Anatoly V Zherdev

List of Publications by Year in Descending Order

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	DIRECT: A novel platform for a CRISPR-Cas12-based assay comprising universal DNA-IgG probe and a direct lateral flow test.. *Biosensors and Bioelectronics*, **2022**, 208, 114227	11.8	1
230	Comparative study of magnetic beads and microplates as supports in heterogeneous amplified assay of miRNA-141 by using mismatched catalytic hairpin assembly reaction. *Talanta*, **2022**, 123535	6.2	
229	Double Competitive Immunodetection of Small Analyte:
Realization for Highly Sensitive Lateral Flow
Immunoassay of Chloramphenicol
. *Biosensors*, **2022**, 12, 343	5.9	0
228	Recombinase Polymerase Amplification Assay with and without Nuclease-Dependent-Labeled Oligonucleotide Probe. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
227	The Potential Use of Isothermal Amplification Assays for In-Field Diagnostics of Plant Pathogens. *Plants*, **2021**, 10,	4.5	4
226	Tannic Acid-Capped Gold Nanoparticles as a Novel Nanozyme for Colorimetric Determination of Pb2+ Ions. *Chemosensors*, **2021**, 9, 332	4	2
225	Double qualitative immunochromatographic test for simultaneous control of chicken muscles and eggs in food. *Journal of Food Composition and Analysis*, **2021**, 106, 104324	4.1	
224	Mercaptosuccinic-Acid-Functionalized Gold Nanoparticles for Highly Sensitive Colorimetric Sensing of Fe(III) Ions. *Chemosensors*, **2021**, 9, 290	4	2
223	Development of new immunoanalytical test systems for diagnostics of potato blackleg caused by Dickeya spp. bacteria. *RUDN Journal of Agronomy and Animal Industries*, **2021**, 16, 198-214	0.5	
222	Ultrasensitive lateral flow immunoassay of phycotoxin microcystin-LR in seafood based on magnetic particles and peroxidase signal amplification. *Food Control*, **2021**, 133, 108655	6.2	0
221	Combination of phenylboronic acid and oligocytosine for selective and specific detection of lead(ii) by lateral flow test strip. *Analytica Chimica Acta*, **2021**, 1155, 338318	6.6	3
220	Immunochromatographic Test Systems for Detection of Microcystin-LR in Seafood. *Applied Biochemistry and Microbiology*, **2021**, 57, 403-409	1.1	2
219	Changing Cross-Reactivity for Different Immunoassays Using the Same Antibodies: Theoretical Description and Experimental Confirmation. *Applied Sciences (Switzerland)*, **2021**, 11, 6581	2.6	1
218	Comparative Study of In Situ Techniques to Enlarge Gold Nanoparticles for Highly Sensitive Lateral Flow Immunoassay of SARS-CoV-2. *Biosensors*, **2021**, 11,	5.9	1
217	Sensitive lateral flow immunoassay of an antibiotic neomycin in foodstuffs. *Journal of Food Science and Technology*, **2021**, 58, 292-301	3.3	7
216	The steadfast Au@Pt soldier: Peroxide-tolerant nanozyme for signal enhancement in lateral flow immunoassay of peroxidase-containing samples. *Talanta*, **2021**, 225, 121961	6.2	7
215	Lateral flow immunoassay for sensitive detection of undeclared chicken meat in meat products. *Food Chemistry*, **2021**, 344, 128598	8.5	8

214	Limitations for colorimetric aggregation assay of metal ions and ways of their overcoming. *Analytical Methods*, **2021**, 13, 250-257	3.2	1
213	Network of gold conjugates for enhanced sensitive immunochromatographic assays of troponins.. *RSC Advances*, **2021**, 11, 16445-16452	3.7	1
212	Peroxidase-mimicking nanozyme with surface-dispersed Pt atoms for the colorimetric lateral flow immunoassay of C-reactive protein. *Mikrochimica Acta*, **2021**, 188, 309	5.8	5
211	Multiplex Assay of Viruses Integrating Recombinase Polymerase Amplification, Barcode-Anti-Barcode Pairs, Blocking Anti-Primers, and Lateral Flow Assay. *Analytical Chemistry*, **2021**, 93, 13641-13650	7.8	4
210	Sensitive lateral flow immunoassay for the detection of pork additives in raw and cooked meat products. *Food Chemistry*, **2021**, 359, 129927	8.5	4
209	Raman Scattering-Based Biosensing: New Prospects and Opportunities.. *Biosensors*, **2021**, 11,	5.9	4
208	A Comparative Study of Approaches to Improve the Sensitivity of Lateral Flow Immunoassay of the Antibiotic Lincomycin. *Biosensors*, **2020**, 10,	5.9	2
207	Fluorescence Polarization-Based Bioassays: New Horizons. *Sensors*, **2020**, 20,	3.8	17
206	Immunochromatographic Detection of Myoglobin as a Specific Biomarker of Porcine Muscle Tissues in Meat Products. *Applied Sciences (Switzerland)*, **2020**, 10, 7437	2.6	8
205	Design of Multiplex Lateral Flow Tests: A Case Study for Simultaneous Detection of Three Antibiotics. *Biosensors*, **2020**, 10,	5.9	11
204	Advantages of Highly Spherical Gold Nanoparticles as Labels for Lateral Flow Immunoassay. *Sensors* , **2020**, 20,	3.8	12
203	Development of a double immunochromatographic test system for simultaneous determination of lincomycin and tylosin antibiotics in foodstuffs. *Food Chemistry*, **2020**, 318, 126510	8.5	11
202	Immunochromatographic System for Serodiagnostics of Cattle Brucellosis Using Gold Nanoparticles and Signal Amplification with Quantum Dots. *Applied Sciences (Switzerland)*, **2020**, 10, 738	2.6	3
201	A Mechanism of Gold Nanoparticle Aggregation by Immunoglobulin G Preparation. *Applied Sciences (Switzerland)*, **2020**, 10, 475	2.6	3
200	An immunochromatographic test system for the determination of lincomycin in foodstuffs of animal origin. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2020**, 1141, 122014	3.2	11
199	Quality and Safety of Meat Products in Russia: Results of Monitoring Samples from Manufacturers and Evaluation of Analytical Methods. *Current Research in Nutrition and Food Science*, **2020**, 8, 41-47	1.1	0
198	Electron-Microscopic Investigation of the Distribution of Titanium Dioxide (rutile) Nanoparticles in the Rats Small Intestine Mucosa, Liver, and Spleen. *Current Nanoscience*, **2020**, 16, 268-279	1.4	2
197	Lateral Flow Serodiagnosis in the Double-Antigen Sandwich Format: Theoretical Consideration and Confirmation of Advantages. *Sensors*, **2020**, 21,	3.8	4

196	Lateral flow immunoassay for rapid qualitative and quantitative control of the veterinary drug bacitracin in milk. *Microchemical Journal*, **2020**, 156, 104884	4.8	4
195	Key significance of DNA-target size in lateral flow assay coupled with recombinase polymerase amplification. *Analytica Chimica Acta*, **2020**, 1102, 109-118	6.6	19
194	Immunochromatographic tests for the detection of microcystin-LR toxin in water and fish samples. *Analytical Methods*, **2020**, 12, 392-400	3.2	6
193	Nucleic acid lateral flow assay with recombinase polymerase amplification: Solutions for highly sensitive detection of RNA virus. *Talanta*, **2020**, 210, 120616	6.2	30
192	Mathematical modeling of immunochromatographic test systems in a competitive format: Analytical and numerical approaches. *Biochemical Engineering Journal*, **2020**, 164, 107763	4.2	3
191	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. *Plants*, **2020**, 9,	4.5	5
190	Development of lateral flow assay combined with recombinase polymerase amplification for highly sensitive detection of Dickeya solani. *Molecular and Cellular Probes*, **2020**, 53, 101622	3.3	7
189	Lateral Flow Immunoassay to Detect the Addition of Beef, Pork, Lamb, and Horse Muscles in Raw Meat Mixtures and Finished Meat Products. *Foods*, **2020**, 9,	4.9	5
188	Rapid and selective electrochemical detection of pb2+ ions using aptamer-conjugated alloy nanoparticles. *SN Applied Sciences*, **2020**, 2, 1	1.8	5
187	Methods and Applications of In Silico Aptamer Design and Modeling. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	25
186	Highly sensitive lateral flow test with indirect labelling for zearalenone in baby food. *Food and Agricultural Immunology*, **2020**, 31, 653-666	2.9	3
185	Immunochromatographic Tests for Mycotoxins Detection with the Use of Ultrasmall Magnetite Nanoparticles. *Engineering Proceedings*, **2020**, 2, 100	0.5	
184	Molecularly imprinted polymers as receptors for assays of antibiotics. *Critical Reviews in Analytical Chemistry*, **2020**, 50, 291-310	5.2	17
183	Electrochemical aptamer biosensor for As3+ based on apta deep trapped Ag-Au alloy nanoparticles-impregnated glassy carbon electrode. *International Journal of Environmental Analytical Chemistry*, **2020**, 100, 623-634	1.8	10
182	Urchin peroxidase-mimicking Au@Pt nanoparticles as a label in lateral flow immunoassay: impact of nanoparticle composition on detection limit of Clavibacter michiganensis. *Mikrochimica Acta*, **2020**, 187, 268	5.8	14
181	Development of an Immunoenzyme Assay to Control the Total Content of Antibiotics of the Fluoroquinolone Group in Milk. *Applied Biochemistry and Microbiology*, **2019**, 55, 563-569	1.1	2
180	Triple Immunochromatographic System for Simultaneous Serodiagnosis of Bovine Brucellosis, Tuberculosis, and Leukemia. *Biosensors*, **2019**, 9,	5.9	1
179	ELISA and Lateral Flow Immunoassay for the Detection of Food Colorants: State of the Art. *Critical Reviews in Analytical Chemistry*, **2019**, 49, 209-223	5.2	16

178	Development of a multicomponent immunochromatographic test system for the detection of fluoroquinolone and amphenicol antibiotics in dairy products. *Journal of the Science of Food and Agriculture*, **2019**, 99, 3834-3842	4.3	15
177	Development of Rapid Immunochromatographic Assay for D-dimer Detection. *Applied Biochemistry and Microbiology*, **2019**, 55, 305-312	1.1	2
176	QSAR analysis of immune recognition for triazine herbicides based on immunoassay data for polyclonal and monoclonal antibodies. *PLoS ONE*, **2019**, 14, e0214879	3.7	4
175	Silanized quantum dots as labels in lateral flow test strips for C-reactive protein. *Analytical Letters*, **2019**, 52, 1874-1887	2.2	7
174	Recombinase polymerase amplification combined with a magnetic nanoparticle-based immunoassay for fluorometric determination of troponin T. *Mikrochimica Acta*, **2019**, 186, 549	5.8	9
173	Towards Lateral Flow Quantitative Assays: Detection Approaches. *Biosensors*, **2019**, 9,	5.9	78
172	Lateral flow immunoassay for bisphenol A: Development of test strips and their application for ecological monitoring. *Journal of Physics: Conference Series*, **2019**, 1172, 012088	0.3	3
171	Development of Enzyme-Linked Immunosorbent Assay with Tiramine Amplification for the Detection of Potato Virus X. *Applied Biochemistry and Microbiology*, **2019**, 55, 434-440	1.1	1
170	Management of Factors for Improving Antigen–Antibody Interaction in Lateral flow Immunoassay of Tetracycline in Human Serum Samples. *Biomedical and Pharmacology Journal*, **2019**, 12, 17-24	0.9	1
169	METHODS OF IDENTIFICATION OF MUSCLE TISSUE IN MEAT PRODUCTS. PREREQUISITES FOR CREATING A MULTI□EVEL CONTROL SYSTEM. *Teori□ Praktika Pererabotki M□sa*, **2019**, 4, 32-40	0.4	3
168	Indirect Labeling of Antibodies as a Universal Approach to Increase Sensitivity of Lateral Flow Tests: A Case Study for Mycotoxins Detection. *Open Biotechnology Journal*, **2019**, 13, 113-121	2	2
167	Comparison of Three Schemes of Quantum Dots-Based Immunochromatography for Serodiagnosis of Brucellosis in Cattle. *Journal of Engineering and Applied Sciences*, **2019**, 14, 3711-3718	1.3	3
166	Quantitative identification of muscular tissue by the means of protototic peptides using the multiple reaction monitoring method. *Analitika I Kontrol*, **2019**, 23, 580-586	1.3	1
165	Simultaneous Immunochromatographic Assay of Several Antibiotics: Modulation of Detection Limits and Working Ranges. *Oriental Journal of Chemistry*, **2019**, 35, 1634-1639	0.8	1
164	Progress in rapid optical assays for heavy metal ions based on the use of nanoparticles and receptor molecules. *Mikrochimica Acta*, **2019**, 186, 172	5.8	40
163	Colorimetric Technique for Antimony Detection Based on the Use of Gold Nanoparticles Conjugated with Poly-A Oligonucleotide. *Applied Sciences (Switzerland)*, **2019**, 9, 4782	2.6	3
162	Development of A Lateral Flow Highway: Ultra-Rapid Multitracking Immunosensor for Cardiac Markers. *Sensors*, **2019**, 19,	3.8	1
161	Nano-(Q)SAR for Cytotoxicity Prediction of Engineered Nanomaterials. *Molecules*, **2019**, 24,	4.8	19

160	Fluorescence Polarization Immunoassay for Determination of Enrofloxacin in Pork Liver and Chicken. *Molecules*, **2019**, 24,	4.8	8
159	Gold nanoparticles of different shape for bicolor lateral flow test. *Analytical Biochemistry*, **2019**, 568, 7-13	3.1	23
158	Ciprofloxacin and Clinafloxacin Antibodies for an Immunoassay of Quinolones: Quantitative Structure?Activity Analysis of Cross-Reactivities. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	4
157	Lectin-based detection of Escherichia coli and Staphylococcus aureus by flow cytometry. *Archives of Microbiology*, **2019**, 201, 313-324	3	10
156	Enlargement of Gold Nanoparticles for Sensitive Immunochromatographic Diagnostics of Potato Brown Rot. *Sensors*, **2019**, 19,	3.8	23
155	Alarm lateral flow immunoassay for detection of the total infection caused by the five viruses. *Talanta*, **2019**, 195, 739-744	6.2	16
154	Adsorption of proteins on gold nanoparticles: One or more layers?. *Colloids and Surfaces B: Biointerfaces*, **2019**, 173, 557-563	6	38
153	Multiplex highly sensitive immunochromatographic assay based on the use of nonprocessed antisera. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 1903-1910	4.4	5
152	Analytical Application of Lectins. *Critical Reviews in Analytical Chemistry*, **2018**, 48, 279-292	5.2	35
151	Double-enhanced lateral flow immunoassay for potato virus X based on a combination of magnetic and gold nanoparticles. *Analytica Chimica Acta*, **2018**, 1007, 50-60	6.6	54
150	Probing the stereoselective interaction of ofloxacin enantiomers with corresponding monoclonal antibodies by multiple spectrometry. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 194, 83-91	4.4	6
149	Ultrasensitive magnetic ELISA of zearalenone with pre-concentration and chemiluminescent detection. *Food Control*, **2018**, 84, 330-338	6.2	30
148	Measurement of (Aptamer-Small Target) K Using the Competition between Fluorescently Labeled and Unlabeled Targets and the Detection of Fluorescence Anisotropy. *Analytical Chemistry*, **2018**, 90, 9189-9198	7.8	15
147	Fluorescence polarization immunoassay of colchicine. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 159, 326-330	3.5	7
146	Highly Sensitive Immunochromatographic Assay for Qualitative and Quantitative Control of Beta-Agonist Ractopamine in Foods. *Applied Biochemistry and Microbiology*, **2018**, 54, 436-441	1.1	4
145	Immunochromatographic Test Systems using Anti-Species Antibodies□olloidal Gold Conjugate: Their Features and Benefits on the Example of Ochratoxin A Detection. *Moscow University Chemistry Bulletin*, **2018**, 73, 63-68	0.5	3
144	Highly sensitive immunochromatographic assay for qualitative and quantitative control of beta-agonist salbutamol and its structural analogs in foods. *Food Control*, **2018**, 86, 50-58	6.2	13
143	Silver-enhanced lateral flow immunoassay for highly-sensitive detection of potato leafroll virus. *Food and Agricultural Immunology*, **2018**, 29, 445-457	2.9	28

142	Study of Growth of Bare and Protein-Modified Gold Nanoparticles in the Presence of Hydroxylamine and Tetrachloroaurate. *Nanotechnologies in Russia*, **2018**, 13, 614-622	0.6	3
141	Methods for the Diagnosis of Grapevine Viral Infections: A Review. *Agriculture (Switzerland)*, **2018**, 8, 195	3	10
140	Ways to Reach Lower Detection Limits of Lateral Flow Immunoassays **2018**,		10
139	Development of Immunochromatographic Assay for Determination of Tetracycline in Human Serum. *Antibiotics*, **2018**, 7,	4.9	7
138	Lateral Flow Immunoassay for Rapid Detection of Grapevine Leafroll-Associated Virus. *Biosensors*, **2018**, 8,	5.9	19
137	Complexes of Gold Nanoparticles with Antibodies in Immunochromatography: Comparison of Direct and Indirect Immobilization of Antibodies for the Detection of Antibiotics. *Nanotechnologies in Russia*, **2018**, 13, 430-438	0.6	9
136	Highly Sensitive Immunochromatographic Detection of Antibiotic Ciprofloxacin in Milk. *Applied Biochemistry and Microbiology*, **2018**, 54, 670-676	1.1	15
135	How to Improve Sensitivity of Sandwich Lateral Flow Immunoassay for Corpuscular Antigens on the Example of Potato Virus Y?. *Sensors*, **2018**, 18,	3.8	13
134	The registration of aptamer-ligand (ochratoxin A) interactions based on ligand fluorescence changes. *Biochemical and Biophysical Research Communications*, **2018**, 505, 536-541	3.4	3
133	Post-assay growth of gold nanoparticles as a tool for highly sensitive lateral flow immunoassay. Application to the detection of potato virus X. *Mikrochimica Acta*, **2018**, 185, 506	5.8	15
132	Comparative Characteristics of Nanodisperse Labels for Immunochromatographic Test Systems. *Nano Hybrids and Composites*, **2017**, 13, 32-38	0.7	0
131	Magnetic Nanopartices as Carriers for Immunoassays. *Nano Hybrids and Composites*, **2017**, 13, 54-62	0.7	2
130	Use of anchor protein modules in fluorescence polarisation aptamer assay for ochratoxin A determination. *Analytica Chimica Acta*, **2017**, 962, 80-87	6.6	28
129	Enzyme-linked lectinosorbent assay of Escherichia coli and Staphylococcus aureus. *Applied Biochemistry and Microbiology*, **2017**, 53, 107-113	1.1	2
128	Ambient temperature hydrogen storage in porous materials with exposed metal sites. *International Journal of Hydrogen Energy*, **2017**, 42, 6801-6809	6.7	13
127	High-sensitivity immunochromatographic assay for fumonisin B1 based on indirect antibody labeling. *Biotechnology Letters*, **2017**, 39, 751-758	3	19
126	Mathematical Model of Serodiagnostic Immunochromatographic Assay. *Analytical Chemistry*, **2017**, 89, 4419-4427	7.8	21
125	A triple immunochromatographic test for simultaneous determination of cardiac troponin I, fatty acid binding protein, and C-reactive protein biomarkers. *Mikrochimica Acta*, **2017**, 184, 463-471	5.8	21

124	Development of a lateral flow immunoassay for rapid diagnosis of potato blackleg caused by Dickeya species. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 1915-1927	4.4	12
123	A new kind of highly sensitive competitive lateral flow immunoassay displaying direct analyte-signal dependence. Application to the determination of the mycotoxin deoxynivalenol. *Mikrochimica Acta*, **2017**, 185, 29	5.8	23
122	Theoretical and Experimental Comparison of Different Formats of Immunochromatographic Serodiagnostics. *Sensors*, **2017**, 18,	3.8	8
121	Immunochromatographic assay of T-2 toxin using labeled anti-species antibodies. *Applied Biochemistry and Microbiology*, **2017**, 53, 594-599	1.1	5
120	"External" antibodies as the simplest tool for sensitive immunochromatographic tests. *Talanta*, **2017**, 175, 77-81	6.2	16
119	Less is More: A Comparison of Antibody-Gold Nanoparticle Conjugates of Different Ratios. *Bioconjugate Chemistry*, **2017**, 28, 2737-2746	6.3	69
118	Application of magnetite nanoparticles for the development of highly sensitive immunochromatographic test systems for mycotoxin detection. *Applied Biochemistry and Microbiology*, **2017**, 53, 470-475	1.1	10
117	Bifunctional gold nanoparticles as an agglomeration-enhancing tool for highly sensitive lateral flow tests: a case study with procalcitonin. *Mikrochimica Acta*, **2017**, 184, 4189-4195	5.8	38
116	Setting up the cut-off level of a sensitive barcode lateral flow assay with magnetic nanoparticles. *Talanta*, **2017**, 164, 69-76	6.2	31
115	Fluorescence polarisation immunoassays for strobilurin fungicides kresoxim-methyl, trifloxystrobin and picoxystrobin. *Talanta*, **2017**, 162, 495-504	6.2	22
114	Development of lateral flow immunoassay for rapid control and quantification of the presence of the colorant Sudan I in spices and seafood. *Food Control*, **2017**, 73, 247-253	6.2	16
113	Mathematical Modeling of Bioassays. *Biochemistry (Moscow)*, **2017**, 82, 1744-1766	2.9	10
112	Application of Magnetic Nanoparticles in Immunoassay. *Nanotechnologies in Russia*, **2017**, 12, 471-479	0.6	16
111	Enhancement of lateral flow immunoassay by alkaline phosphatase: a simple and highly sensitive test for potato virus X. *Mikrochimica Acta*, **2017**, 185, 25	5.8	23
110	Fluorescence polarization immunoassay of ractopamine. *Applied Biochemistry and Microbiology*, **2016**, 52, 673-678	1.1	10
109	Novel Preparation of Gold Nanoparticles with Application for the Amperometric Determination of Arsenic. *Analytical Letters*, **2016**, 49, 1388-1397	2.2	3
108	Toxicity of nanosilver in intragastric studies: Biodistribution and metabolic effects. *Toxicology Letters*, **2016**, 241, 184-92	4.4	32
107	Multiarray on a test strip (MATS): rapid multiplex immunodetection of priority potato pathogens. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 6009-17	4.4	26

106	Development of the sensitive lateral flow immunoassay with silver enhancement for the detection of Ralstonia solanacearum in potato tubers. *Talanta*, **2016**, 152, 521-30	6.2	39
105	Competitive photometric enzyme immunoassay for fullerene C60 and its derivatives using a fullerene conjugated to horseradish peroxidase. *Mikrochimica Acta*, **2016**, 183, 211-217	5.8	3
104	Size-Dependent Differences in Biodistribution of Titanium Dioxide Nanoparticles After Sub-Acute Intragastric Administrations to Rats. *Current Nanoscience*, **2016**, 12, 228-236	1.4	8
103	"Multistage in one touch" design with a universal labelling conjugate for high-sensitive lateral flow immunoassays. *Biosensors and Bioelectronics*, **2016**, 86, 575-579	11.8	42
102	Complex analysis of concentrated antibody-gold nanoparticle conjugates' mixtures using asymmetric flow field-flow fractionation. *Journal of Chromatography A*, **2016**, 1477, 56-63	4.5	15
101	Ternary covalent conjugate (antibody–gold nanoparticle–peroxidase) for signal enhancement in enzyme immunoassay. *RSC Advances*, **2016**, 6, 48827-48833	3.7	8
100	Detection of Gold Nanoparticles in Rat Organs by Transmission Electron Microscopy. *Bulletin of Experimental Biology and Medicine*, **2016**, 160, 817-22	0.8	1
99	Enzyme immunoassay for detection of Sudan I dye and its application to the control of foodstuffs. *Journal of Analytical Chemistry*, **2016**, 71, 944-948	1.1	4
98	Comparative study of strategies for antibody immobilization onto the surface of magnetic particles in pseudo-homogeneous enzyme immunoassay of aflatoxin B1. *Moscow University Chemistry Bulletin*, **2016**, 71, 48-53	0.5	1
97	Chemiluminescence catalysed by gold nanoparticles for the analysis of arsenic (III) in real water. *Journal of Experimental Nanoscience*, **2016**, 11, 1372-1383	1.9	5
96	Cut-off on demand: adjustment of the threshold level of an immunochromatographic assay for chloramphenicol. *Analytical Methods*, **2015**, 7, 6378-6384	3.2	23
95	Enzyme immunoassay and proteomic characterization of troponin I as a marker of mammalian muscle compounds in raw meat and some meat products. *Meat Science*, **2015**, 105, 46-52	6.4	38
94	Direct immunosensing by spectral correlation interferometry: assay characteristics versus antibody immobilization chemistry. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 3955-64	4.4	20
93	Development of an immunochromatographic test system for the detection of Helicobacter pylori antigens. *Applied Biochemistry and Microbiology*, **2015**, 51, 608-617	1.1	7
92	Application of gold nanoparticles produced by laser ablation for immunochromatographic assay labeling. *Analytical Biochemistry*, **2015**, 491, 65-71	3.1	21
91	Immunochromatographic test system for the detection of T-2 toxin. *Applied Biochemistry and Microbiology*, **2015**, 51, 688-694	1.1	7
90	Magnetic ELISA of aflatoxin B1 with preconcentration without elution. *Analytical Methods*, **2015**, 7, 10177-10184	3.1	6
89	Colorimetric Determination of Lead Using Gold Nanoparticles. *Analytical Letters*, **2015**, 48, 766-782	2.2	14

88	Stereospecific recognition and quantitative structure-activity relationship between antibodies and enantiomers: ofloxacin as a model hapten. *Analyst, The*, **2015**, 140, 1037-45	5	13
87	'Traffic light' immunochromatographic test based on multicolor quantum dots for the simultaneous detection of several antibiotics in milk. *Biosensors and Bioelectronics*, **2015**, 63, 255-261	11.8	202
86	Express immunochromatographic detection of antibodies against Brucella abortus in cattle sera based on quantitative photometric registration and modulated cut-off level. *Journal of Immunoassay and Immunochemistry*, **2015**, 36, 80-90	1.8	9
85	Study of Distribution and Biological Effects of Fullerene C60 after Single and Multiple Intragastrical Administrations to Rats. *Fullerenes Nanotubes and Carbon Nanostructures*, **2015**, 23, 658-668	1.8	16
84	Highly Sensitive Immunochromatographic Identification of Tetracycline Antibiotics in Milk. *International Journal of Analytical Chemistry*, **2015**, 2015, 347621	1.4	6
83	Rapid multiple immunoenzyme assay of mycotoxins. *Toxins*, **2015**, 7, 238-54	4.9	47
82	Chromatographic determination of C70 fullerene in animal organs and tissues. *Journal of Analytical Chemistry*, **2015**, 70, 1507-1511	1.1	
81	Detection of Intermolecular Interactions Based on Surface Plasmon Resonance Registration. *Biochemistry (Moscow)*, **2015**, 80, 1820-32	2.9	11
80	Immunochromatographic assay for serodiagnosis of tuberculosis using an antigen–colloidal gold conjugate. *Applied Biochemistry and Microbiology*, **2015**, 51, 834-839	1.1	6
79	Development and application of a label-free fluorescence method for determining the composition of gold nanoparticle-protein conjugates. *International Journal of Molecular Sciences*, **2014**, 16, 907-23	6.3	18
78	Immunochromatographic methods in food analysis. *TrAC - Trends in Analytical Chemistry*, **2014**, 55, 81-93	14.6	236
77	Rapid immunochromatographic assay for ofloxacin in animal original foodstuffs using native antisera labeled by colloidal gold. *Talanta*, **2014**, 119, 125-32	6.2	46
76	Use of gold nanoparticle-labeled secondary antibodies to improve the sensitivity of an immunochromatographic assay for aflatoxin B1. *Mikrochimica Acta*, **2014**, 181, 1939-1946	5.8	55
75	Lateral flow immunoassay for rapid detection of potato ring rot caused by Clavibacter michiganensis subsp. sepedonicus. *Applied Biochemistry and Microbiology*, **2014**, 50, 675-682	1.1	8
74	Rapid immunoenzyme assay of aflatoxin B1 using magnetic nanoparticles. *Sensors*, **2014**, 14, 21843-57	3.8	48
73	Fullerenes: In vivo studies of biodistribution, toxicity, and biological action. *Nanotechnologies in Russia*, **2014**, 9, 601-617	0.6	12
72	Immunoassays of fungal laccases for screening of natural enzymes and control of recombinant enzyme production. *Biotechnology and Applied Biochemistry*, **2014**, 61, 230-6	2.8	1
71	The Method of Calibration Curves for Immunochromatographic Express Tests. Part 1. Immunochromatographic Express Tests with Colloidal Gold. *Measurement Techniques*, **2013**, 55, 1425-1433	0.4	

70	The method of calibration curves for immunochromatographic express tests. Part 2. immunochromatographic express tests with quantum dots. *Measurement Techniques*, **2013**, 55, 1434-1441	0.4	2
69	Quantum dot-based lateral flow immunoassay for detection of chloramphenicol in milk. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 4997-5000	4.4	134
68	Integration of lateral flow and microarray technologies for multiplex immunoassay: application to the determination of drugs of abuse. *Mikrochimica Acta*, **2013**, 180, 1165-1172	5.8	59
67	Identification of silver nanoparticles in the small intestinal mucosa, liver, and spleen of rats by transmission electron microscopy. *Bulletin of Experimental Biology and Medicine*, **2013**, 155, 236-41	0.8	11
66	Metrological complex for existing and developing immunoassay test systems: The method of calibration curves for immunoassay test systems. *Nanotechnologies in Russia*, **2013**, 8, 547-552	0.6	
65	Nanomaterials and nanotechnologies: methods of analysis and control. *Russian Chemical Reviews*, **2013**, 82, 48-76	6.8	38
64	Quantum-dot-based immunochromatographic assay for total IgE in human serum. *PLoS ONE*, **2013**, 8, e77485	3.7	22
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