

# Reinhard Niessner

## List of Publications by Citations

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287  
papers

14,137  
citations

65  
h-index

105  
g-index

293  
ext. papers

15,745  
ext. citations

6.4  
avg, IF

6.78  
L-index

#	Paper	IF	Citations
287	Contamination of beach sediments of a subalpine lake with microplastic particles. <i>Current Biology</i> , <b>2013</b> , 23, R867-8	6.3	411
286	A novel, highly efficient method for the separation and quantification of plastic particles in sediments of aquatic environments. <i>Limnology and Oceanography: Methods</i> , <b>2012</b> , 10, 524-537	2.6	343
285	DNA-based hybridization chain reaction for amplified bioelectronic signal and ultrasensitive detection of proteins. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5392-9	7.8	342
284	Review: bioanalytical applications of biomolecule-functionalized nanometer-sized doped silica particles. <i>Analytica Chimica Acta</i> , <b>2009</b> , 647, 14-30	6.6	331
283	Microplastic in Aquatic Ecosystems. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 1720-1739	16.4	321
282	SERS detection of bacteria in water by in situ coating with Ag nanoparticles. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1525-33	7.8	298
281	Interaction of Ozone and Water Vapor with Spark Discharge Soot Aerosol Particles Coated with Benzo[a]pyrene: O <sub>3</sub> and H <sub>2</sub> O Adsorption, Benzo[a]pyrene Degradation, and Atmospheric Implications. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 4029-4041	2.8	276
280	Signal-On Photoelectrochemical Immunoassay for Aflatoxin B Based on Enzymatic Product-Etching MnO Nanosheets for Dissociation of Carbon Dots. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 5637-5645	7.8	266
279	Pigments and plastic in limnetic ecosystems: A qualitative and quantitative study on microparticles of different size classes. <i>Water Research</i> , <b>2016</b> , 98, 64-74	12.5	249
278	Polycyclic aromatic hydrocarbons in urban air particulate matter: decadal and seasonal trends, chemical degradation, and sampling artifacts. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 2861-8 <sup>10.3</sup>	10.3	238
277	Magneto-controlled graphene immunosensing platform for simultaneous multiplexed electrochemical immunoassay using distinguishable signal tags. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5407-14	7.8	221
276	Automated microarray system for the simultaneous detection of antibiotics in milk. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 646-54	7.8	218
275	Palindromic Molecular Beacon Based Z-Scheme BiOCl-Au-CdS Photoelectrochemical Biodetection. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 2447-2454	7.8	211
274	Removal of siloxanes in biogases. <i>Journal of Hazardous Materials</i> , <b>2001</b> , 83, 183-96	12.8	188
273	Determination of Siloxanes and VOC in Landfill Gas and Sewage Gas by Canister Sampling and GC-MS/AES Analysis. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 3680-3685	10.3	177
272	Methods for the analysis of submicrometer- and nanoplastic particles in the environment. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 112, 52-65	14.6	164
271	Combined use of confocal laser scanning microscopy (CLSM) and Raman microscopy (RM): investigations on EPS-Matrix. <i>Water Research</i> , <b>2009</b> , 43, 63-76	12.5	161

270	Protein nitration by polluted air. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 1673-8	10.3	151
269	Automated analytical microarrays: a critical review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 391, 1521-44	4.4	145
268	Raman microspectroscopic analysis of changes in the chemical structure and reactivity of soot in a diesel exhaust aftertreatment model system. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 3702-7	10.3	138
267	Detection of Escherichia coli O157:H7, Salmonella typhimurium, and Legionella pneumophila in water using a flow-through chemiluminescence microarray readout system. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 5854-63	7.8	134
266	Label-Free in Situ Discrimination of Live and Dead Bacteria by Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6553-61	7.8	131
265	Soot structure and reactivity analysis by Raman microspectroscopy, temperature-programmed oxidation, and high-resolution transmission electron microscopy. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 13871-80	2.8	131
264	Methods for studying synaptosomal copper release. <i>Journal of Neuroscience Methods</i> , <b>2003</b> , 128, 159-72	3	126
263	Silver Nanolabels-Assisted Ion-Exchange Reaction with CdTe Quantum Dots Mediated Exciton Trapping for Signal-On Photoelectrochemical Immunoassay of Mycotoxins. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7858-66	7.8	125
262	Photocatalytic activity of semiconductor-modified cement: Influence of semiconductor type and cement ageing. <i>Applied Catalysis B: Environmental</i> , <b>2003</b> , 43, 205-216	21.8	124
261	Towards a nondestructive chemical characterization of biofilm matrix by Raman microscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 393, 197-206	4.4	122
260	Molecularly imprinted polymer for metsulfuron-methyl and its binding characteristics for sulfonyleurea herbicides. <i>Analytica Chimica Acta</i> , <b>2002</b> , 468, 217-227	6.6	119
259	Low-cost and highly sensitive immunosensing platform for aflatoxins using one-step competitive displacement reaction mode and portable glucometer-based detection. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11451-8	7.8	111
258	Microarrays for the screening of allergen-specific IgE in human serum. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 556-62	7.8	111
257	Residue analysis of the pharmaceutical diclofenac in different water types using ELISA and GC-MS. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 3422-9	10.3	107
256	Benzo[a]pyrene imprinted polymers: synthesis, characterization and SPE application in water and coffee samples. <i>Analytica Chimica Acta</i> , <b>2004</b> , 522, 137-144	6.6	105
255	Multiplexed electrochemical immunoassay of biomarkers using metal sulfide quantum dot nanolabels and trifunctionalized magnetic beads. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 46, 37-43	11.8	104
254	Raman microspectroscopy as a tool for microplastic particle analysis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 109, 214-226	14.6	103
253	Antimicrobial peptide based magnetic recognition elements and Au@Ag-GO SERS tags with stable internal standards: a three in one biosensor for isolation, discrimination and killing of multiple bacteria in whole blood. <i>Chemical Science</i> , <b>2018</b> , 9, 8781-8795	9.4	101

252	Nanoparticle-based immunosensors and immunoassays for aflatoxins. <i>Analytica Chimica Acta</i> , <b>2016</b> , 912, 10-23	6.6	100
251	Selective trace analysis of sulfonylurea herbicides in water and soil samples based on solid-phase extraction using a molecularly imprinted polymer. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 5411-20	10.3	99
250	Analysis of atrazine, terbutylazine and their N-dealkylated chloro and hydroxy metabolites by solid-phase extraction and gas chromatography-mass spectrometry and capillary electrophoresis-ultraviolet detection. <i>Journal of Chromatography A</i> , <b>1999</b> , 835, 217-29	4.5	96
249	Anodic-stripping voltammetric immunoassay for ultrasensitive detection of low-abundance proteins using quantum dot aggregated hollow microspheres. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 2496-503	4.8	87
248	Changes in Structure and Reactivity of Soot during Oxidation and Gasification by Oxygen, Studied by Micro-Raman Spectroscopy and Temperature Programmed Oxidation. <i>Aerosol Science and Technology</i> , <b>2009</b> , 43, 1-8	3.4	87
247	Analysis of nitrated polycyclic aromatic hydrocarbons by liquid chromatography with fluorescence and mass spectrometry detection: air particulate matter, soot, and reaction product studies. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 378, 725-36	4.4	87
246	Sensitive quantification of Escherichia coli O157:H7, Salmonella enterica, and Campylobacter jejuni by combining stopped polymerase chain reaction with chemiluminescence flow-through DNA microarray analysis. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 3153-60	7.8	86
245	Highly sensitive immunoassay based on a monoclonal antibody specific for [4-arginine]microcystins. <i>Analytica Chimica Acta</i> , <b>2001</b> , 441, 1-13	6.6	85
244	Enzymatic hydrolysate-induced displacement reaction with multifunctional silica beads doped with horseradish peroxidase-thionine conjugate for ultrasensitive electrochemical immunoassay. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 8531-40	7.8	83
243	Preparation and characterization of functional poly(ethylene glycol) surfaces for the use of antibody microarrays. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 4529-37	7.8	83
242	Determination of the absolute fluorescence quantum yield of rhodamine 6G with optical and photoacoustic methods—providing the basis for fluorescence quantum yield standards. <i>Talanta</i> , <b>2012</b> , 90, 30-7	6.2	82
241	Molecularly imprinted microspheres and nanospheres for di(2-ethylhexyl)phthalate prepared by precipitation polymerization. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 389, 405-12	4.4	82
240	Synthesis of core-shell surface-enhanced Raman tags for bioimaging. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 441-68	7.8	81
239	Generic microcystin immunoassay based on monoclonal antibodies against Adda. <i>Analyst</i> , <b>2001</b> , 126, 2002-7	5	81
238	Polymer-coated fluorescent CdSe-based quantum dots for application in immunoassay. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 53, 225-31	11.8	79
237	In situ surface-enhanced Raman scattering analysis of biofilm. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 8538-44	7.8	79
236	A Photoacoustic Sensor System for Time Resolved Quantification of Diesel Soot Emissions <b>2004</b> ,		79
235	Surface-enhanced Raman scattering-based label-free microarray readout for the detection of microorganisms. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2766-72	7.8	77

234	Target-induced nanocatalyst deactivation facilitated by core@shell nanostructures for signal-amplified headspace-colorimetric assay of dissolved hydrogen sulfide. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 10153-60	7.8	75
233	Label-free in situ SERS imaging of biofilms. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 10184-94	3.4	75
232	A regenerable immunochip for the rapid determination of 13 different antibiotics in raw milk. <i>Analyst, The</i> , <b>2009</b> , 134, 1433-9	5	75
231	Colloid and heavy metal transport at landfill sites in direct contact with groundwater. <i>Water Research</i> , <b>2006</b> , 40, 2776-86	12.5	75
230	Use of isotope-labeled aflatoxins for LC-MS/MS stable isotope dilution analysis of foods. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 1873-9	5.7	74
229	Microstructural rearrangement of sodium chloride condensation aerosol particles on interaction with water vapor. <i>Journal of Aerosol Science</i> , <b>2000</b> , 31, 673-685	4.3	73
228	Development of a highly sensitive monoclonal antibody based ELISA for detection of benzo[a]pyrene in potable water. <i>Analyst, The</i> , <b>2005</b> , 130, 1078-86	5	72
227	Reproducible E. coli detection based on label-free SERS and mapping. <i>Talanta</i> , <b>2016</b> , 146, 457-63	6.2	70
226	Development of a highly sensitive and specific enzyme-linked immunosorbent assay for detection of Sudan I in food samples. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 6424-30	5.7	69
225	Highly parallel affinity sensor for the detection of environmental contaminants in water. <i>Analytica Chimica Acta</i> , <b>1999</b> , 393, 29-41	6.6	68
224	Process analysis of recycled thermoplasts from consumer electronics by laser-induced plasma spectroscopy. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 4334-42	7.8	67
223	Reactivity and structure of soot generated at varying biofuel content and engine operating parameters. <i>Combustion and Flame</i> , <b>2016</b> , 163, 157-169	5.3	65
222	Target-induced displacement reaction accompanying cargo release from magnetic mesoporous silica nanocontainers for fluorescence immunoassay. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 10589-96	7.8	65
221	Multifunctional magnetic bead-based electrochemical immunoassay for the detection of aflatoxin B1 in food. <i>Analyst, The</i> , <b>2009</b> , 134, 1554-60	5	65
220	Highly sensitive and specific determination of mercury(II) ion in water, food and cosmetic samples with an ELISA based on a novel monoclonal antibody. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 403, 2519-28	4.4	63
219	Raman microspectroscopic analysis of fibers in beverages. <i>Analytical Methods</i> , <b>2016</b> , 8, 5722-5725	3.2	61
218	Flow-injection electrochemical immunosensor for the detection of human IgG based on glucose oxidase-derived biomimetic interface. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 2125-30	11.8	61
217	Sandwich immunoassays for the determination of peanut and hazelnut traces in foods. <i>Journal of Agricultural and Food Chemistry</i> , <b>2005</b> , 53, 3321-7	5.7	58

216	Competitive Upconversion-Linked Immunosorbent Assay for the Sensitive Detection of Diclofenac. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6011-7	7.8	58
215	Regenerable immuno-biochip for screening ochratoxin A in green coffee extract using an automated microarray chip reader with chemiluminescence detection. <i>Analytica Chimica Acta</i> , <b>2011</b> , 689, 234-42	6.6	57
214	Magnetic bead-based fluorescence immunoassay for aflatoxin B1 in food using biofunctionalized rhodamine B-doped silica nanoparticles. <i>Analyst, The</i> , <b>2010</b> , 135, 2661-7	5	57
213	Molecularly imprinted polymer films for reflectometric interference spectroscopic sensors. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 3267-72	11.8	56
212	Determination of Benzo[a]pyrene Diones in Air Particulate Matter with Liquid Chromatography Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 1552-1558	10.3	56
211	Magnetic bead-based colorimetric immunoassay for aflatoxin B1 using gold nanoparticles. <i>Sensors</i> , <b>2014</b> , 14, 21535-48	3.8	55
210	Simultaneous determination of four different antibiotic residues in honey by chemiluminescence multianalyte chip immunoassays. <i>Mikrochimica Acta</i> , <b>2011</b> , 173, 1-9	5.8	55
209	Interaction of soot aerosol particles with water droplets: influence of surface hydrophilicity. <i>Journal of Aerosol Science</i> , <b>2001</b> , 32, 697-711	4.3	55
208	Multiwavelength Raman microspectroscopy for rapid prediction of soot oxidation reactivity. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1173-9	7.8	53
207	Monitoring polycyclic aromatic hydrocarbon metabolites in human urine: extraction and purification with a sol-gel glass immunosorbent. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5669-76	7.8	53
206	H-Based Electrochemical Biosensor with Pd Nanowires@ZIF-67 Molecular Sieve Bilayered Sensing Interface for Immunoassay. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 12055-12062	7.8	52
205	Nitrite-triggered surface plasmon-assisted catalytic conversion of p-aminothiophenol to p,p'-dimercaptoazobenzene on gold nanoparticle: surface-enhanced Raman scattering investigation and potential for nitrite detection. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 499-506	7.8	52
204	Comparison of hybridoma screening methods for the efficient detection of high-affinity hapten-specific monoclonal antibodies. <i>Journal of Immunological Methods</i> , <b>2008</b> , 329, 184-93	2.5	52
203	Determination of sulfonylurea herbicides in water and food samples using sol-gel glass-based immunoaffinity extraction and liquid chromatography-ultraviolet/diode array detection or liquid chromatography-tandem mass spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 2003-11	5.7	52
202	The origin of the band at around 730 cm <sup>-1</sup> in the SERS spectra of bacteria: a stable isotope approach. <i>Analyst, The</i> , <b>2016</b> , 141, 2874-8	5	52
201	Phenyl-modified reversed-phase liquid chromatography coupled to atmospheric pressure chemical ionization mass spectrometry: a universal method for the analysis of partially oxidized aromatic hydrocarbons. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1634-45	7.8	51
200	Development of an open stand-alone platform for regenerable automated microarrays. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 2106-12	11.8	50
199	Surface sensitive study to determine the reactivity of soot with the focus on the European emission standards IV and VI. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 2568-80	2.8	49



198	Immunomagnetic nanoparticle-based sandwich chemiluminescence-ELISA for the enrichment and quantification of E. coli. <i>Mikrochimica Acta</i> , <b>2010</b> , 168, 1-8	5.8	49
197	Analysis of aromatic sulfonates in water by solid-phase extraction and capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>1998</b> , 822, 291-303	4.5	49
196	Enzyme immunoassays for the investigation of protein nitration by air pollutants. <i>Analyst, The</i> , <b>2003</b> , 128, 824-31	5	49
195	Determination of Polycyclic Aromatic Hydrocarbons in Contaminated Water and Soil Samples by Immunological and Chromatographic Methods. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 2035-2041	10.3	49
194	Chemiluminescence microarrays in analytical chemistry: a critical review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 5589-612	4.4	48
193	Langendorff heart: a model system to study cardiovascular effects of engineered nanoparticles. <i>ACS Nano</i> , <b>2011</b> , 5, 5345-53	16.7	48
192	Impact of Fe Content in Laboratory-Produced Soot Aerosol on its Composition, Structure, and Thermo-Chemical Properties. <i>Aerosol Science and Technology</i> , <b>2012</b> , 46, 1337-1348	3.4	48
191	Method comparison study on soot-selective techniques. <i>Mikrochimica Acta</i> , <b>1995</b> , 117, 215-237	5.8	48
190	Increased sensitivity of an enzyme immunoassay (ELISA) for the determination of triazine herbicides by variation of tracer incubation time. <i>Mikrochimica Acta</i> , <b>1992</b> , 108, 29-40	5.8	47
189	Exploring the Potential of Stable Isotope (Resonance) Raman Microspectroscopy and Surface-Enhanced Raman Scattering for the Analysis of Microorganisms at Single Cell Level. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6622-30	7.8	46
188	Bacteria Detection: From Powerful SERS to Its Advanced Compatible Techniques. <i>Advanced Science</i> , <b>2020</b> , 7, 2001739	13.6	46
187	Nanoplastic Analysis by Online Coupling of Raman Microscopy and Field-Flow Fractionation Enabled by Optical Tweezers. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 5813-5820	7.8	45
186	Strong size-dependent photoacoustic effect on gold nanoparticles by laser-induced nanobubbles. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 174104	3.4	45
185	Development of a multichannel flow-through chemiluminescence microarray chip for parallel calibration and detection of pathogenic bacteria. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 395, 1623-30	4.6	45
184	Raman microspectroscopy, surface-enhanced Raman scattering microspectroscopy, and stable-isotope Raman microspectroscopy for biofilm characterization. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 4353-4375	4.4	42
183	Surface-enhanced Raman scattering detection of bacteria on microarrays at single cell levels using silver nanoparticles. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 2259-2266	5.8	42
182	Degradation of PCDD, PCDF, PAH, PCB and chlorinated phenols during the destruction-treatment of landfill seepage water in laboratory model reactor (UV, Ozone, and UV/Ozone). <i>Chemosphere</i> , <b>1995</b> , 30, 2317-2331	8.4	42
181	Towards a receptor-free immobilization and SERS detection of urinary tract infections causative pathogens. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 3051-8	4.4	41

180	Microanalysis by laser-induced plasma spectroscopy in the vacuum ultraviolet. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 1648-56	7.8	40
179	Multidimensional biochemical detection of microcystins in liquid chromatography. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5509-17	7.8	40
178	Photoinduced C-C reactions on insulators toward photolithography of graphene nanoarchitectures. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4651-8	16.4	39
177	A flow-through microarray cell for the online SERS detection of antibody-captured E. coli bacteria. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 2663-7	4.4	39
176	Encapsulation of biomolecules for bioanalytical purposes: preparation of diclofenac antibody-doped nanometer-sized silica particles by reverse micelle and sol-gel processing. <i>Analytica Chimica Acta</i> , <b>2006</b> , 573-574, 133-7	6.6	39
175	Optimized surface-enhanced Raman scattering (SERS) colloids for the characterization of microorganisms. <i>Analytical Sciences</i> , <b>2010</b> , 26, 761-6	1.7	38
174	Raman microscopy and surface-enhanced Raman scattering (SERS) for in situ analysis of biofilms. <i>Journal of Biophotonics</i> , <b>2010</b> , 3, 548-56	3.1	38
173	Rapid analysis of diclofenac in freshwater and wastewater by a monoclonal antibody-based highly sensitive ELISA. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 8873-82	4.4	37
172	Development of a class-specific ELISA for sulfonylurea herbicides (sulfuron screen). <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 6795-802	10.3	37
171	Dip-and-read test strips for the determination of trinitrotoluene (TNT) in drinking water. <i>Analytica Chimica Acta</i> , <b>1999</b> , 396, 309-316	6.6	37
170	Development of an epoxy-based monolith used for the affinity capturing of Escherichia coli bacteria. <i>Journal of Chromatography A</i> , <b>2009</b> , 1216, 3794-801	4.5	36
169	Variation in plastic abundance at different lake beach zones - A case study. <i>Science of the Total Environment</i> , <b>2018</b> , 613-614, 530-537	10.2	35
168	Emissions during active regeneration of a diesel particulate filter on a heavy duty diesel engine: Stationary tests. <i>Journal of Aerosol Science</i> , <b>2015</b> , 90, 14-25	4.3	34
167	Automated, high performance, flow-through chemiluminescence microarray for the multiplexed detection of phycotoxins. <i>Analytica Chimica Acta</i> , <b>2013</b> , 787, 211-8	6.6	34
166	Microscopic characterization of individual particles from multicomponent ship exhaust. <i>Journal of Environmental Monitoring</i> , <b>2012</b> , 14, 3101-10		34
165	Conductivity for soot sensing: possibilities and limitations. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 3586-92	7.8	34
164	Comparison of monomeric and polymeric horseradish peroxidase as labels in competitive ELISA for small molecule detection. <i>Mikrochimica Acta</i> , <b>2013</b> , 180, 711-717	5.8	34
163	Combined optoacoustic/ultrasound system for tomographic absorption measurements: possibilities and limitations. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 1503-10	4.4	34



162	Increasing the sensitivity of asymmetrical flow field-flow fractionation: Slot outlet technique. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 6664-9	7.8	32
161	Identification and classification of airborne soot particles using an automated SEM/EDX. <i>Mikrochimica Acta</i> , <b>1994</b> , 113, 239-250	5.8	32
160	Multiplex competitive microbead-based flow cytometric immunoassay using quantum dot fluorescent labels. <i>Analytica Chimica Acta</i> , <b>2012</b> , 750, 191-8	6.6	31
159	Rapid quantification of bioaerosols containing <i>L. pneumophila</i> by Coriolis air sampler and chemiluminescence antibody microarrays. <i>Journal of Aerosol Science</i> , <b>2012</b> , 48, 46-55	4.3	31
158	A comparison of horseradish peroxidase, gold nanoparticles and quantum dots as labels in non-instrumental gel-based immunoassay. <i>Mikrochimica Acta</i> , <b>2011</b> , 175, 361-367	5.8	31
157	Reductive Transformation of Bound Trinitrophenyl Residues and Free TNT during a Bioremediation Process Analyzed by Immunoassay. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 3421-3426	10.3	31
156	Untargeted metabolomic profiling in saliva of smokers and nonsmokers by a validated GC-TOF-MS method. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 1602-13	5.6	30
155	Direct 3-D Measurement of the Flow Velocity in Porous Media Using Magnetic Resonance Tomography. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 4242-4248	10.3	30
154	Combination of micellar extraction of polycyclic aromatic hydrocarbons from aqueous media with detection by synchronous fluorescence. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1993</b> , 346, 435-440		30
153	Metabolomics using GC-TOF-MS followed by subsequent GC-FID and HILIC-MS/MS analysis revealed significantly altered fatty acid and phospholipid species profiles in plasma of smokers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2014</b> , 966, 117-26	3.2	29
152	Efficient hybridoma screening technique using capture antibody based microarrays. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2373-7	7.8	29
151	Development of a direct competitive microcystin immunoassay of broad specificity. <i>Analytical Sciences</i> , <b>2001</b> , 17, 1445-8	1.7	29
150	Photocatalytic atrazine degradation by synthetic minerals, atmospheric aerosols, and soil particles. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 5342-7	10.3	29
149	Migration of dissolved heavy metal compounds and PCP in the presence of colloids through a heterogeneous calcareous gravel and a homogeneous quartz sand-pilot scale experiments. <i>Water Research</i> , <b>2002</b> , 36, 1213-23	12.5	29
148	Hierarchical dendritic gold microstructure-based aptasensor for ultrasensitive electrochemical detection of thrombin using functionalized mesoporous silica nanospheres as signal tags. <i>Analytica Chimica Acta</i> , <b>2012</b> , 720, 1-8	6.6	28
147	Characterization of sewage plant hydrocolloids using asymmetrical flow field-flow fractionation and ICP-mass spectrometry. <i>Water Research</i> , <b>2005</b> , 39, 3541-52	12.5	28
146	Effect-directed analysis by high-performance liquid chromatography with gas-segmented enzyme inhibition. <i>Journal of Chromatography A</i> , <b>2005</b> , 1099, 103-10	4.5	28
145	Assessment of Colloid Filtration in Natural Porous Media by Filtration Theory. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 3774-3779	10.3	28

144	ELISA Determination of the Sulfonylurea Herbicide Metsulfuron-Methyl in Different Water Types. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 358-361	10.3	28
143	Surface-enhanced Raman spectroscopy of microorganisms: limitations and applicability on the single-cell level. <i>Analyst, The</i> , <b>2019</b> , 144, 943-953	5	28
142	Photoacoustic Signal Generation in Gold Nanospheres in Aqueous Solution: Signal Generation Enhancement and Particle Diameter Effects. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 27646-27656	3.8	27
141	Internally mixed multicomponent soot: Impact of different salts on soot structure and thermo-chemical properties. <i>Journal of Aerosol Science</i> , <b>2014</b> , 70, 26-35	4.3	27
140	Nitro-PAH formation studied by interacting artificially PAH-coated soot aerosol with NO <sub>2</sub> in the temperature range of 295-323 K. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 3878-3885	5.3	27
139	Novel aflatoxin derivatives and protein conjugates. <i>Molecules</i> , <b>2007</b> , 12, 641-53	4.8	27
138	Whole-cell luminescence-based flow-through biodetector for toxicity testing. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 1181-7	4.4	27
137	Gold Nanoparticles Assembly on Silicon and Gold Surfaces: Mechanism, Stability, and Efficiency in Diclofenac Biosensing. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 29302-29311	3.8	27
136	Detection of the carcinogenic water pollutant benzo[a]pyrene with an electro-switchable biosurface. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4538-45	7.8	26
135	Long amplicon (LA)-qPCR for the discrimination of infectious and noninfectious phix174 bacteriophages after UV inactivation. <i>Water Research</i> , <b>2016</b> , 103, 141-148	12.5	26
134	Sol-gel glass immunosorbent-based determination of s-triazines in water and soil samples using gas chromatography with a nitrogen phosphorus detection system. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 3372-7	10.3	26
133	Microfluidic-Based Synthesis of Magnetic Nanoparticles Coupled with Miniaturized NMR for Online Relaxation Studies. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 9975-9982	7.8	25
132	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 &amp; Technology</i> , <b>2012</b> , 46, 10073-80	10.3	25
131	Ultrasensitive and Simultaneous SERS Detection of Multiplex MicroRNA Using Fractal Gold Nanotags for Early Diagnosis and Prognosis of Hepatocellular Carcinoma. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 8799-8809	7.8	25
130	The many faces of soot: characterization of soot nanoparticles produced by engines. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12366-79	16.4	24
129	Catalytic Effect of Potassium Compounds in Soot Oxidation. <i>ChemCatChem</i> , <b>2017</b> , 9, 3513-3525	5.2	23
128	Computer assisted detection and quantification of single adsorbing nanoparticles by differential surface plasmon microscopy. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 101-109	5.8	23
127	Controlled growth of immunogold for amplified optical detection of aflatoxin B1. <i>Analyst, The</i> , <b>2015</b> , 140, 1453-8	5	23

126	Analysis of benzo[a]pyrene in vegetable oils using molecularly imprinted solid phase extraction (MISPE) coupled with enzyme-linked immunosorbent assay (ELISA). <i>Sensors</i> , <b>2014</b> , 14, 9720-37	3.8	23
125	Quantification of E. coli DNA on a flow-through chemiluminescence microarray readout system after PCR amplification. <i>Analytical Sciences</i> , <b>2009</b> , 25, 669-74	1.7	23
124	Spatial and temporal observations of adsorption and remobilization of heavy metal ions in a sandy aquifer matrix using Magnetic Resonance Imaging. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 3972-7	10.3	23
123	The photoelectric aerosol sensor as a fast-responding and sensitive detection system for cigarette smoke analysis. <i>Fresenius Zeitschrift für Analytische Chemie</i> , <b>1989</b> , 333, 129-133		23
122	Rapid quantification method for Legionella pneumophila in surface water. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 2203-13	4.4	23
121	Identification and characterization of individual airborne volcanic ash particles by Raman microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 9071-84	4.4	22
120	Stopped-flow microarray immunoassay for detection of viable E. coli by use of chemiluminescence flow-through microarrays. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 399, 1041-50	4.4	22
119	Determination of primary, secondary, and tertiary amines in air by direct or diffusion sampling followed by determination with liquid chromatography and tandem mass spectrometry. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 5217-22	10.3	22
118	Oxygen determination in oxygen-supersaturated drinking waters by NMR relaxometry. <i>Water Research</i> , <b>2003</b> , 37, 3361-6	12.5	22
117	Immunochemical test to monitor human exposure to polycyclic aromatic hydrocarbons: urine as sample source. <i>Analytica Chimica Acta</i> , <b>1999</b> , 399, 115-126	6.6	22
116	High performance concentration method for viruses in drinking water. <i>Journal of Virological Methods</i> , <b>2015</b> , 222, 132-7	2.6	21
115	Detecting diclofenac in livestock carcasses in India with an ELISA: a tool to prevent widespread vulture poisoning. <i>Environmental Pollution</i> , <b>2012</b> , 160, 11-6	9.3	21
114	Screening and characterization of new monoclonal anti-benzo[a]pyrene antibodies using automated flow-through microarray technology. <i>Journal of Immunological Methods</i> , <b>2011</b> , 371, 81-90	2.5	21
113	Photophoretic velocimetry for colloid characterization and separation in a cross-flow setup. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 7097-103	7.8	21
112	Implementation of an open source algorithm for particle recognition and morphological characterisation for microplastic analysis by means of Raman microspectroscopy. <i>Analytical Methods</i> , <b>2019</b> , 11, 3483-3489	3.2	20
111	Cross-flow microfiltration system for rapid enrichment of bacteria in water. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 393, 399-404	4.4	20
110	Gel-based immunoassay for non-instrumental detection of pyrene in water samples. <i>Talanta</i> , <b>2008</b> , 75, 517-22	6.2	20
109	Raman microspectroscopic identification of microplastic particles in freshwater bivalves ( <i>Unio pictorum</i> ) exposed to sewage treatment plant effluents under different exposure scenarios. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 2007-2012	5.1	20

108	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> , <b>2018</b> , 100, 49-55	11.8	19
107	Hydrochemistry and hydrogen sulfide generating processes in the Malm aquifer, Bavarian Molasse Basin, Germany. <i>Hydrogeology Journal</i> , <b>2014</b> , 22, 151-162	3.1	19
106	Effects of fractions of traffic particulate matter on TH2-cytokines, IgE levels, and bronchial hyperresponsiveness in mice. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2002</b> , 65, 1025-45	3.2	19
105	Rapid field screening test for determination of 2,4,6-trinitrotoluene in water and soil with immunofiltration. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1994</b> , 350, 538-543		19
104	Detection of particulate polycyclic aromatic hydrocarbons by laser-induced time-resolved fluorescence. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1991</b> , 341, 207-213		19
103	Gold nanoparticle-catalyzed uranine reduction for signal amplification in fluorescent assays for melamine and aflatoxin B1. <i>Analyst, The</i> , <b>2015</b> , 140, 7305-12	5	18
102	Bioaerosol analysis based on a label-free microarray readout method using surface-enhanced Raman scattering. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 5387-92	4.4	18
101	Investigation of coatings of natural organic matter on silver nanoparticles under environmentally relevant conditions by surface-enhanced Raman scattering. <i>Science of the Total Environment</i> , <b>2015</b> , 535, 122-30	10.2	18
100	Surface-enhanced Raman scattering for quantitative detection of ethyl carbamate in alcoholic beverages. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 9419-25	4.4	18
99	Novel intramolecular energy transfer probe for the detection of benzo[a]pyrene metabolites in a homogeneous competitive fluorescence immunoassay. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 1666-73	3.4	18
98	Action and distribution of organic solvent contaminations in hydrating cement: time-resolved insights into solidification of organic waste. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 4953-6	10.3	18
97	Determination of nitric acid and ammonium nitrate by means of a computer-controlled thermodenuder system. <i>Atmospheric Environment</i> , <b>1989</b> , 23, 1131-1138		18
96	Detection of known allergen-specific IgE antibodies by immunological methods. <i>Methods in Molecular Biology</i> , <b>2009</b> , 509, 107-22	1.4	17
95	Strong size-dependent photoacoustic effect on gold nanoparticles: a sensitive tool for aggregation-based colorimetric protein detection. <i>Analytical Methods</i> , <b>2012</b> , 4, 309-311	3.2	16
94	A glyco-chip for the detection of ricin by an automated chemiluminescence read-out system. <i>Analytical Sciences</i> , <b>2013</b> , 29, 461-6	1.7	16
93	Colloid dispersion on the pore scale. <i>Water Research</i> , <b>2010</b> , 44, 1246-54	12.5	16
92	Optical absorbance measurements of opaque liquids by pulsed laser photoacoustic spectroscopy. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2403-9	7.8	16
91	Development of a Fluorescence Polarization Immunoassay for Polycyclic Aromatic Hydrocarbons. <i>Analytical Letters</i> , <b>2007</b> , 40, 1445-1460	2.2	16

90	Photoacoustic analyzer for the artifact-free parallel detection of soot and NO <sub>2</sub> in engine exhaust. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 7292-6	7.8	15
89	A novel strategy for ultra-sensitive electrochemical immunoassay of biomarkers by coupling multifunctional iridium oxide (IrO(x)) nanospheres with catalytic recycling of self-produced reactants. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 2041-51	4.4	15
88	MRI observation of heavy metal transport in aquifer matrices down to sub-mg quantities. <i>Magnetic Resonance Imaging</i> , <b>2003</b> , 21, 345-9	3.3	15
87	Layer-by-layer generation of PEG-based regenerable immunosensing surfaces for small-sized analytes. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 67, 334-41	11.8	14
86	New route for fast detection of antibodies against zoonotic pathogens in sera of slaughtered pigs by means of flow-through chemiluminescence immunochips. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5279-85	7.8	14
85	New immunochemically-based field test for monitoring benzo[a]pyrene in aqueous samples. <i>Analytical Sciences</i> , <b>2008</b> , 24, 1613-7	1.7	14
84	Micromodel study on repartitioning phenomena of a strongly hydrophobic fluorophore at a colloid/1-octanol interface. <i>Water Resources Research</i> , <b>2006</b> , 42,	5.4	14
83	Cloud point extraction of napropamide and thiabendazole from water and soil. <i>Mikrochimica Acta</i> , <b>1994</b> , 113, 1-8	5.8	14
82	A fully validated GC-TOF-MS method for the quantification of fatty acids revealed alterations in the metabolic profile of fatty acids after smoking cessation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2017</b> , 1041-1042, 141-150	3.2	13
81	Flow-based regenerable chemiluminescence receptor assay for the detection of tetracyclines. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 3467-3476	4.4	13
80	Genetically Controlled Lysosomal Entrapment of Superparamagnetic Ferritin for Multimodal and Multiscale Imaging and Actuation with Low Tissue Attenuation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706793	15.6	13
79	Cloning and plant-based production of antibody MC10E7 for a lateral flow immunoassay to detect [4-arginine]microcystin in freshwater. <i>Plant Biotechnology Journal</i> , <b>2018</b> , 16, 27-38	11.6	13
78	Oligonucleotide microarray chip for the quantification of MS2, $\Phi$ 174, and adenoviruses on the multiplex analysis platform MCR 3. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 3323-34	4.4	13
77	Photophoretic velocimetry for the characterization of aerosols. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 1546-51	7.8	13
76	Analysis of large oxygenated and nitrated polycyclic aromatic hydrocarbons formed under simulated diesel engine exhaust conditions (by compound fingerprints with SPE/LC-API-MS). <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 391, 2599-608	4.4	13
75	Photoacoustic Spectroscopy for the Quantification of NO in the Off-Gas of Wastewater Treatment Plants. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3795-3801	7.8	12
74	TUM-ParticleTyper: A detection and quantification tool for automated analysis of (Microplastic) particles and fibers. <i>PLoS ONE</i> , <b>2020</b> , 15, e0234766	3.7	12
73	Application of a heterogeneous immunoassay for the quality control testing of release-active forms of diclofenac. <i>International Immunopharmacology</i> , <b>2014</b> , 21, 225-30	5.8	12

72	Development of single-chain variable fragment (scFv) antibodies against hapten benzo[a]pyrene: a binding study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 499-507	4.4	12
71	Metabolomic Fingerprinting in Various Body Fluids of a Diet-Controlled Clinical Smoking Cessation Study Using a Validated GC-TOF-MS Metabolomics Platform. <i>Journal of Proteome Research</i> , <b>2017</b> , 16, 3491-3503	5.6	12
70	Polyoxometalate nanostructured gold surfaces for sensitive biosensing of benzo[a]pyrene. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 209, 770-774	8.5	12
69	Impact of a NO <sub>x</sub> -regenerated diesel particulate filter on PAH and NPAH emissions from an EURO IV heavy duty engine. <i>Journal of Environmental Monitoring</i> , <b>2011</b> , 13, 3373-9		12
68	Preparation of epoxy-based macroporous monolithic columns for the fast and efficient immunofiltration of <i>Staphylococcus aureus</i> . <i>Journal of Separation Science</i> , <b>2011</b> , 34, 2181-92	3.4	12
67	Double-codified nanogold particles based automated flow-through CLEIA for 2,4-dinitrotoluene. <i>Analytical Methods</i> , <b>2010</b> , 2, 824	3.2	12
66	Microplate-based screening methods for the efficient development of sandwich immunoassays. <i>Analyst, The</i> , <b>2005</b> , 130, 1580-8	5	12
65	Analysis of Urinary Eicosanoids by LC-MS/MS Reveals Alterations in the Metabolic Profile after Smoking Cessation. <i>Chemical Research in Toxicology</i> , <b>2018</b> , 31, 176-182	4	11
64	New approach to quantitative analysis of benzo[a]pyrene in food supplements by an immunochemical column test. <i>Talanta</i> , <b>2011</b> , 85, 151-6	6.2	11
63	Lead ion detection in turbid media by pulsed photoacoustic spectrometry based on dissolution of gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 150, 770-773	8.5	11
62	Mikroplastik in aquatischen Ökosystemen. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 1744-1764	3.6	10
61	Immunization with soot from a non-combustion process provokes formation of antibodies against polycyclic aromatic hydrocarbons. <i>Journal of Immunological Methods</i> , <b>2006</b> , 310, 159-70	2.5	10
60	High Throughput Determination of BTEX by a One-Step Fluorescence Polarization Immunoassay. <i>Environmental Chemistry</i> , <b>2005</b> , 2, 227	3.2	10
59	Biomarkers of Exposure Specific to E-vapor Products Based on Stable-Isotope Labeled Ingredients. <i>Nicotine and Tobacco Research</i> , <b>2019</b> , 21, 314-322	4.9	10
58	Stable-isotope Raman microspectroscopy for the analysis of soil organic matter. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 923-931	4.4	9
57	Development of antibodies for the detection of N-acetyl-glufosinate. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 6668-75	5.7	9
56	Stabilization of horseradish peroxidase (HRP) for use in immunochemical sensors <b>1997</b> ,		8
55	Determination of 1-nitropyrene with enzyme-linked immunosorbent assay versus high-performance column switching technique. <i>Journal of Chromatography A</i> , <b>1998</b> , 807, 209-17	4.5	8



54	Tight Molecular Recognition of Benzo[a]pyrene by a High-Affinity Antibody. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 10592-10597	16.4	7
53	Extreme differences in oxidation states: synthesis and structural analysis of the germanide oxometallates $A_{10}[\text{Ge}_9]_2[\text{WO}_4]$ as well as $A(10+x)[\text{Ge}_9]_2[\text{W}(1-x)\text{Nb}(x)\text{O}_4]$ with $A = \text{K}$ and $\text{Rb}$ containing $[\text{Ge}_9]^{4-}$ polyanions. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4058-65	5.1	7
52	Depth-Resolved Determination of the Absorption Coefficient by Photoacoustic Spectroscopy within a Hydrogel. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 4663-4668	7.8	7
51	Chemical characterization of aerosols. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1990</b> , 337, 565-576		7
50	Heterogeneous asymmetric recombinase polymerase amplification (haRPA) for rapid hygiene control of large-volume water samples. <i>Analytical Biochemistry</i> , <b>2018</b> , 546, 58-64	3.1	6
49	Validation Procedure for Multiplex Antibiotic Immunoassays Using Flow-Based Chemiluminescence Microarrays. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1518, 195-212	1.4	6
48	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> , <b>2012</b> , 403, 2529-40	4.4	6
47	Chemiluminescent ELISA for the BTEX determination in water and soil. <i>Analytical Sciences</i> , <b>2010</b> , 26, 773-777		6
46	Quantitative determination of phosgene doses by reflectometric badge readout. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 2285-8	4.4	6
45	Microcystin-LR Enrichment from Freshwater by a Recombinant Plant-derived Antibody Using Sol-Gel-Glass Immunoextraction. <i>Analytical Sciences</i> , <b>2019</b> , 35, 207-214	1.7	6
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> , <b>2017</b> , 575, 1197-1202	10.2	5
43	Affinity patterns of enzyme tracers for triazine immunoassays <b>1997</b> ,		5
42	The Photoelectric Aerosol Sensor (PAS) as a Fast-Responding Detection System for PAHs in Cigarette Smoke. <i>Polycyclic Aromatic Compounds</i> , <b>1991</b> , 2, 49-61	1.3	5
41	Possibilities and limitations of the photoelectric aerosol sensor array applied to heavy metal aerosols. <i>Fresenius Zeitschrift für Analytische Chemie</i> , <b>1989</b> , 335, 728-737		5
40	Nanoparticles Acting as Condensation Nuclei in Water Droplet Formation and Incorporation <b>2010</b> , 13-21		5
39	Microarray-Based Immunoassay for Parallel Quantification of Multiple Mycotoxins in Oat. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1536, 143-156	1.4	4
38	Regeneration of recombinant antigen microarrays for the automated monitoring of antibodies against zoonotic pathogens in swine sera. <i>Sensors</i> , <b>2015</b> , 15, 2614-28	3.8	4
37	Probing the physicochemical interactions of 3-hydroxy-benzo[a]pyrene with different monoclonal and recombinant antibodies by use of fluorescence line-narrowing spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 3387-94	4.4	4

36	Photophoretic velocimetry--a new way for the in situ determination of particle size distribution and refractive index of hydrocolloids. <i>Analyst, The</i> , <b>2011</b> , 136, 1987-94	5	4
35	Photoacoustic Monitoring of CO <sub>2</sub> in Biogas Matrix using a Quantum Cascade Laser <b>2006</b> ,		4
34	MRI observation of oxygen-supersaturated water transport in a geological matrix. <i>Magnetic Resonance Imaging</i> , <b>2003</b> , 21, 411-2	3.3	4
33	HELIOS/SICRIT/mass spectrometry for analysis of aerosols in engine exhaust. <i>Aerosol Science and Technology</i> , 1-16	3.4	4
32	On-line determination of soot oxidation reactivity. <i>Journal of Aerosol Science</i> , <b>2019</b> , 132, 12-21	4.3	3
31	A comparison of diesel soot oxidation rates measured with two different isothermal set-ups. <i>Journal of Aerosol Science</i> , <b>2016</b> , 91, 94-100	4.3	3
30	Die vielen Gesichter von Ruß Charakterisierung verbrennungsmotorischer Ruß Nanopartikel. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 12570-12585	3.6	3
29	Krankheitserreger im Wasser anreichern und nachweisen. <i>Nachrichten Aus Der Chemie</i> , <b>2012</b> , 60, 1208-1212		3
28	New Strategies for Soot Emission Reduction of HD Vehicles <b>2004</b> ,		3
27	Biomonitors based on immunological principles. <i>Waste Management Series</i> , <b>2004</b> , 4, 505-537		3
26	Succinylated Jeffamine ED-2003 coated polycarbonate chips for low-cost analytical microarrays. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 1943-1955	4.4	3
25	Enge molekulare Erkennung von Benzo[a]pyren durch einen hochaffinen Antikörper. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10728-10733	3.6	2
24	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> , <b>2019</b> , 411, 4951-4961	4.4	2
23	First practical experiences with the optoacoustic/ultrasound system OPUS <b>2008</b> ,		2
22	Chapter 1 Sampling Techniques For Air Pollutants. <i>Techniques and Instrumentation in Analytical Chemistry</i> , <b>1993</b> , 3-22		2
21	Critical evaluation of a screening test for detection of herbicides by inhibiting photosynthesis of isolated chloroplasts. <i>Mikrochimica Acta</i> , <b>1993</b> , 110, 23-30	5.8	2
20	A fluorimetric method for the determination of chlorine and tetrachloroethene by bleaching of rhodamine B. <i>Talanta</i> , <b>1989</b> , 36, 1161-4	6.2	2
19	Fiber Optical Sensor System Using A Tunable Laser For Detection Of PAHs On Particles And In Water <b>1990</b> , 1172, 145		2

18	Assessment of the potential vaping-related exposure to carbonyls and epoxides using stable isotope-labeled precursors in the e-liquid. <i>Archives of Toxicology</i> , <b>2021</b> , 95, 2667-2676	5.8	2
17	Quantitative detection of human adenovirus from river water by monolithic adsorption filtration and quantitative PCR. <i>Journal of Virological Methods</i> , <b>2021</b> , 292, 114128	2.6	2
16	Laser-induced breakdown detection of temperature-ramp generated aggregates of therapeutic monoclonal antibody. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2015</b> , 94, 463-7	5.7	1
15	NO(2) measurement artifacts in the presence of soot. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 447-53	4.4	1
14	Quantitative analysis with the optoacoustic/ultrasound system OPUS <b>2009</b> ,		1
13	Characterization of cells and bacteria by photophoretic velocimetry <b>2008</b> ,		1
12	19.O.01 In-situ and on-line analytical chemistry of aerosols. <i>Journal of Aerosol Science</i> , <b>1994</b> , 25, 289-291	4.3	1
11	Investigations on the surface properties of ultrafine aerosols by means of a multistep condensation nuclei counter. <i>Fresenius Zeitschrift für Analytische Chemie</i> , <b>1989</b> , 333, 437-438		1
10	Nondestructive Chemical Analysis of the Iron-Containing Protein Ferritin Using Raman Microspectroscopy. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 193-203	3.1	1
9	Laboratory and field studies on a new sensor for dissolved NO. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 4719-4727	4.4	0
8	Analytical Chemistry: Current Trends in Light of the Historic Beginnings. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14328-14336	16.4	0
7	High-capacity NO <sub>2</sub> denuder systems operated at various temperatures (298-473 K). <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 2901-7	4.4	0
6	Analytische Chemie Aktuelle Trends im Vergleich zu den historischen Anfängen. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 14524-14533	3.6	
5	Analytische Chemie 2008/2009. <i>Nachrichten Aus Der Chemie</i> , <b>2010</b> , 58, 223-235	0.1	
4	A new optical fiber multiplexer for distortion-free light transfer in multichannel fiber optic sensor systems. <i>Sensors and Actuators A: Physical</i> , <b>2000</b> , 84, 250-258	3.9	
3	Enzyme and Immunoassays 147-172		
2	The photoelectric aerosol sensor array as a tool for on line and in situ analysis of heavy metal aerosols. <i>Sensors and Actuators B: Chemical</i> , <b>1990</b> , 1, 261-266	8.5	
1	Enzyme and Immunoassays 1-36		

