

# Antje Baeumner

## List of Publications by Year in descending order

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Version: 2024-02-01

146  
papers

7,149  
citations

50276

46  
h-index

62596

80  
g-index

150  
all docs

150  
docs citations

150  
times ranked

8468  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Functional Nanomaterials and Nanostructures Enhancing Electrochemical Biosensors and Lab-on-a-Chip Performances: Recent Progress, Applications, and Future Perspective. <i>Chemical Reviews</i> , 2019, 119, 120-194. | 47.7 | 436       |
| 2  | Miniaturized isothermal nucleic acid amplification, a review. <i>Lab on A Chip</i> , 2011, 11, 1420.  | 6.0  | 359       |
| 3  | A MXene-Based Wearable Biosensor System for High-Performance In Vitro Perspiration Analysis. <i>Small</i> , 2019, 15, e1901190.   | 10.0 | 280       |
| 4  | Biosensors for environmental pollutants and food contaminants. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 434-445.  | 3.7  | 212       |
| 5  | A Megatrend Challenging Analytical Chemistry: Biosensor and Chemosensor Concepts Ready for the Internet of Things. <i>Chemical Reviews</i> , 2019, 119, 7996-8027.  | 47.7 | 197       |
| 6  | RNA biosensor for the rapid detection of viable <i>Escherichia coli</i> in drinking water. <i>Biosensors and Bioelectronics</i> , 2003, 18, 405-413.  | 10.1 | 178       |
| 7  | Electrospun polylactic acid nanofiber membranes as substrates for biosensor assemblies. <i>Journal of Membrane Science</i> , 2006, 279, 354-363.  | 8.2  | 166       |
| 8  | Particle-Size-Dependent Förster Resonance Energy Transfer from Upconversion Nanoparticles to Organic Dyes. <i>Analytical Chemistry</i> , 2017, 89, 4868-4874.   | 6.5  | 161       |
| 9  | Development of a microfluidic biosensor module for pathogen detection. <i>Lab on A Chip</i> , 2005, 5, 805.   | 6.0  | 154       |
| 10 | Laser-Scribed Graphene Electrodes for Aptamer-Based Biosensing. <i>ACS Sensors</i> , 2017, 2, 616-620.  | 7.8  | 153       |
| 11 | Analysis of liposomes. <i>Talanta</i> , 2006, 68, 1432-1441.  | 5.5  | 139       |
| 12 | Liposomes in analyses. <i>Talanta</i> , 2006, 68, 1421-1431.  | 5.5  | 131       |
| 13 | Trends and opportunities in food pathogen detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 451-4.  | 3.7  | 126       |
| 14 | Biosensors to support sustainable agriculture and food safety. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115906.  | 11.4 | 122       |
| 15 | Biosensor for Dengue Virus Detection: A Sensitive, Rapid, and Serotype Specific. <i>Analytical Chemistry</i> , 2002, 74, 1442-1448.   | 6.5  | 118       |
| 16 | Electrochemical microfluidic biosensor for the detection of nucleic acid sequences. <i>Lab on A Chip</i> , 2006, 6, 414.  | 6.0  | 115       |
| 17 | Electrochemical microfluidic biosensor for nucleic acid detection with integrated minipotentiostat. <i>Biosensors and Bioelectronics</i> , 2006, 21, 2217-2223.   | 10.1 | 112       |
| 18 | Electrochemiluminescence Bioassays with a Water-Soluble Luminol Derivative Can Outperform Fluorescence Assays. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 408-411.                                  | 13.8 | 109       |

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|----|---|------|-----------|
| 19 | Microfluidic Biosensor for the Serotype-Specific Detection of Dengue Virus RNA. <i>Analytical Chemistry</i> , 2005, 77, 7520-7527.  | 6.5  | 105       |
| 20 | Ganglioside-Liposome Immunoassay for the Ultrasensitive Detection of Cholera Toxin. <i>Analytical Chemistry</i> , 2003, 75, 2256-2261.  | 6.5  | 103       |
| 21 | A Universal Nucleic Acid Sequence Biosensor with Nanomolar Detection Limits. <i>Analytical Chemistry</i> , 2004, 76, 888-894.   | 6.5  | 101       |
| 22 | Recent progress in the design of nanofiber-based biosensing devices. <i>Lab on A Chip</i> , 2012, 12, 2612.   | 6.0  | 99        |
| 23 | Nanomaterials as versatile tools for signal amplification in (bio)analytical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 306-316.  | 11.4 | 97        |
| 24 | Characterization and Optimization of Interdigitated Ultramicroelectrode Arrays as Electrochemical Biosensor Transducers. <i>Electroanalysis</i> , 2004, 16, 724-729.                                  | 2.9  | 96        |
| 25 | Highly Sensitive and Specific Detection of Viable <i>Escherichia coli</i> in Drinking Water. <i>Analytical Biochemistry</i> , 2002, 303, 186-193.   | 2.4  | 92        |
| 26 | <i>Bacillus anthracis</i> : toxicology, epidemiology and current rapid-detection methods. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 73-84.   | 3.7  | 89        |
| 27 | A review of electrochemiluminescence (ECL) in and for microfluidic analytical devices. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3911-3926.  | 3.7  | 87        |
| 28 | A microfluidic biosensor based on nucleic acid sequence recognition. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 1062-1068.  | 3.7  | 83        |
| 29 | PMMA biosensor for nucleic acids with integrated mixer and electrochemical detection. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2428-2433.   | 10.1 | 83        |
| 30 | Detection of Viable Oocysts of <i>Cryptosporidium parvum</i> Following Nucleic Acid Sequence Based Amplification. <i>Analytical Chemistry</i> , 2001, 73, 1176-1180.                                  | 6.5  | 82        |
| 31 | Biosensors for the detection of waterborne pathogens. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 117-127.   | 3.7  | 81        |
| 32 | Laser-induced graphene interdigitated electrodes for label-free or nanolabel-enhanced highly sensitive capacitive aptamer-based biosensors. <i>Biosensors and Bioelectronics</i> , 2020, 164, 112272. | 10.1 | 70        |
| 33 | Multi-analyte single-membrane biosensor for the serotype-specific detection of Dengue virus. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 46-53.  | 3.7  | 68        |
| 34 | Microfluidic Isolation of Nucleic Acids. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13988-14001.  | 13.8 | 68        |
| 35 | Optimization of DNA-tagged dye-encapsulating liposomes for lateral-flow assays based on sandwich hybridization. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 1335-1343.                 | 3.7  | 64        |
| 36 | Rapid and sensitive inhibition-based assay for the electrochemical detection of Ochratoxin A and Aflatoxin M1 in red wine and milk. <i>Electrochimica Acta</i> , 2017, 243, 82-89.                    | 5.2  | 64        |

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|----|--|------|-----------|
| 37 | Biosensor for the specific detection of a single viable B. Anthracis spore. Analytical and Bioanalytical Chemistry, 2003, 376, 319-327.  | 3.7  | 63        |
| 38 | A generic sandwich-type biosensor with nanomolar detection limits. Analytical and Bioanalytical Chemistry, 2004, 378, 1587-1593.   | 3.7  | 60        |
| 39 | Detection of Cryptosporidium parvum Using Oligonucleotide-Tagged Liposomes in a Competitive Assay Format. Analytical Chemistry, 2001, 73, 3162-3167.                             | 6.5  | 59        |
| 40 | Micro-total analysis system for virus detection: microfluidic pre-concentration coupled to liposome-based detection. Analytical and Bioanalytical Chemistry, 2012, 402, 315-323. | 3.7  | 59        |
| 41 | Aptamer lateral flow assays for rapid and sensitive detection of cholera toxin. Analyst, The, 2019, 144, 1840-1849.  | 3.5  | 57        |
| 42 | On-chip spectrophotometry for bioanalysis using microring resonators. Biomedical Optics Express, 2011, 2, 271.   | 2.9  | 55        |
| 43 | Thiamine Assays – Advances, Challenges, and Caveats. ChemistryOpen, 2017, 6, 178-191.  | 1.9  | 55        |
| 44 | Human pathogenic Cryptosporidium species bioanalytical detection method with single oocyst detection capability. Analytical and Bioanalytical Chemistry, 2008, 391, 487-495.     | 3.7  | 53        |
| 45 | Aptamer sandwich assays: human $\alpha$ -thrombin detection using liposome enhancement. Analytical and Bioanalytical Chemistry, 2010, 398, 2645-2654.                            | 3.7  | 52        |
| 46 | A rapid biosensor for viable B. anthracis spores. Analytical and Bioanalytical Chemistry, 2004, 380, 15-23.  | 3.7  | 50        |
| 47 | Combining Electrochemical Sensors with Miniaturized Sample Preparation for Rapid Detection in Clinical Samples. Sensors, 2015, 15, 547-564.                                      | 3.8  | 47        |
| 48 | Application of Ganglioside-Sensitized Liposomes in a Flow Injection Immunoanalytical System for the Determination of Cholera Toxin. Analytical Chemistry, 2007, 79, 246-250.     | 6.5  | 45        |
| 49 | Nanocontainers for Analytical Applications. Angewandte Chemie - International Edition, 2019, 58, 12840-12860.  | 13.8 | 45        |
| 50 | Development of a laser-induced cell lysis system. Analytical and Bioanalytical Chemistry, 2002, 374, 421-426.  | 3.7  | 42        |
| 51 | Cholera toxin subunit B detection in microfluidic devices. Analytical and Bioanalytical Chemistry, 2009, 393, 177-186.   | 3.7  | 42        |
| 52 | Isolation and Amplification of mRNA within a Simple Microfluidic Lab on a Chip. Analytical Chemistry, 2014, 86, 849-856.   | 6.5  | 42        |
| 53 | Universal liposomes: preparation and usage for the detection of mRNA. Analytical and Bioanalytical Chemistry, 2008, 391, 1689-1702.  | 3.7  | 40        |
| 54 | Developing new materials for paper-based diagnostics using electrospun nanofibers. Analytical and Bioanalytical Chemistry, 2014, 406, 3297-3304.                                 | 3.7  | 40        |

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|----|--|------|-----------|
| 55 | Multi-channel PMMA microfluidic biosensor with integrated IDUAs for electrochemical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5965-5974.                                 | 3.7  | 39        |
| 56 | Optimization of DNA-tagged liposomes for use in microtiter plate analyses. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 1613-1623.   | 3.7  | 38        |
| 57 | Process-property correlations in laser-induced graphene electrodes for electrochemical sensing. <i>Mikrochimica Acta</i> , 2021, 188, 159.   | 5.0  | 38        |
| 58 | Electrochemical multi-analyte point-of-care perspiration sensors using on-chip three-dimensional graphene electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 763-777.            | 3.7  | 37        |
| 59 | Miniaturized bioanalytical systems: enhanced performance through liposomes. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 444-452.  | 6.1  | 36        |
| 60 | DNA <sup>â</sup> Oligonucleotide Encapsulating Liposomes as a Secondary Signal Amplification Means. <i>Analytical Chemistry</i> , 2007, 79, 1806-1815.   | 6.5  | 35        |
| 61 | An embedded system for portable electrochemical detection. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 336-343.  | 7.8  | 35        |
| 62 | Availability of biotin incorporated in electrospun PLA fibers for streptavidin binding. <i>Polymer</i> , 2007, 48, 6340-6347.  | 3.8  | 34        |
| 63 | A photonic crystal based sensing scheme for acetylcholine and acetylcholinesterase inhibitors. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2089-2095.   | 5.8  | 34        |
| 64 | Functional electrospun nanofibers for multimodal sensitive detection of biogenic amines in food via a simple dipstick assay. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1111-1121.   | 3.7  | 34        |
| 65 | Capture and Culturing of Living Cells on Microstructured DNA Substrates. <i>Small</i> , 2010, 6, 2162-2168.  | 10.0 | 33        |
| 66 | Sequential Injection Analysis System for the Sandwich Hybridization-Based Detection of Nucleic Acids. <i>Analytical Chemistry</i> , 2006, 78, 1958-1966.   | 6.5  | 32        |
| 67 | A biosensor assay for the detection of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in fecal samples. <i>Journal of Veterinary Science</i> , 2009, 10, 35.                              | 1.3  | 30        |
| 68 | Design and fabrication of a microfluidic device for near-single cell mRNA isolation using a copper hot embossing master. <i>Microsystem Technologies</i> , 2009, 15, 477-483.                        | 2.0  | 28        |
| 69 | Electrospun nanofibers for microfluidic analytical systems. <i>Polymer</i> , 2011, 52, 3413-3421.  | 3.8  | 27        |
| 70 | Functionalized electrospun poly(vinyl alcohol) nanofibers for on-chip concentration of <i>E. coli</i> cells. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1327-1334.                   | 3.7  | 27        |
| 71 | Food Safety Analysis Enabled through Biological and Synthetic Materials: A Critical Review of Current Trends. <i>Analytical Chemistry</i> , 2019, 91, 569-587.                                       | 6.5  | 27        |
| 72 | A novel extraction method for peanut allergenic proteins in chocolate and their detection by a liposome-based lateral flow assay. <i>European Food Research and Technology</i> , 2005, 221, 564-569. | 3.3  | 26        |

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|----|---|------|-----------|
| 73 | Protein G-liposomal nanovesicles as universal reagents for immunoassays. <i>Talanta</i> , 2005, 67, 205-211.  | 5.5  | 26        |
| 74 | PAMAM dendrimers: A multifunctional nanomaterial for ECL biosensors. <i>Talanta</i> , 2017, 168, 126-129.   | 5.5  | 26        |
| 75 | Photosensitizer functionalised luminescent upconverting nanoparticles for efficient photodynamic therapy of breast cancer cells. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 98-109.              | 2.9  | 26        |
| 76 | A Family Affair: Addressing the Challenges of Factor H and the Related Proteins. <i>Frontiers in Immunology</i> , 2021, 12, 660194.   | 4.8  | 26        |
| 77 | Aptamer sandwich assays: label-free and fluorescence investigations of heterogeneous binding events. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2635-2644.  | 3.7  | 25        |
| 78 | Recirculating, passive micromixer with a novel sawtooth structure. <i>Lab on A Chip</i> , 2006, 6, 242-246.   | 6.0  | 24        |
| 79 | Functionalized electrospun nanofibers as bioseparators in microfluidic systems. <i>Lab on A Chip</i> , 2012, 12, 1696.  | 6.0  | 24        |
| 80 | Laser-scribed graphene (LSC) as new electrode material for impedance-based cellular assays. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128443.   | 7.8  | 23        |
| 81 | Biologically Inspired Nanofibers for Use in Translational Bioanalytical Systems. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 23-42.   | 5.4  | 22        |
| 82 | Liposomes with High Refractive Index Encapsulants as Tunable Signal Amplification Tools in Surface Plasmon Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 11157-11163.                             | 6.5  | 22        |
| 83 | Microfluidic biosensor for cholera toxin detection in fecal samples. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 727-736.  | 3.7  | 22        |
| 84 | Substrate-Independent Laser-Induced Graphene Electrodes for Microfluidic Electroanalytical Systems. <i>ACS Applied Nano Materials</i> , 2021, 4, 3114-3121.   | 5.0  | 22        |
| 85 | Enhancement of Heterogeneous Assays Using Fluorescent Magnetic Liposomes. <i>Analytical Chemistry</i> , 2014, 86, 6610-6616.  | 6.5  | 21        |
| 86 | Investigating non-specific binding to chemically engineered sensor surfaces using liposomes as models. <i>Analyst</i> , 2016, 141, 5265-5273.   | 3.5  | 21        |
| 87 | Printable 3D Carbon Nanofiber Networks with Embedded Metal Nanocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39533-39540.  | 8.0  | 21        |
| 88 | Dipstick Immunoassay Format for Atrazine and Terbutylazine Analysis in Water Samples. <i>Journal of Agricultural and Food Chemistry</i> , 1998, 46, 3847-3851.  | 5.2  | 19        |
| 89 | Application of a unique server-based oligonucleotide probe selection tool toward a novel biosensor for the detection of <i>Streptococcus pyogenes</i> . <i>Biosensors and Bioelectronics</i> , 2007, 22, 2442-2448. | 10.1 | 19        |
| 90 | Graphene-enhanced plasmonic nanohole arrays for environmental sensing in aqueous samples. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1564-1573.  | 2.8  | 19        |

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|-----|---|-----|-----------|
| 91  | High-Throughput Detection of Thiamine Using Periplasmic Binding Protein-Based Biorecognition. <i>Analytical Chemistry</i> , 2016, 88, 8248-8256.  | 6.5 | 18        |
| 92  | Ag nanoparticles outperform Au nanoparticles for the use as label in electrochemical point-of-care sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 475-483.                               | 3.7 | 18        |
| 93  | Elektrochemilumineszenz-Bioassays können Fluoreszenzassays mithilfe eines wasserlöslichen Luminolderivats überbieten. <i>Angewandte Chemie</i> , 2018, 130, 414-418.  | 2.0 | 17        |
| 94  | Signal enhancement and low oxidation potentials for miniaturized ECL biosensors via N-butyl-diethanolamine. <i>Analyst</i> , 2017, 142, 2469-2474.  | 3.5 | 16        |
| 95  | RNA Internal Standard Synthesis by Nucleic Acid Sequence-Based Amplification for Competitive Quantitative Amplification Reactions. <i>Analytical Chemistry</i> , 2007, 79, 1548-1554.                         | 6.5 | 15        |
| 96  | Superior performance of liposomes over enzymatic amplification in a high-throughput assay for myoglobin in human serum. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4017-4026.                 | 3.7 | 15        |
| 97  | Evaluation of Internal Standards in a Competitive Nucleic Acid Sequence-Based Amplification Assay. <i>Analytical Chemistry</i> , 2007, 79, 1386-1392.   | 6.5 | 14        |
| 98  | Passive Mixing Capabilities of Micro- and Nanofibres When Used in Microfluidic Systems. <i>Sensors</i> , 2016, 16, 1238.  | 3.8 | 14        |
| 99  | Improving ruthenium-based ECL through nonionic surfactants and tertiary amines. <i>Analyst</i> , 2017, 142, 2648-2653.  | 3.5 | 14        |
| 100 | Liposome-Enhanced Lateral-Flow Assays for Clinical Analyses. <i>Methods in Molecular Biology</i> , 2017, 1571, 407-434.   | 0.9 | 14        |
| 101 | Fluorescently labeled liposomes for monitoring cholera toxin binding to epithelial cells. <i>Analytical Biochemistry</i> , 2008, 380, 59-67.  | 2.4 | 13        |
| 102 | Periplasmic Binding Protein-Based Detection of Maltose Using Liposomes: A New Class of Biorecognition Elements in Competitive Assays. <i>Analytical Chemistry</i> , 2013, 85, 2770-2778.                      | 6.5 | 13        |
| 103 | Embedded nanolamps in electrospun nanofibers enabling online monitoring and ratiometric measurements. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9712-9720.   | 5.5 | 13        |
| 104 | Dry-reagent microfluidic biosensor for simple detection of NT-proBNP via Ag nanoparticles. <i>Analytica Chimica Acta</i> , 2022, 1191, 339375.  | 5.4 | 13        |
| 105 | Biopatterning for label-free detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 375-380.  | 5.0 | 12        |
| 106 | ABC Spotlight on Analytics 4.0. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5095-5097.   | 3.7 | 12        |
| 107 | Magnetosomes for bioassays by merging fluorescent liposomes and magnetic nanoparticles: encapsulation and bilayer insertion strategies. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6295-6305. | 3.7 | 12        |
| 108 | Liposome-Enhanced Lateral-Flow Assays for the Sandwich-Hybridization Detection of RNA. <i>Methods in Molecular Biology</i> , 2009, 504, 185-215.  | 0.9 | 12        |

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|-----|--|-----|-----------|
| 109 | A Novel Threeâ€Electrode System Fabricated on Polymethyl Methacrylate for Onâ€Chip Electrochemical Detection. <i>Electroanalysis</i> , 2012, 24, 1903-1908.  | 2.9 | 11        |
| 110 | KAUStat: A Wireless, Wearable, Open-Source Potentiostat for Electrochemical Measurements. , 2019, , .  |     | 11        |
| 111 | Integrated microfluidic preconcentrator and immunobiosensor. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 537-544.  | 2.2 | 10        |
| 112 | A Robust strategy enabling addressable porous 3D carbon-based functional nanomaterials in miniaturized systems. <i>Nanoscale</i> , 2019, 11, 3674-3680.  | 5.6 | 10        |
| 113 | Highly sensitive interleukin 6 detection by employing commercially ready liposomes in an LFA format. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3231-3241.                         | 3.7 | 10        |
| 114 | Microfluidic flow-injection aptamer-based chemiluminescence platform for sulfadimethoxine detection. <i>Mikrochimica Acta</i> , 2022, 189, 117.  | 5.0 | 10        |
| 115 | Synthesis of a liposome incorporated 1-carboxyalkylxanthine-phospholipid conjugate and its recognition by an RNA aptamer. <i>Talanta</i> , 2007, 71, 365-372.                                      | 5.5 | 9         |
| 116 | Engineering liposomes as detection reagents for CD4+ T-cells. <i>Analytical Methods</i> , 2012, 4, 3948.   | 2.7 | 9         |
| 117 | Luminescence properties of dilute bismide systems. <i>Journal of Luminescence</i> , 2014, 154, 95-98.  | 3.1 | 8         |
| 118 | Shedding Light on the Diversity of Surfactant Interactions with Luminol Electrochemiluminescence for Bioanalysis. <i>Analytical Chemistry</i> , 2019, 91, 13080-13087.                             | 6.5 | 8         |
| 119 | Nanocontainer in der Analytik. <i>Angewandte Chemie</i> , 2019, 131, 12970-12992.  | 2.0 | 8         |
| 120 | Cytocompatibility of Mats Prepared from Different Electrospun Polymer Nanofibers. <i>ACS Applied Bio Materials</i> , 2020, 3, 4912-4921.   | 4.6 | 8         |
| 121 | Next generation luminol derivative as powerful benchmark probe for chemiluminescence assays. <i>Analytica Chimica Acta</i> , 2021, 1188, 339161.   | 5.4 | 8         |
| 122 | Nanoscale optofluidic sensor arrays for Dengue virus detection. <i>Proceedings of SPIE</i> , 2007, , .   | 0.8 | 7         |
| 123 | An efficient post-doping strategy creating electrospun conductive nanofibers with multi-functionalities for biomedical applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9316-9325. | 5.5 | 6         |
| 124 | Cationic liposomes for generic signal amplification strategies in bioassays. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3383-3393.   | 3.7 | 6         |
| 125 | Microfluidic-enabled magnetic labelling of nanovesicles for bioanalytical applications. <i>Analyst, The</i> , 2021, 146, 997-1003.   | 3.5 | 6         |
| 126 | Incorporation of Biotin into PLA Nanofibers via Suspension and Dissolution in the Electrospinning Dope. <i>Journal of Biobased Materials and Bioenergy</i> , 2007, 1, 220-228.                     | 0.3 | 6         |



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|-----|--|------|-----------|
| 127 | Food pathogen and toxin detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 449-450.   | 3.7  | 5         |
| 128 | Detection of small molecules with surface plasmon resonance by synergistic plasmonic effects of nanostructured surfaces and graphene. <i>Proceedings of SPIE</i> , 2017, , .                 | 0.8  | 5         |
| 129 | Tethering functionality to lipid interfaces by a fast, simple and controllable post synthesis method. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 325-332.                    | 5.0  | 4         |
| 130 | Dipsticks with Reflectometric Readout of an NIR Dye for Determination of Biogenic Amines. <i>Chemosensors</i> , 2020, 8, 99.   | 3.6  | 4         |
| 131 | Polypyrrole-palladium nanocomposite as a high-efficiency transducer for thrombin detection with liposomes as a label. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3205-3217.  | 3.7  | 4         |
| 132 | Chapter 6 Bioanalytical microsystems: technology and applications. <i>Comprehensive Analytical Chemistry</i> , 2005, , 251-284.  | 1.3  | 3         |
| 133 | Fiber-based platforms for bioanalytics. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1281-1283.  | 3.7  | 3         |
| 134 | Recent trends in (bio)analytical chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5533-5534.  | 3.7  | 2         |
| 135 | Focus on bioanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2337-2339.  | 3.7  | 1         |
| 136 | 980 nm and 808 nm excitable upconversion nanoparticles for the detection of enzyme related reactions. <i>Proceedings of SPIE</i> , 2017, , .   | 0.8  | 1         |
| 137 | Frontispiz: Elektrochemilumineszenzâ€Bioassays kÃ¶nnen Fluoreszenzassays mithilfe eines wasserlÃ¶slichen Luminolderivats Ã¼bertreffen. <i>Angewandte Chemie</i> , 2018, 130, .               | 2.0  | 1         |
| 138 | Introducing three new ABC Editors. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2471-2473.   | 3.7  | 1         |
| 139 | Advances in direct optical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3263-3264.  | 3.7  | 1         |
| 140 | Advancements in sensor technology with innovative and significant research publications: how to write that perfect paper?. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 21-24. | 3.7  | 1         |
| 141 | Frontispiece: Electrochemiluminescence Bioassays with a Waterâ€Soluble Luminol Derivative Can Outperform Fluorescence Assays. <i>Angewandte Chemie - International Edition</i> , 2018, 57, . | 13.8 | 0         |
| 142 | Female role models in analytical chemistry: then, now, and in the future. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5873-5874.  | 3.7  | 0         |
| 143 | Multiplexed Immunoassays in Food Analysis. , 2008, , .   |      | 0         |
| 144 | On-Chip Spectrophotometry for Bioanalysis Using Nanophotonic Devices. , 2010, , .  |      | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 145 | Promising Early-Career (Bio)analytical Researchers. <i>Analytical and Bioanalytical Chemistry</i> , 0, , . | 3.7 | 0         |
| 146 | In honor of Professor GÃ¼nter Gauglitz. <i>Analytical and Bioanalytical Chemistry</i> , 0, , .             | 3.7 | 0         |