

Anatoly V Zherdev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8621235/publications.pdf>

Version: 2024-02-01

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	Ultrasensitive lateral flow immunoassay of phycotoxin microcystin-LR in seafood based on magnetic particles and peroxidase signal amplification. <i>Food Control</i> , 2022, 133, 108655.	5.5	10
2	Double qualitative immunochromatographic test for simultaneous control of chicken muscles and eggs in food. <i>Journal of Food Composition and Analysis</i> , 2022, 106, 104324.	3.9	2
3	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
4	Modulation of Aptamer-Ligand-Binding by Complementary Oligonucleotides: A G-Quadruplex Anti-Ochratoxin A Aptamer Case Study. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4876.	4.1	4
5	Comparative study of magnetic beads and microplates as supports in heterogeneous amplified assay of miRNA-141 by using mismatched catalytic hairpin assembly reaction. <i>Talanta</i> , 2022, 247, 123535.	5.5	2
6	Double Competitive Immunodetection of Small Analyte: Realization for Highly Sensitive Lateral Flow Immunoassay of Chloramphenicol. <i>Biosensors</i> , 2022, 12, 343.	4.7	3
7	Rapid detection of phycotoxin domoic acid in seawater and seafood based on the developed lateral flow immunoassay. <i>Analytical Methods</i> , 2022, 14, 2446-2452.	2.7	4
8	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
9	Silent Antibodies Start Talking: Enhanced Lateral Flow Serodiagnosis with Two-Stage Incorporation of Labels into Immune Complexes. <i>Biosensors</i> , 2022, 12, 434.	4.7	2
10	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
11	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
12	Lateral flow immunoassay for sensitive detection of undeclared chicken meat in meat products. <i>Food Chemistry</i> , 2021, 344, 128598.	8.2	24
13	Theoretical limitations for aggregation methods of analysis based on affine interactions. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
14	Limitations for colorimetric aggregation assay of metal ions and ways of their overcoming. <i>Analytical Methods</i> , 2021, 13, 250-257.	2.7	1
15	Network of gold conjugates for enhanced sensitive immunochromatographic assays of troponins. <i>RSC Advances</i> , 2021, 11, 16445-16452.	3.6	10
16	Immunochromatographic Tests for Mycotoxins Detection with the Use of Ultrasmall Magnetite Nanoparticles. <i>Engineering Proceedings</i> , 2021, 2, .	0.4	0
17	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
18	Immunochromatographic Test Systems for Detection of Microcystin-LR in Seafood. <i>Applied Biochemistry and Microbiology</i> , 2021, 57, 403-409.	0.9	5

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Mercaptosuccinic-Acid-Functionalized Gold Nanoparticles for Highly Sensitive Colorimetric Sensing of Fe(III) Ions. <i>Chemosensors</i> , 2021, 9, 290.	3.6	5
25	Development of new immunoanalytical test systems for diagnostics of potato blackleg caused by <i>Dickeya</i> spp. bacteria. <i>RUDN Journal of Agronomy and Animal Industries</i> , 2021, 16, 198-214.	0.1	0
26	Comparative Assessment of Different Gold Nanoflowers as Labels for Lateral Flow Immunosensors. <i>Sensors</i> , 2021, 21, 7098.	3.8	3
27	Lateral Flow Serodiagnosis in the Double-Antigen Sandwich Format: Theoretical Consideration and Confirmation of Advantages. <i>Sensors</i> , 2021, 21, 39.	3.8	7
28	Recombinase Polymerase Amplification Assay with and without Nuclease-Dependent-Labeled Oligonucleotide Probe. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11885.	4.1	9
29	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
30	The Potential Use of Isothermal Amplification Assays for In-Field Diagnostics of Plant Pathogens. <i>Plants</i> , 2021, 10, 2424.	3.5	20
31	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
32	Rapid Full-Cycle Technique to Control Adulteration of Meat Products: Integration of Accelerated Sample Preparation, Recombinase Polymerase Amplification, and Test-Strip Detection. <i>Molecules</i> , 2021, 26, 6804.	3.8	9
33	Comparative Study of Four Coloured Nanoparticle Labels in Lateral Flow Immunoassay. <i>Nanomaterials</i> , 2021, 11, 3277.	4.1	8
34	Lateral flow test strips for mercury ions detection based on combination of oligonucleotide-modified gold nanoparticles and chelation by glutathione. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
35	Highly sensitive multiplex lateral flow immunoassay of phytopathogens using Au@Pt nanoparticles as the colorimetric and catalytic label. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
36	Gold Nanoparticles Functionalized with Mercaptosuccinic Acid as a Means for Detecting Fe(III) Ions. , 2021, 5, .		0

#	ARTICLE	IF	CITATIONS
37	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
38	Raman Scattering-Based Biosensing: New Prospects and Opportunities. <i>Biosensors</i> , 2021, 11, 512.	4.7	26
39	Molecularly imprinted polymers as receptors for assays of antibiotics. <i>Critical Reviews in Analytical Chemistry</i> , 2020, 50, 291-310.	3.5	39
40	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
41	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
42	Immunochemical tests for the detection of microcystin-LR toxin in water and fish samples. <i>Analytical Methods</i> , 2020, 12, 392-400.	2.7	11
43	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
44	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
45	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, 1369.	3.5	10
46	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
47	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
48	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
49	Methods and Applications of In Silico Aptamer Design and Modeling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8420.	4.1	72
50	Highly sensitive lateral flow test with indirect labelling for zearalenone in baby food. <i>Food and Agricultural Immunology</i> , 2020, 31, 653-666.	1.4	9
51	Comparison of nanosized markers in lateral flow immunoassay of antibiotic lincomycin. , 2020, , .		0
52	A Comparative Study of Approaches to Improve the Sensitivity of Lateral Flow Immunoassay of the Antibiotic Lincomycin. <i>Biosensors</i> , 2020, 10, 198.	4.7	8
53	Fluorescence Polarization-Based Bioassays: New Horizons. <i>Sensors</i> , 2020, 20, 7132.	3.8	43
54	Immunochemical 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

#	ARTICLE	IF	CITATIONS
55	Design of Multiplex Lateral Flow Tests: A Case Study for Simultaneous Detection of Three Antibiotics. <i>Biosensors</i> , 2020, 10, 17.	4.7	18
56	Advantages of Highly Spherical Gold Nanoparticles as Labels for Lateral Flow Immunoassay. <i>Sensors</i> , 2020, 20, 3608.	3.8	19
57	Quantitative regularities of protein immobilization on the surfaces of gold nanoparticles. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
58	Development of mathematical models of lateral flow membrane bioanalytical systems and characterization of the regularities of their functioning. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
59	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
60	Immunochromatographic System for Serodiagnostics of Cattle Brucellosis Using Gold Nanoparticles and Signal Amplification with Quantum Dots. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 738.	2.5	6
61	A Mechanism of Gold Nanoparticle Aggregation by Immunoglobulin G Preparation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 475.	2.5	7
62	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
63	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
64	Lateral flow immunoassay for rapid qualitative and quantitative control of the veterinary drug bacitracin in milk. <i>Microchemical Journal</i> , 2020, 156, 104884.	4.5	8
65	Electron-Microscopic Investigation of the Distribution of Titanium Dioxide (rutile) Nanoparticles in the Ratsâ€™ Small Intestine Mucosa, Liver, and Spleen. <i>Current Nanoscience</i> , 2020, 16, 268-279.	1.2	3
66	Application of aminophenylboronic acid conjugated with protein carrier for aptachromatographic detection of lead ions. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
67	Quality and Safety of Meat Products in Russia: Results of Monitoring Samples from Manufacturers and Evaluation of Analytical Methods. <i>Current Research in Nutrition and Food Science</i> , 2020, 8, 41-47.	0.8	3
68	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
69	Towards Lateral Flow Quantitative Assays: Detection Approaches. <i>Biosensors</i> , 2019, 9, 89.	4.7	133
70	Lateral flow immunoassay for bisphenol A: Development of test strips and their application for ecological monitoring. <i>Journal of Physics: Conference Series</i> , 2019, 1172, 012088.	0.4	5
71	Development of Enzyme-Linked Immunosorbent Assay with Tiramine Amplification for the Detection of Potato Virus X. <i>Applied Biochemistry and Microbiology</i> , 2019, 55, 434-440.	0.9	2
72	Development of an Immunoenzyme Assay to Control the Total Content of Antibiotics of the Fluoroquinolone Group in Milk. <i>Applied Biochemistry and Microbiology</i> , 2019, 55, 563-569.	0.9	4

#	ARTICLE	IF	CITATIONS
73	Triple Immunochromatographic System for Simultaneous Serodiagnosis of Bovine Brucellosis, Tuberculosis, and Leukemia. <i>Biosensors</i> , 2019, 9, 115.	4.7	4
74	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
75	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
76	Development of Rapid Immunochromatographic Assay for D-dimer Detection. <i>Applied Biochemistry and Microbiology</i> , 2019, 55, 305-312.	0.9	4
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.	2.5	8
78	Silanized quantum dots as labels in lateral flow test strips for C-reactive protein. <i>Analytical Letters</i> , 2019, 52, 1874-1887.	1.8	10
79	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
80	Colorimetric Technique for Antimony Detection Based on the Use of Gold Nanoparticles Conjugated with Poly-A Oligonucleotide. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4782.	2.5	8
81	Development of a Lateral Flow Highway: Ultra-Rapid Multitracking Immunosensor for Cardiac Markers. <i>Sensors</i> , 2019, 19, 5494.	3.8	9
82	Nano-(Q)SAR for Cytotoxicity Prediction of Engineered Nanomaterials. <i>Molecules</i> , 2019, 24, 4537.	3.8	39
83	Fluorescence Polarization Immunoassay for Determination of Enrofloxacin in Pork Liver and Chicken. <i>Molecules</i> , 2019, 24, 4462.	3.8	18
84	Gold nanoparticles of different shape for bicolor lateral flow test. <i>Analytical Biochemistry</i> , 2019, 568, 7-13.	2.4	33
85	Ciprofloxacin and Clinafloxacin Antibodies for an Immunoassay of Quinolones: Quantitative Structure-Activity Analysis of Cross-Reactivities. <i>International Journal of Molecular Sciences</i> , 2019, 20, 265.	4.1	9
86	Lectin-based detection of Escherichia coli and Staphylococcus aureus by flow cytometry. <i>Archives of Microbiology</i> , 2019, 201, 313-324.	2.2	19
87	Enlargement of Gold Nanoparticles for Sensitive Immunochromatographic Diagnostics of Potato Brown Rot. <i>Sensors</i> , 2019, 19, 153.	3.8	35
88	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
89	Adsorption of proteins on gold nanoparticles: One or more layers?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 557-563.	5.0	67
90	Management of Factors for Improving Antigen-Antibody Interaction in Lateral flow Immunoassay of Tetracycline in Human Serum Samples. <i>Biomedical and Pharmacology Journal</i> , 2019, 12, 17-24.	0.5	2

#	ARTICLE	IF	CITATIONS
91	METHODS OF IDENTIFICATION OF MUSCLE TISSUE IN MEAT PRODUCTS. PREREQUISITES FOR CREATING A MULTI-LEVEL CONTROL SYSTEM. <i>Teoriya I Praktika Pererabotki MÛsa</i> , 2019, 4, 32-40.	0.6	5
92	Indirect Labeling of Antibodies as a Universal Approach to Increase Sensitivity of Lateral Flow Tests: A Case Study for Mycotoxins Detection. <i>Open Biotechnology Journal</i> , 2019, 13, 113-121.	1.2	7
93	Comparison of Three Schemes of Quantum Dots-Based Immunochromatography for Serodiagnosis of Brucellosis in Cattle. <i>Journal of Engineering and Applied Sciences</i> , 2019, 14, 3711-3718.	0.2	5
94	Quantitative identification of muscular tissue by the means of prototypic peptides using the multiple reaction monitoring method. <i>Analitika I Kontrol</i> , 2019, 23, 580-586.	0.2	4
95	Simultaneous Immunochromatographic Assay of Several Antibiotics: Modulation of Detection Limits and Working Ranges. <i>Oriental Journal of Chemistry</i> , 2019, 35, 1634-1639.	0.3	3
96	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
97	Multiplex highly sensitive immunochromatographic assay based on the use of nonprocessed antisera. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1903-1910.	3.7	10
98	Analytical Application of Lectins. <i>Critical Reviews in Analytical Chemistry</i> , 2018, 48, 279-292.	3.5	48
99	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
100	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.	3.9	7
101	Ultrasensitive magnetic ELISA of zearalenone with pre-concentration and chemiluminescent detection. <i>Food Control</i> , 2018, 84, 330-338.	5.5	50
102	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
103	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
104	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
105	Study of Growth of Bare and Protein-Modified Gold Nanoparticles in the Presence of Hydroxylamine and Tetrachloroaurate. <i>Nanotechnologies in Russia</i> , 2018, 13, 614-622.	0.7	5
106	Methods for the Diagnosis of Grapevine Viral Infections: A Review. <i>Agriculture (Switzerland)</i> , 2018, 8, 195.	3.1	18
107	Development of Immunochromatographic Assay for Determination of Tetracycline in Human Serum. <i>Antibiotics</i> , 2018, 7, 99.	3.7	11
108	Lateral Flow Immunoassay for Rapid Detection of Grapevine Leafroll-Associated Virus. <i>Biosensors</i> , 2018, 8, 111.	4.7	26

#	ARTICLE	IF	CITATIONS
109	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.	0.7	10
110	Highly Sensitive Immunochromatographic Detection of Antibiotic Ciprofloxacin in Milk. <i>Applied Biochemistry and Microbiology</i> , 2018, 54, 670-676.	0.9	26
111	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
112	The registration of aptamer–ligand (ochratoxin A) interactions based on ligand fluorescence changes. <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 536-541.	2.1	4
113	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
114	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
115	Fluorescence polarization immunoassay of colchicine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 159, 326-330.	2.8	14
116	Theoretical and Experimental Comparison of Different Formats of Immunochromatographic Serodiagnostics. <i>Sensors</i> , 2018, 18, 36.	3.8	12
117	Highly Sensitive Immunochromatographic Assay for Qualitative and Quantitative Control of Beta-Agonist Ractopamine in Foods. <i>Applied Biochemistry and Microbiology</i> , 2018, 54, 436-441.	0.9	6
118	Immunochromatographic Test Systems using Anti-Species Antibodies–Colloidal Gold Conjugate: Their Features and Benefits on the Example of Ochratoxin A Detection. <i>Moscow University Chemistry Bulletin</i> , 2018, 73, 63-68.	0.6	4
119	Comparative Characteristics of Nanodisperse Labels for Immunochromatographic Test Systems. <i>Nano Hybrids and Composites</i> , 2017, 13, 32-38.	0.8	3
120	Magnetic Nanoparticles as Carriers for Immunoassays. <i>Nano Hybrids and Composites</i> , 2017, 13, 54-62.	0.8	2
121	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
122	Enzyme-linked lectinosorbent assay of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Applied Biochemistry and Microbiology</i> , 2017, 53, 107-113.	0.9	2
123	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
124	High-sensitivity immunochromatographic assay for fumonisin B1 based on indirect antibody labeling. <i>Biotechnology Letters</i> , 2017, 39, 751-758.	2.2	21
125	Mathematical Model of Serodiagnostic Immunochromatographic Assay. <i>Analytical Chemistry</i> , 2017, 89, 4419-4427.	6.5	29
126	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

#	ARTICLE	IF	CITATIONS
127	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
128	Immunochemical assay of T-2 toxin using labeled anti-species antibodies. <i>Applied Biochemistry and Microbiology</i> , 2017, 53, 594-599.	0.9	5
129	External antibodies as the simplest tool for sensitive immunochemical tests. <i>Talanta</i> , 2017, 175, 77-81.	5.5	21
130	Less is More: A Comparison of Antibody-Gold Nanoparticle Conjugates of Different Ratios. <i>Bioconjugate Chemistry</i> , 2017, 28, 2737-2746.	3.6	96
131	Application of magnetite nanoparticles for the development of highly sensitive immunochemical test systems for mycotoxin detection. <i>Applied Biochemistry and Microbiology</i> , 2017, 53, 470-475.	0.9	13
132	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
133	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
134	Fluorescence polarisation immunoassays for strobilurin fungicides kresoxim-methyl, trifloxystrobin and picoxystrobin. <i>Talanta</i> , 2017, 162, 495-504.	5.5	29
135	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
136	Mathematical modeling of bioassays. <i>Biochemistry (Moscow)</i> , 2017, 82, 1744-1766.	1.5	14
137	Application of Magnetic Nanoparticles in Immunoassay. <i>Nanotechnologies in Russia</i> , 2017, 12, 471-479.	0.7	23
138	"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
139	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
140	Ternary covalent conjugate (antibody-gold nanoparticle-peroxidase) for signal enhancement in enzyme immunoassay. <i>RSC Advances</i> , 2016, 6, 48827-48833.	3.6	10
141	Detection of Gold Nanoparticles in Rat Organs by Transmission Electron Microscopy. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 160, 817-822.	0.8	1
142	Enzyme immunoassay for detection of Sudan I dye and its application to the control of foodstuffs. <i>Journal of Analytical Chemistry</i> , 2016, 71, 944-948.	0.9	8
143	Comparative study of strategies for antibody immobilization onto the surface of magnetic particles in pseudo-homogeneous enzyme immunoassay of aflatoxin B1. <i>Moscow University Chemistry Bulletin</i> , 2016, 71, 48-53.	0.6	1
144	Chemiluminescence catalysed by gold nanoparticles for the analysis of arsenic (III) in real water. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 1372-1383.	2.4	9

#	ARTICLE	IF	CITATIONS
145	Fluorescence polarization immunoassay of ractopamine. <i>Applied Biochemistry and Microbiology</i> , 2016, 52, 673-678.	0.9	12
146	Novel Preparation of Gold Nanoparticles with Application for the Amperometric Determination of Arsenic. <i>Analytical Letters</i> , 2016, 49, 1388-1397.	1.8	3
147	Toxicity of nanosilver in intragastric studies: Biodistribution and metabolic effects. <i>Toxicology Letters</i> , 2016, 241, 184-192.	0.8	38
148	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
149	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
150	Competitive photometric enzyme immunoassay for fullerene C60 and its derivatives using a fullerene conjugated to horseradish peroxidase. <i>Mikrochimica Acta</i> , 2016, 183, 211-217.	5.0	3
151	Size-Dependent Differences in Biodistribution of Titanium Dioxide Nanoparticles After Sub-Acute Intragastric Administrations to Rats. <i>Current Nanoscience</i> , 2016, 12, 228-236.	1.2	11
152	Highly Sensitive Immunochromatographic Identification of Tetracycline Antibiotics in Milk. <i>International Journal of Analytical Chemistry</i> , 2015, 2015, 1-10.	1.0	12
153	Rapid Multiple Immunoenzyme Assay of Mycotoxins. <i>Toxins</i> , 2015, 7, 238-254.	3.4	55
154	Chromatographic determination of C70 fullerene in animal organs and tissues. <i>Journal of Analytical Chemistry</i> , 2015, 70, 1507-1511.	0.9	0
155	Detection of Intermolecular Interactions Based on Surface Plasmon Resonance Registration. <i>Biochemistry (Moscow)</i> , 2015, 80, 1820-1832.	1.5	13
156	Immunochromatographic assay for serodiagnosis of tuberculosis using an antigen-antibody colloidal gold conjugate. <i>Applied Biochemistry and Microbiology</i> , 2015, 51, 834-839.	0.9	10
157	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
158	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
159	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
160	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
161	Application of gold nanoparticles produced by laser ablation for immunochromatographic assay labeling. <i>Analytical Biochemistry</i> , 2015, 491, 65-71.	2.4	27
162	Immunochromatographic test system for the detection of T-2 toxin. <i>Applied Biochemistry and Microbiology</i> , 2015, 51, 688-694.	0.9	8

#	ARTICLE	IF	CITATIONS
163	Magnetic ELISA of aflatoxin B1 " pre-concentration without elution. Analytical Methods, 2015, 7, 10177-10184.	2.7	10
164	Development and Application of a Label-Free Fluorescence Method for Determining the Composition of Gold Nanoparticle-Protein Conjugates. International Journal of Molecular Sciences, 2015, 16, 907-923.	4.1	23
165	Colorimetric Determination of Lead Using Gold Nanoparticles. Analytical Letters, 2015, 48, 766-782.	1.8	18
166	Stereospecific recognition and quantitative structure-activity relationship between antibodies and enantiomers: ofloxacin as a model hapten. Analyst, The, 2015, 140, 1037-1045.	3.5	14
167	"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.	10.1	255
168	Express Immunochromatographic Detection of Antibodies against <i>Brucella Abortus</i> in Cattle Sera Based on Quantitative Photometric Registration and Modulated Cut-Off Level. Journal of Immunoassay and Immunochemistry, 2015, 36, 80-90.	1.1	10
169	Study of Distribution and Biological Effects of Fullerene C ₆₀ after Single and Multiple Intra-gastric Administrations to Rats. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 658-668.	2.1	19
170	Lateral Flow Immunoassay for Rapid Diagnosis of Potato Blackleg Caused by <i>Pectobacterium atrosepticum</i> . Biosciences, Biotechnology Research Asia, 2015, 12, 1937-1945.	0.5	0
171	Impact of Immunogen Structure to Specificity of Fluoroquinolones Detection by Microplate and Lateral Flow Immunoassay Techniques. Biomedical and Pharmacology Journal, 2015, 8, 1389-1398.	0.5	0
172	Lateral flow immunoassay for rapid detection of potato ring rot caused by <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> . Applied Biochemistry and Microbiology, 2014, 50, 675-682.	0.9	10
173	Rapid Immunoenzyme Assay of Aflatoxin B1 Using Magnetic Nanoparticles. Sensors, 2014, 14, 21843-21857.	3.8	57
174	Fullerenes: In vivo studies of biodistribution, toxicity, and biological action. Nanotechnologies in Russia, 2014, 9, 601-617.	0.7	14
175	Immunoassays of fungal laccases for screening of natural enzymes and control of recombinant enzyme production. Biotechnology and Applied Biochemistry, 2014, 61, 230-236.	3.1	1
176	Experimental demonstration and theoretical explanation of the efficiency of the nano-structured silicon as the transducer for optical immune biosensors. , 2014, , .		0
177	Immuno-chromatographic methods in food analysis. TrAC - Trends in Analytical Chemistry, 2014, 55, 81-93.	11.4	287
178	Rapid immunochromatographic assay for ofloxacin in animal original foodstuffs using native antisera labeled by colloidal gold. Talanta, 2014, 119, 125-132.	5.5	67
179	Use of gold nanoparticle-labeled secondary antibodies to improve the sensitivity of an immunochromatographic assay for aflatoxin B1. Mikrochimica Acta, 2014, 181, 1939-1946.	5.0	62
180	The Method of Calibration Curves for Immunochromatographic Express Tests. Part 1. Immunochromatographic Express Tests with Colloidal Gold. Measurement Techniques, 2013, 55, 1425-1433.	0.6	0

#	ARTICLE	IF	CITATIONS
181	The method of calibration curves for immunochromatographic express tests. Part 2. immunochromatographic express tests with quantum dots. Measurement Techniques, 2013, 55, 1434-1441.	0.6	2
182	Quantum dot-based lateral flow immunoassay for detection of chloramphenicol in milk. Analytical and Bioanalytical Chemistry, 2013, 405, 4997-5000.	3.7	167
183	Integration of lateral flow and microarray technologies for multiplex immunoassay: application to the determination of drugs of abuse. Mikročimica Acta, 2013, 180, 1165-1172.	5.0	68
184	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, 236-241.	0.8	16
185	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.	0.7	0
186	Nanomaterials and nanotechnologies: methods of analysis and control. Russian Chemical Reviews, 2013, 82, 48-76.	6.5	46
187	Quantum-Dot-Based Immunochromatographic Assay for Total IgE in Human Serum. PLoS ONE, 2013, 8, e77485.	2.5	28
188	Antibody-Based Biosensors. Series in Sensors, 2013, , 161-196.	0.0	2
189	Production of monoclonal antibodies against fullerene C ₆₀ and development of a fullerene enzyme immunoassay. Analyst, The, 2012, 137, 98-105.	3.5	23
190	Development of immunochromatographic test system for rapid detection of the lipopolysaccharide antigen and cells of the causative agent of bovine brucellosis. Applied Biochemistry and Microbiology, 2012, 48, 590-597.	0.9	4
191	Application of atomic force microscopy for characteristics of single intermolecular interactions. Biochemistry (Moscow), 2012, 77, 1536-1552.	1.5	8
192	Factors influencing the detection limit of the lateral-flow sandwich immunoassay: a case study with potato virus X. Analytical and Bioanalytical Chemistry, 2012, 403, 1595-1605.	3.7	88
193	Immunochromatographic technique for express determination of ampicillin in milk and dairy products. Applied Biochemistry and Microbiology, 2011, 47, 627-634.	0.9	17
194	Immunochromatographic assay for the detection of ochratoxin A. Journal of Analytical Chemistry, 2011, 66, 770-776.	0.9	32
195	Production of anti-fullerene C ₆₀ polyclonal antibodies and study of their interaction with a conjugated form of fullerene. Journal of Nanoparticle Research, 2011, 13, 3713-3719.	1.9	11
196	Pretreatment-free immunochromatographic assay for the detection of streptomycin and its application to the control of milk and dairy products. Analytica Chimica Acta, 2011, 701, 209-217.	5.4	48
197	Ochratoxin A immunoassay with surface plasmon resonance registration: Lowering limit of detection by the use of colloidal gold immunoconjugates. Sensors and Actuators B: Chemical, 2011, 156, 343-349.	7.8	45
198	Correlation between the composition of multivalent antibody conjugates with colloidal gold nanoparticles and their affinity. Journal of Immunological Methods, 2010, 357, 17-25.	1.4	62

#	ARTICLE	IF	CITATIONS
199	Enzyme immunoassay for determination of sulfamethoxypyridazine in honey. <i>Applied Biochemistry and Microbiology</i> , 2010, 46, 216-220.	0.9	6
200	Immunochemical methods of mycotoxin analysis (review). <i>Applied Biochemistry and Microbiology</i> , 2010, 46, 253-266.	0.9	33
201	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
202	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
203	Rapid pretreatment-free immunochromatographic assay of chloramphenicol in milk. <i>Talanta</i> , 2010, 81, 843-848.	5.5	87
204	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, 3284-3289.	5.2	28
205	Development of immunochromatographic test systems for express detection of plant viruses. <i>Applied Biochemistry and Microbiology</i> , 2009, 45, 204-209.	0.9	33
206	A New Generic Enzyme Immunoassay for Sulfonamides. <i>Analytical Letters</i> , 2007, 40, 1047-1062.	1.8	16
207	Biocatalytic properties of recombinant tobacco peroxidase in chemiluminescent reaction. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 163-170.	2.0	1
208	Use of soybean peroxidase for the enzyme immunoassay of sulfamethoxypyridazine in milk. <i>Applied Biochemistry and Microbiology</i> , 2007, 43, 550-555.	0.9	4
209	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
210	Horseradish Peroxidase Renaturation Is Less Efficient at Lower Protein Concentrations. <i>Protein and Peptide Letters</i> , 2005, 12, 639-643.	0.9	2
211	Rapid Polyelectrolyte-Based Membrane Immunoassay for the Herbicide Butachlor. <i>Journal of Immunoassay and Immunochemistry</i> , 2005, 26, 231-244.	1.1	1
212	Immunochemical Approaches for Rapid Detection of Biologically Active Compounds. , 2005, , 291-301.		1
213	Production of Polyclonal Antibodies and Development of Fluorescence Polarization Immunoassay for Sulfanilamide. <i>Analytical Letters</i> , 2005, 38, 951-969.	1.8	37
214	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
215	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
216	Development of microformat imaging microplate and membrane immunoenzyme assays of the herbicide atrazine. <i>International Journal of Environmental Analytical Chemistry</i> , 2005, 85, 905-915.	3.3	2

#	ARTICLE	IF	CITATIONS
217	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
218	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
219	Antibodies as specific chaperones. <i>Biochemistry (Moscow)</i> , 2004, 69, 1233-1238.	1.5	19
220	Express detection of nonylphenol in water samples by fluorescence polarization immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 634-641.	3.7	21
221	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
222	Development of Liposome Immune Lysis Assay for the Herbicide Atrazine. <i>Journal of Immunoassay and Immunochemistry</i> , 2004, 25, 279-294.	1.1	10
223	Studies of Peroxidase Refolding in the Presence of Specific Antibodies. <i>Applied Biochemistry and Microbiology</i> , 2003, 39, 446-453.	0.9	2
224	Expression and Refolding of Tobacco Anionic Peroxidase from E. coli Inclusion Bodies. <i>Biochemistry (Moscow)</i> , 2003, 68, 1189-1194.	1.5	22
225	Comparative Analysis of Models Describing Interactions between Antibodies and Liposomal Antigens. <i>Applied Biochemistry and Microbiology</i> , 2003, 39, 75-81.	0.9	4
226	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
227	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
228	Rapid polyelectrolyte-based immunofiltration technique for testosterone detection in serum samples. <i>Analyst, The</i> , 2003, 128, 1275.	3.5	19
229	Antiperoxidase Antibodies Enhance Refolding of Horseradish Peroxidase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 291, 959-965.	2.1	11
230	Experimental study and mathematical modeling of the interaction between antibodies and antigens on the surface of liposomes. <i>Molecular Immunology</i> , 2002, 39, 413-422.	2.2	9
231	Development of a rapid, specific fluorescence polarization immunoassay for the herbicide chlorsulfuron. <i>Analytica Chimica Acta</i> , 2002, 468, 229-236.	5.4	50
232	Development of Enzyme Immunoassays for the Herbicide Chlorsulfuron. <i>Applied Biochemistry and Microbiology</i> , 2002, 38, 9-14.	0.9	11
233	Enzyme Immunoassay of Herbicide Decomposition by Soil and Wood Decay Fungi. <i>Applied Biochemistry and Microbiology</i> , 2002, 38, 355-360.	0.9	7
234	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

#	ARTICLE	IF	CITATIONS
235	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
236	A portable reflectometric photometer for quantitative enzyme immunoassay. <i>Applied Biochemistry and Microbiology</i> , 2000, 36, 429-433.	0.9	2
237	A noninstrumental immunoassay based on colloidal dyes. <i>Russian Journal of Bioorganic Chemistry</i> , 2000, 26, 207-212.	1.0	3
238	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
239	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
240	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
241	Interaction Between Antibodies and Hapten-Protein Conjugates of Different Composition: Theoretical Predictions and Experimental Data. <i>Journal of Immunoassay</i> , 1997, 18, 67-95.	0.3	8
242	Development of Various Enzyme Immunotechniques for Pesticide Detection. <i>ACS Symposium Series</i> , 1997, , 87-96.	0.5	3
243	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
244	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
245	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
246	A new visual enzyme immunoassay of methamphetamine using linear water-soluble polyelectrolytes. <i>Immunology Letters</i> , 1994, 41, 205-211.	2.5	14
247	Immunodetection of Herbicide 2,4-Dichlorophenoxyacetic Acid by Field-Effect Transistor-Based Biosensors. <i>Analytical Letters</i> , 1994, 27, 2983-2995.	1.8	36
248	An Enzyme Immunoassay of Catalytically Active Proteases. <i>Analytical Letters</i> , 1992, 25, 2199-2208.	1.8	0
249	Ways to Reach Lower Detection Limits of Lateral Flow Immunoassays. , 0, , .		16
250	Development of a two-level control system for the analysis of the composition of meat products. <i>Potravinarstvo</i> , 0, 15, 1005-1017.	0.6	2
251	Silver-enhanced lateral flow immunoassay for detection of microcystin-LR in drinking water. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-10.	3.3	1