

Svetlana M Krylova

List of Publications by Year in descending order

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25
papers

776
citations

759233

12
h-index

580821

25
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30
all docs

30
docs citations

30
times ranked

864
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonequilibrium Capillary Electrophoresis of Equilibrium Mixtures: A Universal Tool for Development of Aptamers. <i>Journal of the American Chemical Society</i> , 2005, 127, 3165-3171.	13.7	275
2	Tau protein binds single-stranded DNA sequence specifically - the proof obtained in vitro with non-equilibrium capillary electrophoresis of equilibrium mixtures. <i>FEBS Letters</i> , 2005, 579, 1371-1375.	2.8	83
3	Emulsion PCR Significantly Improves Nonequilibrium Capillary Electrophoresis of Equilibrium Mixtures-Based Aptamer Selection: Allowing for Efficient and Rapid Selection of Aptamer to Unmodified ABH2 Protein. <i>Analytical Chemistry</i> , 2015, 87, 1411-1419.	6.5	64
4	Transverse diffusion of laminar flow profiles – a generic method for mixing reactants in capillary microreactor. <i>Journal of Separation Science</i> , 2009, 32, 742-756.	2.5	55
5	Ideal-Filter Capillary Electrophoresis (IFCE) Facilitates the One-Step Selection of Aptamers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2739-2743.	13.8	43
6	Using Nonequilibrium Capillary Electrophoresis of Equilibrium Mixtures (NECEEM) for Simultaneous Determination of Concentration and Equilibrium Constant. <i>Analytical Chemistry</i> , 2015, 87, 3099-3106.	6.5	33
7	Predicting Electrophoretic Mobility of Protein-Ligand Complexes for Ligands from DNA-Encoded Libraries of Small Molecules. <i>Analytical Chemistry</i> , 2016, 88, 5498-5506.	6.5	30
8	DNA aptamers for as analytical tools for the quantitative analysis of DNA-dealkylating enzymes. <i>Analytical Biochemistry</i> , 2011, 414, 261-265.	2.4	26
9	Aptamer facilitated purification of functional proteins. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1073, 201-206.	2.3	20
10	Prediction of Protein-DNA Complex Mobility in Gel-Free Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2015, 87, 2474-2479.	6.5	19
11	Slow-Dissociation and Slow-Recombination Assumptions in Nonequilibrium Capillary Electrophoresis of Equilibrium Mixtures. <i>Analytical Chemistry</i> , 2011, 83, 7582-7585.	6.5	14
12	Mechanistic Studies on the Application of DNA Aptamers as Inhibitors of 2-Oxoglutarate-Dependent Oxygenases. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 3546-3552.	6.4	13
13	Spherical-Shape Assumption for Protein-Aptamer Complexes Facilitates Prediction of Their Electrophoretic Mobility. <i>Analytical Chemistry</i> , 2019, 91, 12680-12687.	6.5	10
14	Ideal-Filter Capillary Electrophoresis (IFCE) Facilitates the One-Step Selection of Aptamers. <i>Angewandte Chemie</i> , 2019, 131, 2765-2769.	2.0	10
15	Determination of the Equilibrium Constant and Rate Constant of Protein-Oligonucleotide Complex Dissociation under the Conditions of Ideal-Filter Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2019, 91, 8532-8539.	6.5	10
16	Direct Quantitative Analysis of Multiple microRNAs (DQAMmiR) with Peptide Nucleic Acid Hybridization Probes. <i>Analytical Chemistry</i> , 2018, 90, 14610-14615.	6.5	9
17	Ideal-filter capillary electrophoresis: A highly efficient partitioning method for selection of protein binders from oligonucleotide libraries. <i>Electrophoresis</i> , 2019, 40, 2553-2564.	2.4	9
18	Necessity and Challenges of Sample Preconcentration in Analysis of Multiple MicroRNAs by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2020, 92, 14251-14258.	6.5	9

#	ARTICLE	IF	CITATIONS
19	How to Develop and Prove High-Efficiency Selection of Ligands from Oligonucleotide Libraries: A Universal Framework for Aptamers and DNA-Encoded Small-Molecule Ligands. <i>Analytical Chemistry</i> , 2021, 93, 5343-5354.	6.5	9
20	Making DNA Hybridization Assays in Capillary Electrophoresis Quantitative. <i>Analytical Chemistry</i> , 2010, 82, 4428-4433.	6.5	8
21	Quantitative Characterization of Partitioning in Selection of DNA Aptamers for Protein Targets by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2022, 94, 2578-2588.	6.5	7
22	Monitoring viral DNA release with capillary electrophoresis. <i>Analyst, The</i> , 2004, 129, 1234.	3.5	6
23	Simultaneous Analysis of a Non-Lipidated Protein and Its Lipidated Counterpart: Enabling Quantitative Investigation of Protein Lipidation's Impact on Cellular Regulation. <i>Analytical Chemistry</i> , 2017, 89, 13502-13507.	6.5	6
24	High-precision quantitation of a tuberculosis vaccine antigen with capillary-gel electrophoresis using an injection standard. <i>Talanta</i> , 2017, 175, 273-279.	5.5	4
25	Unexpected Electrophoretic Behavior of Complexes between Rod-like Virions and Bivalent Antibodies. <i>Analytical Chemistry</i> , 2016, 88, 11908-11912.	6.5	0