

Eva Baldrich

List of Publications by Year in descending order

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60
papers

2,561
citations

236925

25
h-index

189892

50
g-index

60
all docs

60
docs citations

60
times ranked

3196
citing authors

#	ARTICLE	IF	CITATIONS
1	Reagentless, Reusable, Ultrasensitive Electrochemical Molecular Beacon Aptasensor. <i>Journal of the American Chemical Society</i> , 2006, 128, 117-124.	13.7	588
2	Reusable Impedimetric Aptasensor. <i>Analytical Chemistry</i> , 2005, 77, 6320-6323.	6.5	257
3	Aptasensor Development: Elucidation of Critical Parameters for Optimal Aptamer Performance. <i>Analytical Chemistry</i> , 2004, 76, 7053-7063.	6.5	204
4	Iridium oxide pH sensor for biomedical applications. Case urea urease in real urine samples. <i>Biosensors and Bioelectronics</i> , 2013, 39, 163-169.	10.1	104
5	Detection of <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> Using Interdigitated Microelectrode Capacitive Immunosensors: The Importance of Transducer Geometry. <i>Analytical Chemistry</i> , 2008, 80, 7239-7247.	6.5	96
6	Impedance biosensing using phages for bacteria detection: Generation of dual signals as the clue for in-chip assay confirmation. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1261-1267.	10.1	84
7	Displacement Enzyme Linked Aptamer Assay. <i>Analytical Chemistry</i> , 2005, 77, 4774-4784.	6.5	78
8	Improved bacteria detection by coupling magneto-immunocapture and amperometry at flow-channel microband electrodes. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3633-3640.	10.1	69
9	Conducting polymer nanowire-based chemiresistive biosensor for the detection of bacterial spores. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2309-2312.	10.1	59
10	Magnetic entrapment for fast, simple and reversible electrode modification with carbon nanotubes: Application to dopamine detection. <i>Biosensors and Bioelectronics</i> , 2011, 26, 1876-1882.	10.1	59
11	Ability of thrombin to act as molecular chaperone, inducing formation of quadruplex structure of thrombin-binding aptamer. <i>Analytical Biochemistry</i> , 2005, 341, 194-197.	2.4	57
12	Electrochemical POC device for fast malaria quantitative diagnosis in whole blood by using magnetic beads, Poly-HRP and microfluidic paper electrodes. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111925.	10.1	52
13	Electronic "Off-On"™ Molecular Switch for Rapid Detection of Thrombin. <i>Electroanalysis</i> , 2006, 18, 1957-1962.	2.9	49
14	Amperometric detection of Enterobacteriaceae in river water by measuring β -galactosidase activity at interdigitated microelectrode arrays. <i>Analytica Chimica Acta</i> , 2010, 677, 156-161.	5.4	47
15	Miniaturized metal oxide pH sensors for bacteria detection. <i>Talanta</i> , 2016, 147, 364-369.	5.5	46
16	Electrochemical Lateral Flow Devices: Towards Rapid Immunomagnetic Assays. <i>ChemElectroChem</i> , 2017, 4, 880-889.	3.4	46
17	Electrochemical Capillary-Flow Immunoassay for Detecting Anti-SARS-CoV-2 Nucleocapsid Protein Antibodies at the Point of Care. <i>ACS Sensors</i> , 2021, 6, 4067-4075.	7.8	45
18	Biosensing at disk microelectrode arrays. Inter-electrode functionalisation allows formatting into miniaturised sensing platforms of enhanced sensitivity. <i>Biosensors and Bioelectronics</i> , 2009, 25, 920-926.	10.1	35

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19	Detection of plasma MMP-9 within minutes. Unveiling some of the clues to develop fast and simple electrochemical magneto-immunosensors. <i>Biosensors and Bioelectronics</i> , 2018, 115, 45-52.	10.1	32
20	Electrochemical detection of dopamine using streptavidin-coated magnetic particles and carbon nanotube wiring. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 891-898.	7.8	31
21	Using magnetic beads and signal amplifiers to produce short and simple immunoassays: Application to MMP-9 detection in plasma samples. <i>Analytica Chimica Acta</i> , 2018, 999, 144-154.	5.4	31
22	Gold immuno-functionalisation via self-assembled monolayers: Study of critical parameters and comparative performance for protein and bacteria detection. <i>Journal of Immunological Methods</i> , 2008, 336, 203-212.	1.4	29
23	Dual chronoamperometric detection of enzymatic biomarkers using magnetic beads and a low-cost flow cell. <i>Biosensors and Bioelectronics</i> , 2015, 69, 328-336.	10.1	28
24	Chronoamperometric Magneto Immunosensor for Myeloperoxidase Detection in Human Plasma Based on a Magnetic Switch Produced by 3D Laser Sintering. <i>Analytical Chemistry</i> , 2013, 85, 9049-9056.	6.5	26
25	NaNO ₃ /NaCl Oxidant and Polyethylene Glycol (PEG) Capped Gold Nanoparticles (AuNPs) as a Novel Green Route for AuNPs Detection in Electrochemical Biosensors. <i>Analytical Chemistry</i> , 2018, 90, 4010-4018.	6.5	26
26	Carbon Nanotube Wiring: A Tool for Straightforward Electrochemical Biosensing at Magnetic Particles. <i>Analytical Chemistry</i> , 2011, 83, 9244-9250.	6.5	25
27	Detection of uric acid at reversibly nanostructured thin-film microelectrodes. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 667-673.	7.8	25
28	Immunofunctionalisation of gold transducers for bacterial detection by physisorption. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2825-2835.	3.7	23
29	Carbon nanotube wiring for signal amplification of electrochemical magneto immunosensors: application to myeloperoxidase detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5487-5493.	3.7	23
30	Electrochemical Detection of Quorum Sensing Signaling Molecules by Dual Signal Confirmation at Microelectrode Arrays. <i>Analytical Chemistry</i> , 2011, 83, 2097-2103.	6.5	22
31	Electrochemical Detection of Testosterone by Use of Three-Dimensional Disc-Ring Microelectrode Sensing Platforms: Application to Doping Monitoring. <i>Analytical Chemistry</i> , 2011, 83, 4037-4044.	6.5	21
32	Characterization and optimization of carbon nanotube electrodes produced by magnetic entrapment: Application to paracetamol detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 685-693.	7.8	19
33	Developing enhanced magnetoimmunosensors based on low-cost screen-printed electrode devices. <i>Reviews in Analytical Chemistry</i> , 2016, 35, 53-85.	3.2	17
34	Fast immunosensing technique to detect <i>Legionella pneumophila</i> in different natural and anthropogenic environments: comparative and collaborative trials. <i>BMC Microbiology</i> , 2013, 13, 88.	3.3	16
35	Smartphone-Enabled Personalized Diagnostics: Current Status and Future Prospects. <i>Diagnostics</i> , 2021, 11, 1067.	2.6	16
36	Self-assembled monolayers as a base for immunofunctionalisation: unequal performance for protein and bacteria detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1557-1562.	3.7	15

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37	Enzyme shadowing: using antibody-enzyme dually-labeled magnetic particles for fast bacterial detection. <i>Analyst, The</i> , 2008, 133, 1009.	3.5	15
38	Using polyHRP to produce simplified immunoassays and electrochemical immunosensors. Application to MMP-9 detection in plasma and uterine aspirates. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 377-384.	7.8	14
39	Sensing bacteria but treating them well: Determination of optimal incubation and storage conditions. <i>Analytical Biochemistry</i> , 2008, 383, 68-75.	2.4	13
40	Captavidin: a new regenerable biocomponent for biosensing?. <i>Analyst, The</i> , 2009, 134, 2338.	3.5	13
41	Paper microfluidics on screen-printed electrodes for simple electrochemical magneto-immunosensor performance. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126897.	7.8	13
42	An internet of things-based intensity and time-resolved fluorescence reader for point-of-care testing. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112074.	10.1	13
43	Development of a Fast Chemiluminescent Magneto-Immunoassay for Sensitive <i>Plasmodium falciparum</i> Detection in Whole Blood. <i>Analytical Chemistry</i> , 2021, 93, 12793-12800.	6.5	10
44	Competitive USB-Powered Hand-Held Potentiostat for POC Applications: An HRP Detection Case. <i>Sensors</i> , 2019, 19, 5388.	3.8	9
45	Detection of <i>Plasmodium falciparum</i> malaria in 1h using a simplified enzyme-linked immunosorbent assay. <i>Analytica Chimica Acta</i> , 2021, 1152, 338254.	5.4	7
46	Effect of the transducer's surface pre-treatment on SPR aptasensor development. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 634-642.	7.8	6
47	AuNPs/methylene blue dual-signal nanoimmunoconjugates and electrode activation for electrochemical biosensors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113500.	3.8	6
48	Inductive microcoils for the fast and simple detection of bacterial presence. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 304-309.	7.8	5
49	Electrochemical biosensing of non-electroactive targets using ferrocene-labeled magnetic particles and CNT wiring. <i>Analyst, The</i> , 2014, 139, 1334.	3.5	5
50	Overcoming false negatives due to the genomic context in polymerase chain reaction amplification. <i>Journal of Proteomics</i> , 1999, 40, 45-48.	2.4	4
51	Aptamers: Versatile Tools for Reagentless Aptasensing. , 2010, , 675-722.		4
52	Voltammetric discrimination of skatole and indole at disposable screen printed electrodes. <i>Analyst, The</i> , 2013, 138, 1346.	3.5	4
53	Germline mutations induced by N-nitroso-N-ethylurea do not affect the inserted copia retrotransposon in a <i>Drosophila melanogaster</i> wa mutant. <i>Mutagenesis</i> , 2003, 18, 527-531.	2.6	3
54	An FB-NOF mediated duplication of the white gene is responsible for the zeste 1 phenotype in some <i>Drosophila melanogaster</i> unstable strains. <i>Molecular Genetics and Genomics</i> , 2006, 275, 35-43.	2.1	3

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55	Detection of sample conductivity and bacterial presence using inductive microcoils. Effect of device size and geometry. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 816-822.	7.8	3
56	CNT Wiring for Signal Amplification in Electrochemical Magnetosensors. <i>Procedia Engineering</i> , 2014, 87, 712-715.	1.2	3
57	Reversible nanostructuring of microfluidic electrode devices by CNT magnetic co-entrapment. <i>Lab on A Chip</i> , 2015, 15, 3269-3273.	6.0	3
58	Effect of agitation in magneto-assay performance. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 718-726.	7.8	3
59	Detection of Viruses and Virus-Neutralizing Antibodies Using Synthetic Erythrocytes: Toward a Tuneable Tool for Virus Surveillance. <i>ACS Sensors</i> , 2021, 6, 83-90.	7.8	2
60	Electrochemical Magneto-immunosensors as Fast and Efficient Tools for Point-of-care Diagnostics. <i>RSC Detection Science</i> , 2019, , 101-134.	0.0	0