Kevin W Plaxco

List of Publications by Year
in descending order

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238 papers	24,835 citations	6124 83 h-index	8627 151 g-index
275 all docs	275 docs citations	275 times ranked	18130 citing authors

#	Article	IF	Citations
1	Electrochemical Aptamer-Based Sensors: A Platform Approach to High-Frequency Molecular Monitoring In Situ in the Living Body. Methods in Molecular Biology, 2022, 2393, 479-492.	0.4	13
2	Continuous monitoring of molecular biomarkers in microfluidic devices. Progress in Molecular Biology and Translational Science, 2022, 187, 295-333.	0.9	0
3	Proteinâ€"Protein Communication Mediated by an Antibodyâ€Responsive DNA Nanodevice**. Angewandte Chemie, 2022, 134, .	1.6	2
4	Proteinâ€"Protein Communication Mediated by an Antibodyâ€Responsive DNA Nanodevice**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	9
5	RÃ¼cktitelbild: Proteinâ€"Protein Communication Mediated by an Antibodyâ€Responsive DNA Nanodevice (Angew. Chem. 12/2022). Angewandte Chemie, 2022, 134, .	1.6	0
6	On the Disinfection of Electrochemical Aptamer-Based Sensors. , 2022, 1, 011604.		61
7	Improved calibration of electrochemical aptamer-based sensors. Scientific Reports, 2022, 12, 5535.	1.6	14
8	(Digital Presentation) Catalytic Interruption Mitigates Edge Effects in the Characterization of Heterogeneous, Insulating Nanoparticles. ECS Meeting Abstracts, 2022, MA2022-01, 2111-2111.	0.0	0
9	A wrinkled structure of gold film greatly improves the signaling of electrochemical aptamer-based biosensors. RSC Advances, 2021, 11, 671-677.	1.7	18
10	Seconds-Resolved, In Situ Measurements of Plasma Phenylalanine Disposition Kinetics in Living Rats. Analytical Chemistry, 2021, 93, 4023-4032.	3.2	35
11	Signal transduction with a swing. Nature Chemistry, 2021, 13, 392-393.	6.6	6
12	Veinâ€toâ€brain: Simultaneous, secondsâ€resolved measurements of intracranial and intravenous drug levels provide a highly timeâ€resolved picture of drug transport. FASEB Journal, 2021, 35, .	0.2	1
13	Nanoporous Gold for the Miniaturization of In Vivo Electrochemical Aptamer-Based Sensors. ACS Sensors, 2021, 6, 2299-2306.	4.0	48
14	Programmable, Multiplexed DNA Circuits Supporting Clinically Relevant, Electrochemical Antibody Detection. ACS Sensors, 2021, 6, 2442-2448.	4.0	32
15	Elucidating the Mechanisms Underlying the Signal Drift of Electrochemical Aptamer-Based Sensors in Whole Blood. ACS Sensors, 2021, 6, 3340-3347.	4.0	48
16	Switching the aptamer attachment geometry can dramatically alter the signalling and performance of electrochemical aptamer-based sensors. Chemical Communications, 2021, 57, 11693-11696.	2.2	12
17	The effect of charged residue substitutions on the thermodynamics of <scp>proteinâ€surface</scp> interactions. Protein Science, 2021, 30, 2408-2417.	3.1	3
18	Catalytic Interruption Mitigates Edge Effects in the Characterization of Heterogeneous, Insulating Nanoparticles. Journal of the American Chemical Society, 2021, 143, 18888-18898.	6.6	7

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19	Nanometer-Scale Force Profiles of Short Single- and Double-Stranded DNA Molecules on a Gold Surface Measured Using a Surface Forces Apparatus. Langmuir, 2021, 37, 13346-13352.	1.6	4
20	Optimal experiment design with applications to Pharmacokinetic modeling. , 2021, , .		0
21	An Electrochemical Biosensor Architecture Based on Protein Folding Supports Direct Realâ€Time Measurements in Whole Blood. Angewandte Chemie - International Edition, 2020, 59, 18442-18445.	7.2	29
22	An Electrochemical Biosensor Architecture Based on Protein Folding Supports Direct Realâ€Time Measurements in Whole Blood. Angewandte Chemie, 2020, 132, 18600-18603.	1.6	4
23	Attachment of Proteins to a Hydroxyl-Terminated Surface Eliminates the Stabilizing Effects of Polyols. Journal of the American Chemical Society, 2020, 142, 15349-15354.	6.6	5
24	Rational design to control the trade-off between receptor affinity and cooperativity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19136-19140.	3.3	17
25	Subsecond-Resolved Molecular Measurements Using Electrochemical Phase Interrogation of Aptamer-Based Sensors. Analytical Chemistry, 2020, 92, 14063-14068.	3.2	38
26	An electrochemical biosensor exploiting binding-induced changes in electron transfer of electrode-attached DNA origami to detect hundred nanometer-scale targets. Nanoscale, 2020, 12, 13907-13911.	2.8	16
27	Water as a Good Solvent for Unfolded Proteins: Folding and Collapse are Fundamentally Different. Journal of Molecular Biology, 2020, 432, 2882-2889.	2.0	26
28	Real-Time Monitoring of a Protein Biomarker. ACS Sensors, 2020, 5, 1877-1881.	4.0	60
29	E-DNA scaffold sensors and the reagentless, single-step, measurement of HIV-diagnostic antibodies in human serum. Microsystems and Nanoengineering, 2020, 6, 13.	3.4	27
30	Optimizing the Specificity Window of Biomolecular Receptors Using Structure-Switching and Allostery. ACS Sensors, 2020, 5, 1937-1942.	4.0	14
31	High frequency, real-time neurochemical and neuropharmacological measurements in situ in the living body. Translational Research, 2019, 213, 50-66.	2.2	7
32	Seconds-resolved pharmacokinetic measurements of the chemotherapeutic irinotecan in situ in the living body. Chemical Science, 2019, 10, 8164-8170.	3.7	74
33	Open Source Software for the Real-Time Control, Processing, and Visualization of High-Volume Electrochemical Data. Analytical Chemistry, 2019, 91, 12321-12328.	3.2	33
34	Ultra-High-Precision, in-vivo Pharmacokinetic Measurements Highlight the Need for and a Route Toward More Highly Personalized Medicine. Frontiers in Molecular Biosciences, 2019, 6, 69.	1.6	28
35	Electrochemical Aptamer-Based Sensors for Improved Therapeutic Drug Monitoring and High-Precision, Feedback-Controlled Drug Delivery. ACS Sensors, 2019, 4, 2832-2837.	4.0	142
36	Surface Attachment Enhances the Thermodynamic Stability of Proteinâ€…L. Angewandte Chemie, 2019, 131, 1728-1732.	1.6	1

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37	An electrochemical scaffold sensor for rapid syphilis diagnosis. Analyst, The, 2019, 144, 5277-5283.	1.7	26
38	Commonly used FRET fluorophores promote collapse of an otherwise disordered protein. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8889-8894.	3.3	43
39	An electrochemical aptamer-based sensor for the rapid and convenient measurement of l-tryptophan. Analytical and Bioanalytical Chemistry, 2019, 411, 4629-4635.	1.9	35
40	Calibration-Free Measurement of Phenylalanine Levels in the Blood Using an Electrochemical Aptamer-Based Sensor Suitable for Point-of-Care Applications. ACS Sensors, 2019, 4, 3227-3233.	4.0	78
41	High frequency, calibration-free molecular measurements in situ in the living body. Chemical Science, 2019, 10, 10843-10848.	3.7	52
42	High-Precision Electrochemical Measurements of the Guanine-, Mismatch-, and Length-Dependence of Electron Transfer from Electrode-Bound DNA Are Consistent with a Contact-Mediated Mechanism. Journal of the American Chemical Society, 2019, 141, 1304-1311.	6.6	42
43	Surface Attachment Enhances the Thermodynamic Stability of Proteinâ€...L. Angewandte Chemie - International Edition, 2019, 58, 1714-1718.	7.2	8
44	Exploiting the conformational-selection mechanism to control the response kinetics of a â€œsmartâ€• DNA hydrogel. Analyst, The, 2018, 143, 2531-2538.	1.7	17
45	Subsecond-Resolved Molecular Measurements in the Living Body Using Chronoamperometrically Interrogated Aptamer-Based Sensors. ACS Sensors, 2018, 3, 360-366.	4.0	98
46	Prolonged-access to cocaine induces distinct Homer2 DNA methylation, hydroxymethylation, and transcriptional profiles in the dorsomedial prefrontal cortex of Male Sprague-Dawley rats. Neuropharmacology, 2018, 143, 299-305.	2.0	9
47	High-Precision Control of Plasma Drug Levels Using Feedback-Controlled Dosing. ACS Pharmacology and Translational Science, 2018, 1, 110-118.	2.5	62
48	Chain Dynamics Limit Electron Transfer from Electrode-Bound, Single-Stranded Oligonucleotides. Journal of Physical Chemistry C, 2018, 122, 21441-21448.	1.5	25
49	Experimental Measurement of Surface Charge Effects on the Stability of a Surface-Bound Biopolymer. Langmuir, 2018, 34, 14993-14999.	1.6	14
50	Quantitative measurements of proteinâ˜surface interaction thermodynamics. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8352-8357.	3.3	17
51	Electrochemical Aptamer-Based Sensors for Rapid Point-of-Use Monitoring of the Mycotoxin Ochratoxin A Directly in a Food Stream. Molecules, 2018, 23, 912.	1.7	34
52	Electrochemical DNA-Based Sensors for Molecular Quality Control: Continuous, Real-Time Melamine Detection in Flowing Whole Milk. Analytical Chemistry, 2018, 90, 10641-10645.	3.2	60
53	Expanding the Scope of Protein-Detecting Electrochemical DNA â€œScaffoldâ€•Sensors. ACS Sensors, 2018, 3, 1271-1275.	4.0	37
54	Real-time measurement of small molecules directly in awake, ambulatory animals. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 645-650.	3.3	302

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55	Simulation-Based Approach to Determining Electron Transfer Rates Using Square-Wave Voltammetry. Langmuir, 2017, 33, 4407-4413.	1.6	50
56	A DNA Nanodevice That Loads and Releases a Cargo with Hemoglobin-Like Allosteric Control and Cooperativity. Nano Letters, 2017, 17, 3225-3230.	4.5	25
57	A Biomimetic Phosphatidylcholineâ€Terminated Monolayer Greatly Improves the In Vivo Performance of Electrochemical Aptamerâ€Based Sensors. Angewandte Chemie, 2017, 129, 7600-7603.	1.6	17
58	A Biomimetic Phosphatidylcholineâ€Terminated Monolayer Greatly Improves the In Vivo Performance of Electrochemical Aptamerâ€Based Sensors. Angewandte Chemie - International Edition, 2017, 56, 7492-7495.	7.2	112
59	High Surface Area Electrodes Generated via Electrochemical Roughening Improve the Signaling of Electrochemical Aptamer-Based Biosensors. Analytical Chemistry, 2017, 89, 12185-12191.	3.2	92
60	Calibration-Free Electrochemical Biosensors Supporting Accurate Molecular Measurements Directly in Undiluted Whole Blood. Journal of the American Chemical Society, 2017, 139, 11207-11213.	6.6	161
61	New Architecture for Reagentless, Protein-Based Electrochemical Biosensors. Journal of the American Chemical Society, 2017, 139, 12113-12116.	6.6	37
62	Experimental Measurement of the Thermodynamics Underlying the Surface-Induced Structural Changes of Nucleic Acids and Proteins. Biophysical Journal, 2016, 110, 211a.	0.2	0
63	Survey of Redox-Active Moieties for Application in Multiplexed Electrochemical Biosensors. Analytical Chemistry, 2016, 88, 10452-10458.	3.2	66
64	Using Natureâ€™s â€œTricksâ€•To Rationally Tune the Binding Properties of Biomolecular Receptors. Accounts of Chemical Research, 2016, 49, 1884-1892.	7.6	123
65	Dual-Reporter Drift Correction To Enhance the Performance of Electrochemical Aptamer-Based Sensors in Whole Blood. Journal of the American Chemical Society, 2016, 138, 15809-15812.	6.6	115
66	Maximizing the Signal Gain of Electrochemical-DNA Sensors. Analytical Chemistry, 2016, 88, 11654-11662.	3.2	90
67	Activity modulation and allosteric control of a scaffolded DNAzyme using a dynamic DNA nanostructure. Chemical Science, 2016, 7, 1200-1204.	3.7	56
68	A Modular, DNAâ€Based Beacon for Singleâ€Step Fluorescence Detection of Antibodies and Other Proteins. Angewandte Chemie - International Edition, 2015, 54, 13214-13218.	7.2	93
69	High-precision gigahertz-to-terahertz spectroscopy of aqueous salt solutions as a probe of the femtosecond-to-picosecond dynamics of liquid water. Journal of Chemical Physics, 2015, 142, 164502.	1.2	94
70	Random coil negative control reproduces the discrepancy between scattering and FRET measurements of denatured protein dimensions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6631-6636.	3.3	48
71	Integrated Electrochemical Microsystems for Genetic Detection of Pathogens at the Point of Care. Accounts of Chemical Research, 2015, 48, 911-920.	7.6	135
72	A comparison of the folding kinetics of a small, artificially selected DNA aptamer with those of equivalently simple naturally occurring proteins. Protein Science, 2014, 23, 56-66.	3.1	12

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73	Intrinsic disorder as a generalizable strategy for the rational design of highly responsive, allosterically cooperative receptors. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15048-15053.	3.3	69
74	Using the Populationâ€Shift Mechanism to Rationally Introduce â€œHillâ€typeâ€•Cooperativity into a Normally Nonâ€Cooperative Receptor. Angewandte Chemie - International Edition, 2014, 53, 9471-9475.	7.2	41
75	Effects of Crowding on the Stability of a Surface-Tethered Biopolymer: An Experimental Study of Folding in a Highly Crowded Regime. Journal of the American Chemical Society, 2014, 136, 8923-8927.	6.6	44
76	Principles for the Rational Design of Allosterically Cooperative Biomolecular Receptors. Biophysical Journal, 2014, 106, 614a.	0.2	0
77	Accurate Zygoteâ€Specific Discrimination of Singleâ€Nucleotide Polymorphisms Using Microfluidic Electrochemical DNA Melting Curves. Angewandte Chemie - International Edition, 2014, 53, 3163-3167.	7.2	29
78	Detection of IP-10 protein marker in undiluted blood serum via an electrochemical E-DNA scaffold sensor. Analyst, The, 2013, 138, 5580.	1.7	25
79	Thermodynamic Basis for Engineering High-Affinity, High-Specificity Binding-Induced DNA Clamp Nanoswitches. ACS Nano, 2013, 7, 10863-10869.	7.3	58
80	Real-Time, Aptamer-Based Tracking of Circulating Therapeutic Agents in Living Animals. Science Translational Medicine, 2013, 5, 213ra165.	5.8	291
81	Sequence and Temperature Dependence of the End-to-End Collision Dynamics of Single-Stranded DNA. Biophysical Journal, 2013, 104, 2485-2492.	0.2	20
82	Determinants of the Detection Limit and Specificity of Surface-Based Biosensors. Analytical Chemistry, 2013, 85, 6593-6597.	3.2	77
83	Allosterically Tunable, DNA-Based Switches Triggered by Heavy Metals. Journal of the American Chemical Society, 2013, 135, 13238-13241.	6.6	99
84	Electrochemical real-time nucleic acid amplification: towards point-of-care quantification of pathogens. Trends in Biotechnology, 2013, 31, 704-712.	4.9	63
85	Microfluidic Chip-Based Detection and Intraspecies Strain Discrimination of Salmonella Serovars Derived from Whole Blood of Septic Mice. Applied and Environmental Microbiology, 2013, 79, 2302-2311.	1.4	40
86	DNA biomolecular-electronic encoder and decoder devices constructed by multiplex biosensors. NPG Asia Materials, 2012, 4, e1-e1.	3.8	138
87	Biosensing with integrated CMOS nanopores. Proceedings of SPIE, 2012, , .	0.8	4
88	Engineering Biosensors with Extended, Narrowed, or Arbitrarily Edited Dynamic Range. Journal of the American Chemical Society, 2012, 134, 2876-2879.	6.6	135
89	Employing the Metabolic â€œBranch Point Effectâ€•to Generate an All-or-None, Digital-like Response in Enzymatic Outputs and Enzyme-Based Sensors. Analytical Chemistry, 2012, 84, 1076-1082.	3.2	41
90	Entropic and Electrostatic Effects on the Folding Free Energy of a Surface-Attached Biomolecule: An Experimental and Theoretical Study. Journal of the American Chemical Society, 2012, 134, 2120-2126.	6.6	47

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91	Rational Design of Allosteric Inhibitors and Activators Using the Population-Shift Model: In Vitro Validation and Application to an Artificial Biosensor. Journal of the American Chemical Society, 2012, 134, 15177-15180.	6.6	80
92	Small-Angle X-ray Scattering and Single-Molecule FRET Spectroscopy Produce Highly Divergent Views of the Low-Denaturant Unfolded State. Journal of Molecular Biology, 2012, 418, 226-236.	2.0	92
93	Wash-free, Electrochemical Platform for the Quantitative, Multiplexed Detection of Specific Antibodies. Analytical Chemistry, 2012, 84, 1098-1103.	3.2	64
94	Using Distal-Site Mutations and Allosteric Inhibition To Tune, Extend, and Narrow the Useful Dynamic Range of Aptamer-Based Sensors. Journal of the American Chemical Society, 2012, 134, 20601-20604.	6.6	132
95	Bioelectrochemical Switches for the Quantitative Detection of Antibodies Directly in Whole Blood. Journal of the American Chemical Society, 2012, 134, 15197-15200.	6.6	103
96	Quantification of Transcription Factor Binding in Cell Extracts Using an Electrochemical, Structure-Switching Biosensor. Journal of the American Chemical Society, 2012, 134, 3346-3348.	6.6	81
97	Rapid, Sensitive, and Quantitative Detection of Pathogenic DNA at the Point of Care through Microfluidic Electrochemical Quantitative Loopâ€Mediated Isothermal Amplification. Angewandte Chemie - International Edition, 2012, 51, 4896-4900.	7.2	230
98	Reâ€engineering Electrochemical Biosensors To Narrow or Extend Their Useful Dynamic Range. Angewandte Chemie - International Edition, 2012, 51, 6717-6721.	7.2	80
99	Probe accessibility effects on the performance of electrochemical biosensors employing DNA monolayers. Analytical and Bioanalytical Chemistry, 2012, 402, 413-421.	1.9	40
100	Dielectric Spectroscopy of Proteins as a Quantitative Experimental Test of Computational Models of Their Low-Frequency Harmonic Motions. Journal of the American Chemical Society, 2011, 133, 8942-8947.	6.6	96
101	CheapStat: An Open-Source, â€œDo-It-Yourselfâ€•Potentiostat for Analytical and Educational Applications. PLoS ONE, 2011, 6, e23783.	1.1	223
102	Electrochemical Biosensors Employing an Internal Electrode Attachment Site and Achieving Reversible, High Gain Detection of Specific Nucleic Acid Sequences. Analytical Chemistry, 2011, 83, 9462-9466.	3.2	60
103	Transcription Factor Beacons for the Quantitative Detection of DNA Binding Activity. Journal of the American Chemical Society, 2011, 133, 13836-13839.	6.6	79
104	Fabrication of Electrochemical-DNA Biosensors for the Reagentless Detection of Nucleic Acids, Proteins and Small Molecules. Journal of Visualized Experiments, 2011, , .	0.2	11
105	Switch-based biosensors: a new approach towards real-time, in vivo molecular detection. Trends in Biotechnology, 2011, 29, 1-5.	4.9	149
106	Polarityâ€Switching Electrochemical Sensor for Specific Detection of Singleâ€Nucleotide Mismatches. Angewandte Chemie - International Edition, 2011, 50, 11176-11180.	7.2	51
107	Twoâ€Step, PCRâ€Free Telomerase Detection by Using Exonuclease IIIâ€Aided Target Recycling. ChemBioChem, 2011, 12, 2745-2747.	1.3	48
108	Nanoporous silica colloidal films with molecular transport gated by aptamers responsive to small molecules. Collection of Czechoslovak Chemical Communications, 2011, 76, 683-694.	1.0	7

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109	High-Precision, In Vitro Validation of the Sequestration Mechanism for Generating Ultrasensitive Dose-Response Curves in Regulatory Networks. PLoS Computational Biology, 2011, 7, e1002171.	1.5	44
110	Principles of Biomolecular Recognition. , 2010, , 3-45.		13
111	Structure-switching biosensors: inspired by Nature. Current Opinion in Structural Biology, 2010, 20, 518-526.	2.6	163
112	The art of writing science. Protein Science, 2010, 19, 2261-2266.	3.1	25
113	Re-engineering aptamers to support reagentless, self-reporting electrochemical sensors. Analyst, The, 2010, 135, 589.	1.7	92
114	Detection of Telomerase Activity in High Concentration of Cell Lysates Using Primer-Modified Gold Nanoparticles. Journal of the American Chemical Society, 2010, 132, 15299-15307.	6.6	105
115	A Mechanistic Study of Electron Transfer from the Distal Termini of Electrode-Bound, Single-Stranded DNAs. Journal of the American Chemical Society, 2010, 132, 16120-16126.	6.6	56
116	An Electrochemical Supersandwich Assay for Sensitive and Selective DNA Detection in Complex Matrices. Journal of the American Chemical Society, 2010, 132, 14346-14348.	6.6	214
117	Universality in the Timescales of Internal Loop Formation in Unfolded Proteins and Single-Stranded Oligonucleotides. Biophysical Journal, 2010, 99, 3959-3968.	0.2	22
118	Sensitive and Selective Amplified Fluorescence DNA Detection Based on Exonuclease III-Aided Target Recycling. Journal of the American Chemical Society, 2010, 132, 1816-1818.	6.6	477
119	Colorimetric detection of DNA, small molecules, proteins, and ions using unmodified gold nanoparticles and conjugated polyelectrolytes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10837-10841.	3.3	505
120	Tracking a Molecular Motor with a Nanoscale Optical Encoder. Nano Letters, 2010, 10, 1022-1027.	4.5	11
121	Label-Free, Dual-Analyte Electrochemical Biosensors: A New Class of Molecular-Electronic Logic Gates. Journal of the American Chemical Society, 2010, 132, 8557-8559.	6.6	117
122	On the Binding of Cationic, Water-Soluble Conjugated Polymers to DNA: Electrostatic and Hydrophobic Interactions. Journal of the American Chemical Society, 2010, 132, 1252-1254.	6.6	82
123	Investigation of an Anomalously Accelerating Substitution in the Folding of a Prototypical Two-State Protein. Journal of Molecular Biology, 2010, 403, 446-458.	2.0	17
124	Reagentless Measurement of Aminoglycoside Antibiotics in Blood Serum via an Electrochemical, Ribonucleic Acid Aptamer-Based Biosensor. Analytical Chemistry, 2010, 82, 7090-7095.	3.2	160
125	Exploiting Binding-Induced Changes in Probe Flexibility for the Optimization of Electrochemical Biosensors. Analytical Chemistry, 2010, 82, 73-76.	3.2	125
126	Folding-Based Electrochemical Biosensors: The Case for Responsive Nucleic Acid Architectures. Accounts of Chemical Research, 2010, 43, 496-505.	7.6	452

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127	Quantitative, reagentless, single-step electrochemical detection of anti-DNA antibodies directly in blood serum. Chemical Communications, 2010, 46, 1742.	2.2	32
128	Synthesis of Extended Single-Molecule Optical Encoders. Biophysical Journal, 2010, 98, 623a.	0.2	0
129	Using Triplex-Forming Oligonucleotide Probes for the Reagentless, Electrochemical Detection of Double-Stranded DNA. Analytical Chemistry, 2010, 82, 9109-9115.	3.2	87
130	Biomimetic glass nanopores employing aptamer gates responsive to a small molecule. Chemical Communications, 2010, 46, 7984.	2.2	50
131	Measuring distances within unfolded biopolymers using fluorescence resonance energy transfer: The effect of polymer chain dynamics on the observed fluorescence resonance energy transfer efficiency. Journal of Chemical Physics, 2009, 131, 085105.	1.2	25
132	Engineering new aptamer geometries for electrochemical aptamer-based sensors. Proceedings of SPIE, 2009, 7321, 732105.	0.8	13
133	Protein Complexes: The Evolution ofÂSymmetry. Current Biology, 2009, 19, R25-R26.	1.8	22
134	Beyond Molecular Beacons: Optical Sensors Based on the Bindingâ€Induced Folding of Proteins and Polypeptides. Chemistry - A European Journal, 2009, 15, 2244-2251.	1.7	39
135	On the Signaling of Electrochemical Aptamerâ€Based Sensors: Collisionâ€•and Foldingâ€Based Mechanisms. Electroanalysis, 2009, 21, 1267-1271.	1.5	71
136	Fluorescence Detection of Singleâ€Nucleotide Polymorphisms with a Single, Selfâ€Complementary, Tripleâ€Stem DNA Probe. Angewandte Chemie - International Edition, 2009, 48, 4354-4358.	7.2	118
137	Surface chemistry effects on the performance of an electrochemical DNA sensor. Bioelectrochemistry, 2009, 76, 208-213.	2.4	86
138	Some recommendations for the practitioner to improve the precision of experimentally determined protein folding rates and Ï• values. Proteins: Structure, Function and Bioinformatics, 2009, 74, 461-474.	1.5	2
139	Optimization of a Reusable, DNA Pseudoknot-Based Electrochemical Sensor for Sequence-Specific DNA Detection in Blood Serum. Analytical Chemistry, 2009, 81, 656-661.	3.2	94
140	The Rate of Intramolecular Loop Formation in DNA and Polypeptides: The Absence of the Diffusion-Controlled Limit and Fractional Power-Law Viscosity Dependence. Journal of Physical Chemistry B, 2009, 113, 14026-14034.	1.2	25
141	An Electrochemical Sensor for the Detection of Proteinâ^'Small Molecule Interactions Directly in Serum and Other Complex Matrices. Journal of the American Chemical Society, 2009, 131, 6955-6957.	6.6	137
142	An Electrochemical Sensor for Single Nucleotide Polymorphism Detection in Serum Based on a Triple-Stem DNA Probe. Journal of the American Chemical Society, 2009, 131, 15311-15316.	6.6	171
143	Improving the Stability and Sensing of Electrochemical Biosensors by Employing Trithiol-Anchoring Groups in a Six-Carbon Self-Assembled Monolayer. Analytical Chemistry, 2009, 81, 1095-1100.	3.2	86
144	Thermodynamic basis for the optimization of binding-induced biomolecular switches and structure-switching biosensors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13802-13807.	3.3	146

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145	Non-Sequence-Specific Interactions Can Account for the Compaction of Proteins Unfolded under â€œNativeâ€•Conditions. Journal of Molecular Biology, 2009, 394, 343-350.	2.0	14
146	The Length and Viscosity Dependence of End-to-End Collision Rates in Single-Stranded DNA. Biophysical Journal, 2009, 97, 205-210.	0.2	34
147	Continuous, Real-Time Monitoring of Cocaine in Undiluted Blood Serum via a Microfluidic, Electrochemical Aptamer-Based Sensor. Journal of the American Chemical Society, 2009, 131, 4262-4266.	6.6	333
148	Comparing the Properties of Electrochemical-Based DNA Sensors Employing Different Redox Tags. Analytical Chemistry, 2009, 81, 9109-9113.	3.2	152
149	High Specificity, Electrochemical Sandwich Assays Based on Single Aptamer Sequences and Suitable for the Direct Detection of Small-Molecule Targets in Blood and Other Complex Matrices. Journal of the American Chemical Society, 2009, 131, 6944-6945.	6.6	391
150	Effects of Probe Length, Probe Geometry, and Redox-Tag Placement on the Performance of the Electrochemical E-DNA Sensor. Analytical Chemistry, 2009, 81, 2150-2158.	3.2	112
151	A general electrochemical method for label-free screening of proteinâ€“small molecule interactions. Chemical Communications, 2009, , 6222.	2.2	35
152	Reagentless, Electrochemical Approach for the Specific Detection of Double- and Single-Stranded DNA Binding Proteins. Analytical Chemistry, 2009, 81, 1608-1614.	3.2	72
153	Electrochemical Approaches to Aptamer-Based Sensing. , 2009, , 179-197.		4
154	E-DNA sensors for convenient, label-free electrochemical detection of hybridization. Mikrochimica Acta, 2008, 163, 149-155.	2.5	97
155	Optimization of Electrochemical Aptamer-Based Sensors via Optimization of Probe Packing Density and Surface Chemistry. Langmuir, 2008, 24, 10513-10518.	1.6	278
156	Label-Free SERS Detection of Small Proteins Modified to Act as Bifunctional Linkers. Journal of Physical Chemistry C, 2008, 112, 4880-4883.	1.5	96
157	Microfluidic Device Architecture for Electrochemical Patterning and Detection of Multiple DNA Sequences. Langmuir, 2008, 24, 1102-1107.	1.6	77
158	Studying protein dynamics in aqueous solutions through linear and non-linear THz spectroscopy. , 2008, , .		0
159	2P-115 DNA Dynamics in Solution and on Metal Surface(The 46th Annual Meeting of the Biophysical) Tj ETQq1 1 0.784314 rgBT /Ove	0.0	0
160	THz SPECTROSCOPY OF PROTEINS IN WATER: DIRECT ABSORPTION AND CIRCULAR DICHROISM. Selected Topics in Electornics and Systems, 2008, , 81-90.	0.2	0
161	THz SPECTROSCOPY OF PROTEINS IN WATER: DIRECT ABSORPTION AND CIRCULAR DICHROISM. International Journal of High Speed Electronics and Systems, 2007, 17, 709-718.	0.3	2
162	0.15â€“3.72THz absorption of aqueous salts and saline solutions. Applied Physics Letters, 2007, 90, 031908.	1.5	25

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