

# Emil Palecek

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8407660/publications.pdf>

Version: 2024-02-01

206  
papers

10,933  
citations

28242

55  
h-index

38368

95  
g-index

213  
all docs

213  
docs citations

213  
times ranked

4646  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bovine Serum Albumin Catalysed Hydrogen and Deuterium Evolution at Mercury Electrodes. <i>ChemPlusChem</i> , 2020, 85, 1596-1601.	1.3	0
2	Interfacial properties of p53-DNA complexes containing various recognition elements. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113300.	1.9	2
3	Distinguishing the glycan isomers 2,3-sialyllactose and 2,6-sialyllactose by voltammetry after modification with osmium(VI) complexes. <i>Analytica Chimica Acta</i> , 2019, 1067, 56-62.	2.6	7
4	Catalytic Deuterium Evolution and H/D Exchange in DNA. <i>ChemElectroChem</i> , 2019, 6, 1032-1039.	1.7	5
5	Adsorption/desorption of biomacromolecules involved in catalytic hydrogen evolution. <i>Bioelectrochemistry</i> , 2018, 120, 87-93.	2.4	9
6	Modification of a Mercury Electrode with Different Thioalkanes: Structure-sensitive Bovine Serum Albumin Analysis. <i>ChemElectroChem</i> , 2018, 5, 1373-1379.	1.7	7
7	Intrinsic Electrocatalysis in DNA. <i>ChemElectroChem</i> , 2018, 5, 936-942.	1.7	11
8	J. Heyrovský's Oscillographic Polarography. Roots of Present Chronopotentiometric Analysis of Biomacromolecules. <i>Electroanalysis</i> , 2018, 30, 1259-1270.	1.5	14
9	Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 33-41.	2.5	3
10	Immunoassays of chemically modified polysaccharides, glycans in glycoproteins and ribose in nucleic acids. <i>Analytica Chimica Acta</i> , 2017, 955, 108-115.	2.6	7
11	Electrochemical analysis of Os(VI)-modified glycoproteins and label-free glycoprotein detection eluted from lectin capillary column. <i>Electrochimica Acta</i> , 2017, 239, 10-15.	2.6	11
12	Label-free chronopotentiometric glycoprofiling of prostate specific antigen using sialic acid recognizing lectins. <i>Bioelectrochemistry</i> , 2017, 117, 89-94.	2.4	33
13	Voltammetric and chronopotentiometric protein structure-sensitive analysis. <i>Electrochimica Acta</i> , 2017, 224, 211-219.	2.6	8
14	Label-free electrochemical analysis of biomacromolecules. <i>Applied Materials Today</i> , 2017, 9, 434-450.	2.3	35
15	Distinguishing glycan isomers by voltammetry. Modification of 2,3-sialyllactose and 2,6-sialyllactose by osmium(VI) complexes. <i>Electrochemistry Communications</i> , 2017, 85, 19-22.	2.3	11
16	Electrochemical sensing of concanavalin A and ovalbumin interaction in solution. <i>Analytica Chimica Acta</i> , 2016, 935, 97-103.	2.6	18
17	Protein Structure-sensitive Analysis by Normal Pulse Voltammetry. <i>Electroanalysis</i> , 2016, 28, 2884-2889.	1.5	6
18	Label-free electrochemical analysis of chitosan and glucosamine-containing oligosaccharides. <i>Electrochimica Acta</i> , 2016, 187, 375-380.	2.6	17

#	ARTICLE	IF	CITATIONS
19	Label-free electrochemical detection of singlet oxygen protein damage. <i>Electrochimica Acta</i> , 2016, 187, 662-669.	2.6	27
20	Lysine, Arginine, and Histidine Residues in Peptide-Catalyzed Hydrogen Evolution at Mercury Electrodes. <i>Electroanalysis</i> , 2015, 27, 910-916.	1.5	24
21	Fast-scan cyclic voltammetry with thiol-modified mercury electrodes distinguishes native from denatured BSA. <i>Electrochemistry Communications</i> , 2015, 61, 114-116.	2.3	19
22	Electrochemistry of Nonconjugated Proteins and Glycoproteins. Toward Sensors for Biomedicine and Glycomics. <i>Chemical Reviews</i> , 2015, 115, 2045-2108.	23.0	273
23	Protein structural transition at negatively charged electrode surfaces. Effects of temperature and current density. <i>Electrochimica Acta</i> , 2015, 174, 356-360.	2.6	33
24	Can voltammetry distinguish glycan isomers?. <i>Chemical Papers</i> , 2015, 69, .	1.0	7
25	Direct chemical modification and voltammetric detection of glycans in glycoproteins. <i>Electrochemistry Communications</i> , 2014, 48, 52-55.	2.3	26
26	Chitosan catalyzes hydrogen evolution at mercury electrodes. <i>Electrochemistry Communications</i> , 2014, 44, 59-62.	2.3	33
27	Magnetic bead-based hybridization assay for electrochemical detection of microRNA. <i>Analytica Chimica Acta</i> , 2014, 813, 35-40.	2.6	56
28	Effect of His6-tagging of anterior gradient 2 protein on its electro-oxidation. <i>Electrochimica Acta</i> , 2014, 150, 218-222.	2.6	18
29	Electrochemical sensing of tumor suppressor protein p53-deoxyribonucleic acid complex stability at an electrified interface. <i>Analytica Chimica Acta</i> , 2014, 828, 1-8.	2.6	37
30	Electrochemical sensing of 2D condensation in amyloid peptides. <i>Electrochimica Acta</i> , 2013, 106, 43-48.	2.6	16
31	Catalysis of Hydrogen Evolution by Polylysine, Polyarginine and Polyhistidine at Mercury Electrodes. <i>Electroanalysis</i> , 2013, 25, 2130-2135.	1.5	29
32	Os(VI)bipy-based electrochemical assay for detection of specific microRNAs as potential cancer biomarkers. <i>Electrochemistry Communications</i> , 2013, 33, 55-58.	2.3	39
33	Electrochemical reduction and oxidation signals of angiotensin peptides. Role of individual amino acid residues. <i>Electrochemistry Communications</i> , 2013, 31, 80-83.	2.3	39
34	Enzymatic activity and catalytic hydrogen evolution in reduced and oxidized urease at mercury surfaces. <i>Analytica Chimica Acta</i> , 2013, 789, 41-46.	2.6	14
35	Modification of Poly- and Oligosaccharides with Os(VI)pyridine. Voltammetry of the Os(VI) Adducts Obtained by Ligand Exchange. <i>Electroanalysis</i> , 2013, 25, 1813-1817.	1.5	18
36	Preferential Binding of Hot Spot Mutant p53 Proteins to Supercoiled DNA In Vitro and in Cells. <i>PLoS ONE</i> , 2013, 8, e59567.	1.1	34

#	ARTICLE	IF	CITATIONS
37	Electrochemistry of Nucleic Acids. <i>Chemical Reviews</i> , 2012, 112, 3427-3481.	23.0	583
38	Native and denatured forms of proteins can be discriminated at edge plane carbon electrodes. <i>Analytica Chimica Acta</i> , 2012, 735, 31-36.	2.6	39
39	Electrochemical detection of 5-methylcytosine in bisulfite-treated DNA. <i>Electrochimica Acta</i> , 2012, 78, 75-81.	2.6	19
40	Biophysical properties and cellular toxicity of covalent crosslinked oligomers of $\alpha$ -synuclein formed by photoinduced side-chain tyrosyl radicals. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1004-1015.	1.3	48
41	Simple protein structure-sensitive chronopotentiometric analysis with dithiothreitol-modified Hg electrodes. <i>Bioelectrochemistry</i> , 2012, 87, 84-88.	2.4	14
42	Voltammetric determination of Os(VI)-modified oligosaccharides at nanomolar level. <i>Bioelectrochemistry</i> , 2012, 88, 8-14.	2.4	16
43	Oxidative Modification of Alpha-Synuclein Modifies its Cytotoxicity. <i>Biophysical Journal</i> , 2012, 102, 254a.	0.2	0
44	Electrocatalysis in proteins, nucleic acids and carbohydrates. <i>Chemical Record</i> , 2012, 12, 27-45.	2.9	49
45	Electrocatalytic Monitoring of Metal Binding and Mutation-Induced Conformational Changes in p53 at Picomole Level. <i>Journal of the American Chemical Society</i> , 2011, 133, 7190-7196.	6.6	69
46	Electrocatalytic detection of polysaccharides at picomolar concentrations. <i>Analyst, The</i> , 2011, 136, 321-326.	1.7	26
47	On the mechanism of hydrogen evolution catalysis by proteins: A case study with bovine serum albumin. <i>Electrochimica Acta</i> , 2011, 56, 9337-9343.	2.6	30
48	Ternary monolayers as DNA recognition interfaces for direct and sensitive electrochemical detection in untreated clinical samples. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3577-3583.	5.3	110
49	Square Wave Stripping Voltammetry of Unlabeled Single- and Double-Stranded DNAs. <i>Electroanalysis</i> , 2011, 23, 1311-1319.	1.5	16
50	Early stage of nucleic acid electrochemistry. Detection of DNA damage in X-ray-irradiated rats. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 1799-1810.	1.0	4
51	Polylysine-Catalyzed Hydrogen Evolution at Mercury Electrodes. <i>Electroanalysis</i> , 2010, 22, 2064-2070.	1.5	29
52	Voltammetry of Os(VI)-Modified Polysaccharides. <i>Electroanalysis</i> , 2010, 22, 1837-1845.	1.5	25
53	Facile end-labeling of RNA with electroactive Os(VI) complexes. <i>Electrochemistry Communications</i> , 2010, 12, 1760-1763.	2.3	31
54	Electrochemical sensing of proteins and carbohydrates. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	Electrochemical nucleic acid-based biosensors: Concepts, terms, and methodology (IUPAC Technical) Tj ETQq1 1 0.784314 rgBT/Ove	0.9	200
56	Fabrication and Characterization of Solid Mercury Amalgam Electrodes for Protein Analysis. Analytical Chemistry, 2010, 82, 2690-2695.	3.2	56
57	Protein Structure-Sensitive Electrocatalysis at Dithiothreitol-Modified Electrodes. Journal of the American Chemical Society, 2010, 132, 9408-9413.	6.6	67
58	Detection of Abasic Sites in DNA by Electrochemical, Immunochemical and Acoustic Methods Using OsO <sub>4</sub> , 2,2'-bipyridine as a Probe for Unpaired Thymine Residues. Electroanalysis, 2009, 21, 295-302.	1.5	17
59	Fifty Years of Nucleic Acid Electrochemistry. Electroanalysis, 2009, 21, 239-251.	1.5	86
60	Electrochemical Renewal of Stationary Mercury Drop or Meniscus Electrodes. Electroanalysis, 2009, 21, 625-630.	1.5	3
61	Voltammetry of Os(VI)-Modified Polysaccharides at Carbon Electrodes. Electroanalysis, 2009, 21, 1763-1766.	1.5	37
62	Electrochemistry of riboflavin-binding protein and its interaction with riboflavin. Bioelectrochemistry, 2009, 76, 70-75.	2.4	23
63	End-labeling of peptide nucleic acid with osmium complex. Voltammetry at carbon and mercury electrodes. Electrochemistry Communications, 2009, 11, 359-362.	2.3	30
64	Constant current chronopotentiometric stripping of sulphated polysaccharides. Electrochemistry Communications, 2009, 11, 2032-2035.	2.3	26
65	Electrochemical DNA Detection Based on the Polyhedral Boron Cluster Label. Analytical Chemistry, 2009, 81, 840-844.	3.2	39
66	Potential-dependent surface denaturation of BSA in acid media. Analyst, The, 2009, 134, 2076.	1.7	46
67	Ionic strength-dependent structural transition of proteins at electrode surfaces. Chemical Communications, 2009, , 1685.	2.2	53
68	Electrochemical Determination of Thioredoxin Redox States. Analytical Chemistry, 2009, 81, 1543-1548.	3.2	39
69	Polarographic Roots of Present Electrochemistry of Proteins and Nucleic Acids. Review of Polarography, 2009, 55, 1-4.	0.0	1
70	From DC polarographic presodium wave of proteins to electrochemistry of biomacromolecules. Collection of Czechoslovak Chemical Communications, 2009, 74, 1739-1755.	1.0	18
71	Constant Current Chronopotentiometry and Voltammetry of Native and Denatured Serum Albumin at Mercury and Carbon Electrodes. Electroanalysis, 2008, 20, 1406-1413.	1.5	38
72	Native, denatured and reduced BSA. Electrochimica Acta, 2008, 53, 4014-4021.	2.6	37

#	ARTICLE	IF	CITATIONS
73	The cell type-specific effect of TAp73 isoforms on the cell cycle and apoptosis. Cellular and Molecular Biology Letters, 2008, 13, 404-20.	2.7	12
74	Changes in interfacial properties of Î±-synuclein preceding its aggregation. Analyst, The, 2008, 133, 76-84.	1.7	77
75	Label-Free Electrochemical Monitoring of DNA Ligase Activity. Analytical Chemistry, 2008, 80, 7609-7613.	3.2	17
76	Osmium Tetroxide, 2,2'-Bipyridine: Electroactive Marker for Probing Accessibility of Tryptophan Residues in Proteins. Analytical Chemistry, 2008, 80, 4598-4605.	3.2	29
77	Electrochemical Stripping Techniques in Analysis of Nucleic Acids and their Constituents. Current Analytical Chemistry, 2008, 4, 250-262.	0.6	50
78	DNA topology influences p53 sequence-specific DNA binding through structural transitions within the target sites. Biochemical Journal, 2008, 412, 57-63.	1.7	33
79	Magnetic beads as versatile tools for electrochemical DNA and protein biosensing. Talanta, 2007, 74, 276-290.	2.9	218
80	â€œMulticolorâ€•Electrochemical Labeling of DNA Hybridization Probes with Osmium Tetroxide Complexes. Analytical Chemistry, 2007, 79, 1022-1029.	3.2	78
81	Covalent Labeling of Nucleosides with VIII- and VI-Valent Osmium Complexes. Electroanalysis, 2007, 19, 1281-1287.	1.5	48
82	Voltammetry of Osmium End-Labeled Oligodeoxynucleotides at Carbon, Mercury, and Gold Electrodes. Electroanalysis, 2007, 19, 1334-1338.	1.5	33
83	Electroactivity of Nonconjugated Proteins and Peptides. Towards Electroanalysis of All Proteins. Electroanalysis, 2007, 19, 2383-2403.	1.5	98
84	Chronopotentiometric Determination of Redox States of Peptides. Electroanalysis, 2007, 19, 2405-2412.	1.5	27
85	Label-free voltammetric detection of single-nucleotide mismatches recognized by the protein MutS. Analytical and Bioanalytical Chemistry, 2007, 388, 259-270.	1.9	40
86	Searching for target sequences by p53 protein is influenced by DNA length. Biochemical and Biophysical Research Communications, 2006, 341, 470-477.	1.0	18
87	Echinomycin and cobalt-phenanthroline as redox indicators of DNA hybridization at gold electrodes. Frontiers in Bioscience - Landmark, 2006, 11, 1870.	3.0	29
88	Native and denatured bovine serum albumin. D.c. polarography, stripping voltammetry and constant current chronopotentiometry. Journal of Electroanalytical Chemistry, 2006, 593, 172-178.	1.9	71
89	Self-Assembled Monolayers of Thiol-End-Labeled DNA at Mercury Electrodes. Langmuir, 2006, 22, 6481-6484.	1.6	45
90	Voltammetric Behavior of Osmium-Labeled DNA at Mercury Meniscus-Modified Solid Amalgam Electrodes. Detecting DNA Hybridization. Electroanalysis, 2006, 18, 186-194.	1.5	62

#	ARTICLE	IF	CITATIONS
91	Sequestering of p53 into DNA-protein filaments revealed by electron microscopy. <i>Biophysical Chemistry</i> , 2005, 114, 261-271.	1.5	4
92	Electrochemical Responses of Thiolated Oligodeoxynucleotides in Cobalt-Containing Solutions. <i>Electroanalysis</i> , 2005, 17, 1413-1420.	1.5	15
93	Electroactivity of Proteins: Possibilities in Biomedicine and Proteomics. <i>Perspectives in Bioanalysis</i> , 2005, 1, 689-750.	0.3	5
94	Electrochemistry of Nucleic Acids. <i>Perspectives in Bioanalysis</i> , 2005, 1, 73-173.	0.3	48
95	Methods in Proteomics. <i>Perspectives in Bioanalysis</i> , 2005, , 751-754.	0.3	3
96	Polarography of DNA. Retrospective View. <i>Perspectives in Bioanalysis</i> , 2005, 1, 1-16.	0.3	4
97	DNA Hybridization on Membrane-Modified Carbon Electrodes. <i>Analytical Letters</i> , 2005, 38, 2493-2507.	1.0	10
98	Polarography of Proteins: A History. <i>Perspectives in Bioanalysis</i> , 2005, , 755-771.	0.3	8
99	Use of DNA Repair Enzymes in Electrochemical Detection of Damage to DNA Bases in Vitro and in Cells. <i>Analytical Chemistry</i> , 2005, 77, 2920-2927.	3.2	50
100	Electrochemical DNA Sensors. , 2005, , 127-192.		27
101	Enhancement of p53 sequence-specific binding by DNA supercoiling. <i>Oncogene</i> , 2004, 23, 2119-2127.	2.6	37
102	Surface-attached molecular beacons light the way for DNA sequencing. <i>Trends in Biotechnology</i> , 2004, 22, 55-58.	4.9	45
103	Microanalysis of DNA by stripping transfer voltammetry. <i>Bioelectrochemistry</i> , 2004, 63, 249-252.	2.4	26
104	Multiply osmium-labeled reporter probes for electrochemical DNA hybridization assays: detection of trinucleotide repeats. <i>Biosensors and Bioelectronics</i> , 2004, 20, 985-994.	5.3	63
105	Electroactivity of Avidin and Streptavidin. Avidin Signals at Mercury and Carbon Electrodes Respond to Biotin Binding. <i>Electroanalysis</i> , 2004, 16, 1139-1148.	1.5	52
106	Sensitive Electrochemical Detection of Native and Aggregated $\alpha$ -Synuclein Protein Involved in Parkinson's Disease. <i>Electroanalysis</i> , 2004, 16, 1172-1181.	1.5	88
107	Voltammetric behavior of DNA modified with osmium tetroxide 2,2'-bipyridine at mercury electrodes. <i>Bioelectrochemistry</i> , 2004, 63, 239-243.	2.4	40
108	Electrochemical Detection of DNA Triplet Repeat Expansion. <i>Journal of the American Chemical Society</i> , 2004, 126, 6532-6533.	6.6	90

#	ARTICLE	IF	CITATIONS
109	Sensitive Electrochemical Determination of Unlabeled MutS Protein and Detection of Point Mutations in DNA. <i>Analytical Chemistry</i> , 2004, 76, 5930-5936.	3.2	98
110	Activation of the DNA-binding ability of latent p53 protein by protein kinase C is abolished by protein kinase CK2. <i>Biochemical Journal</i> , 2004, 378, 939-947.	1.7	33
111	Recognition of DNA modified by antitumor cisplatin by "latent" and "active" protein p53. <i>Biochemical Pharmacology</i> , 2003, 65, 1305-1316.	2.0	22
112	Role of tumor suppressor p53 domains in selective binding to supercoiled DNA. <i>Nucleic Acids Research</i> , 2002, 30, 4966-4974.	6.5	57
113	Electrochemistry of Nucleic Acids and Development of DNA Sensors. <i>Critical Reviews in Analytical Chemistry</i> , 2002, 32, 261-270.	1.8	157
114	Geoffrey Cecil Barker 1915-2000. <i>Talanta</i> , 2002, 56, 805-806.	2.9	3
115	Past, present and future of nucleic acids electrochemistry. <i>Talanta</i> , 2002, 56, 809-819.	2.9	261
116	Label-Free Determination of Picogram Quantities of DNA by Stripping Voltammetry with Solid Copper Amalgam or Mercury Electrodes in the Presence of Copper. <i>Analytical Chemistry</i> , 2002, 74, 4788-4793.	3.2	165
117	New ELISA technique for analysis of p53 protein/DNA binding properties. <i>Journal of Immunological Methods</i> , 2002, 267, 227-235.	0.6	56
118	Use of Solid Amalgam Electrodes in Nucleic Acid Analysis. <i>Electroanalysis</i> , 2002, 14, 1488-1493.	1.5	69
119	Electrode potential-controlled DNA damage in the presence of copper ions and their complexes. <i>Bioelectrochemistry</i> , 2002, 55, 25-27.	2.4	25
120	Determination of glutathione-S-transferase traces in preparations of p53 C-terminal domain (aa320-393). <i>Bioelectrochemistry</i> , 2002, 55, 115-118.	2.4	19
121	Determination of nanogram quantities of osmium-labeled single stranded DNA by differential pulse stripping voltammetry. <i>Bioelectrochemistry</i> , 2002, 55, 119-121.	2.4	52
122	Cyclic voltammetry of echinomycin and its interaction with double-stranded and single-stranded DNA adsorbed at the electrode. <i>Bioelectrochemistry</i> , 2002, 55, 165-167.	2.4	99
123	Differential pulse adsorptive stripping voltammetry of osmium-modified peptides. <i>Bioelectrochemistry</i> , 2002, 56, 63-66.	2.4	26
124	[Not Available]. <i>Talanta</i> , 2002, 56, 807.	2.9	0
125	Binding of p53 and its core domain to supercoiled DNA. <i>FEBS Journal</i> , 2001, 268, 573-581.	0.2	34
126	The "Presodium" Catalysis of Electroreduction of Hydrogen Ions on Mercury Electrodes by Metallothionein. An Investigation by Constant Current Derivative Stripping Chronopotentiometry. <i>Electroanalysis</i> , 2000, 12, 274-279.	1.5	69

#	ARTICLE	IF	CITATIONS
127	Voltammetric and Chronopotentiometric Measurements with Nucleic Acid-Modified Mercury Film on a Glassy Carbon Electrode. <i>Electroanalysis</i> , 2000, 12, 1390-1396.	1.5	26
128	Mercury Film Electrode as a Sensor for the Detection of DNA Damage. <i>Electroanalysis</i> , 2000, 12, 1422-1425.	1.5	36
129	Electrode potential-modulated cleavage of surface-confined DNA by hydroxyl radicals detected by an electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2000, 15, 107-115.	5.3	67
130	Specific Modulation of p53 Binding to Consensus Sequence within Supercoiled DNA by Monoclonal Antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 934-939.	1.0	29
131	The $\alpha$ -Presodium-Catalysis of Electroreduction of Hydrogen Ions on Mercury Electrodes by Metallothionein. An Investigation by Constant Current Derivative Stripping Chronopotentiometry. <i>Electroanalysis</i> , 2000, 12, 274-279.	1.5	1
132	Effect of p53 Protein Redox States on Binding to Supercoiled and Linear DNA. <i>Journal of Biological Chemistry</i> , 1999, 274, 25749-25755.	1.6	44
133	Reduction and oxidation of peptide nucleic acid and DNA at mercury and carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999, 476, 71-80.	1.9	88
134	Real-time monitoring of enzymatic cleavage of nucleic acids using a quartz crystal microbalance. <i>Bioelectrochemistry</i> , 1999, 48, 477-480.	1.0	51
135	Effect of transition metals on binding of p53 protein to supercoiled DNA and to consensus sequence in DNA fragments. <i>Oncogene</i> , 1999, 18, 3617-3625.	2.6	63
136	Cleavage of Supercoiled DNA by Deoxyribonuclease I in Solution and at the Electrode Surface. <i>Electroanalysis</i> , 1999, 11, 1005-1012.	1.5	47
137	DNA bending due to specific p53 and p53 core domain-DNA interactions visualized by electron microscopy. <i>Journal of Molecular Biology</i> , 1999, 294, 1015-1026.	2.0	48
138	Methods for direct determination of mitomycin C in aqueous solutions and in urine. <i>Biological Procedures Online</i> , 1998, 1, 100-106.	1.4	2
139	Constant Current Chronopotentiometric Stripping Analysis of Bioactive Peptides at Mercury and Carbon Electrodes. <i>Electroanalysis</i> , 1998, 10, 403-409.	1.5	101
140	Electrochemical biosensors for DNA hybridization and DNA damage. <i>Biosensors and Bioelectronics</i> , 1998, 13, 621-628.	5.3	273
141	Analysis of a curved DNA constructed from alternating dAn:dTn-tracts in linear and supercoiled form by high resolution chemical probing. <i>Biophysical Chemistry</i> , 1998, 73, 205-216.	1.5	10
142	Interactions of antitumor drug daunomycin with DNA in solution and at the surface. <i>Bioelectrochemistry</i> , 1998, 45, 33-40.	1.0	163
143	Two Superhelix Density-Dependent DNA Transitions Detected by Changes in DNA Adsorption/Desorption Behavior. <i>Biochemistry</i> , 1998, 37, 4853-4862.	1.2	44
144	Tumor suppressor protein p53 binds preferentially to supercoiled DNA. <i>Oncogene</i> , 1997, 15, 2201-2209.	2.6	82

#	ARTICLE	IF	CITATIONS
145	Adsorptive stripping square-wave voltammetry of DNA. <i>Journal of Electroanalytical Chemistry</i> , 1997, 423, 141-148.	1.9	96
146	Voltammetry of native double-stranded, denatured and degraded DNAs. <i>Journal of Electroanalytical Chemistry</i> , 1997, 427, 49-56.	1.9	90
147	Adsorption and detection of peptide nucleic acids at carbon paste electrodes. <i>Electroanalysis</i> , 1997, 9, 120-124.	1.5	37
148	Chronopotentiometric stripping of DNA at mercury electrodes. <i>Electroanalysis</i> , 1997, 9, 990-997.	1.5	51
149	Supercoiled DNA-modified mercury electrode: A highly sensitive tool for the detection of DNA damage. <i>Analytica Chimica Acta</i> , 1997, 342, 1-12.	2.6	123
150	Electrochemical analysis of formation of polynucleotide complexes in solution and at electrode surfaces. <i>Analytica Chimica Acta</i> , 1997, 344, 65-76.	2.6	51
151	Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor. <i>Analytica Chimica Acta</i> , 1997, 344, 111-118.	2.6	135
152	Peptide Nucleic Acid Probes for Sequence-Specific DNA Biosensors. <i>Journal of the American Chemical Society</i> , 1996, 118, 7667-7670.	6.6	367
153	From polarography of DNA to microanalysis with nucleic acid-modified electrodes. <i>Electroanalysis</i> , 1996, 8, 7-14.	1.5	317
154	Evaluation of different carbon electrodes for adsorptive stripping analysis of nucleic acids. <i>Electroanalysis</i> , 1996, 8, 753-758.	1.5	83
155	Trace measurements of insulin by potentiometric stripping analysis at carbon paste electrodes. <i>Electroanalysis</i> , 1996, 8, 902-906.	1.5	23
156	Potentiometric stripping analysis of bioactive peptides at carbon electrodes down to subnanomolar concentrations. <i>Analytica Chimica Acta</i> , 1996, 332, 49-57.	2.6	82
157	Trace measurements of plasmid DNAs by adsorptive stripping potentiometry at carbon paste electrodes. <i>Bioelectrochemistry</i> , 1996, 40, 41-47.	1.0	69
158	Effect of Flanking Sequences on the Right- to Left- Handed Transition of a (dA-dT) <sub>n</sub> Tract in Supercoiled DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 1996, 13, 1007-1014.	2.0	6
159	Complex of Osmium Tetroxide with 1,10-Phenanthroline Binds Covalently to Double-Stranded DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 1995, 13, 537-546.	2.0	11
160	Trace Measurements of RNA by Potentiometric Stripping Analysis at Carbon Paste Electrodes. <i>Analytical Chemistry</i> , 1995, 67, 4065-4070.	3.2	162
161	Differential Pulsed Voltammetric Determination of RNA at the Picomole Level in the Presence of DNA and Nucleic Acid Components. <i>Analytical Chemistry</i> , 1994, 66, 1566-1571.	3.2	97
162	Cyclic Voltammetry of Submicrogram Quantities of Supercoiled, Linear and Denatured DNAs with DNA-Modified Mercury Electrode. <i>Journal of Biomolecular Structure and Dynamics</i> , 1993, 11, 313-331.	2.0	34

#	ARTICLE	IF	CITATIONS
163	[17] Probing of DNA structure in cells with osmium tetroxide-2,2'-bipyridine. <i>Methods in Enzymology</i> , 1992, 212, 305-318.	0.4	30
164	[8] Probing DNA structure with osmium tetroxide complexes in vitro. <i>Methods in Enzymology</i> , 1992, 212, 139-155.	0.4	113
165	Adsorptive transfer stripping voltammetry: effect of electrode potential on the structure of DNA adsorbed at the mercury surface. <i>Journal of Electroanalytical Chemistry</i> , 1992, 343, 71-83.	1.9	14
166	Adsorptive transfer stripping voltammetry: Effect of electrode potential on the structure of DNA adsorbed at the mercury surface. <i>Bioelectrochemistry</i> , 1992, 28, 71-83.	1.0	57
167	Probing of DNA structure with osmium tetroxide,2,2'-bipyridine. Adduct-specific antibodies. <i>Nucleic Acids Research</i> , 1991, 19, 6811-6817.	6.5	19
168	Probing of DNA structure with osmium tetroxide. <i>Biophysical Chemistry</i> , 1989, 34, 63-68.	1.5	15
169	Adsorptive transfer stripping voltammetry: Determination of nanogram quantities of DNA immobilized at the electrode surface. <i>Analytical Biochemistry</i> , 1988, 170, 421-431.	1.1	144
170	New trends in electrochemical analysis of nucleic acids. <i>Bioelectrochemistry</i> , 1988, 20, 179-194.	1.0	72
171	New trends in electrochemical analysis of nucleic acids. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 254, 179-194.	0.3	2
172	Site-Specific Chemical Modification of B-Z Junctions in Supercoiled DNA as Detected by Nuclease S1 Digestion, Inhibition of Restriction Cleavage and Nucleotide Sequencing. <i>Journal of Biomolecular Structure and Dynamics</i> , 1988, 6, 261-273.	2.0	15
173	Unusual Protonated Structure in the Homopurine · Homopyrimidine Tract of Supercoiled and Linearized Plasmids Recognized by Chemical Probes. <i>Journal of Biomolecular Structure and Dynamics</i> , 1987, 5, 283-296.	2.0	31
174	Reduction and tensammetric pulse-polarographic currents of polynucleotides. <i>Collection of Czechoslovak Chemical Communications</i> , 1987, 52, 2810-2818.	1.0	11
175	Electrochemical behaviour of biological macromolecules. <i>Bioelectrochemistry</i> , 1986, 15, 275-295.	1.0	106
176	Cyclic voltammetry of nucleic acids and determination of submicrogram quantities of deoxyribonucleic acids by adsorptive stripping voltammetry. <i>Analytica Chimica Acta</i> , 1986, 187, 99-107.	2.6	48
177	Adsorptive stripping voltammetry of biomacromolecules with transfer of the adsorbed layer. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986, 214, 359-371.	0.3	168
178	(A-T)tracts embedded in random sequence DNA " formation of a structure which is chemically reactive and torsionally deformable. <i>Nucleic Acids Research</i> , 1986, 14, 9291-9309.	6.5	113
179	Determination of pseudouridine at submicromolar concentrations by cathodic stripping voltammetry at a mercury electrode. <i>Analytica Chimica Acta</i> , 1985, 174, 103-113.	2.6	41
180	Recognition of the Structural Distortions at the Junctions Between B and Z Segments in Negatively Supercoiled DNA by Osmium Tetroxide. <i>Journal of Biomolecular Structure and Dynamics</i> , 1985, 3, 467-478.	2.0	56

#	ARTICLE	IF	CITATIONS
181	Osmium tetroxide: a new probe for site-specific distortions in supercoiled DNAs. <i>Nucleic Acids Research</i> , 1984, 12, 1725-1736.	6.5	49
182	Interactions of methylated adenine derivatives with the mercury electrode. <i>Analytical Chemistry</i> , 1982, 54, 1389-1394.	3.2	74
183	Electrochemical analysis of polynucleotides. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1981, 128, 497-506.	0.3	3
184	444 â€” Electrochemical analysis of polynucleotides. <i>Bioelectrochemistry</i> , 1981, 8, 497-506.	1.0	54
185	Polarographic behaviour of double-helical DNA containing intramolecular single stranded regions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1980, 116, 671-684.	0.3	0
186	366 - Polarographie Behaviour of Double-Helical DNA Containing Intramolecular Single Stranded Regions. <i>Bioelectrochemistry</i> , 1980, 7, 671-684.	1.0	9
187	Salt-induced conformational changes of poly(dA-dT). <i>Nucleic Acids Research</i> , 1980, 8, 3965-3974.	6.5	54
188	Reaction of nucleic acid bases with the mercury electrode: determination of submicromolar concentrations of pyrimidine bases by means of cathodic stripping voltammetry. <i>Collection of Czechoslovak Chemical Communications</i> , 1980, 45, 3472-3481.	1.0	41
189	Reactions of bases of nucleic acids with mercury electrode. anodic pulse-polarographic currents of pyrimidine bases and their derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , 1980, 45, 3460-3471.	1.0	30
190	Absence of unwinding of double-helical DNA in the surface of mercury electrode charged to DNA reduction potentials at neutral pH. <i>Collection of Czechoslovak Chemical Communications</i> , 1979, 44, 448-455.	1.0	17
191	Interactions of nucleic acids with electrically charged surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1978, 88, 373-385.	0.3	31
192	Changes in properties of DNA caused by gamma and ultraviolet radiation. Dependence of conformational changes on the chemical nature of the damage. <i>Nucleic Acids and Protein Synthesis</i> , 1978, 517, 308-318.	1.7	19
193	Pulse-polarographic analysis of nucleic acids and proteins. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1977, 75, 471-485.	0.3	20
194	Interaction of nucleic acids with electrically charged surfaces. <i>Biophysical Chemistry</i> , 1976, 4, 79-92.	1.5	147
195	A Study of Changes in DNA Conformation Caused by Ionizing and Ultra-violet Radiation by Means of Pulse Polarography and Circular Dichroism. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1974, 26, 363-372.	1.0	24
196	Structural transitions of polyadenylic acid due to protonation: the influence of the length of single strands on the polarographic behaviour of the double-helical form. <i>Nucleic Acids Research</i> , 1974, 1, 427-442.	6.5	11
197	Pulse-polarographic analysis of double-stranded RNA. <i>Analytical Biochemistry</i> , 1974, 60, 518-530.	1.1	25
198	Estimation of submicrogram quantities of proteins in nucleic acids samples by pulse-polarographic technique. <i>Nucleic Acids and Protein Synthesis</i> , 1973, 331, 276-282.	1.7	16

#	ARTICLE	IF	CITATIONS
199	Correlation between polarographic reducibility and circular dichroism of DNA at submelting temperatures. <i>Biochemical and Biophysical Research Communications</i> , 1972, 47, 1262-1269.	1.0	17
200	[1] Nucleic acid structure analysis by polarographic techniques. <i>Methods in Enzymology</i> , 1971, , 3-24.	0.4	21
201	The reducibility of polynucleotides and their a.c. polarographic behaviour. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1970, 27, 145-150.	0.3	18
202	Conformational changes in the region of the ends of the DNA molecule at premelting temperatures. <i>FEBS Letters</i> , 1970, 7, 38-40.	1.3	7
203	A simple oscillographic technique for recognition and estimation of denatured deoxyribonucleic acids. <i>Biochimica Et Biophysica Acta (BBA) - Biophysics Including Photosynthesis</i> , 1965, 94, 293-301.	2.3	25
204	Polarographic behavior of cytosine and some of its derivatives. <i>Archives of Biochemistry and Biophysics</i> , 1964, 105, 225-236.	1.4	73
205	Polarographic behavior of cytosine. <i>Archives of Biochemistry and Biophysics</i> , 1962, 98, 527-528.	1.4	47
206	Oscillographic Polarography of Highly Polymerized Deoxyribonucleic Acid. <i>Nature</i> , 1960, 188, 656-657.	13.7	301