List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Serum albumin as a primary non-covalent binding protein for nitro-oleic acid. International Journal of Biological Macromolecules, 2022, 203, 116-129. | 7.5 | 13 |
| 2 | Cyclopentenedione-based ascorbate-rejecting permselective layers prepared by electropolymerization. Journal of Electroanalytical Chemistry, 2022, 912, 116261. | 3.8 | 2 |
| 3 | Cannabidiol and periodontal inflammatory disease: A critical assessment. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2022, 166, 155-160. | 0.6 | 6 |
| 4 | Free and bound histidine in reactions at mercury electrode. Journal of Electroanalytical Chemistry, 2022, 916, 116336. | 3.8 | 4 |
| 5 | Electrophilic characteristics and aqueous behavior of fatty acid nitroalkenes. Redox Biology, 2021, 38, 101756. | 9.0 | 20 |
| 6 | Antioxidant function of phytocannabinoids: Molecular basis of their stability and cytoprotective properties under UV-irradiation. Free Radical Biology and Medicine, 2021, 164, 258-270. | 2.9 | 27 |
| 7 | Cysteamine assay for the evaluation of bioactive electrophiles. Free Radical Biology and Medicine, 2021, 164, 381-389. | 2.9 | 5 |
| 8 | Flavinâ€Helicene Amphiphilic Hybrids: Synthesis, Characterization, and Preparation of Surfaceâ€Supported Films. ChemPlusChem, 2021, 86, 982-990. | 2.8 | 3 |
| 9 | CBD is not converted to THC in rats: A framework interpretation and discussion. European Neuropsychopharmacology, 2021, 50, 135-136. | 0.7 | 3 |
| 10 | Cubosomal lipid formulation of nitroalkene fatty acids: Preparation, stability and biological effects. Redox Biology, 2021, 46, 102097. | 9.0 | 5 |
| 11 | Chiral Electrochemistry: Anodic Deposition of Enantiopure Helical Molecules. ChemPlusChem, 2020, 85, 1954-1958. | 2.8 | 8 |
| 12 | Sensors and microarrays in protein biomarker monitoring: an electrochemical perspective spots. Bioanalysis, 2020, 12, 1337-1345. | 1.5 | 6 |
| 13 | Analytical techniques for multiplex analysis of protein biomarkers. Expert Review of Proteomics, 2020, 17, 257-273. | 3.0 | 60 |
| 14 | Redox and optically active carbohelicene layers prepared by potentiodynamic polymerization. Electrochemistry Communications, 2020, 113, 106689. | 4.7 | 11 |
| 15 | Diferulate: A highly effective electron donor. Journal of Electroanalytical Chemistry, 2020, 869, 113950. | 3.8 | 3 |
| 16 | Redox properties of individual quercetin moieties. Free Radical Biology and Medicine, 2019, 143, 240-251. | 2.9 | 38 |
| 17 | Structures of Peptidic Hâ€wires at Mercury Surface: Molecular Dynamics Study. Electroanalysis, 2019, 31, 2032-2040 | 2.9 | 4 |
| 18 | Preparation and Physicochemical Properties of [6]Helicenes Fluorinated at Terminal Rings. Journal of Organic Chemistry, 2019, 84, 1980-1993. | 3.2 | 30 |

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|----|--|------|-----------|
| 19 | Redox properties and human serum albumin binding of nitro-oleic acid. Redox Biology, 2019, 24, 101213. | 9.0 | 16 |
| 20 | Electrochemistry of peptides. Current Opinion in Electrochemistry, 2019, 14, 166-172. | 4.8 | 20 |
| 21 | Cytotoxicity of hexahelicene and its effect on the aryl hydrocarbon receptor pathway. Toxicology in Vitro, 2019, 57, 105-109. | 2.4 | 3 |
| 22 | Carbon fiber on-line detector for monitoring human blood serum reductive capacity. A complex technical solution. Journal of Electroanalytical Chemistry, 2018, 814, 184-191. | 3.8 | 5 |
| 23 | Electrochemical behavior of sarco/endoplasmic reticulum Ca-ATPase in response to carbonylation processes. Journal of Electroanalytical Chemistry, 2018, 812, 258-264. | 3.8 | 5 |
| 24 | Metabolism of flavonolignans in human hepatocytes. Journal of Pharmaceutical and Biomedical Analysis, 2018, 152, 94-101. | 2.8 | 20 |
| 25 | Anodic Deposition of Enantiopure Hexahelicene Layers. ChemElectroChem, 2018, 5, 2080-2088. | 3.4 | 14 |
| 26 | Electrocatalytic artificial carbonylation assay for observation of human serum albumin inter-individual properties. Analytical Biochemistry, 2018, 550, 137-143. | 2.4 | 8 |
| 27 | Electrochemistry of membrane proteins and protein–lipid assemblies. Current Opinion in Electrochemistry, 2018, 12, 73-80. | 4.8 | 21 |
| 28 | Electrochemistry and electron paramagnetic resonance spectroscopy of cytochrome c and its heme-disrupted analogs. Bioelectrochemistry, 2018, 119, 136-141. | 4.6 | 12 |
| 29 | Lipidic liquid crystalline cubic phases for preparation of ATP-hydrolysing enzyme electrodes. Biosensors and Bioelectronics, 2018, 100, 437-444. | 10.1 | 14 |
| 30 | Structural Stability of Peptidic His-Containing Proton Wire in Solution and in the Adsorbed State. Langmuir, 2018, 34, 6997-7005. | 3.5 | 5 |
| 31 | European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). Redox Biology, 2017, 13, 94-162. | 9.0 | 242 |
| 32 | Na + /K + -ATPase interaction with methylglyoxal as reactive metabolic side product. Free Radical Biology and Medicine, 2017, 108, 146-154. | 2.9 | 10 |
| 33 | Novel flavonolignan hybrid antioxidants: From enzymatic preparation to molecular rationalization. European Journal of Medicinal Chemistry, 2017, 127, 263-274. | 5.5 | 25 |
| 34 | Oxidation of Natural Bioactive Flavonolignan 2,3-Dehydrosilybin: An Electrochemical and Spectral Study. Journal of Physical Chemistry B, 2017, 121, 6841-6846. | 2.6 | 6 |
| 35 | Potentialâ€Driven On/Off Switch Strategy for the Electrosynthesis of [7]Heliceneâ€Derived Polymers. ChemElectroChem, 2017, 4, 3047-3052. | 3.4 | 7 |
| 36 | Oxidation of the Flavonolignan Silybin. In situ EPR Evidence of the Spin-Trapped Silybin Radical. Electrochimica Acta, 2016, 205, 118-123. | 5.2 | 12 |

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| 37 | Flavonolignan Conjugates as DNAâ€binding Ligands and Topoisomerase I Inhibitors: Electrochemical and Electrophoretic Approaches. Electroanalysis, 2016, 28, 2866-2874. | 2.9 | 8 |
| 38 | Development of separation methods for the chiral resolution of hexahelicenes. Journal of Chromatography A, 2016, 1476, 130-134. | 3.7 | 17 |
| 39 | Semisynthetic flavonoid 7-O-galloylquercetin activates Nrf2 andÂinduces Nrf2-dependent gene expression in RAW264.7 andĂHepa1c1c7 cells. Chemico-Biological Interactions, 2016, 260, 58-66. | 4.0 | 12 |
| 40 | A comprehensive LC/MS analysis of novel cyclopentenedione library. Journal of Pharmaceutical and Biomedical Analysis, 2016, 128, 342-351. | 2.8 | 2 |
| 41 | Dimeric cyanobacterial cyclopent-4-ene-1,3-dione as selective inhibitor of Gram-positive bacteria growth: Bio-production approach and preparative isolation by HPCCC. Algal Research, 2016, 18, 244-249. | 4.6 | 8 |
| 42 | Flavonolignan 2,3-dehydroderivatives: Preparation, antiradical and cytoprotective activity. Free Radical Biology and Medicine, 2016, 90, 114-125. | 2.9 | 72 |
| 43 | Electrochemical Platform for the Detection of Transmembrane Proteins Reconstituted into Liposomes. Analytical Chemistry, 2016, 88, 4548-4556. | 6.5 | 18 |
| 44 | Cytotoxicity evaluation of large cyanobacterial strain set using selected human and murine in vitro cell models. Ecotoxicology and Environmental Safety, 2016, 124, 177-185. | 6.0 | 18 |
| 45 | Are High Proanthocyanidins Key to Cranberry Efficacy in the Prevention of Recurrent Urinary Tract Infection?. Phytotherapy Research, 2015, 29, 1559-1567. | 5.8 | 99 |
| 46 | Electrocatalytic Assay for Monitoring Methylglyoxal-Mediated Protein Glycation. Analytical Chemistry, 2015, 87, 1757-1763. | 6.5 | 21 |
| 47 | Sulfation modulates the cell uptake, antiradical activity and biological effects of flavonoids in vitro: An examination of quercetin, isoquercitrin and taxifolin. Bioorganic and Medicinal Chemistry, 2015, 23, 5402-5409. | 3.0 | 35 |
| 48 | Synthesis and Characterization of a Heliceneâ€Based Imidazolium Salt and Its Application in Organic Molecular Electronics. Chemistry - A European Journal, 2015, 21, 2343-2347. | 3.3 | 58 |
| 49 | Metabolism of palmatine by human hepatocytes and recombinant cytochromes P450. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 193-198. | 2.8 | 20 |
| 50 | eL-Chem Viewer: A Freeware Package for the Analysis of Electroanalytical Data and Their Post-Acquisition Processing. Sensors, 2014, 14, 13943-13954. | 3.8 | 31 |
| 51 | Electrochemical Behaviour of Alkaloids: Detection and Interaction with DNA and Proteins. Heterocycles, 2014, 88, 879. | 0.7 | 5 |
| 52 | Chemo-Enzymatic Synthesis of Silybin and 2,3-Dehydrosilybin Dimers. Molecules, 2014, 19, 4115-4134. | 3.8 | 21 |
| 53 | The permselective layer prepared onto carbon and gold surfaces by electropolymerization of phenolic cyclopentenedione-nostotrebin 6. Electrochemistry Communications, 2014, 38, 53-56. | 4.7 | 8 |
| 54 | Electrochemical oxidation of proteins using ionic liquids as solubilizers, adsorption solvents and electrolytes. Electrochimica Acta, 2014, 126, 31-36. | 5.2 | 10 |

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| 55 | Investigation of protein FTT1103 electroactivity using carbon and mercury electrodes. Surface-inhibition approach for disulfide oxidoreductases using silver amalgam powder. Analytica Chimica Acta, 2014, 830, 23-31. | 5.4 | 11 |
| 56 | Novel bronchodilatory quinazolines and quinoxalines: Synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2014, 74, 65-72. | 5.5 | 14 |
| 57 | Chemical Properties and Biological Activities of Cyclopentenediones: A Review. Mini-Reviews in Medicinal Chemistry, 2014, 14, 322-331. | 2.4 | 13 |
| 58 | Na ⁺ /K ⁺ -ATPase inhibition by cisplatin and consequences for cisplatin nephrotoxicity. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2014, 158, 194-200. | 0.6 | 23 |
| 59 | LC–MS metabolic study on quercetin and taxifolin galloyl esters using human hepatocytes as toxicity and biotransformation in vitro cell model. Journal of Pharmaceutical and Biomedical Analysis, 2013, 86, 135-142. | 2.8 | 26 |
| 60 | Antioxidant, metal-binding and DNA-damaging properties of flavonolignans: A joint experimental and computational highlight based on 7-O-galloylsilybin. Chemico-Biological Interactions, 2013, 205, 173-180. | 4.0 | 23 |
| 61 | Mass spectrometric investigation of chelerythrine and dihydrochelerythrine biotransformation patterns in human hepatocytes. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 941, 17-24. | 2.3 | 13 |
| 62 | Changes in the intrinsic electrocatalytic nature of Na+/K+ ATPase reflect structural changes on ATP-binding: Electrochemical label-free approach. Electrochemistry Communications, 2013, 27, 104-107. | 4.7 | 21 |
| 63 | A Novel Semisynthetic Flavonoid 7- <i>O</i> -Galloyltaxifolin Upregulates Heme Oxygenase-1 in RAW264.7 Cells via MAPK/Nrf2 Pathway. Journal of Medicinal Chemistry, 2013, 56, 856-866. | 6.4 | 45 |
| 64 | Biosafety and antioxidant effects of a beverage containing silymarin and arginine. A pilot, human intervention cross-over trial. Food and Chemical Toxicology, 2013, 56, 178-183. | 3.6 | 22 |
| 65 | Effect of 3â€ <i>O</i> â€Galloyl Substitution on the Electrochemical Oxidation of Quercetin and Silybin Galloyl Esters at Glassy Carbon Electrode. Electroanalysis, 2013, 25, 1621-1627. | 2.9 | 11 |
| 66 | Metabolic Profiling of Phenolic Acids and Oxidative Stress Markers after Consumption of <i>Lonicera caerulea</i> L. Fruit. Journal of Agricultural and Food Chemistry, 2013, 61, 4526-4532. | 5.2 | 32 |
| 67 | Electrochemical Pretreatment of Carbon Fiber Microelectrodes Based on Sinusoidal-wave Potential Cycling and its Application to Amperometric Sensing of Bioactive Compounds. Current Analytical Chemistry, 2013, 9, 305-311. | 1.2 | 6 |
| 68 | Electrochemical Pretreatment of Carbon Fiber Microelectrodes Based on Sinusoidal-wave Potential Cycling and its Application to Amperometric Sensing of Bioactive Compounds. Current Analytical Chemistry, 2013, 9, 305-311. | 1.2 | 6 |
| 69 | Biotransformation of flavonols and taxifolin in hepatocyte in vitro systems as determined by liquid chromatography with various stationary phases and electrospray ionization-quadrupole time-of-flight mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences 2012, 899, 109-115 | 2.3 | 27 |
| 70 | Electrochemical Sensing of Total Antioxidant Capacity and Polyphenol Content in Wine Samples Using Amperometry Online-Coupled with Microdialysis. Journal of Agricultural and Food Chemistry, 2012, 60, 7836-7843. | 5.2 | 15 |
| 71 | Electrochemical oxidation of berberine and mass spectrometric identification of its oxidation products. Bioelectrochemistry, 2012, 87, 15-20. | 4.6 | 20 |
| 72 | Quercetin, Quercetin Glycosides and Taxifolin Differ in their Ability to Induce AhR Activation and CYP1A1 Expression in HepG2 Cells. Phytotherapy Research, 2012, 26, 1746-1752. | 5.8 | 53 |

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| 73 | Electrochemical Determination of Transmembrane Protein Na ⁺ /K ⁺ â€ATPase and Its Cytoplasmic Loop C45. Electroanalysis, 2012, 24, 1758-1765. | 2.9 | 7 |
| 74 | Covalent binding of cisplatin impairs the function of Na+/K+-ATPase by binding to its cytoplasmic part. Biochemical Pharmacology, 2012, 83, 1507-1513. | 4.4 | 37 |
| 75 | Cytotoxicity and Pro-Apoptotic Activity of 2,2´-Bis[4,5-bis(4-hydroxybenzyl)-2-(4-hydroxyphenyl)cyclopent-4-en-1,3-dione], a Phenolic Cyclopentenedione Isolated from the Cyanobacterium Strain Nostoc sp. str. Lukešová 27/97. Molecules. 2011. 16. 4254-4263. | 3.8 | 7 |
| 76 | Electrochemical investigation of flavonolignans and study of their interactions with DNA in the presence of Cu(II). Bioelectrochemistry, 2011, 82, 117-124. | 4.6 | 45 |
| 77 | Identification of benzo[c]phenanthridine metabolites in human hepatocytes by liquid chromatography with electrospray ion-trap and quadrupole time-of-flight mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 1077-1085. | 2.3 | 38 |
| 78 | Oxidation of Sanguinarine and Its Dihydroâ€Derivative at a Pyrolytic Graphite Electrode Using Ex Situ Voltammetry. Study of the Interactions of the Alkaloids with DNA. Electroanalysis, 2011, 23, 1671-1680. | 2.9 | 11 |
| 79 | Phytochemical and antimicrobial characterization of Macleaya cordata herb. Fìtoterapìâ, 2010, 81, 1006-1012. | 2.2 | 132 |
| 80 | Oxidation of Protopine at a Pyrolytic Graphite Electrode Using Cyclic and Squareâ€Wave Voltammetry. Electroanalysis, 2010, 22, 2879-2883. | 2.9 | 5 |
| 81 | lon-trap mass spectrometry for determination of 3,5,3′-triiodo-l-thyronine and 3,5,3′,5′-tetraiodo-l-thyronine in neonatal rat cardiomyocytes. Journal of Pharmaceutical and Biomedical Analysis, 2010, 53, 688-692. | 2.8 | 3 |
| 82 | The Chemical and Biological Properties of Protopine and Allocryptopine. Heterocycles, 2010, 81, 1773. | 0.7 | 38 |
| 83 | Analytical methods and strategies in the study of plant polyphenolics in clinical samples. Analytical Methods, 2010, 2, 604. | 2.7 | 29 |
| 84 | Ex situ Voltammetry and Chronopotentiometry of Doxorubicin at a Pyrolytic Graphite Electrode: Redox and Catalytic Properties and Analytical Applications. Electroanalysis, 2009, 21, 2139-2144. | 2.9 | 43 |
| 85 | 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 |
| 86 | Current trends in isolation, separation, determination and identification of isoflavones: A review. Journal of Separation Science, 2008, 31, 2054-2067. | 2.5 | 108 |
| 87 | Label-Free Electrochemical Monitoring of DNA Ligase Activity. Analytical Chemistry, 2008, 80, 7609-7613. | 6.5 | 17 |
| 88 | Electrochemical Sensing of Chromiumâ€Induced DNA Damage: DNA Strand Breakage by Intermediates of Chromium(VI) Electrochemical Reduction. Electroanalysis, 2007, 19, 2093-2102. | 2.9 | 23 |
| 89 | A hydrophilic interaction chromatography coupled to a mass spectrometry for the determination of glutathione in plant somatic embryos. Analyst, The, 2006, 131, 1167-1174. | 3.5 | 83 |
| 90 | Evaluation of Isoflavone Aglycon and Glycoside Distribution in Soy Plants and Soybeans by Fast Column High-Performance Liquid Chromatography Coupled with a Diode-Array Detector. Journal of Agricultural and Food Chemistry, 2005, 53, 5848-5852. | 5.2 | 73 |

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| 91 | Electrochemical determination of lead and glutathione in a plant cell culture. Bioelectrochemistry, 2004, 63, 347-351. | 4.6 | 62 |
| 92 | Square wave and elimination voltammetric analysis of azidothymidine in the presence of oligonucleotides and chromosomal DNA. Bioelectrochemistry, 2004, 63, 31-36. | 4.6 | 35 |
| 93 | Esterases as a marker for growth of BY-2 tobacco cells and early somatic embryos of the Norway spruce. Plant Cell, Tissue and Organ Culture, 2004, 79, 195-201. | 2.3 | 22 |
| 94 | Determination of Azidothymidine– an Antiproliferative and Virostatic Drug by Square-Wave Voltammetry. Electroanalysis, 2004, 16, 224-230. | 2.9 | 29 |
| 95 | Cyclic voltammetric study of the redox system of glutathione using the disulfide bond reductant tris(2-carboxyethyl)phosphine. Bioelectrochemistry, 2004, 63, 19-24. | 4.6 | 90 |
| 96 | Application of Avidinâ^Biotin Technology and Adsorptive Transfer Stripping Square-Wave Voltammetry for Detection of DNA Hybridization and Avidin in Transgenic Avidin Maize. Analytical Chemistry, 2003, 75, 2663-2669. | 6.5 | 109 |
| 97 | Catalytic signal of rabbit liver metallothionein on a mercury electrode: a combination of derivative chronopotentiometry with adsorptive transfer stripping. Bioelectrochemistry, 2002, 56, 57-61 | 4.6 | 64 |