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	Isocratic reporter-exclusion immunoassay using restricted-access adsorbents. Analyst, The, 2021, 146, 4835-4840.	3.5	1
2	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
3	Antibody mix-and-read assays based on fluorescence intensity probes. MAbs, 2021, 13, 1980178.	5.2	0
4	Antibody mix-and-read assays based on fluorescence intensity probes. MAbs, 2021, 13, 1980178.	5.2	1
5	A multicolor multiplex lateral flow assay for high-sensitivity analyte detection using persistent luminescent nanophosphors. Analytical Methods, 2020, 12, 272-280.	2.7	36
6	Neutral DNAâ€“avidin nanoparticles as ultrasensitive reporters in immuno-PCR. Analyst, The, 2020, 145, 4942-4949.	3.5	1
7	Continuous Fc detection for protein A capture process control. Biosensors and Bioelectronics, 2020, 165, 112327.	10.1	9
8	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
9	PCB-Based Magnetometer as a Platform for Quantification of Lateral-Flow Assays. Sensors, 2019, 19, 5433.	3.8	6
10	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
11	Nanoparticle-Based Proximity Ligation Assay for Ultrasensitive, Quantitative Detection of Protein Biomarkers. ACS Applied Materials & Interfaces, 2018, 10, 31845-31849.	8.0	18
12	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
13	Enhancement of lateral flow assay performance by electromagnetic relocation of reporter particles. PLoS ONE, 2018, 13, e0186782.	2.5	27
14	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
15	Competitive multicomponent anion exchange adsorption of proteins at the single molecule level. Analyst, The, 2017, 142, 3127-3131.	3.5	17
16	Spin-Valve based magnetoresistive nanoparticle detector for applications in biosensing. Sensors and Actuators A: Physical, 2017, 265, 174-180.	4.1	13
17	Orientational binding modes of reporters in a viral-nanoparticle lateral flow assay. Analyst, The, 2017, 142, 55-64.	3.5	6
18	Ultrasensitive Magnetic Nanoparticle Detector for Biosensor Applications. Sensors, 2017, 17, 1296.	3.8	23

#	Article	IF	Citations
19	pHâ€dependence of singleâ€protein adsorption and diffusion at a liquid chromatographic interface. Journal of Separation Science, 2016, 39, 682-688.	2.5	15
20	Flotation Immunoassay: Masking the Signal from Free Reporters in Sandwich Immunoassays. Scientific Reports, 2016, 6, 24297.	3.3	11
21	Fluorophore exchange kinetics in block copolymer micelles with varying solventâ€“fluorophore and solventâ€“polymer interactions. Soft Matter, 2016, 12, 6196-6205.	2.7	9
22	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
23	An embedded microretroreflector-based microfluidic immunoassay platform. Lab on A Chip, 2016, 16, 1625-1635.	6.0	6
24	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
25	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
26	Enzymatic Synthesis of Magnetic Nanoparticles. International Journal of Molecular Sciences, 2015, 16, 7535-7550.	4.1	9
27	Aptamer-Phage Reporters for Ultrasensitive Lateral Flow Assays. Analytical Chemistry, 2015, 87, 11660-11665.	6.5	35
28	Sensitive Detection of Norovirus Using Phage Nanoparticle Reporters in Lateral-Flow Assay. PLoS ONE, 2015, 10, e0126571.	2.5	37
29	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
30	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
31	Spermine Sepharose as a clustered-charge anion exchange adsorbent. Journal of Chromatography A, 2014, 1324, 135-140.	3.7	5
32	Persistent Luminescence Strontium Aluminate Nanoparticles as Reporters in Lateral Flow Assays. Analytical Chemistry, 2014, 86, 9481-9488.	6.5	104
33	Transmissive Nanohole Arrays for Massively-Parallel Optical Biosensing. ACS Photonics, 2014, 1, 241-245.	6.6	17
34	Microretroreflector-Sedimentation Immunoassays for Pathogen Detection. Analytical Chemistry, 2014, 86, 9029-9035.	6.5	11
35	Ultrasensitive immuno-detection using viral nanoparticles with modular assembly using genetically-directed biotinylation. Biotechnology Letters, 2014, 36, 1863-1868.	2.2	10
36	Helium beam shadowing for high spatial resolution patterning of antibodies on microstructured diagnostic surfaces. Biointerphases, 2013, 8, 9.	1.6	2

#	Article	IF	Citations
37	Functionalized viral nanoparticles as ultrasensitive reporters in lateral-flow assays. Analyst, The, 2013, 138, 5584.	3.5	29
38	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
39	Biophysical characterization of VEGFâ€“aHt DNA aptamer interactions. International Journal of Biological Macromolecules, 2013, 57, 69-75.	7.5	12
40	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
41	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
42	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
43	Biophysical characterization of DNA and RNA aptamer interactions with hen egg lysozyme. International Journal of Biological Macromolecules, 2011, 48, 392-397.	7.5	45
44	Permeability of anti-fouling PEGylated surfaces probed by fluorescence correlation spectroscopy. Colloids and Surfaces B: Biointerfaces, 2011, 88, 31-38.	5.0	19
45	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
46	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
47	Depth-resolved imaging and detection of micro-retroreflectors within biological tissue using Optical Coherence Tomography. Biomedical Optics Express, 2010, 1, 367.	2.9	9
48	Conformational flexibility and kinetic complexity in antibodyâ€“antigen interactions. Journal of Molecular Recognition, 2008, 21, 114-121.	2.1	15
49	Dynamics of an anti-VEGF DNA aptamer: A single-molecule study. Biochemical and Biophysical Research Communications, 2008, 373, 213-218.	2.1	36