strobilurin azoxystrobin. Tetrahedron, 2011, 67, 624-635.	1.9	22
44	FLUORESCENCE POLARIZATION IMMUNOASSAY FOR THE INSECTICIDE DDT AND ITS METABOLITES. Analytical Letters, 2002, 35, 1835-1850.	1.8	21
45	Off-line coupling of multidimensional immunoaffinity chromatography and ion mobility spectrometry: A promising partnership. Journal of Chromatography A, 2015, 1426, 110-117.	3.7	21
46	Highly sensitive monoclonal antibody-based immunoassays for boscalid analysis in strawberries. Food Chemistry, 2018, 267, 2-9.	8.2	21
47	Hapten Synthesis and Monoclonal Antibody-Based Immunoassay Development for the Detection of the Fungicide Kresoxim-methyl. Journal of Agricultural and Food Chemistry, 2008, 56, 1545-1552.	5.2	20
48	Development of monoclonal antibody-based competitive immunoassays for the detection of picoxystrobin in cereal and oilseed flours. Food Control, 2012, 26, 162-168.	5.5	19
49	Monoclonal antibody-based immunoassays for cyprodinil residue analysis in QuEChERS-based fruit extracts. Food Chemistry, 2015, 187, 530-536.	8.2	19
50	Dispersive magnetic immunoaffinity extraction. Anatoxin-a determination. Journal of Chromatography A, 2017, 1529, 57-62.	3.7	19
51	Highly sensitive monoclonal antibody-based immunoassays for the analysis of fluopyram in food samples. Food Chemistry, 2019, 288, 117-126.	8.2	19
52	Development of competitive enzyme-linked immunosorbent assays for boscalid determination in fruit juices. Food Chemistry, 2012, 135, 276-284.	8.2	18
53	A class-selective immunoassay for simultaneous analysis of anilinopyrimidine fungicides using a rationally designed hapten. Analyst, The, 2017, 142, 3975-3985.	3.5	17
54	Synthesis of azoxystrobin transformation products and selection of monoclonal antibodies for immunoassay development. Toxicology Letters, 2012, 210, 240-247.	0.8	16

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55	Mepanipyrim haptens and antibodies with nanomolar affinity. Analyst, The, 2013, 138, 3360.	3.5	16
56	Study of Epitope Imprinting for Small Templates: Preparation of NanoMIPs for Ochratoxin A. ChemNanoMat, 2019, 5, 651-657.	2.8	15
57	Antibody generation and immunoassay development in diverse formats for pyrimethanil specific and sensitive analysis. Analyst, The, 2012, 137, 5672.	3.5	14
58	Immunoassays for trifloxystrobin analysis. Part I. Rational design of regioisomeric haptens and production of monoclonal antibodies. Food Chemistry, 2014, 152, 230-236.	8.2	14
59	Synthetic Haptens and Monoclonal Antibodies to the Cyanotoxin Anatoxinâ€a. Angewandte Chemie - International Edition, 2019, 58, 9134-9139.	13.8	14
60	Design and development of heterologous competitive immunoassays for the determination of boscalid residues. Analyst, The, 2014, 139, 3636-3644.	3.5	13
61	Exploring alternative hapten tethering sites for high-affinity anti-picoxystrobin antibody generation. Analytical Biochemistry, 2011, 416, 82-91.	2.4	12
62	Direct surface plasmon resonance immunosensing of pyraclostrobin residues in untreated fruit juices. Analytical and Bioanalytical Chemistry, 2012, 404, 2877-86.	3.7	12
63	Immunoreagent Generation and Competitive Assay Development for Cyprodinil Analysis. Journal of Agricultural and Food Chemistry, 2012, 60, 4803-4811.	5.2	12
64	Development and validation of a direct competitive monoclonal antibody-based immunoassay for the sensitive and selective analysis of the phytoregulator forchlorfenuron. Analytical and Bioanalytical Chemistry, 2012, 403, 2019-2026.	3.7	12
65	Site-heterologous haptens and competitive monoclonal antibody-based immunoassays for pyrimethanil residue analysis in foodstuffs. LWT - Food Science and Technology, 2015, 63, 604-611.	5.2	12
66	Structureâ€“immunogenicity relationship of kresoxim-methyl regioisomeric haptens. Organic and Biomolecular Chemistry, 2013, 11, 7361.	2.8	11
67	Immunoassays for trifloxystrobin analysis. Part II. Assay development and application to residue determination in food. Food Chemistry, 2014, 162, 41-46.	8.2	11
68	Immunoreagents and Competitive Assays to Fludioxonil. Journal of Agricultural and Food Chemistry, 2014, 62, 2742-2744.	5.2	10
69	Moiety and linker site heterologies for highly sensitive immunoanalysis of cyprodinil in fermented alcoholic drinks. Food Control, 2015, 50, 393-400.	5.5	10
70	Combined heterologies for monoclonal antibody-based immunoanalysis of fluxapyroxad. Analyst, The, 2018, 143, 5718-5727.	3.5	10
71	Rationally designed haptens for highly sensitive monoclonal antibody-based immunoanalysis of fenhexamid. Analyst, The, 2018, 143, 4057-4066.	3.5	10
72	Immunoassays for pyraclostrobin analysis in processed food products using novel monoclonal antibodies and QuEChERS-based extracts. Food Control, 2013, 32, 42-48.	5.5	9

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73	Novel haptens and monoclonal antibodies with subnanomolar affinity for a classical analytical target, ochratoxin A. Scientific Reports, 2018, 8, 9761.	3.3	9
74	Hapten Design and Antibody Generation for Immunoanalysis of Spirotetramat and Spirotetramat-enol. ACS Omega, 2018, 3, 11950-11957.	3.5	8
75	Immunoanalytical methods for ochratoxin A monitoring in wine and must based on innovative immunoreagents. Food Chemistry, 2021, 345, 128828.	8.2	8
76	Comparison of a monoclonal antibody-based enzyme-linked immunosorbent assay and gas chromatography for the determination of nicotine in cigarette smoke condensates. Analytical Chemistry, 1993, 65, 3227-3231.	6.5	7
77	Haptens, bioconjugates, and antibodies for penthiopyrad immunosensing. Analyst, The, 2014, 139, 5358-5361.	3.5	7
78	Sensitive Monoclonal Antibody-Based Immunoassays for Kresoxim-methyl Analysis in QuEChERS-Based Food Extracts. Journal of Agricultural and Food Chemistry, 2014, 62, 2816-2821.	5.2	7
79	Click Chemistry-Assisted Bioconjugates for Hapten Immunodiagnostics. Bioconjugate Chemistry, 2020, 31, 956-964.	3.6	7
80	Alternative Hapten Design for Zearalenone Immunoreagent Generation. Toxins, 2022, 14, 185.	3.4	7
81	Development of a sensitive and specific enzyme-linked immunosorbent assay for the determination of fludioxonil residues in fruit juices. Analytical Methods, 2014, 6, 8924-8929.	2.7	6
82	A unified approach to the synthesis of both enantiomers of anatoxin-a and homoanatoxin-a cyanotoxins. Tetrahedron, 2018, 74, 5022-5031.	1.9	6
83	Immunochemical rapid determination of quinoxyfen, a priority hazardous pollutant. Chemosphere, 2018, 211, 302-307.	8.2	6
84	Assessment of the Optimum Linker Tethering Site of Alternariol Haptens for Antibody Generation and Immunoassay Development. Toxins, 2021, 13, 883.	3.4	6
85	Rational design of a fluopyram hapten and preparation of bioconjugates and antibodies for immunoanalysis. RSC Advances, 2015, 5, 51337-51341.	3.6	5
86	Protein-Free Hapten-Carbon Nanotube Constructs Induce the Secondary Immune Response. Bioconjugate Chemistry, 2017, 28, 1630-1638.	3.6	5
87	Immunochemical method for penthiopyrad detection through thermodynamic and kinetic characterization of monoclonal antibodies. Talanta, 2021, 226, 122123.	5.5	5
88	Ready Access to Proquinazid Haptens via Cross-Coupling Chemistry for Antibody Generation and Immunoassay Development. PLoS ONE, 2015, 10, e0134042.	2.5	5
89	Electrochemical assays based on enzyme-electrode systems to determine glycerol and propylene glycol in tobacco casing. Sensors and Actuators B: Chemical, 1993, 16, 429-434.	7.8	4
90	High-affinity Antibodies from a Full Penthiopyrad-mimicking Hapten and Heterologous Immunoassay Development for Fruit Juice Analysis. Food Analytical Methods, 2017, 10, 4013-4023.	2.6	3

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91	Monoclonal antibodies with subnanomolar affinity to tenofovir for monitoring adherence to antiretroviral therapies: from hapten synthesis to prototype development. Journal of Materials Chemistry B, 2020, 8, 10439-10449.	5.8	3
92	A Monoclonal Antibody-Based Immunoassay for Mepanipyrim Residue Sensitive Analysis in Grape Juice and Wine. Food Analytical Methods, 2020, 13, 770-779.	2.6	2
93	Enzyme and lateral flow monoclonal antibody-based immunoassays to simultaneously determine spirotetramat and spirotetramat-enol in foodstuffs. Scientific Reports, 2021, 11, 1809.	3.3	2
94	Chemical strategies for triggering the immune response to the mycotoxin patulin. Scientific Reports, 2021, 11, 23438.	3.3	2
95	Synthetic Haptens and Monoclonal Antibodies to the Cyanotoxin Anatoxinâ€a. Angewandte Chemie, 2019, 131, 9232-9237.	2.0	0
96	Aproximaciones inmunoanalÃ‡ticas para el control de xenobiÃ³ticos y biotoxinas en alimentos. Arbor, 2020, 196, 542.	0.3	0