

Anatoly V Zherdev

List of Publications by Citations

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231
papers

3,899
citations

32
h-index

50
g-index

262
ext. papers

4,701
ext. citations

3.8
avg, IF

5.98
L-index

#	Paper	IF	Citations
231	Immunochematographic methods in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 55, 81-93	14.6	236
230	'Traffic light' immunochematographic test based on multicolor quantum dots for the simultaneous detection of several antibiotics in milk. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 255-261	11.8	202
229	Quantum dot-based lateral flow immunoassay for detection of chloramphenicol in milk. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 4997-5000	4.4	134
228	Rapid pretreatment-free immunochematographic assay of chloramphenicol in milk. <i>Talanta</i> , 2010 , 81, 843-8	6.2	79
227	Towards Lateral Flow Quantitative Assays: Detection Approaches. <i>Biosensors</i> , 2019 , 9,	5.9	78
226	Factors influencing the detection limit of the lateral-flow sandwich immunoassay: a case study with potato virus X. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 1595-605	4.4	71
225	Electrochemical immunosensors for determination of the pesticides 2,4-dichlorophenoxyacetic and 2,4,5-trichlorophenoxyacetic acids. <i>Biosensors and Bioelectronics</i> , 1996 , 11, 179-185	11.8	71
224	Less is More: A Comparison of Antibody-Gold Nanoparticle Conjugates of Different Ratios. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2737-2746	6.3	69
223	Integration of lateral flow and microarray technologies for multiplex immunoassay: application to the determination of drugs of abuse. <i>Mikrochimica Acta</i> , 2013 , 180, 1165-1172	5.8	59
222	Use of gold nanoparticle-labeled secondary antibodies to improve the sensitivity of an immunochematographic assay for aflatoxin B1. <i>Mikrochimica Acta</i> , 2014 , 181, 1939-1946	5.8	55
221	Double-enhanced lateral flow immunoassay for potato virus X based on a combination of magnetic and gold nanoparticles. <i>Analytica Chimica Acta</i> , 2018 , 1007, 50-60	6.6	54
220	Correlation between the composition of multivalent antibody conjugates with colloidal gold nanoparticles and their affinity. <i>Journal of Immunological Methods</i> , 2010 , 357, 17-25	2.5	53
219	Immunosensor for the determination of the herbicide simazine based on an ion-selective field-effect transistor. <i>Analytica Chimica Acta</i> , 2000 , 424, 37-43	6.6	53
218	Rapid immunoenzyme assay of aflatoxin B1 using magnetic nanoparticles. <i>Sensors</i> , 2014 , 14, 21843-57	3.8	48
217	Rapid multiple immunoenzyme assay of mycotoxins. <i>Toxins</i> , 2015 , 7, 238-54	4.9	47
216	Rapid immunochematographic assay for ofloxacin in animal original foodstuffs using native antisera labeled by colloidal gold. <i>Talanta</i> , 2014 , 119, 125-32	6.2	46
215	Development of a rapid, specific fluorescence polarization immunoassay for the herbicide chlorsulfuron. <i>Analytica Chimica Acta</i> , 2002 , 468, 229-236	6.6	45

214	Development of a potentiometric immunosensor for herbicide simazine and its application for food testing. <i>Sensors and Actuators B: Chemical</i> , 2001 , 75, 129-135	8.5	44
213	Ochratoxin A immunoassay with surface plasmon resonance registration: Lowering limit of detection by the use of colloidal gold immunoconjugates. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 343-349	8.5	43
212	"Multistage in one touch" design with a universal labelling conjugate for high-sensitive lateral flow immunoassays. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 575-579	11.8	42
211	Pretreatment-free immunochromatographic assay for the detection of streptomycin and its application to the control of milk and dairy products. <i>Analytica Chimica Acta</i> , 2011 , 701, 209-17	6.6	40
210	Progress in rapid optical assays for heavy metal ions based on the use of nanoparticles and receptor molecules. <i>Mikrochimica Acta</i> , 2019 , 186, 172	5.8	40
209	Development of the sensitive lateral flow immunoassay with silver enhancement for the detection of <i>Ralstonia solanacearum</i> in potato tubers. <i>Talanta</i> , 2016 , 152, 521-30	6.2	39
208	Enzyme immunoassay and proteomic characterization of troponin I as a marker of mammalian muscle compounds in raw meat and some meat products. <i>Meat Science</i> , 2015 , 105, 46-52	6.4	38
207	Nanomaterials and nanotechnologies: methods of analysis and control. <i>Russian Chemical Reviews</i> , 2013 , 82, 48-76	6.8	38
206	Bifunctional gold nanoparticles as an agglomeration-enhancing tool for highly sensitive lateral flow tests: a case study with procalcitonin. <i>Mikrochimica Acta</i> , 2017 , 184, 4189-4195	5.8	38
205	Adsorption of proteins on gold nanoparticles: One or more layers?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 173, 557-563	6	38
204	Analytical Application of Lectins. <i>Critical Reviews in Analytical Chemistry</i> , 2018 , 48, 279-292	5.2	35
203	Determination of the herbicide chlorsulfuron by amperometric sensor based on separation-free bienzyme immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2004 , 98, 254-261	8.5	34
202	Immunoassay techniques for detection of the herbicide simazine based on use of oppositely charged water-soluble polyelectrolytes. <i>Analytical Chemistry</i> , 1999 , 71, 3538-43	7.8	34
201	Immunodetection of Herbicide 2,4-Dichlorophenoxyacetic Acid by Field-Effect Transistor-Based Biosensors. <i>Analytical Letters</i> , 1994 , 27, 2983-2995	2.2	34
200	Toxicity of nanosilver in intragastric studies: Biodistribution and metabolic effects. <i>Toxicology Letters</i> , 2016 , 241, 184-92	4.4	32
199	Production of Polyclonal Antibodies and Development of Fluorescence Polarization Immunoassay for Sulfanilamide. <i>Analytical Letters</i> , 2005 , 38, 951-969	2.2	32
198	Production of antibodies and development of enzyme-linked immunosorbent assays for the herbicide butachlor. <i>Analytica Chimica Acta</i> , 2003 , 491, 1-13	6.6	32
197	Setting up the cut-off level of a sensitive barcode lateral flow assay with magnetic nanoparticles. <i>Talanta</i> , 2017 , 164, 69-76	6.2	31

196	Development of immunochromatographic test systems for express detection of plant viruses. <i>Applied Biochemistry and Microbiology</i> , 2009 , 45, 204-209	1.1	31
195	Ultrasensitive magnetic ELISA of zearalenone with pre-concentration and chemiluminescent detection. <i>Food Control</i> , 2018 , 84, 330-338	6.2	30
194	Immunochemical methods of mycotoxin analysis (review). <i>Applied Biochemistry and Microbiology</i> , 2010 , 46, 253-266	1.1	30
193	Development and Comparative Study of Different Immunoenzyme Techniques for Pesticides Detection. <i>International Journal of Environmental Analytical Chemistry</i> , 1996 , 65, 95-111	1.8	30
192	Nucleic acid lateral flow assay with recombinase polymerase amplification: Solutions for highly sensitive detection of RNA virus. <i>Talanta</i> , 2020 , 210, 120616	6.2	30
191	Use of anchor protein modules in fluorescence polarisation aptamer assay for ochratoxin A determination. <i>Analytica Chimica Acta</i> , 2017 , 962, 80-87	6.6	28
190	Silver-enhanced lateral flow immunoassay for highly-sensitive detection of potato leafroll virus. <i>Food and Agricultural Immunology</i> , 2018 , 29, 445-457	2.9	28
189	Immunochemical assay for the detection of ochratoxin A. <i>Journal of Analytical Chemistry</i> , 2011 , 66, 770-776	1.1	27
188	Multiarray on a test strip (MATS): rapid multiplex immunodetection of priority potato pathogens. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 6009-17	4.4	26
187	A new assay format for electrochemical immunosensors: polyelectrolyte-based separation on membrane carriers combined with detection of peroxidase activity by pH-sensitive field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2003 , 19, 109-14	11.8	26
186	Advantages of soybean peroxidase over horseradish peroxidase as the enzyme label in chemiluminescent enzyme-linked immunosorbent assay of sulfamethoxypyridazine. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 3284-9	5.7	25
185	Methods and Applications of In Silico Aptamer Design and Modeling. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	25
184	Cut-off on demand: adjustment of the threshold level of an immunochromatographic assay for chloramphenicol. <i>Analytical Methods</i> , 2015 , 7, 6378-6384	3.2	23
183	A new kind of highly sensitive competitive lateral flow immunoassay displaying direct analyte-signal dependence. Application to the determination of the mycotoxin deoxynivalenol. <i>Mikrochimica Acta</i> , 2017 , 185, 29	5.8	23
182	Gold nanoparticles of different shape for bicolor lateral flow test. <i>Analytical Biochemistry</i> , 2019 , 568, 7-13	3.1	23
181	Enlargement of Gold Nanoparticles for Sensitive Immunochromatographic Diagnostics of Potato Brown Rot. <i>Sensors</i> , 2019 , 19,	3.8	23
180	Enhancement of lateral flow immunoassay by alkaline phosphatase: a simple and highly sensitive test for potato virus X. <i>Mikrochimica Acta</i> , 2017 , 185, 25	5.8	23
179	Fluorescence polarisation immunoassays for strobilurin fungicides kresoxim-methyl, trifloxystrobin and picoxystrobin. <i>Talanta</i> , 2017 , 162, 495-504	6.2	22

178	Quantum-dot-based immunochromatographic assay for total IgE in human serum. <i>PLoS ONE</i> , 2013 , 8, e77485	3.7	22
177	Homogeneous enzyme immunoassay for pyrethroid pesticides and their derivatives using bacillary alpha-amylase as label. <i>Analytica Chimica Acta</i> , 1997 , 347, 131-138	6.6	22
176	Mathematical Model of Serodiagnostic Immunochromatographic Assay. <i>Analytical Chemistry</i> , 2017 , 89, 4419-4427	7.8	21
175	A triple immunochromatographic test for simultaneous determination of cardiac troponin I, fatty acid binding protein, and C-reactive protein biomarkers. <i>Mikrochimica Acta</i> , 2017 , 184, 463-471	5.8	21
174	Application of gold nanoparticles produced by laser ablation for immunochromatographic assay labeling. <i>Analytical Biochemistry</i> , 2015 , 491, 65-71	3.1	21
173	Immunochromatographic Assay with Photometric Detection for Rapid Determination of the Herbicide Atrazine and Other Triazines in Foodstuffs. <i>Journal of AOAC INTERNATIONAL</i> , 2010 , 93, 36-43	1.7	21
172	Expression and refolding of tobacco anionic peroxidase from E. coli inclusion bodies. <i>Biochemistry (Moscow)</i> , 2003 , 68, 1189-94	2.9	21
171	Direct immunosensing by spectral correlation interferometry: assay characteristics versus antibody immobilization chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3955-64	4.4	20
170	Express detection of nonylphenol in water samples by fluorescence polarization immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 634-41	4.4	20
169	High-sensitivity immunochromatographic assay for fumonisin B1 based on indirect antibody labeling. <i>Biotechnology Letters</i> , 2017 , 39, 751-758	3	19
168	Rapid polyelectrolyte-based immunofiltration technique for testosterone detection in serum samples. <i>Analyst, The</i> , 2003 , 128, 1275-80	5	19
167	Key significance of DNA-target size in lateral flow assay coupled with recombinase polymerase amplification. <i>Analytica Chimica Acta</i> , 2020 , 1102, 109-118	6.6	19
166	Nano-(Q)SAR for Cytotoxicity Prediction of Engineered Nanomaterials. <i>Molecules</i> , 2019 , 24,	4.8	19
165	Lateral Flow Immunoassay for Rapid Detection of Grapevine Leafroll-Associated Virus. <i>Biosensors</i> , 2018 , 8,	5.9	19
164	Development and application of a label-free fluorescence method for determining the composition of gold nanoparticle-protein conjugates. <i>International Journal of Molecular Sciences</i> , 2014 , 16, 907-23	6.3	18
163	Production of monoclonal antibodies against fullerene C60 and development of a fullerene enzyme immunoassay. <i>Analyst, The</i> , 2012 , 137, 98-105	5	18
162	Immunoenzyme assay of nonylphenol: study of selectivity and detection of alkylphenolic non-ionic surfactants in water samples. <i>Talanta</i> , 2005 , 65, 367-74	6.2	18
161	Fluorescence Polarization-Based Bioassays: New Horizons. <i>Sensors</i> , 2020 , 20,	3.8	17

160	Molecularly imprinted polymers as receptors for assays of antibiotics. <i>Critical Reviews in Analytical Chemistry</i> , 2020 , 50, 291-310	5.2	17
159	ELISA and Lateral Flow Immunoassay for the Detection of Food Colorants: State of the Art. <i>Critical Reviews in Analytical Chemistry</i> , 2019 , 49, 209-223	5.2	16
158	Study of Distribution and Biological Effects of Fullerene C60 after Single and Multiple Intra-gastric Administrations to Rats. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015 , 23, 658-668	1.8	16
157	"External" antibodies as the simplest tool for sensitive immunochromatographic tests. <i>Talanta</i> , 2017 , 175, 77-81	6.2	16
156	Development of lateral flow immunoassay for rapid control and quantification of the presence of the colorant Sudan I in spices and seafood. <i>Food Control</i> , 2017 , 73, 247-253	6.2	16
155	Application of Magnetic Nanoparticles in Immunoassay. <i>Nanotechnologies in Russia</i> , 2017 , 12, 471-479	0.6	16
154	A New Generic Enzyme Immunoassay for Sulfonamides. <i>Analytical Letters</i> , 2007 , 40, 1047-1062	2.2	16
153	Increase of the detoxification potential of basidiomycetes by induction of laccase biosynthesis. <i>Applied Biochemistry and Microbiology</i> , 2006 , 42, 414-419	1.1	16
152	Antibodies as specific chaperones. <i>Biochemistry (Moscow)</i> , 2004 , 69, 1233-8	2.9	16
151	Alarm lateral flow immunoassay for detection of the total infection caused by the five viruses. <i>Talanta</i> , 2019 , 195, 739-744	6.2	16
150	Development of a multicomponent immunochromatographic test system for the detection of fluoroquinolone and amphenicol antibiotics in dairy products. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 3834-3842	4.3	15
149	Measurement of (Aptamer-Small Target) K Using the Competition between Fluorescently Labeled and Unlabeled Targets and the Detection of Fluorescence Anisotropy. <i>Analytical Chemistry</i> , 2018 , 90, 9189-9198	7.8	15
148	Interaction of plum pox virus with specific colloidal gold-labeled antibodies and development of immunochromatographic assay of the virus. <i>Biochemistry (Moscow)</i> , 2010 , 75, 1393-403	2.9	15
147	Complex analysis of concentrated antibody-gold nanoparticle conjugates' mixtures using asymmetric flow field-flow fractionation. <i>Journal of Chromatography A</i> , 2016 , 1477, 56-63	4.5	15
146	Highly Sensitive Immunochromatographic Detection of Antibiotic Ciprofloxacin in Milk. <i>Applied Biochemistry and Microbiology</i> , 2018 , 54, 670-676	1.1	15
145	Post-assay growth of gold nanoparticles as a tool for highly sensitive lateral flow immunoassay. Application to the detection of potato virus X. <i>Mikrochimica Acta</i> , 2018 , 185, 506	5.8	15
144	Colorimetric Determination of Lead Using Gold Nanoparticles. <i>Analytical Letters</i> , 2015 , 48, 766-782	2.2	14
143	Immunochromatographic technique for express determination of ampicillin in milk and dairy products. <i>Applied Biochemistry and Microbiology</i> , 2011 , 47, 627-634	1.1	14

142	Microplate immunoassay technique using polyelectrolyte carriers: kinetic studies and application to detection of the herbicide atrazine. <i>Analytica Chimica Acta</i> , 1999 , 399, 151-160	6.6	14
141	Urchin peroxidase-mimicking Au@Pt nanoparticles as a label in lateral flow immunoassay: impact of nanoparticle composition on detection limit of <i>Clavibacter michiganensis</i> . <i>Mikrochimica Acta</i> , 2020 , 187, 268	5.8	14
140	Ambient temperature hydrogen storage in porous materials with exposed metal sites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6801-6809	6.7	13
139	Stereospecific recognition and quantitative structure-activity relationship between antibodies and enantiomers: ofloxacin as a model hapten. <i>Analyst, The</i> , 2015 , 140, 1037-45	5	13
138	A new visual enzyme immunoassay of methamphetamine using linear water-soluble polyelectrolytes. <i>Immunology Letters</i> , 1994 , 41, 205-11	4.1	13
137	Highly sensitive immunochromatographic assay for qualitative and quantitative control of beta-agonist salbutamol and its structural analogs in foods. <i>Food Control</i> , 2018 , 86, 50-58	6.2	13
136	How to Improve Sensitivity of Sandwich Lateral Flow Immunoassay for Corpuscular Antigens on the Example of Potato Virus Y?. <i>Sensors</i> , 2018 , 18,	3.8	13
135	Development of a lateral flow immunoassay for rapid diagnosis of potato blackleg caused by <i>Dickeya</i> species. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 1915-1927	4.4	12
134	Advantages of Highly Spherical Gold Nanoparticles as Labels for Lateral Flow Immunoassay. <i>Sensors</i> , 2020 , 20,	3.8	12
133	Fullerenes: In vivo studies of biodistribution, toxicity, and biological action. <i>Nanotechnologies in Russia</i> , 2014 , 9, 601-617	0.6	12
132	Design of Multiplex Lateral Flow Tests: A Case Study for Simultaneous Detection of Three Antibiotics. <i>Biosensors</i> , 2020 , 10,	5.9	11
131	Development of a double immunochromatographic test system for simultaneous determination of lincomycin and tylosin antibiotics in foodstuffs. <i>Food Chemistry</i> , 2020 , 318, 126510	8.5	11
130	An immunochromatographic test system for the determination of lincomycin in foodstuffs of animal origin. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1141, 122014	3.2	11
129	Identification of silver nanoparticles in the small intestinal mucosa, liver, and spleen of rats by transmission electron microscopy. <i>Bulletin of Experimental Biology and Medicine</i> , 2013 , 155, 236-41	0.8	11
128	Detection of Intermolecular Interactions Based on Surface Plasmon Resonance Registration. <i>Biochemistry (Moscow)</i> , 2015 , 80, 1820-32	2.9	11
127	Preparation of antibodies and development of enzyme-linked immunosorbent assay for nonylphenol. <i>International Journal of Environmental Analytical Chemistry</i> , 2004 , 84, 965-978	1.8	11
126	Fluorescence polarization immunoassay of ractopamine. <i>Applied Biochemistry and Microbiology</i> , 2016 , 52, 673-678	1.1	10
125	Application of magnetite nanoparticles for the development of highly sensitive immunochromatographic test systems for mycotoxin detection. <i>Applied Biochemistry and Microbiology</i> , 2017 , 53, 470-475	1.1	10

124	Mathematical Modeling of Bioassays. <i>Biochemistry (Moscow)</i> , 2017 , 82, 1744-1766	2.9	10
123	Production of anti-fullerene C60 polyclonal antibodies and study of their interaction with a conjugated form of fullerene. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3713-3719	2.3	10
122	An Immunochromatographic Assay of 2,4-Dichlorophenoxyacetic Acid and Simazine Using Monoclonal Antibodies Labeled with Colloidal Gold. <i>Russian Journal of Bioorganic Chemistry</i> , 2004 , 30, 178-183	1	10
121	Development of Enzyme Immunoassays for the Herbicide Chlorsulfuron. <i>Applied Biochemistry and Microbiology</i> , 2002 , 38, 9-14	1.1	10
120	Antiperoxidase antibodies enhance refolding of horseradish peroxidase. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 291, 959-65	3.4	10
119	Lectin-based detection of Escherichia coli and Staphylococcus aureus by flow cytometry. <i>Archives of Microbiology</i> , 2019 , 201, 313-324	3	10
118	Electrochemical aptamer biosensor for As ³⁺ based on apta deep trapped Ag-Au alloy nanoparticles-impregnated glassy carbon electrode. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 100, 623-634	1.8	10
117	Methods for the Diagnosis of Grapevine Viral Infections: A Review. <i>Agriculture (Switzerland)</i> , 2018 , 8, 195	3	10
116	Ways to Reach Lower Detection Limits of Lateral Flow Immunoassays 2018 ,		10
115	Express immunochromatographic detection of antibodies against Brucella abortus in cattle sera based on quantitative photometric registration and modulated cut-off level. <i>Journal of Immunoassay and Immunochemistry</i> , 2015 , 36, 80-90	1.8	9
114	Recombinase polymerase amplification combined with a magnetic nanoparticle-based immunoassay for fluorometric determination of troponin T. <i>Mikrochimica Acta</i> , 2019 , 186, 549	5.8	9
113	Complexes of Gold Nanoparticles with Antibodies in Immunochromatography: Comparison of Direct and Indirect Immobilization of Antibodies for the Detection of Antibiotics. <i>Nanotechnologies in Russia</i> , 2018 , 13, 430-438	0.6	9
112	Immunochromatographic Detection of Myoglobin as a Specific Biomarker of Porcine Muscle Tissues in Meat Products. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7437	2.6	8
111	Theoretical and Experimental Comparison of Different Formats of Immunochromatographic Serodiagnostics. <i>Sensors</i> , 2017 , 18,	3.8	8
110	Lateral flow immunoassay for rapid detection of potato ring rot caused by Clavibacter michiganensis subsp. sepedonicus. <i>Applied Biochemistry and Microbiology</i> , 2014 , 50, 675-682	1.1	8
109	Comparison of two express immunotechniques with polyelectrolyte carriers, ELISA and FIAA, for the analysis of atrazine. <i>Talanta</i> , 2005 , 65, 324-30	6.2	8
108	Development of liposome immune lysis assay for the herbicide atrazine. <i>Journal of Immunoassay and Immunochemistry</i> , 2004 , 25, 279-94	1.8	8
107	Laccase from Coriolus hirsutus as alternate label for enzyme immunoassay. Determination of pesticide 2,4-dichlorophenoxyacetic acid. <i>Applied Biochemistry and Biotechnology</i> , 1999 , 76, 203-15	3.2	8

106	Size-Dependent Differences in Biodistribution of Titanium Dioxide Nanoparticles After Sub-Acute Intra-gastric Administrations to Rats. <i>Current Nanoscience</i> , 2016 , 12, 228-236	1.4	8
105	Potato production and innovative technologies 2007 ,		8
104	Ternary covalent conjugate (antibody-gold nanoparticle-peroxidase) for signal enhancement in enzyme immunoassay. <i>RSC Advances</i> , 2016 , 6, 48827-48833	3.7	8
103	Fluorescence Polarization Immunoassay for Determination of Enrofloxacin in Pork Liver and Chicken. <i>Molecules</i> , 2019 , 24,	4.8	8
102	Lateral flow immunoassay for sensitive detection of undeclared chicken meat in meat products. <i>Food Chemistry</i> , 2021 , 344, 128598	8.5	8
101	Silanized quantum dots as labels in lateral flow test strips for C-reactive protein. <i>Analytical Letters</i> , 2019 , 52, 1874-1887	2.2	7
100	Development of an immunochromatographic test system for the detection of Helicobacter pylori antigens. <i>Applied Biochemistry and Microbiology</i> , 2015 , 51, 608-617	1.1	7
99	Immunochromatographic test system for the detection of T-2 toxin. <i>Applied Biochemistry and Microbiology</i> , 2015 , 51, 688-694	1.1	7
98	Fluorescence polarization immunoassay of colchicine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 159, 326-330	3.5	7
97	Application of atomic force microscopy for characteristics of single intermolecular interactions. <i>Biochemistry (Moscow)</i> , 2012 , 77, 1536-52	2.9	7
96	Development of lateral flow assay combined with recombinase polymerase amplification for highly sensitive detection of Dickeya solani. <i>Molecular and Cellular Probes</i> , 2020 , 53, 101622	3.3	7
95	Sensitive lateral flow immunoassay of an antibiotic neomycin in foodstuffs. <i>Journal of Food Science and Technology</i> , 2021 , 58, 292-301	3.3	7
94	The steadfast Au@Pt soldier: Peroxide-tolerant nanozyme for signal enhancement in lateral flow immunoassay of peroxidase-containing samples. <i>Talanta</i> , 2021 , 225, 121961	6.2	7
93	Development of Immunochromatographic Assay for Determination of Tetracycline in Human Serum. <i>Antibiotics</i> , 2018 , 7,	4.9	7
92	Magnetic ELISA of aflatoxin B1 [pre-concentration without elution. <i>Analytical Methods</i> , 2015 , 7, 10177-10184	1.84	6
91	Probing the stereoselective interaction of ofloxacin enantiomers with corresponding monoclonal antibodies by multiple spectrometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 194, 83-91	4.4	6
90	Highly Sensitive Immunochromatographic Identification of Tetracycline Antibiotics in Milk. <i>International Journal of Analytical Chemistry</i> , 2015 , 2015, 347621	1.4	6
89	Immunochromatographic assay for serodiagnosis of tuberculosis using an antigen-colloidal gold conjugate. <i>Applied Biochemistry and Microbiology</i> , 2015 , 51, 834-839	1.1	6

88	Interaction between antibodies and hapten-protein conjugates of different composition: theoretical predictions and experimental data. <i>Journal of Immunoassay</i> , 1997 , 18, 67-95		6
87	Immunochemical tests for the detection of microcystin-LR toxin in water and fish samples. <i>Analytical Methods</i> , 2020 , 12, 392-400	3.2	6
86	Multiplex highly sensitive immunochemical assay based on the use of nonprocessed antisera. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 1903-1910	4.4	5
85	Immunochemical assay of T-2 toxin using labeled anti-species antibodies. <i>Applied Biochemistry and Microbiology</i> , 2017 , 53, 594-599	1.1	5
84	Enzyme Immunoassay of Herbicide Decomposition by Soil and Wood Decay Fungi. <i>Applied Biochemistry and Microbiology</i> , 2002 , 38, 355-360	1.1	5
83	Experimental study and mathematical modeling of the interaction between antibodies and antigens on the surface of liposomes. <i>Molecular Immunology</i> , 2002 , 39, 413-22	4.3	5
82	The Challenge for Rapid Detection of High-Structured Circular RNA: Assay of Potato Spindle Tuber Viroid Based on Recombinase Polymerase Amplification and Lateral Flow Tests. <i>Plants</i> , 2020 , 9,	4.5	5
81	Lateral Flow Immunoassay to Detect the Addition of Beef, Pork, Lamb, and Horse Muscles in Raw Meat Mixtures and Finished Meat Products. <i>Foods</i> , 2020 , 9,	4.9	5
80	Rapid and selective electrochemical detection of pb ²⁺ ions using aptamer-conjugated alloy nanoparticles. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	5
79	Chemiluminescence catalysed by gold nanoparticles for the analysis of arsenic (III) in real water. <i>Journal of Experimental Nanoscience</i> , 2016 , 11, 1372-1383	1.9	5
78	Peroxidase-mimicking nanozyme with surface-dispersed Pt atoms for the colorimetric lateral flow immunoassay of C-reactive protein. <i>Mikrochimica Acta</i> , 2021 , 188, 309	5.8	5
77	QSAR analysis of immune recognition for triazine herbicides based on immunoassay data for polyclonal and monoclonal antibodies. <i>PLoS ONE</i> , 2019 , 14, e0214879	3.7	4
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