

Anatoly V Zherdev

List of Publications by Year in descending order

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251
papers

5,516
citations

94433

37
h-index

138484

58
g-index

262
all docs

262
docs citations

262
times ranked

4598
citing authors

#	ARTICLE	IF	CITATIONS
1	Immunochemical methods in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 55, 81-93.	11.4	287
2	“Traffic light” immunochromatographic test based on multicolor quantum dots for the simultaneous detection of several antibiotics in milk. <i>Biosensors and Bioelectronics</i> , 2015, 63, 255-261.	10.1	255
3	Quantum dot-based lateral flow immunoassay for detection of chloramphenicol in milk. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4997-5000.	3.7	167
4	Towards Lateral Flow Quantitative Assays: Detection Approaches. <i>Biosensors</i> , 2019, 9, 89.	4.7	133
5	Less is More: A Comparison of Antibody-Gold Nanoparticle Conjugates of Different Ratios. <i>Bioconjugate Chemistry</i> , 2017, 28, 2737-2746.	3.6	96
6	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, 1595-1605.	3.7	88
7	Rapid pretreatment-free immunochromatographic assay of chloramphenicol in milk. <i>Talanta</i> , 2010, 81, 843-848.	5.5	87
8	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.	10.1	77
9	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.	5.4	77
10	Methods and Applications of In Silico Aptamer Design and Modeling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8420.	4.1	72
11	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.	5.0	68
12	Rapid immunochromatographic assay for ofloxacin in animal original foodstuffs using native antisera labeled by colloidal gold. <i>Talanta</i> , 2014, 119, 125-132.	5.5	67
13	Adsorption of proteins on gold nanoparticles: One or more layers?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 557-563.	5.0	67
14	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.	1.4	62
15	Use of gold nanoparticle-labeled secondary antibodies to improve the sensitivity of an immunochromatographic assay for aflatoxin B1. <i>Mikrochimica Acta</i> , 2014, 181, 1939-1946.	5.0	62
16	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.	5.4	59
17	Rapid Immunoenzyme Assay of Aflatoxin B1 Using Magnetic Nanoparticles. <i>Sensors</i> , 2014, 14, 21843-21857.	3.8	57
18	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, 521-530.	5.5	56

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19	Rapid Multiple Immunoenzyme Assay of Mycotoxins. <i>Toxins</i> , 2015, 7, 238-254.	3.4	55
20	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.	5.0	55
21	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.	5.5	52
22	Development of a rapid, specific fluorescence polarization immunoassay for the herbicide chlorsulfuron. <i>Analytica Chimica Acta</i> , 2002, 468, 229-236.	5.4	50
23	Ultrasensitive magnetic ELISA of zearalenone with pre-concentration and chemiluminescent detection. <i>Food Control</i> , 2018, 84, 330-338.	5.5	50
24	"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.	10.1	49
25	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, 209-217.	5.4	48
26	Analytical Application of Lectins. <i>Critical Reviews in Analytical Chemistry</i> , 2018, 48, 279-292.	3.5	48
27	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.	5.0	47
28	Silver-enhanced lateral flow immunoassay for highly-sensitive detection of potato leafroll virus. <i>Food and Agricultural Immunology</i> , 2018, 29, 445-457.	1.4	47
29	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.	7.8	46
30	Nanomaterials and nanotechnologies: methods of analysis and control. <i>Russian Chemical Reviews</i> , 2013, 82, 48-76.	6.5	46
31	Nucleic acid lateral flow assay with recombinase polymerase amplification: Solutions for highly sensitive detection of RNA virus. <i>Talanta</i> , 2020, 210, 120616.	5.5	46
32	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.	7.8	45
33	Fluorescence Polarization-Based Bioassays: New Horizons. <i>Sensors</i> , 2020, 20, 7132.	3.8	43
34	Setting up the cut-off level of a sensitive barcode lateral flow assay with magnetic nanoparticles. <i>Talanta</i> , 2017, 164, 69-76.	5.5	42
35	Use of anchor protein modules in fluorescence polarisation aptamer assay for ochratoxin A determination. <i>Analytica Chimica Acta</i> , 2017, 962, 80-87.	5.4	39
36	Nano-(Q)SAR for Cytotoxicity Prediction of Engineered Nanomaterials. <i>Molecules</i> , 2019, 24, 4537.	3.8	39

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37	Molecularly imprinted polymers as receptors for assays of antibiotics. <i>Critical Reviews in Analytical Chemistry</i> , 2020, 50, 291-310.	3.5	39
38	Toxicity of nanosilver in intragastric studies: Biodistribution and metabolic effects. <i>Toxicology Letters</i> , 2016, 241, 184-192.	0.8	38
39	Immunoassay Techniques for Detection of the Herbicide Simazine Based on Use of Oppositely Charged Water-Soluble Polyelectrolytes. <i>Analytical Chemistry</i> , 1999, 71, 3538-3543.	6.5	37
40	Production of Polyclonal Antibodies and Development of Fluorescence Polarization Immunoassay for Sulfanilamide. <i>Analytical Letters</i> , 2005, 38, 951-969.	1.8	37
41	Immunodetection of Herbicide 2,4-Dichlorophenoxyacetic Acid by Field-Effect Transistor-Based Biosensors. <i>Analytical Letters</i> , 1994, 27, 2983-2995.	1.8	36
42	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.	7.8	36
43	Development and Comparative Study of Different Immunoenzyme Techniques for Pesticides Detection. <i>International Journal of Environmental Analytical Chemistry</i> , 1996, 65, 95-111.	3.3	35
44	Production of antibodies and development of enzyme-linked immunosorbent assays for the herbicide butachlor. <i>Analytica Chimica Acta</i> , 2003, 491, 1-13.	5.4	35
45	Enlargement of Gold Nanoparticles for Sensitive Immunochemical Diagnostics of Potato Brown Rot. <i>Sensors</i> , 2019, 19, 153.	3.8	35
46	Development of immunochromatographic test systems for express detection of plant viruses. <i>Applied Biochemistry and Microbiology</i> , 2009, 45, 204-209.	0.9	33
47	Immunochemical methods of mycotoxin analysis (review). <i>Applied Biochemistry and Microbiology</i> , 2010, 46, 253-266.	0.9	33
48	Cut-off on demand: adjustment of the threshold level of an immunochromatographic assay for chloramphenicol. <i>Analytical Methods</i> , 2015, 7, 6378-6384.	2.7	33
49	Multiarray on a test strip (MATS): rapid multiplex immunodetection of priority potato pathogens. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6009-6017.	3.7	33
50	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.	5.0	33
51	Gold nanoparticles of different shape for bicolor lateral flow test. <i>Analytical Biochemistry</i> , 2019, 568, 7-13.	2.4	33
52	Immunochemical assay for the detection of ochratoxin A. <i>Journal of Analytical Chemistry</i> , 2011, 66, 770-776.	0.9	32
53	Direct immunosensing by spectral correlation interferometry: assay characteristics versus antibody immobilization chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3955-3964.	3.7	31
54	Enhancement of lateral flow immunoassay by alkaline phosphatase: a simple and highly sensitive test for potato virus X. <i>Mikrochimica Acta</i> , 2018, 185, 25.	5.0	30

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55	Mathematical Model of Serodiagnostic Immunochromatographic Assay. <i>Analytical Chemistry</i> , 2017, 89, 4419-4427.	6.5	29
56	Fluorescence polarisation immunoassays for strobilurin fungicides kresoxim-methyl, trifloxystrobin and picoxystrobin. <i>Talanta</i> , 2017, 162, 495-504.	5.5	29
57	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, 109-114.	10.1	28
58	Advantages of Soybean Peroxidase over Horseradish Peroxidase as the Enzyme Label in Chemiluminescent Enzyme-Linked Immunosorbent Assay of Sulfamethoxy pyridazine. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 3284-3289.	5.2	28
59	Quantum-Dot-Based Immunochromatographic Assay for Total IgE in Human Serum. <i>PLoS ONE</i> , 2013, 8, e77485.	2.5	28
60	Key significance of DNA-target size in lateral flow assay coupled with recombinase polymerase amplification. <i>Analytica Chimica Acta</i> , 2020, 1102, 109-118.	5.4	28
61	Application of gold nanoparticles produced by laser ablation for immunochromatographic assay labeling. <i>Analytical Biochemistry</i> , 2015, 491, 65-71.	2.4	27
62	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.	5.5	27
63	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> , 2018, 185, 29.	5.0	26
64	Lateral Flow Immunoassay for Rapid Detection of Grapevine Leafroll-Associated Virus. <i>Biosensors</i> , 2018, 8, 111.	4.7	26
65	Highly Sensitive Immunochromatographic Detection of Antibiotic Ciprofloxacin in Milk. <i>Applied Biochemistry and Microbiology</i> , 2018, 54, 670-676.	0.9	26
66	Raman Scattering-Based Biosensing: New Prospects and Opportunities. <i>Biosensors</i> , 2021, 11, 512.	4.7	26
67	Homogeneous enzyme immunoassay for pyrethroid pesticides and their derivatives using bacillary alpha-amylase as label. <i>Analytica Chimica Acta</i> , 1997, 347, 131-138.	5.4	25
68	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.	5.0	25
69	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.	3.5	25
70	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.	3.5	25
71	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.	1.5	24
72	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.	5.0	24

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73	Lateral flow immunoassay for sensitive detection of undeclared chicken meat in meat products. <i>Food Chemistry</i> , 2021, 344, 128598.	8.2	24
74	Production of monoclonal antibodies against fullerene C ₆₀ and development of a fullerene enzyme immunoassay. <i>Analyst</i> , The, 2012, 137, 98-105.	3.5	23
75	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> , 2015, 16, 907-923.	4.1	23
76	Application of Magnetic Nanoparticles in Immunoassay. <i>Nanotechnologies in Russia</i> , 2017, 12, 471-479.	0.7	23
77	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.	5.5	23
78	Development of a double immunochromatographic test system for simultaneous determination of lincomycin and tylosin antibiotics in foodstuffs. <i>Food Chemistry</i> , 2020, 318, 126510.	8.2	23
79	Sensitive lateral flow immunoassay of an antibiotic neomycin in foodstuffs. <i>Journal of Food Science and Technology</i> , 2021, 58, 292-301.	2.8	23
80	Expression and Refolding of Tobacco Anionic Peroxidase from E. coli Inclusion Bodies. <i>Biochemistry (Moscow)</i> , 2003, 68, 1189-1194.	1.5	22
81	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.	5.5	22
82	How to Improve Sensitivity of Sandwich Lateral Flow Immunoassay for Corpuscular Antigens on the Example of Potato Virus Y?. <i>Sensors</i> , 2018, 18, 3975.	3.8	22
83	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.	3.3	22
84	Lateral Flow Immunoassay of SARS-CoV-2 Antigen with SERS-Based Registration: Development and Comparison with Traditional Immunoassays. <i>Biosensors</i> , 2021, 11, 510.	4.7	22
85	Express detection of nonylphenol in water samples by fluorescence polarization immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 634-641.	3.7	21
86	Immunoenzyme assay of nonylphenol: study of selectivity and detection of alkylphenolic non-ionic surfactants in water samples. <i>Talanta</i> , 2005, 65, 367-374.	5.5	21
87	High-sensitivity immunochromatographic assay for fumonisin B1 based on indirect antibody labeling. <i>Biotechnology Letters</i> , 2017, 39, 751-758.	2.2	21
88	External antibodies as the simplest tool for sensitive immunochromatographic tests. <i>Talanta</i> , 2017, 175, 77-81.	5.5	21
89	Alarm lateral flow immunoassay for detection of the total infection caused by the five viruses. <i>Talanta</i> , 2019, 195, 739-744.	5.5	21
90	Increase of the detoxification potential of basidiomycetes by induction of laccase biosynthesis. <i>Applied Biochemistry and Microbiology</i> , 2006, 42, 414-419.	0.9	20

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91	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, 1393-1403.	1.5	20
92	The Potential Use of Isothermal Amplification Assays for In-Field Diagnostics of Plant Pathogens. <i>Plants</i> , 2021, 10, 2424.	3.5	20
93	Rapid polyelectrolyte-based immunofiltration technique for testosterone detection in serum samples. <i>Analyst, The</i> , 2003, 128, 1275.	3.5	19
94	Antibodies as specific chaperones. <i>Biochemistry (Moscow)</i> , 2004, 69, 1233-1238.	1.5	19
95	Study of Distribution and Biological Effects of Fullerene C ₆₀ after Single and Multiple Intra-gastric Administrations to Rats. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 658-668.	2.1	19
96	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.	3.7	19
97	Measurement of (Aptamer-“Small Target” K_D) Using the Competition between Fluorescently Labeled and Unlabeled Targets and the Detection of Fluorescence Anisotropy. <i>Analytical Chemistry</i> , 2018, 90, 9189-9198.	6.5	19
98	Lectin-based detection of Escherichia coli and Staphylococcus aureus by flow cytometry. <i>Archives of Microbiology</i> , 2019, 201, 313-324.	2.2	19
99	Rapid and selective electrochemical detection of pb ²⁺ ions using aptamer-conjugated alloy nanoparticles. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	19
100	Advantages of Highly Spherical Gold Nanoparticles as Labels for Lateral Flow Immunoassay. <i>Sensors</i> , 2020, 20, 3608.	3.8	19
101	Multiplex Assay of Viruses Integrating Recombinase Polymerase Amplification, Barcode™ Anti-Barcode Pairs, Blocking Anti-Primers, and Lateral Flow Assay. <i>Analytical Chemistry</i> , 2021, 93, 13641-13650.	6.5	19
102	Sensitive lateral flow immunoassay for the detection of pork additives in raw and cooked meat products. <i>Food Chemistry</i> , 2021, 359, 129927.	8.2	19
103	Colorimetric Determination of Lead Using Gold Nanoparticles. <i>Analytical Letters</i> , 2015, 48, 766-782.	1.8	18
104	Methods for the Diagnosis of Grapevine Viral Infections: A Review. <i>Agriculture (Switzerland)</i> , 2018, 8, 195.	3.1	18
105	Fluorescence Polarization Immunoassay for Determination of Enrofloxacin in Pork Liver and Chicken. <i>Molecules</i> , 2019, 24, 4462.	3.8	18
106	Design of Multiplex Lateral Flow Tests: A Case Study for Simultaneous Detection of Three Antibiotics. <i>Biosensors</i> , 2020, 10, 17.	4.7	18
107	Immunochromatographic technique for express determination of ampicillin in milk and dairy products. <i>Applied Biochemistry and Microbiology</i> , 2011, 47, 627-634.	0.9	17
108	Immunochromatographic Detection of Myoglobin as a Specific Biomarker of Porcine Muscle Tissues in Meat Products. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7437.	2.5	17

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109	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.	5.0	17
110	A New Generic Enzyme Immunoassay for Sulfonamides. <i>Analytical Letters</i> , 2007, 40, 1047-1062.	1.8	16
111	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, 236-241.	0.8	16
112	Ways to Reach Lower Detection Limits of Lateral Flow Immunoassays. , 0, , .		16
113	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.	2.3	16
114	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.	5.4	15
115	Preparation of antibodies and development of enzyme-linked immunosorbent assay for nonylphenol. <i>International Journal of Environmental Analytical Chemistry</i> , 2004, 84, 965-978.	3.3	15
116	Ambient temperature hydrogen storage in porous materials with exposed metal sites. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6801-6809.	7.1	15
117	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.	3.7	15
118	A new visual enzyme immunoassay of methamphetamine using linear water-soluble polyelectrolytes. <i>Immunology Letters</i> , 1994, 41, 205-211.	2.5	14
119	Fullerenes: In vivo studies of biodistribution, toxicity, and biological action. <i>Nanotechnologies in Russia</i> , 2014, 9, 601-617.	0.7	14
120	Stereospecific recognition and quantitative structure-activity relationship between antibodies and enantiomers: ofloxacin as a model hapten. <i>Analyst, The</i> , 2015, 140, 1037-1045.	3.5	14
121	Mathematical modeling of bioassays. <i>Biochemistry (Moscow)</i> , 2017, 82, 1744-1766.	1.5	14
122	Fluorescence polarization immunoassay of colchicine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 159, 326-330.	2.8	14
123	Development of lateral flow assay combined with recombinase polymerase amplification for highly sensitive detection of <i>Dickeya solani</i> . <i>Molecular and Cellular Probes</i> , 2020, 53, 101622.	2.1	14
124	Comparative Study of In Situ Techniques to Enlarge Gold Nanoparticles for Highly Sensitive Lateral Flow Immunoassay of SARS-CoV-2. <i>Biosensors</i> , 2021, 11, 229.	4.7	14
125	Cascade-Enhanced Lateral Flow Immunoassay for Sensitive Detection of Okadaic Acid in Seawater, Fish, and Seafood. <i>Foods</i> , 2022, 11, 1691.	4.3	14
126	Detection of Intermolecular Interactions Based on Surface Plasmon Resonance Registration. <i>Biochemistry (Moscow)</i> , 2015, 80, 1820-1832.	1.5	13

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127	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.	0.9	13
128	Recombinase polymerase amplification combined with a magnetic nanoparticle-based immunoassay for fluorometric determination of troponin T. <i>Mikrochimica Acta</i> , 2019, 186, 549.	5.0	13
129	Combination of phenylboronic acid and oligocytosine for selective and specific detection of lead(ii) by lateral flow test strip. <i>Analytica Chimica Acta</i> , 2021, 1155, 338318.	5.4	13
130	Comparison of two express immunotechniques with polyelectrolyte carriers, ELISA and FIAA, for the analysis of atrazine. <i>Talanta</i> , 2005, 65, 324-330.	5.5	12
131	Highly Sensitive Immunochromatographic Identification of Tetracycline Antibiotics in Milk. <i>International Journal of Analytical Chemistry</i> , 2015, 2015, 1-10.	1.0	12
132	Fluorescence polarization immunoassay of ractopamine. <i>Applied Biochemistry and Microbiology</i> , 2016, 52, 673-678.	0.9	12
133	Theoretical and Experimental Comparison of Different Formats of Immunochromatographic Serodiagnostics. <i>Sensors</i> , 2018, 18, 36.	3.8	12
134	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, 1662.	4.3	12
135	Changing Cross-Reactivity for Different Immunoassays Using the Same Antibodies: Theoretical Description and Experimental Confirmation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6581.	2.5	12
136	Tannic Acid-Capped Gold Nanoparticles as a Novel Nanozyme for Colorimetric Determination of Pb ²⁺ Ions. <i>Chemosensors</i> , 2021, 9, 332.	3.6	12
137	DIRECT2: A novel platform for a CRISPR-Cas12-based assay comprising universal DNA-IgG probe and a direct lateral flow test. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114227.	10.1	12
138	Antiperoxidase Antibodies Enhance Refolding of Horseradish Peroxidase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 291, 959-965.	2.1	11
139	Development of Enzyme Immunoassays for the Herbicide Chlorsulfuron. <i>Applied Biochemistry and Microbiology</i> , 2002, 38, 9-14.	0.9	11
140	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.	1.0	11
141	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.	1.9	11
142	Development of an immunochromatographic test system for the detection of <i>Helicobacter pylori</i> antigens. <i>Applied Biochemistry and Microbiology</i> , 2015, 51, 608-617.	0.9	11
143	Development of Immunochromatographic Assay for Determination of Tetracycline in Human Serum. <i>Antibiotics</i> , 2018, 7, 99.	3.7	11
144	Immunochromatographic tests for the detection of microcystin-LR toxin in water and fish samples. <i>Analytical Methods</i> , 2020, 12, 392-400.	2.7	11

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145	Mathematical modeling of immunochromatographic test systems in a competitive format: Analytical and numerical approaches. <i>Biochemical Engineering Journal</i> , 2020, 164, 107763.	3.6	11
146	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.	1.2	11
147	Retention of Activity by Antibodies Immobilized on Gold Nanoparticles of Different Sizes: Fluorometric Method of Determination and Comparative Evaluation. <i>Nanomaterials</i> , 2021, 11, 3117.	4.1	11
148	Laccase from <i>Coriolus hirsutus</i> as Alternate Label for Enzyme Immunoassay: Determination of Pesticide 2,4-Dichlorophenoxyacetic Acid. <i>Applied Biochemistry and Biotechnology</i> , 1999, 76, 203-216.	2.9	10
149	Development of Liposome Immune Lysis Assay for the Herbicide Atrazine. <i>Journal of Immunoassay and Immunochemistry</i> , 2004, 25, 279-294.	1.1	10
150	Lateral flow immunoassay for rapid detection of potato ring rot caused by <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> . <i>Applied Biochemistry and Microbiology</i> , 2014, 50, 675-682.	0.9	10
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