

Michael Seidel

List of Publications by Year in descending order

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55
papers

1,876
citations

257357

24
h-index

265120

42
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57
all docs

57
docs citations

57
times ranked

2635
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated analytical microarrays: a critical review. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1521-44.	1.9	165
2	Detection of <i>Escherichia coli</i> O157:H7, <i>Salmonella typhimurium</i> , and <i>Legionella pneumophila</i> in Water Using a Flow-Through Chemiluminescence Microarray Readout System. <i>Analytical Chemistry</i> , 2008, 80, 5854-5863.	3.2	147
3	Multifunctional Nanoparticles for Dual Imaging. <i>Analytical Chemistry</i> , 2011, 83, 2877-2882.	3.2	109
4	Evaluation of Methods for the Concentration and Extraction of Viruses from Sewage in the Context of Metagenomic Sequencing. <i>PLoS ONE</i> , 2017, 12, e0170199.	1.1	107
5	Sensitive Quantification of <i>Escherichia coli</i> O157:H7, <i>Salmonella enterica</i> , and <i>Campylobacter jejuni</i> by Combining Stopped Polymerase Chain Reaction with Chemiluminescence Flow-Through DNA Microarray Analysis. <i>Analytical Chemistry</i> , 2011, 83, 3153-3160.	3.2	93
6	Preparation and Characterization of Functional Poly(ethylene glycol) Surfaces for the Use of Antibody Microarrays. <i>Analytical Chemistry</i> , 2007, 79, 4529-4537.	3.2	89
7	A regenerable immuno chip for the rapid determination of 13 different antibiotics in raw milk. <i>Analyst, The</i> , 2009, 134, 1433.	1.7	81
8	On-Chip Isothermal Nucleic Acid Amplification on Flow-Based Chemiluminescence Microarray Analysis Platform for the Detection of Viruses and Bacteria. <i>Analytical Chemistry</i> , 2016, 88, 898-905.	3.2	79
9	Simultaneous determination of four different antibiotic residues in honey by chemiluminescence multianalyte chip immunoassays. <i>Mikrochimica Acta</i> , 2011, 173, 1-9.	2.5	65
10	Rapid and simultaneous detection of ricin, staphylococcal enterotoxin B and saxitoxin by chemiluminescence-based microarray immunoassay. <i>Analyst, The</i> , 2014, 139, 5885-5892.	1.7	60
11	Immunomagnetic nanoparticle-based sandwich chemiluminescence-ELISA for the enrichment and quantification of <i>E. coli</i> . <i>Mikrochimica Acta</i> , 2010, 168, 1-8.	2.5	55
12	Chemiluminescence microarrays in analytical chemistry: a critical review. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5589-5612.	1.9	55
13	Development of an open stand-alone platform for regenerable automated microarrays. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2106-2112.	5.3	52
14	Development of a multichannel flow-through chemiluminescence microarray chip for parallel calibration and detection of pathogenic bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1623-1630.	1.9	51
15	Automated, high performance, flow-through chemiluminescence microarray for the multiplexed detection of phycotoxins. <i>Analytica Chimica Acta</i> , 2013, 787, 211-218.	2.6	42
16	Development of an epoxy-based monolith used for the affinity capturing of <i>Escherichia coli</i> bacteria. <i>Journal of Chromatography A</i> , 2009, 1216, 3794-3801.	1.8	38
17	Long amplicon (LA)-qPCR for the discrimination of infectious and noninfectious phix174 bacteriophages after UV inactivation. <i>Water Research</i> , 2016, 103, 141-148.	5.3	38
18	Microfluidic-Based Synthesis of Magnetic Nanoparticles Coupled with Miniaturized NMR for Online Relaxation Studies. <i>Analytical Chemistry</i> , 2018, 90, 9975-9982.	3.2	38

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19	Surface-enhanced Raman spectroscopy of microorganisms: limitations and applicability on the single-cell level. <i>Analyst</i> , 2019, 144, 943-953.	1.7	37
20	Rapid quantification of bioaerosols containing <i>L. pneumophila</i> by Coriolis® 1/4 air sampler and chemiluminescence antibody microarrays. <i>Journal of Aerosol Science</i> , 2012, 48, 46-55.	1.8	35
21	Combination of Crossflow Ultrafiltration, Monolithic Affinity Filtration, and Quantitative Reverse Transcriptase PCR for Rapid Concentration and Quantification of Model Viruses in Water. <i>Environmental Science & Technology</i> , 2012, 46, 10073-10080.	4.6	27
22	Rapid quantification method for <i>Legionella pneumophila</i> in surface water. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2203-2213.	1.9	26
23	Quantification of <i>E. coli</i> DNA on a Flow-through Chemiluminescence Microarray Readout System after PCR Amplification. <i>Analytical Sciences</i> , 2009, 25, 669-674.	0.8	25
24	Stopped-flow microarray immunoassay for detection of viable <i>E. coli</i> by use of chemiluminescence flow-through microarrays. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1041-1050.	1.9	25
25	Quantification of viable and non-viable <i>Legionella</i> spp. by heterogeneous asymmetric recombinase polymerase amplification (haRPA) on a flow-based chemiluminescence microarray. <i>Biosensors and Bioelectronics</i> , 2018, 100, 49-55.	5.3	25
26	Flow-based regenerable chemiluminescence receptor assay for the detection of tetracyclines. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3467-3476.	1.9	24
27	Cross-flow microfiltration system for rapid enrichment of bacteria in water. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 399-404.	1.9	22
28	Miniaturization and parallelization of fluorescence immunoassays in nanotiter plates. <i>TrAC - Trends in Analytical Chemistry</i> , 2003, 22, 385-394.	5.8	21
29	A miniaturized heterogeneous fluorescence immunoassay on gold-coated nano-titer plates. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 904-12.	1.9	21
30	High performance concentration method for viruses in drinking water. <i>Journal of Virological Methods</i> , 2015, 222, 132-137.	1.0	21
31	A Glyco-chip for the Detection of Ricin by an Automated Chemiluminescence Read-out System. <i>Analytical Sciences</i> , 2013, 29, 461-466.	0.8	17
32	New Route for Fast Detection of Antibodies against Zoonotic Pathogens in Sera of Slaughtered Pigs by Means of Flow-through Chemiluminescence Immuno-chips. <i>Analytical Chemistry</i> , 2013, 85, 5279-5285.	3.2	16
33	Microbial and viral pathogens in freshwater: current research aspects studied in Germany. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	16
34	Preparation of epoxy-based macroporous monolithic columns for the fast and efficient immunofiltration of <i>Staphylococcus aureus</i> . <i>Journal of Separation Science</i> , 2011, 34, 2181-2192.	1.3	13
35	Oligonucleotide microarray chip for the quantification of MS2, ϕ X174, and adenoviruses on the multiplex analysis platform MCR 3. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3323-3334.	1.9	13
36	Production and characterization of long-term stable superparamagnetic iron oxide-shell silica-core nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 442, 497-503.	1.0	13

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37	Automated, flow-based chemiluminescence microarray immunoassay for the rapid multiplex detection of IgG antibodies to SARS-CoV-2 in human serum and plasma (CoVRapid CL-MIA). <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5619-5632.	1.9	12
38	Microfluidic flow-injection aptamer-based chemiluminescence platform for sulfadimethoxine detection. <i>Mikrochimica Acta</i> , 2022, 189, 117.	2.5	10
39	Validation Procedure for Multiplex Antibiotic Immunoassays Using Flow-Based Chemiluminescence Microarrays. <i>Methods in Molecular Biology</i> , 2017, 1518, 195-212.	0.4	9
40	Heterogeneous asymmetric recombinase polymerase amplification (haRPA) for rapid hygiene control of large-volume water samples. <i>Analytical Biochemistry</i> , 2018, 546, 58-64.	1.1	8
41	Succinylated Jeffamine ED-2003 coated polycarbonate chips for low-cost analytical microarrays. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1943-1955.	1.9	8
42	Development of antibody-labelled superparamagnetic nanoparticles for the visualisation of benzo[a]pyrene in porous media with magnetic resonance imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2529-2540.	1.9	7
43	Modular development of an inline monitoring system for waterborne pathogens in raw and drinking water. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	7
44	Detection of Legionella-contaminated aerosols in the vicinity of a bio-trickling filter of a breeding sow facility – A pilot study. <i>Science of the Total Environment</i> , 2017, 575, 1197-1202.	3.9	7
45	Strategy for fast manufacturing of 3D hydrodynamic focusing multilayer microfluidic chips and its application for flow-based synthesis of gold nanoparticles. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	1.0	7
46	Quantitative detection of human adenovirus from river water by monolithic adsorption filtration and quantitative PCR. <i>Journal of Virological Methods</i> , 2021, 292, 114128.	1.0	6
47	Isothermal haRPA detection of blaCTX-M in bacterial isolates from water samples and comparison with qPCR. <i>Analytical Methods</i> , 2021, 13, 552-557.	1.3	6
48	Regeneration of Recombinant Antigen Microarrays for the Automated Monitoring of Antibodies against Zoonotic Pathogens in Swine Sera. <i>Sensors</i> , 2015, 15, 2614-2628.	2.1	5
49	Magnetic nanocomposites: versatile tool for the combination of immunomagnetic separation with flow-based chemiluminescence immunoassay for rapid biosensing of Staphylococcal enterotoxin B in milk. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4951-4961.	1.9	5
50	Integration of 3D Hydrodynamic Focused Microreactor with Microfluidic Chemiluminescence Sensing for Online Synthesis and Catalytic Characterization of Gold Nanoparticles. <i>Sensors</i> , 2021, 21, 2290.	2.1	4
51	Fully Automated Chemiluminescence Microarray Analysis Platform for Rapid and Multiplexed SARS-CoV-2 Serodiagnostics. <i>Analytical Chemistry</i> , 2022, 94, 2855-2864.	3.2	4
52	Macroporous epoxy-based monoliths for rapid quantification of Pseudomonas aeruginosa by adsorption elution method optimized for qPCR. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8185-8195.	1.9	3
53	A Chip-Based Colony Fusion Recombinase Polymerase Amplification Assay for Monitoring of Antimicrobial Resistance Genes and Their Carrying Species in Surface Water. <i>ACS ES&T Water</i> , 2021, 1, 584-594.	2.3	2
54	A chemiluminescence-based heterogeneous asymmetric recombinase polymerase amplification assay for the molecular detection of mycotoxin producers. <i>Analyst</i> , 2021, 146, 1074-1083.	1.7	1

#	ARTICLE	IF	CITATIONS
55	Optical Sensing Methods in High-Throughput Screening. , 2003, , 261-288.		1