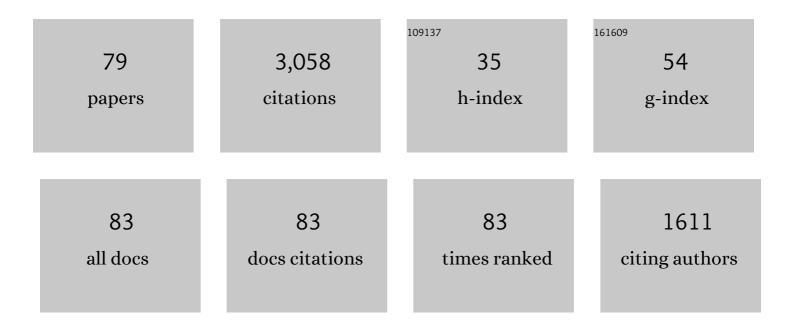
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1348701/publications.pdf Version: 2024-02-01



| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Aminophenyl―and Nitrophenyl‣abeled Nucleoside Triphosphates: Synthesis, Enzymatic Incorporation,<br>and Electrochemical Detection. Angewandte Chemie - International Edition, 2008, 47, 2059-2062.  | 7.2 | 131       |
| 2  | Electrochemical enzyme-linked immunoassay in a DNA hybridization sensor. Analytica Chimica Acta, 2002, 469, 73-83.  | 2.6 | 123       |
| 3  | Ferrocenylethynyl Derivatives of Nucleoside Triphosphates: Synthesis, Incorporation,<br>Electrochemistry, and Bioanalytical Applications. Chemistry - A European Journal, 2007, 13, 9527-9533.  | 1.7 | 117       |
| 4  | Recent progress in electrochemical sensors and assays for DNA damage and repair. TrAC - Trends in<br>Analytical Chemistry, 2016, 79, 160-167.   | 5.8 | 113       |
| 5  | DNA hybridization at microbeads with cathodic stripping voltammetric detection. Talanta, 2002, 56, 919-930.   | 2.9 | 103       |
| 6  | Constant Current Chronopotentiometric Stripping Analysis of Bioactive Peptides at Mercury and<br>Carbon Electrodes. Electroanalysis, 1998, 10, 403-409.   | 1.5 | 101       |
| 7  | Baseâ€Modified DNA Labeled by [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> and<br>[Os(bpy) <sub>3</sub> ] <sup>2+</sup> Complexes: Construction by Polymerase Incorporation of<br>Modified Nucleoside Triphosphates, Electrochemical and Luminescent Properties, and Applications.<br>Chemistry - A European Journal, 2009, 15, 1144-1154. | 1.7 | 96        |
| 8  | Electrochemical Detection of DNA Triplet Repeat Expansion. Journal of the American Chemical Society, 2004, 126, 6532-6533.  | 6.6 | 90        |
| 9  | Reduction and oxidation of peptide nucleic acid and DNA at mercury and carbon electrodes. Journal of Electroanalytical Chemistry, 1999, 476, 71-80.   | 1.9 | 88        |
| 10 | Two-Surface Strategy in Electrochemical DNA Hybridization Assays: Detection of Osmium-Labeled Target DNA at Carbon Electrodes. Electroanalysis, 2003, 15, 431-440.  | 1.5 | 85        |
| 11 | Voltammetric microanalysis of DNA adducts with osmium tetroxide,2,2′-bipyridine using a pyrolytic<br>graphite electrode. Talanta, 2002, 56, 867-874.  | 2.9 | 79        |
| 12 | "Multicolor―Electrochemical Labeling of DNA Hybridization Probes with Osmium Tetroxide<br>Complexes. Analytical Chemistry, 2007, 79, 1022-1029.   | 3.2 | 78        |
| 13 | The "Presodium―Catalysis of Electroreduction of Hydrogen Ions on Mercury Electrodes by<br>Metallothionein. An Investigation by Constant Current Derivative Stripping Chronopotentiometry.<br>Electroanalysis, 2000, 12, 274-279.  | 1.5 | 69        |
| 14 | Use of Polished and Mercury Film-Modified Silver Solid Amalgam Electrodes in Electrochemical<br>Analysis of DNA. Electroanalysis, 2005, 17, 452-459.  | 1.5 | 64        |
| 15 | Multiply osmium-labeled reporter probes for electrochemical DNA hybridization assays: detection of trinucleotide repeats. Biosensors and Bioelectronics, 2004, 20, 985-994.   | 5.3 | 63        |
| 16 | Voltammetric Behavior of Osmium-Labeled DNA at Mercury Meniscus-Modified Solid Amalgam<br>Electrodes. Detecting DNA Hybridization. Electroanalysis, 2006, 18, 186-194.  | 1.5 | 62        |
| 17 | Tail-labelling of DNA probes using modified deoxynucleotide triphosphates and terminal<br>deoxynucleotidyl tranferase. Application in electrochemical DNA hybridization and protein-DNA<br>binding assays. Organic and Biomolecular Chemistry, 2011, 9, 1366.   | 1.5 | 59        |
| 18 | Anthraquinone as a Redox Label for DNA: Synthesis, Enzymatic Incorporation, and Electrochemistry of Anthraquinoneâ€Modified Nucleosides, Nucleotides, and DNA. Chemistry - A European Journal, 2011, 17, 14063-14073.   | 1.7 | 59        |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Adsorptive Transfer Stripping AC Voltammetry of DNA Complexes with Intercalators. Electroanalysis, 2000, 12, 926-934.  | 1.5 | 58        |
| 20 | Azidophenyl as a click-transformable redox label of DNA suitable for electrochemical detection of DNA–protein interactions. Chemical Science, 2015, 6, 575-587.  | 3.7 | 57        |
| 21 | Benzofurazane as a New Redox Label for Electrochemical Detection of DNA: Towards Multipotential<br>Redox Coding of DNA Bases. Chemistry - A European Journal, 2013, 19, 12720-12731.   | 1.7 | 54        |
| 22 | Determination of nanogram quantities of osmium-labeled single stranded DNA by differential pulse stripping voltammetry. Bioelectrochemistry, 2002, 55, 119-121.  | 2.4 | 52        |
| 23 | Electroactivity of Avidin and Streptavidin. Avidin Signals at Mercury and Carbon Electrodes Respond to Biotin Binding. Electroanalysis, 2004, 16, 1139-1148.   | 1.5 | 52        |
| 24 | Chronopotentiometric stripping of DNA at mercury electrodes. Electroanalysis, 1997, 9, 990-997.  | 1.5 | 51        |
| 25 | Effect of Spinâ^'Orbit Coupling on Reduction Potentials of Octahedral Ruthenium(II/III) and<br>Osmium(II/III) Complexes. Journal of the American Chemical Society, 2008, 130, 10947-10954.   | 6.6 | 50        |
| 26 | Electrochemical Stripping Techniques in Analysis of Nucleic Acids and their Constituents. Current<br>Analytical Chemistry, 2008, 4, 250-262.   | 0.6 | 50        |
| 27 | Covalent Labeling of Nucleosides with VIII- and VI-Valent Osmium Complexes. Electroanalysis, 2007, 19, 1281-1287.  | 1.5 | 48        |
| 28 | Purines Bearing Phenanthroline or Bipyridine Ligands and Their Rull Complexes in Position 8 as Model<br>Compounds for Electrochemical DNA Labeling – Synthesis, Crystal Structure, Electrochemistry,<br>Quantum Chemical Calculations, Cytostatic and Antiviral Activity. European Journal of Inorganic<br>Chemistry, 2007, 2007, 1752-1769. | 1.0 | 45        |
| 29 | Two Superhelix Density-Dependent DNA Transitions Detected by Changes in DNA<br>Adsorption/Desorption Behavior. Biochemistry, 1998, 37, 4853-4862.  | 1.2 | 44        |
| 30 | Ex situ Voltammetry and Chronopotentiometry of Doxorubicin at a Pyrolytic Graphite Electrode:<br>Redox and Catalytic Properties and Analytical Applications. Electroanalysis, 2009, 21, 2139-2144.   | 1.5 | 43        |
| 31 | Voltammetric behavior of DNA modified with osmium tetroxide 2,2′-bipyridine at mercury electrodes.<br>Bioelectrochemistry, 2004, 63, 239-243.  | 2.4 | 40        |
| 32 | Alkylsulfanylphenyl Derivatives of Cytosine and 7â€Đeazaadenine Nucleosides, Nucleotides and<br>Nucleoside Triphosphates: Synthesis, Polymerase Incorporation to DNA and Electrochemical Study.<br>Chemistry - A European Journal, 2011, 17, 5833-5841.  | 1.7 | 40        |
| 33 | Carborane- or Metallacarborane-Linked Nucleotides for Redox Labeling. Orthogonal Multipotential<br>Coding of all Four DNA Bases for Electrochemical Analysis and Sequencing. Journal of the American<br>Chemical Society, 2021, 143, 7124-7134.  | 6.6 | 37        |
| 34 | Mercury Film Electrode as a Sensor for the Detection of DNA Damage. Electroanalysis, 2000, 12, 1422-1425.  | 1.5 | 36        |
| 35 | Electrochemical monitoring of phytochelatin accumulation in Nicotiana tabacum cells exposed to sub-cytotoxic and cytotoxic levels of cadmium. Analytica Chimica Acta, 2006, 558, 171-178.  | 2.6 | 35        |
| 36 | Tuning of Oxidation Potential of Ferrocene for Ratiometric Redox Labeling and Coding of Nucleotides and DNA. Chemistry - A European Journal, 2020, 26, 1286-1291.  | 1.7 | 33        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Voltammetry of osmium-modified DNA at a mercury film electrode. Bioelectrochemistry, 2004, 63, 245-248.   | 2.4 | 32        |
| 38 | Aqueous Heck Cross-Coupling Preparation of Acrylate-Modified Nucleotides and Nucleoside<br>Triphosphates for Polymerase Synthesis of Acrylate-Labeled DNA. Journal of Organic Chemistry, 2013,<br>78, 9627-9637.                                    | 1.7 | 32        |
| 39 | Chronopotentiometric detection of DNA strand breaks with mercury electrodes modified with supercoiled DNA. Electroanalysis, 1997, 9, 1033-1034.   | 1.5 | 31        |
| 40 | Polymerase synthesis of oligonucleotides containing a single chemically modified nucleobase for site-specific redox labelling. Chemical Communications, 2013, 49, 4652.   | 2.2 | 31        |
| 41 | Osmium Tetroxide, 2,2′-Bipyridine: Electroactive Marker for Probing Accessibility of Tryptophan<br>Residues in Proteins. Analytical Chemistry, 2008, 80, 4598-4605.   | 3.2 | 29        |
| 42 | Osmium Tetroxide Complexes as Versatile Tools for Structure Probing and Electrochemical Analysis of Biopolymers. Current Analytical Chemistry, 2011, 7, 35-50.  | 0.6 | 29        |
| 43 | Sensitive voltammetric detection of DNA damage at carbon electrodes using DNA repair enzymes and an electroactive osmium marker. Analytical and Bioanalytical Chemistry, 2008, 391, 1751-1758.  | 1.9 | 27        |
| 44 | Electrode potential-controlled DNA damage in the presence of copper ions and their complexes.<br>Bioelectrochemistry, 2002, 55, 25-27.  | 2.4 | 25        |
| 45 | Tetrathiafulvalene‣abelled Nucleosides and Nucleoside Triphosphates: Synthesis, Electrochemistry<br>and the Scope of Their Polymerase Incorporation into DNA. European Journal of Organic Chemistry,<br>2009, 2009, 3519-3525.                      | 1.2 | 25        |
| 46 | A label-free electrochemical test for DNA-binding activities of tumor suppressor protein p53 using immunoprecipitation at magnetic beads. Analytica Chimica Acta, 2010, 668, 166-170.   | 2.6 | 25        |
| 47 | Determination of the Level of DNA Modification with Cisplatin by Catalytic Hydrogen Evolution at Mercury-Based Electrodes. Analytical Chemistry, 2010, 82, 2969-2976.   | 3.2 | 24        |
| 48 | Synthesis of Hydrazoneâ€Modified Nucleotides and Their Polymerase Incorporation onto DNA for Redox<br>Labeling. ChemPlusChem, 2012, 77, 652-662.  | 1.3 | 24        |
| 49 | Adsorptive Stripping Voltammetry of Denatured DNA on Hg/Ag Electrode. Electroanalysis, 2000, 12, 960-962.   | 1.5 | 21        |
| 50 | Determination of glutathione-S-transferase traces in preparations of p53 C-terminal domain<br>(aa320–393). Bioelectrochemistry, 2002, 55, 115-118.  | 2.4 | 19        |
| 51 | Redox Labels and Indicators Based on Transition Metals and Organic Electroactive Moieties for Electrochemical Nucleic Acids Sensing. Current Organic Chemistry, 2011, 15, 2936-2949.  | 0.9 | 19        |
| 52 | Voltammetric Study of dsDNA Modified by Multi-redox Label Based on<br>N-methyl-4-hydrazino-7-nitrobenzofurazan. Electrochimica Acta, 2014, 129, 348-357.  | 2.6 | 16        |
| 53 | Electrochemical behaviour of 2,4-dinitrophenylhydrazi(o)ne as multi-redox centre DNA label at<br>mercury meniscus modified silver solid amalgam electrode. Electrochimica Acta, 2014, 126, 122-131.   | 2.6 | 16        |
| 54 | Electrochemical detection of DNA binding by tumor suppressor p53 protein using osmium-labeled<br>oligonucleotide probes and catalytic hydrogen evolution at the mercury electrode. Analytical and<br>Bioanalytical Chemistry, 2014, 406, 5843-5852. | 1.9 | 15        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | G-quadruplex-based structural transitions in 15-mer DNA oligonucleotides varying in lengths of internal oligo(dG) stretches detected by voltammetric techniques. Analytical and Bioanalytical Chemistry, 2015, 407, 5817-5826.          | 1.9 | 15        |
| 56 | The reduction of doxorubicin at a mercury electrode and monitoring its interaction with DNA using constant current chronopotentiometry. Collection of Czechoslovak Chemical Communications, 2009, 74, 1727-1738.                        | 1.0 | 14        |
| 57 | Sensing mispaired thymines in DNA heteroduplexes using an electroactive osmium marker: towards electrochemical SNP probing. Analytical and Bioanalytical Chemistry, 2011, 400, 197-204.   | 1.9 | 14        |
| 58 | Hydrogen Evolution Facilitates Reduction of DNA Guanine Residues at the Hanging Mercury Drop<br>Electrode: Evidence for a Chemical Mechanism. Electroanalysis, 2016, 28, 2785-2790.   | 1.5 | 13        |
| 59 | Phenothiazine-linked nucleosides and nucleotides for redox labelling of DNA. Organic and<br>Biomolecular Chemistry, 2017, 15, 6984-6996.  | 1.5 | 13        |
| 60 | Voltammetry of two single-stranded isomeric end-labeled –SH deoxyoligonucleotides on mercury electrodes. Talanta, 2002, 56, 915-918.  | 2.9 | 12        |
| 61 | Biophysical and electrochemical studies of protein–nucleic acid interactions. Monatshefte Für<br>Chemie, 2015, 146, 723-739.  | 0.9 | 12        |
| 62 | DNA Hybridization on Membraneâ€Modified Carbon Electrodes. Analytical Letters, 2005, 38, 2493-2507.   | 1.0 | 10        |
| 63 | Methoxyphenol and Dihydrobenzofuran as Oxidizable Labels for Electrochemical Detection of DNA.<br>ChemPlusChem, 2014, 79, 1703-1712.  | 1.3 | 9         |
| 64 | Voltammetric analysis of 5-(4-Azidophenyl)-2′-deoxycytidine nucleoside and azidophenyl-labelled single-<br>and double-stranded DNAs. Electrochimica Acta, 2016, 215, 72-83.   | 2.6 | 9         |
| 65 | Electrochemical behavior of anthraquinone- and nitrophenyl-labeled deoxynucleoside triphosphates:<br>a contribution to development of multipotential redox labeling of DNA. Monatshefte FA1⁄4r Chemie, 2015,<br>146, 839-847.           | 0.9 | 8         |
| 66 | Enzyme-linked electrochemical detection of DNA fragments amplified by PCR in the presence of a<br>biotinylated deoxynucleoside triphosphate using disposable pencil graphite electrodes. Monatshefte<br>Für Chemie, 2015, 146, 849-855. | 0.9 | 7         |
| 67 | Voltammetric behavior of a candidate anticancer drug roscovitine at carbon electrodes in aqueous buffers and a cell culture medium. Monatshefte Für Chemie, 2019, 150, 461-467.   | 0.9 | 7         |
| 68 | Vicinal Diolâ€Tethered Nucleobases as Targets for DNA Redox Labeling with Osmate Complexes.<br>ChemBioChem, 2020, 21, 171-180.  | 1.3 | 6         |
| 69 | Electrochemical Activity of Wedelolactone and Probing its Interaction with DNA Using Voltammetry at a Carbon Electrode. Electroanalysis, 2015, 27, 2268-2271.   | 1.5 | 5         |
| 70 | Interactions of fluorescent dye SYBR Green I with natural and 7-deazaguanine-modified DNA studied by fluorescence and electrochemical methods. Monatshefte Für Chemie, 2016, 147, 13-20.  | 0.9 | 5         |
| 71 | Electrochemical behavior of 7-deazaguanine- and 7-deazaadenine-modified DNA at the hanging mercury<br>drop electrode. Monatshefte Für Chemie, 2016, 147, 3-11.  | 0.9 | 4         |
| 72 | Protein p53 Binding to Cisplatinâ€modified DNA Targets Evaluated by Modificationâ€specific<br>Electrochemical Immunoprecipitation Assay. Electroanalysis, 2017, 29, 319-323.  | 1.5 | 3         |

Luděk Havran

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Butylacrylateâ€nucleobase Conjugates as Targets for Twoâ€step Redox Labeling of DNA with an Osmium<br>Tetroxide Complex. Electroanalysis, 2018, 30, 371-377.   | 1.5 | 3         |
| 74 | Fast enzyme-linked electrochemical sensing of DNA hybridization at pencil graphite electrodes.<br>Application to detect gene deletion in a human cell culture. Journal of Electroanalytical Chemistry,<br>2020, 862, 113951. | 1.9 | 3         |
| 75 | Voltammetric sensing of glycans modified by osmium(VI)ligand complexes. The influence of N-acetyl<br>neuraminic acid. Electrochimica Acta, 2021, 369, 137658.  | 2.6 | 3         |
| 76 | Simple Electrochemical Characterization of ortho  arborane and some of its exo ‧keletal Derivatives.<br>Electroanalysis, 2020, 32, 1859-1866.  | 1.5 | 2         |
| 77 | The "Presodium―Catalysis of Electroreduction of Hydrogen Ions on Mercury Electrodes by<br>Metallothionein. An Investigation by Constant Current Derivative Stripping Chronopotentiometry. ,<br>2000, 12, 274.                |     | 1         |
| 78 | Novel base-functionalized DNA. Efficient methodology for construction and bioanalytical applications. Nucleic Acids Symposium Series, 2008, 52, 53-54.   | 0.3 | 0         |
| 79 | Aminophenyl- and nitrophenyl-labeled DNA. Synthesis by polymerase incorporation of nucleoside triphosphates and electrochemical properties. , 2008, , .  |     | Ο         |