Katerina Kourentzi

List of Publications by Year
in descending order

49 papers	849 citations	516710 16 h-index	526287 27 g-index
52 all docs	52 docs citations	52 times ranked	1139 citing authors

#	Article	IF	Citations
1	Persistent Luminescence Strontium Aluminate Nanoparticles as Reporters in Lateral Flow Assays. Analytical Chemistry, 2014, 86, 9481-9488.	6.5	104
2	Unified superresolution experiments and stochastic theory provide mechanistic insight into protein ion-exchange adsorptive separations. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2075-2080.	7.1	68
3	Biophysical characterization of DNA and RNA aptamer interactions with hen egg lysozyme. International Journal of Biological Macromolecules, 2011, 48, 392-397.	7.5	45
4	High ionic strength narrows the population of sites participating in protein ion-exchange adsorption: A single-molecule study. Journal of Chromatography A, 2014, 1343, 135-142.	3.7	38
5	Sensitive Detection of Norovirus Using Phage Nanoparticle Reporters in Lateral-Flow Assay. PLoS ONE, 2015, 10, e0126571.	2.5	37
6	Dynamics of an anti-VEGF DNA aptamer: A single-molecule study. Biochemical and Biophysical Research Communications, 2008, 373, 213-218.	2.1	36
7	A multicolor multiplex lateral flow assay for high-sensitivity analyte detection using persistent luminescent nanophosphors. Analytical Methods, 2020, 12, 272-280.	2.7	36
8	Aptamer-Phage Reporters for Ultrasensitive Lateral Flow Assays. Analytical Chemistry, 2015, 87, 11660-11665.	6.5	35
9	Functionalized viral nanoparticles as ultrasensitive reporters in lateral-flow assays. Analyst, The, 2013, 138, 5584.	3.5	29
10	Enhancement of lateral flow assay performance by electromagnetic relocation of reporter particles. PLoS ONE, 2018, 13, e0186782.	2.5	27
11	Ultrasensitive Magnetic Nanoparticle Detector for Biosensor Applications. Sensors, 2017, 17, 1296.	3.8	23
12	Detection of Viruses By Counting Single Fluorescent Genetically Biotinylated Reporter Immunophage Using a Lateral Flow Assay. ACS Applied Materials & Interfaces, 2015, 7, 2891-2898.	8.0	21
13	Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. IEEE Sensors Journal, 2013, 13, 4534-4541.	4.7	20
14	Permeability of anti-fouling PEGylated surfaces probed by fluorescence correlation spectroscopy. Colloids and Surfaces B: Biointerfaces, 2011, 88, 31-38.	5.0	19
15	Nanoparticle-Based Proximity Ligation Assay for Ultrasensitive, Quantitative Detection of Protein Biomarkers. ACS Applied Materials & Interfaces, 2018, 10, 31845-31849.	8.0	18
16	Transmissive Nanohole Arrays for Massively-Parallel Optical Biosensing. ACS Photonics, 2014, 1, 241-245.	6.6	17
17	Competitive multicomponent anion exchange adsorption of proteins at the single molecule level. Analyst, The, 2017, 142, 3127-3131.	3.5	17
18	Evaluation of a nanophosphor lateral-flow assay for self-testing for herpes simplex virus type 2 seropositivity. PLoS ONE, 2019, 14, e0225365.	2.5	17

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19	Fluorescence correlation spectroscopy study of protein transport and dynamic interactions with clusteredâ€charge peptide adsorbents. Journal of Molecular Recognition, 2012, 25, 435-442.	2.1	16
20	Conformational flexibility and kinetic complexity in antibodyâ€“antigen interactions. Journal of Molecular Recognition, 2008, 21, 114-121.	2.1	15
21	pHâ€dependence of singleâ€protein adsorption and diffusion at a liquid chromatographic interface. Journal of Separation Science, 2016, 39, 682-688.	2.5	15
22	Ensemble and single-molecule biophysical characterization of D17.4 DNA aptamerâ€“IgE interactions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 154-164.	2.3	14
23	Increasing Binding Efficiency via Reporter Shape and Flux in a Viral Nanoparticle Lateral-Flow Assay. ACS Applied Materials & Interfaces, 2017, 9, 6878-6884.	8.0	13
24	Spin-Valve based magnetoresistive nanoparticle detector for applications in biosensing. Sensors and Actuators A: Physical, 2017, 265, 174-180.	4.1	13
25	Nucleic acid affinity of clustered-charge anion exchange adsorbents: Effects of ionic strength and ligand density. Journal of Chromatography A, 2011, 1218, 258-262.	3.7	12
26	Biophysical characterization of VEGFâ€“aHt DNA aptamer interactions. International Journal of Biological Macromolecules, 2013, 57, 69-75.	7.5	12
27	Suspended, micron-scale corner cube retroreflectors as ultra-bright optical labels. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 06FA01.	1.2	11
28	Microretroreflector-Sedimentation Immunoassays for Pathogen Detection. Analytical Chemistry, 2014, 86, 9029-9035.	6.5	11
29	Flotation Immunoassay: Masking the Signal from Free Reporters in Sandwich Immunoassays. Scientific Reports, 2016, 6, 24297.	3.3	11
30	Ultrasensitive immuno-detection using viral nanoparticles with modular assembly using genetically-directed biotinylation. Biotechnology Letters, 2014, 36, 1863-1868.	2.2	10
31	Depth-resolved imaging and detection of micro-retroreflectors within biological tissue using Optical Coherence Tomography. Biomedical Optics Express, 2010, 1, 367.	2.9	9
32	Enzymatic Synthesis of Magnetic Nanoparticles. International Journal of Molecular Sciences, 2015, 16, 7535-7550.	4.1	9
33	Fluorophore exchange kinetics in block copolymer micelles with varying solventâ€“fluorophore and solventâ€“polymer interactions. Soft Matter, 2016, 12, 6196-6205.	2.7	9
34	Continuous Fc detection for protein A capture process control. Biosensors and Bioelectronics, 2020, 165, 112327.	10.1	9
35	High-Resolution, High-Throughput, Positive-Tone Patterning of Poly(ethylene glycol) by Helium Beam Exposure through Stencil Masks. PLoS ONE, 2013, 8, e56835.	2.5	6
36	An embedded microretroreflector-based microfluidic immunoassay platform. Lab on A Chip, 2016, 16, 1625-1635.	6.0	6

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37	Orientational binding modes of reporters in a viral-nanoparticle lateral flow assay. Analyst, The, 2017, 142, 55-64.	3.5	6
38	PCB-Based Magnetometer as a Platform for Quantification of Lateral-Flow Assays. Sensors, 2019, 19, 5433.	3.8	6
39	Spermine Sepharose as a clustered-charge anion exchange adsorbent. Journal of Chromatography A, 2014, 1324, 135-140.	3.7	5
40	SERS-Based Ultrasensitive Lateral Flow Assay for Quantitative Sensing of Protein Biomarkers. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	5
41	Mapping discontinuous proteinâ€binding sites via structureâ€based peptide libraries: combining in silico and in vitro approaches. Journal of Molecular Recognition, 2013, 26, 23-31.	2.1	4
42	Enzymatic conversion of magnetic nanoparticles to a non-magnetic precipitate: a new approach to magnetic sensing. Analyst, The, 2016, 141, 5246-5251.	3.5	4
43	Akkermansia muciniphila as a Model Case for the Development of an Improved Quantitative RPA Microbiome Assay. Frontiers in Cellular and Infection Microbiology, 2018, 8, 237.	3.9	4
44	Helium beam shadowing for high spatial resolution patterning of antibodies on microstructured diagnostic surfaces. Biointerphases, 2013, 8, 9.	1.6	2
45	Recombinant expression, characterization, and quantification in human cancer cell lines of the Anaplastic Large-Cell Lymphoma-characteristic NPM-ALK fusion protein. Scientific Reports, 2020, 10, 5078.	3.3	2
46	Neutral DNAâ€“avidin nanoparticles as ultrasensitive reporters in immuno-PCR. Analyst, The, 2020, 145, 4942-4949.	3.5	1
47	Isocratic reporter-exclusion immunoassay using restricted-access adsorbents. Analyst, The, 2021, 146, 4835-4840.	3.5	1
48	Antibody mix-and-read assays based on fluorescence intensity probes. MAbs, 2021, 13, 1980178.	5.2	1
49	Antibody mix-and-read assays based on fluorescence intensity probes. MAbs, 2021, 13, 1980178.	5.2	0