

# LudÅk Havran

## List of Publications by Year in descending order

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79  
papers

3,058  
citations

109137

35  
h-index

161609

54  
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83  
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83  
docs citations

83  
times ranked

1611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Voltammetric sensing of glycans modified by osmium(VI)ligand complexes. The influence of N-acetyl neuraminic acid. <i>Electrochimica Acta</i> , 2021, 369, 137658.	2.6	3
2	Carborane- or Metallacarborane-Linked Nucleotides for Redox Labeling. Orthogonal Multipotential Coding of all Four DNA Bases for Electrochemical Analysis and Sequencing. <i>Journal of the American Chemical Society</i> , 2021, 143, 7124-7134.	6.6	37
3	Vicinal Diolâ€Tethered Nucleobases as Targets for DNA Redox Labeling with Osmate Complexes. <i>ChemBioChem</i> , 2020, 21, 171-180.	1.3	6
4	Tuning of Oxidation Potential of Ferrocene for Ratiometric Redox Labeling and Coding of Nucleotides and DNA. <i>Chemistry - A European Journal</i> , 2020, 26, 1286-1291.	1.7	33
5	Simple Electrochemical Characterization of ortho â€Carborane and some of its exo â€Skeletal Derivatives. <i>Electroanalysis</i> , 2020, 32, 1859-1866.	1.5	2
6	Fast enzyme-linked electrochemical sensing of DNA hybridization at pencil graphite electrodes. Application to detect gene deletion in a human cell culture. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 113951.	1.9	3
7	Voltammetric behavior of a candidate anticancer drug roscovitine at carbon electrodes in aqueous buffers and a cell culture medium. <i>Monatshefte FÃ¼r Chemie</i> , 2019, 150, 461-467.	0.9	7
8	Butylacrylateâ€Nucleobase Conjugates as Targets for Twoâ€Step Redox Labeling of DNA with an Osmium Tetroxide Complex. <i>Electroanalysis</i> , 2018, 30, 371-377.	1.5	3
9	Phenothiazine-linked nucleosides and nucleotides for redox labelling of DNA. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6984-6996.	1.5	13
10	Protein p53 Binding to Cisplatinâ€Modified DNA Targets Evaluated by Modificationâ€Specific Electrochemical Immunoprecipitation Assay. <i>Electroanalysis</i> , 2017, 29, 319-323.	1.5	3
11	Voltammetric analysis of 5-(4-Azidophenyl)-2â€deoxycytidine nucleoside and azidophenyl-labelled single- and double-stranded DNAs. <i>Electrochimica Acta</i> , 2016, 215, 72-83.	2.6	9
12	Hydrogen Evolution Facilitates Reduction of DNA Guanine Residues at the Hanging Mercury Drop Electrode: Evidence for a Chemical Mechanism. <i>Electroanalysis</i> , 2016, 28, 2785-2790.	1.5	13
13	Electrochemical behavior of 7-deazaguanine- and 7-deazaadenine-modified DNA at the hanging mercury drop electrode. <i>Monatshefte FÃ¼r Chemie</i> , 2016, 147, 3-11.	0.9	4
14	Recent progress in electrochemical sensors and assays for DNA damage and repair. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 160-167.	5.8	113
15	Interactions of fluorescent dye SYBR Green I with natural and 7-deazaguanine-modified DNA studied by fluorescence and electrochemical methods. <i>Monatshefte FÃ¼r Chemie</i> , 2016, 147, 13-20.	0.9	5
16	Electrochemical Activity of Wedelolactone and Probing its Interaction with DNA Using Voltammetry at a Carbon Electrode. <i>Electroanalysis</i> , 2015, 27, 2268-2271.	1.5	5
17	G-quadruplex-based structural transitions in 15-mer DNA oligonucleotides varying in lengths of internal oligo(dG) stretches detected by voltammetric techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5817-5826.	1.9	15
18	Biophysical and electrochemical studies of proteinâ€Nucleic acid interactions. <i>Monatshefte FÃ¼r Chemie</i> , 2015, 146, 723-739.	0.9	12

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19	Electrochemical behavior of anthraquinone- and nitrophenyl-labeled deoxynucleoside triphosphates: a contribution to development of multipotential redox labeling of DNA. <i>Monatshefte für Chemie</i> , 2015, 146, 839-847.	0.9	8
20	Enzyme-linked electrochemical detection of DNA fragments amplified by PCR in the presence of a biotinylated deoxynucleoside triphosphate using disposable pencil graphite electrodes. <i>Monatshefte für Chemie</i> , 2015, 146, 849-855.	0.9	7
21	Azidophenyl as a click-transformable redox label of DNA suitable for electrochemical detection of DNA-protein interactions. <i>Chemical Science</i> , 2015, 6, 575-587.	3.7	57
22	Voltammetric Study of dsDNA Modified by Multi-redox Label Based on N-methyl-4-hydrazino-7-nitrobenzofurazan. <i>Electrochimica Acta</i> , 2014, 129, 348-357.	2.6	16
23	Methoxyphenol and Dihydrobenzofuran as Oxidizable Labels for Electrochemical Detection of DNA. <i>ChemPlusChem</i> , 2014, 79, 1703-1712.	1.3	9
24	Electrochemical detection of DNA binding by tumor suppressor p53 protein using osmium-labeled oligonucleotide probes and catalytic hydrogen evolution at the mercury electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5843-5852.	1.9	15
25	Electrochemical behaviour of 2,4-dinitrophenylhydraz(o)ne as multi-redox centre DNA label at mercury meniscus modified silver solid amalgam electrode. <i>Electrochimica Acta</i> , 2014, 126, 122-131.	2.6	16
26	Aqueous Heck Cross-Coupling Preparation of Acrylate-Modified Nucleotides and Nucleoside Triphosphates for Polymerase Synthesis of Acrylate-Labeled DNA. <i>Journal of Organic Chemistry</i> , 2013, 78, 9627-9637.	1.7	32
27	Polymerase synthesis of oligonucleotides containing a single chemically modified nucleobase for site-specific redox labelling. <i>Chemical Communications</i> , 2013, 49, 4652.	2.2	31
28	Benzofurazane as a New Redox Label for Electrochemical Detection of DNA: Towards Multipotential Redox Coding of DNA Bases. <i>Chemistry - A European Journal</i> , 2013, 19, 12720-12731.	1.7	54
29	Synthesis of Hydrazone-Modified Nucleotides and Their Polymerase Incorporation onto DNA for Redox Labeling. <i>ChemPlusChem</i> , 2012, 77, 652-662.	1.3	24
30	Tail-labelling of DNA probes using modified deoxynucleotide triphosphates and terminal deoxynucleotidyl transferase. Application in electrochemical DNA hybridization and protein-DNA binding assays. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1366.	1.5	59
31	Osmium Tetroxide Complexes as Versatile Tools for Structure Probing and Electrochemical Analysis of Biopolymers. <i>Current Analytical Chemistry</i> , 2011, 7, 35-50.	0.6	29
32	Sensing mispaired thymines in DNA heteroduplexes using an electroactive osmium marker: towards electrochemical SNP probing. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 197-204.	1.9	14
33	Alkylsulfanylphenyl Derivatives of Cytosine and 7-Deazaadenine Nucleosides, Nucleotides and Nucleoside Triphosphates: Synthesis, Polymerase Incorporation to DNA and Electrochemical Study. <i>Chemistry - A European Journal</i> , 2011, 17, 5833-5841.	1.7	40
34	Anthraquinone as a Redox Label for DNA: Synthesis, Enzymatic Incorporation, and Electrochemistry of Anthraquinone-Modified Nucleosides, Nucleotides, and DNA. <i>Chemistry - A European Journal</i> , 2011, 17, 14063-14073.	1.7	59
35	Redox Labels and Indicators Based on Transition Metals and Organic Electroactive Moieties for Electrochemical Nucleic Acids Sensing. <i>Current Organic Chemistry</i> , 2011, 15, 2936-2949.	0.9	19
36	A label-free electrochemical test for DNA-binding activities of tumor suppressor protein p53 using immunoprecipitation at magnetic beads. <i>Analytica Chimica Acta</i> , 2010, 668, 166-170.	2.6	25

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37	Determination of the Level of DNA Modification with Cisplatin by Catalytic Hydrogen Evolution at Mercury-Based Electrodes. <i>Analytical Chemistry</i> , 2010, 82, 2969-2976.	3.2	24
38	Base-Modified DNA Labeled by [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> and [Os(bpy) <sub>3</sub> ] <sup>2+</sup> Complexes: Construction by Polymerase Incorporation of Modified Nucleoside Triphosphates, Electrochemical and Luminescent Properties, and Applications. <i>Chemistry - A European Journal</i> , 2009, 15, 1144-1154.	1.7	96
39	Tetrathiafulvalene-Labelled Nucleosides and Nucleoside Triphosphates: Synthesis, Electrochemistry and the Scope of Their Polymerase Incorporation into DNA. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3519-3525.	1.2	25
40	Ex situ Voltammetry and Chronopotentiometry of Doxorubicin at a Pyrolytic Graphite Electrode: Redox and Catalytic Properties and Analytical Applications. <i>Electroanalysis</i> , 2009, 21, 2139-2144.	1.5	43
41	The reduction of doxorubicin at a mercury electrode and monitoring its interaction with DNA using constant current chronopotentiometry. <i>Collection of Czechoslovak Chemical Communications</i> , 2009, 74, 1727-1738.	1.0	14
42	Sensitive voltammetric detection of DNA damage at carbon electrodes using DNA repair enzymes and an electroactive osmium marker. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1751-1758.	1.9	27
43	Aminophenyl- and Nitrophenyl-Labeled Nucleoside Triphosphates: Synthesis, Enzymatic Incorporation, and Electrochemical Detection. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2059-2062.	7.2	131
44	Effect of Spin-Orbit Coupling on Reduction Potentials of Octahedral Ruthenium(II/III) and Osmium(II/III) Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 10947-10954.	6.6	50
45	Osmium Tetroxide, 2,2'-Bipyridine: Electroactive Marker for Probing Accessibility of Tryptophan Residues in Proteins. <i>Analytical Chemistry</i> , 2008, 80, 4598-4605.	3.2	29
46	Electrochemical Stripping Techniques in Analysis of Nucleic Acids and their Constituents. <i>Current Analytical Chemistry</i> , 2008, 4, 250-262.	0.6	50
47	Novel base-functionalized DNA. Efficient methodology for construction and bioanalytical applications. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 53-54.	0.3	0
48	Aminophenyl- and nitrophenyl-labeled DNA. Synthesis by polymerase incorporation of nucleoside triphosphates and electrochemical properties. , 2008, , .		0
49	Multicolor-Electrochemical Labeling of DNA Hybridization Probes with Osmium Tetroxide Complexes. <i>Analytical Chemistry</i> , 2007, 79, 1022-1029.	3.2	78
50	Ferrocenylethynyl Derivatives of Nucleoside Triphosphates: Synthesis, Incorporation, Electrochemistry, and Bioanalytical Applications. <i>Chemistry - A European Journal</i> , 2007, 13, 9527-9533.	1.7	117
51	Purines Bearing Phenanthroline or Bipyridine Ligands and Their Rull Complexes in Position 8 as Model Compounds for Electrochemical DNA Labeling - Synthesis, Crystal Structure, Electrochemistry, Quantum Chemical Calculations, Cytostatic and Antiviral Activity. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1752-1769.	1.0	45
52	Covalent Labeling of Nucleosides with VIII- and VI-Valent Osmium Complexes. <i>Electroanalysis</i> , 2007, 19, 1281-1287.	1.5	48
53	Electrochemical monitoring of phytochelatin accumulation in <i>Nicotiana tabacum</i> cells exposed to sub-cytotoxic and cytotoxic levels of cadmium. <i>Analytica Chimica Acta</i> , 2006, 558, 171-178.	2.6	35
54	Voltammetric Behavior of Osmium-Labeled DNA at Mercury Meniscus-Modified Solid Amalgam Electrodes. Detecting DNA Hybridization. <i>Electroanalysis</i> , 2006, 18, 186-194.	1.5	62

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55	Use of Polished and Mercury Film-Modified Silver Solid Amalgam Electrodes in Electrochemical Analysis of DNA. <i>Electroanalysis</i> , 2005, 17, 452-459.	1.5	64
56	DNA Hybridization on Membrane-Modified Carbon Electrodes. <i>Analytical Letters</i> , 2005, 38, 2493-2507.	1.0	10
57	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
58	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
59	Voltammetric behavior of DNA modified with osmium tetroxide 2,2'-bipyridine at mercury electrodes. <i>Bioelectrochemistry</i> , 2004, 63, 239-243.	2.4	40
60	Voltammetry of osmium-modified DNA at a mercury film electrode. <i>Bioelectrochemistry</i> , 2004, 63, 245-248.	2.4	32
61	Electrochemical Detection of DNA Triplet Repeat Expansion. <i>Journal of the American Chemical Society</i> , 2004, 126, 6532-6533.	6.6	90
62	Two-Surface Strategy in Electrochemical DNA Hybridization Assays: Detection of Osmium-Labeled Target DNA at Carbon Electrodes. <i>Electroanalysis</i> , 2003, 15, 431-440.	1.5	85
63	Voltammetric microanalysis of DNA adducts with osmium tetroxide,2,2'-bipyridine using a pyrolytic graphite electrode. <i>Talanta</i> , 2002, 56, 867-874.	2.9	79
64	Voltammetry of two single-stranded isomeric end-labeled -SH deoxyoligonucleotides on mercury electrodes. <i>Talanta</i> , 2002, 56, 915-918.	2.9	12
65	DNA hybridization at microbeads with cathodic stripping voltammetric detection. <i>Talanta</i> , 2002, 56, 919-930.	2.9	103
66	Electrode potential-controlled DNA damage in the presence of copper ions and their complexes. <i>Bioelectrochemistry</i> , 2002, 55, 25-27.	2.4	25
67	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
68	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
69	Electrochemical enzyme-linked immunoassay in a DNA hybridization sensor. <i>Analytica Chimica Acta</i> , 2002, 469, 73-83.	2.6	123
70	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
71	Adsorptive Transfer Stripping AC Voltammetry of DNA Complexes with Intercalators. <i>Electroanalysis</i> , 2000, 12, 926-934.	1.5	58
72	Adsorptive Stripping Voltammetry of Denatured DNA on Hg/Ag Electrode. <i>Electroanalysis</i> , 2000, 12, 960-962.	1.5	21

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73	Mercury Film Electrode as a Sensor for the Detection of DNA Damage. <i>Electroanalysis</i> , 2000, 12, 1422-1425.	1.5	36
74	The "Presodium" Catalysis of Electroreduction of Hydrogen Ions on Mercury Electrodes by Metallothionein. An Investigation by Constant Current Derivative Stripping Chronopotentiometry. , 2000, 12, 274.		1
75	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
76	Constant Current Chronopotentiometric Stripping Analysis of Bioactive Peptides at Mercury and Carbon Electrodes. <i>Electroanalysis</i> , 1998, 10, 403-409.	1.5	101
77	Two Superhelix Density-Dependent DNA Transitions Detected by Changes in DNA Adsorption/Desorption Behavior. <i>Biochemistry</i> , 1998, 37, 4853-4862.	1.2	44
78	Chronopotentiometric stripping of DNA at mercury electrodes. <i>Electroanalysis</i> , 1997, 9, 990-997.	1.5	51
79	Chronopotentiometric detection of DNA strand breaks with mercury electrodes modified with supercoiled DNA. <i>Electroanalysis</i> , 1997, 9, 1033-1034.	1.5	31