

Antje Baeumner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133
papers

5,675
citations

43
h-index

71
g-index

150
ext. papers

6,344
ext. citations

6.9
avg, IF

6.41
L-index

#	Paper	IF	Citations
133	Dry-reagent microfluidic biosensor for simple detection of NT-proBNP via Ag nanoparticles.. <i>Analytica Chimica Acta</i> , 2022 , 1191, 339375	6.6	0
132	Microfluidic flow-injection aptamer-based chemiluminescence platform for sulfadimethoxine detection.. <i>Mikrochimica Acta</i> , 2022 , 189, 117	5.8	0
131	Highly sensitive interleukin 6 detection by employing commercially ready liposomes in an LFA format. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	1
130	Polypyrrole-palladium nanocomposite as a high-efficiency transducer for thrombin detection with liposomes as a label. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	0
129	Next generation luminol derivative as powerful benchmark probe for chemiluminescence assays. <i>Analytica Chimica Acta</i> , 2021 , 1188, 339161	6.6	1
128	A Family Affair: Addressing the Challenges of Factor H and the Related Proteins. <i>Frontiers in Immunology</i> , 2021 , 12, 660194	8.4	3
127	Substrate-Independent Laser-Induced Graphene Electrodes for Microfluidic Electroanalytical Systems. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3114-3121	5.6	8
126	Process-property correlations in laser-induced graphene electrodes for electrochemical sensing. <i>Mikrochimica Acta</i> , 2021 , 188, 159	5.8	7
125	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	4.4	19
124	Microfluidic-enabled magnetic labelling of nanovesicles for bioanalytical applications. <i>Analyst, The</i> , 2021 , 146, 997-1003	5	2
123	Ag nanoparticles outperform Au nanoparticles for the use as label in electrochemical point-of-care sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	4
122	Biosensors to support sustainable agriculture and food safety. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 128, 115906	14.6	48
121	Laser-scribed graphene (LSG) as new electrode material for impedance-based cellular assays. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128443	8.5	14
120	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	4.4	4
119	Cationic liposomes for generic signal amplification strategies in bioassays. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 3383-3393	4.4	2
118	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	11.8	38
117	Dipsticks with Reflectometric Readout of an NIR Dye for Determination of Biogenic Amines. <i>Chemosensors</i> , 2020 , 8, 99	4	3

116	Cytocompatibility of Mats Prepared from Different Electrospun Polymer Nanofibers.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4912-4921	4.1	2
115	Printable 3D Carbon Nanofiber Networks with Embedded Metal Nanocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39533-39540	9.5	12
114	Shedding Light on the Diversity of Surfactant Interactions with Luminol Electrochemiluminescence for Bioanalysis. <i>Analytical Chemistry</i> , 2019 , 91, 13080-13087	7.8	7
113	Aptamer lateral flow assays for rapid and sensitive detection of cholera toxin. <i>Analyst, The</i> , 2019 , 144, 1840-1849	5	39
112	Photosensitiser functionalised luminescent upconverting nanoparticles for efficient photodynamic therapy of breast cancer cells. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 98-109	4.2	15
111	A Robust strategy enabling addressable porous 3D carbon-based functional nanomaterials in miniaturized systems. <i>Nanoscale</i> , 2019 , 11, 3674-3680	7.7	4
110	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	6	2
109	A Megatrend Challenging Analytical Chemistry: Biosensor and Chemosensor Concepts Ready for the Internet of Things. <i>Chemical Reviews</i> , 2019 , 119, 7996-8027	68.1	132
108	A MXene-Based Wearable Biosensor System for High-Performance In Vitro Perspiration Analysis. <i>Small</i> , 2019 , 15, e1901190	11	157
107	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	7.1	4
106	KAUSTat: A Wireless, Wearable, Open-Source Potentiostat for Electrochemical Measurements 2019		4
105	Nanocontainer in der Analytik. <i>Angewandte Chemie</i> , 2019 , 131, 12970-12992	3.6	5
104	Nanocontainers for Analytical Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12840-12860	16.1	32
103	Food Safety Analysis Enabled through Biological and Synthetic Materials: A Critical Review of Current Trends. <i>Analytical Chemistry</i> , 2019 , 91, 569-587	7.8	16
102	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	68.1	271
101	Frontispiz: Elektrochemilumineszenz-Bioassays können Fluoreszenzassays mithilfe eines wasserlöslichen Luminolderivats übertreffen. <i>Angewandte Chemie</i> , 2018 , 130,	3.6	1
100	Elektrochemilumineszenz-Bioassays können Fluoreszenzassays mithilfe eines wasserlöslichen Luminolderivats übertreffen. <i>Angewandte Chemie</i> , 2018 , 130, 414-418	3.6	16
99	Electrochemiluminescence Bioassays with a Water-Soluble Luminol Derivative Can Outperform Fluorescence Assays. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 408-411	16.4	73

98	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	4.4	24
97	PAMAM dendrimers: A multifunctional nanomaterial for ECL biosensors. <i>Talanta</i> , 2017 , 168, 126-129	6.2	21
96	980 nm and 808 nm excitable upconversion nanoparticles for the detection of enzyme related reactions 2017 ,		1
95	Detection of small molecules with surface plasmon resonance by synergistic plasmonic effects of nanostructured surfaces and graphene 2017 ,		4
94	Signal enhancement and low oxidation potentials for miniaturized ECL biosensors via N-butyl-diethanolamine. <i>Analyst, The</i> , 2017 , 142, 2469-2474	5	12
93	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	6.7	47
92	Laser-Scribed Graphene Electrodes for Aptamer-Based Biosensing. <i>ACS Sensors</i> , 2017 , 2, 616-620	9.2	115
91	Improving ruthenium-based ECL through nonionic surfactants and tertiary amines. <i>Analyst, The</i> , 2017 , 142, 2648-2653	5	9
90	Particle-Size-Dependent Förster Resonance Energy Transfer from Upconversion Nanoparticles to Organic Dyes. <i>Analytical Chemistry</i> , 2017 , 89, 4868-4874	7.8	125
89	Thiamine Assays-Advances, Challenges, and Caveats. <i>ChemistryOpen</i> , 2017 , 6, 178-191	2.3	40
88	Liposome-Enhanced Lateral-Flow Assays for Clinical Analyses. <i>Methods in Molecular Biology</i> , 2017 , 1571, 407-434	1.4	11
87	Embedded nanolamps in electrospun nanofibers enabling online monitoring and ratiometric measurements. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9712-9720	7.1	9
86	High-Throughput Detection of Thiamine Using Periplasmic Binding Protein-Based Biorecognition. <i>Analytical Chemistry</i> , 2016 , 88, 8248-56	7.8	15
85	Nanomaterials as versatile tools for signal amplification in (bio)analytical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 79, 306-316	14.6	78
84	Functionalized electrospun poly(vinyl alcohol) nanofibers for on-chip concentration of E. coli cells. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 1327-34	4.4	23
83	Passive Mixing Capabilities of Micro- and Nanofibres When Used in Microfluidic Systems. <i>Sensors</i> , 2016 , 16,	3.8	9
82	Graphene-enhanced plasmonic nanohole arrays for environmental sensing in aqueous samples. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1564-1573	3	17
81	Investigating non-specific binding to chemically engineered sensor surfaces using liposomes as models. <i>Analyst, The</i> , 2016 , 141, 5265-73	5	14

80	A review of electrochemiluminescence (ECL) in and for microfluidic analytical devices. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3911-26	4.4	67
79	Liposomes with High Refractive Index Encapsulants as Tunable Signal Amplification Tools in Surface Plasmon Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2015 , 87, 11157-63	7.8	18
78	Microfluidic biosensor for cholera toxin detection in fecal samples. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 727-36	4.4	19
77	A photonic crystal based sensing scheme for acetylcholine and acetylcholinesterase inhibitors. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2089-2095	7.3	25
76	Combining electrochemical sensors with miniaturized sample preparation for rapid detection in clinical samples. <i>Sensors</i> , 2014 , 15, 547-64	3.8	37
75	Developing new materials for paper-based diagnostics using electrospun nanofibers. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 3297-304	4.4	37
74	Luminescence properties of dilute bismide systems. <i>Journal of Luminescence</i> , 2014 , 154, 95-98	3.8	5
73	Isolation and amplification of mRNA within a simple microfluidic lab on a chip. <i>Analytical Chemistry</i> , 2014 , 86, 849-56	7.8	37
72	Biologically inspired nanofibers for use in translational bioanalytical systems. <i>Annual Review of Analytical Chemistry</i> , 2014 , 7, 23-42	12.5	17
71	Enhancement of heterogeneous assays using fluorescent magnetic liposomes. <i>Analytical Chemistry</i> , 2014 , 86, 6610-6	7.8	19
70	Microfluidic isolation of nucleic acids. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13988-4001	16.4	63
69	Mikrofluidische Isolierung von Nukleinsäuren. <i>Angewandte Chemie</i> , 2014 , 126, 14208-14222	3.6	2
68	Multi-channel PMMA microfluidic biosensor with integrated IDUAs for electrochemical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 5965-74	4.4	30
67	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, 4017-26	4.4	12
66	Periplasmic binding protein-based detection of maltose using liposomes: a new class of biorecognition elements in competitive assays. <i>Analytical Chemistry</i> , 2013 , 85, 2770-8	7.8	11
65	Micro-total analysis system for virus detection: microfluidic pre-concentration coupled to liposome-based detection. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 315-23	4.4	54
64	Biosensors for the detection of waterborne pathogens. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 117-27	4.4	69
63	Miniaturized bioanalytical systems: enhanced performance through liposomes. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 444-52	9.7	31

62	A Novel Three-Electrode System Fabricated on Polymethyl Methacrylate for On-Chip Electrochemical Detection. <i>Electroanalysis</i> , 2012 , 24, 1903-1908	3	8
61	Engineering liposomes as detection reagents for CD4+ T-cells. <i>Analytical Methods</i> , 2012 , 4, 3948	3.2	9
60	Functionalized electrospun nanofibers as bioseparators in microfluidic systems. <i>Lab on A Chip</i> , 2012 , 12, 1696-701	7.2	20
59	Recent progress in the design of nanofiber-based biosensing devices. <i>Lab on A Chip</i> , 2012 , 12, 2612-20	7.2	88
58	On-chip spectrophotometry for bioanalysis using microring resonators. <i>Biomedical Optics Express</i> , 2011 , 2, 271-7	3.5	40
57	Miniaturized isothermal nucleic acid amplification, a review. <i>Lab on A Chip</i> , 2011 , 11, 1420-30	7.2	317
56	Integrated microfluidic preconcentrator and immunobiosensor. <i>Microfluidics and Nanofluidics</i> , 2011 , 11, 537-544	2.8	9
55	Electrospun nanofibers for microfluidic analytical systems. <i>Polymer</i> , 2011 , 52, 3413-3421	3.9	25
54	Aptamer sandwich assays: label-free and fluorescence investigations of heterogeneous binding events. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2635-44	4.4	23
53	Aptamer sandwich assays: human Ehhrombin detection using liposome enhancement. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2645-54	4.4	47
52	Biopatterning for label-free detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 76, 375-80	6	9
51	Capture and culturing of living cells on microstructured DNA substrates. <i>Small</i> , 2010 , 6, 2162-8	11	32
50	A biosensor assay for the detection of Mycobacterium avium subsp. paratuberculosis in fecal samples. <i>Journal of Veterinary Science</i> , 2009 , 10, 35-42	1.6	23
49	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	1.7	26
48	PMMA biosensor for nucleic acids with integrated mixer and electrochemical detection. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2428-33	11.8	74
47	Cholera toxin subunit B detection in microfluidic devices. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 177-86	4.4	36
46	Liposome-enhanced lateral-flow assays for the sandwich-hybridization detection of RNA. <i>Methods in Molecular Biology</i> , 2009 , 504, 185-215	1.4	9
45	Trends and opportunities in food pathogen detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 451-4	4.4	110

44	Human pathogenic <i>Cryptosporidium</i> species bioanalytical detection method with single oocyst detection capability. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 487-95	4.4	48
43	Universal liposomes: preparation and usage for the detection of mRNA. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1689-702	4.4	36
42	Fluorescently labeled liposomes for monitoring cholera toxin binding to epithelial cells. <i>Analytical Biochemistry</i> , 2008 , 380, 59-67	3.1	12
41	DNA-oligonucleotide encapsulating liposomes as a secondary signal amplification means. <i>Analytical Chemistry</i> , 2007 , 79, 1806-15	7.8	34
40	RNA internal standard synthesis by nucleic acid sequence-based amplification for competitive quantitative amplification reactions. <i>Analytical Chemistry</i> , 2007 , 79, 1548-54	7.8	13
39	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, 2442-8	11.8	18
38	Availability of biotin incorporated in electrospun PLA fibers for streptavidin binding. <i>Polymer</i> , 2007 , 48, 6340-6347	3.9	31
37	An embedded system for portable electrochemical detection. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 336-343	8.5	33
36	Application of ganglioside-sensitized liposomes in a flow injection immunoanalytical system for the determination of cholera toxin. <i>Analytical Chemistry</i> , 2007 , 79, 246-50	7.8	45
35	Nanoscale optofluidic sensor arrays for Dengue virus detection 2007 ,		3
34	Synthesis of a liposome incorporated 1-carboxyalkylxanthine-phospholipid conjugate and its recognition by an RNA aptamer. <i>Talanta</i> , 2007 , 71, 365-72	6.2	8
33	Evaluation of internal standards in a competitive nucleic acid sequence-based amplification assay. <i>Analytical Chemistry</i> , 2007 , 79, 1386-92	7.8	14
32	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	1.4	6
31	<i>Bacillus anthracis</i> : toxicology, epidemiology and current rapid-detection methods. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 73-84	4.4	84
30	Optimization of DNA-tagged dye-encapsulating liposomes for lateral-flow assays based on sandwich hybridization. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1335-43	4.4	58
29	Optimization of DNA-tagged liposomes for use in microtiter plate analyses. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1613-23	4.4	37
28	Electrochemical microfluidic biosensor for the detection of nucleic acid sequences. <i>Lab on A Chip</i> , 2006 , 6, 414-21	7.2	108
27	Recirculating, passive micromixer with a novel sawtooth structure. <i>Lab on A Chip</i> , 2006 , 6, 242-6	7.2	22

26	Sequential injection analysis system for the sandwich hybridization-based detection of nucleic acids. <i>Analytical Chemistry</i> , 2006 , 78, 1958-66	7.8	31
25	Analysis of liposomes. <i>Talanta</i> , 2006 , 68, 1432-41	6.2	124
24	Liposomes in analyses. <i>Talanta</i> , 2006 , 68, 1421-31	6.2	116
23	Electrochemical microfluidic biosensor for nucleic acid detection with integrated minipotentiostat. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 2217-23	11.8	103
22	Electrospun polylactic acid nanofiber membranes as substrates for biosensor assemblies. <i>Journal of Membrane Science</i> , 2006 , 279, 354-363	9.6	145
21	Protein G-liposomal nanovesicles as universal reagents for immunoassays. <i>Talanta</i> , 2005 , 67, 205-11	6.2	24
20	Development of a microfluidic biosensor module for pathogen detection. <i>Lab on A Chip</i> , 2005 , 5, 805-11	7.2	143
19	Microfluidic biosensor for the serotype-specific detection of dengue virus RNA. <i>Analytical Chemistry</i> , 2005 , 77, 7520-7	7.8	93
18	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	3.4	24
17	Chapter 6 Bioanalytical microsystems: technology and applications. <i>Comprehensive Analytical Chemistry</i> , 2005 , 251-284	1.9	3
16	A generic sandwich-type biosensor with nanomolar detection limits. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 1587-93	4.4	52
15	Multi-analyte single-membrane biosensor for the serotype-specific detection of Dengue virus. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 380, 46-53	4.4	56
14	A rapid biosensor for viable B. anthracis spores. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 380, 15-23	4.4	43
13	Characterization and Optimization of Interdigitated Ultramicroelectrode Arrays as Electrochemical Biosensor Transducers. <i>Electroanalysis</i> , 2004 , 16, 724-729	3	80
12	A universal nucleic acid sequence biosensor with nanomolar detection limits. <i>Analytical Chemistry</i> , 2004 , 76, 888-94	7.8	91
11	Biosensor for the specific detection of a single viable B. anthracis spore. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 376, 319-27	4.4	56
10	A microfluidic biosensor based on nucleic acid sequence recognition. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 376, 1062-8	4.4	73
9	Biosensors for environmental pollutants and food contaminants. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 434-45	4.4	188

8	RNA biosensor for the rapid detection of viable Escherichia coli in drinking water. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 405-13	11.8	162
7	Ganglioside-liposome immunoassay for the ultrasensitive detection of cholera toxin. <i>Analytical Chemistry</i> , 2003 , 75, 2256-61	7.8	94
6	Highly sensitive and specific detection of viable Escherichia coli in drinking water. <i>Analytical Biochemistry</i> , 2002 , 303, 186-93	3.1	81
5	Development of a laser-induced cell lysis system. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 421-6.4	4.4	34
4	Biosensor for dengue virus detection: sensitive, rapid, and serotype specific. <i>Analytical Chemistry</i> , 2002 , 74, 1442-8	7.8	104
3	Detection of viable oocysts of <i>Cryptosporidium parvum</i> following nucleic acid sequence based amplification. <i>Analytical Chemistry</i> , 2001 , 73, 1176-80	7.8	78
2	Detection of <i>Cryptosporidium parvum</i> using oligonucleotide-tagged liposomes in a competitive assay format. <i>Analytical Chemistry</i> , 2001 , 73, 3162-7	7.8	55
1	Dipstick Immunoassay Format for Atrazine and Terbutylazine Analysis in Water Samples. <i>Journal of Agricultural and Food Chemistry</i> , 1998 , 46, 3847-3851	5.7	15