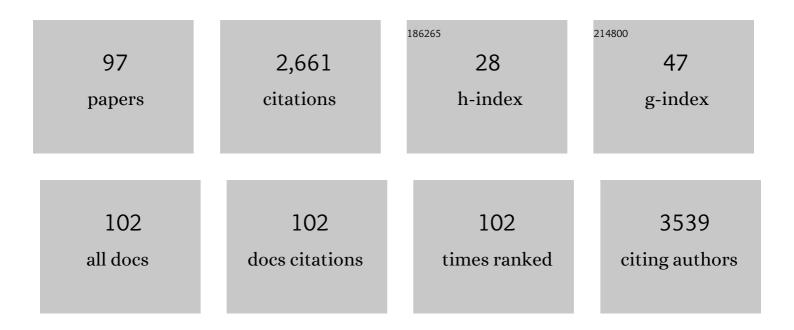
List of Publications by Year in descending order

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IAN VACER

#	Article	IF	CITATIONS
1	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
2	Phytochemical and antimicrobial characterization of Macleaya cordata herb. Fìtoterapìâ, 2010, 81, 1006-1012.	2.2	132
3	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
4	Current trends in isolation, separation, determination and identification of isoflavones: A review. Journal of Separation Science, 2008, 31, 2054-2067.	2.5	108
5	Are High Proanthocyanidins Key to Cranberry Efficacy in the Prevention of Recurrent Urinary Tract Infection?. Phytotherapy Research, 2015, 29, 1559-1567.	5.8	99
6	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
7	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
8	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
9	Flavonolignan 2,3-dehydroderivatives: Preparation, antiradical and cytoprotective activity. Free Radical Biology and Medicine, 2016, 90, 114-125.	2.9	72
10	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
11	Electrochemical determination of lead and glutathione in a plant cell culture. Bioelectrochemistry, 2004, 63, 347-351.	4.6	62
12	Analytical techniques for multiplex analysis of protein biomarkers. Expert Review of Proteomics, 2020, 17, 257-273.	3.0	60
13	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
14	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
15	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
16	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
17	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
18	The Chemical and Biological Properties of Protopine and Allocryptopine. Heterocycles, 2010, 81, 1773.	0.7	38

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19	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
20	Redox properties of individual quercetin moieties. Free Radical Biology and Medicine, 2019, 143, 240-251.	2.9	38
21	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
22	Square wave and elimination voltammetric analysis of azidothymidine in the presence of oligonucleotides and chromosomal DNA. Bioelectrochemistry, 2004, 63, 31-36.	4.6	35
23	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
24	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
25	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
26	Preparation and Physicochemical Properties of [6]Helicenes Fluorinated at Terminal Rings. Journal of Organic Chemistry, 2019, 84, 1980-1993.	3.2	30
27	Determination of Azidothymidine– an Antiproliferative and Virostatic Drug by Square-Wave Voltammetry. Electroanalysis, 2004, 16, 224-230.	2.9	29
28	Analytical methods and strategies in the study of plant polyphenolics in clinical samples. Analytical Methods, 2010, 2, 604.	2.7	29
29	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
30	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
31	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
32	Novel flavonolignan hybrid antioxidants: From enzymatic preparation to molecular rationalization. European Journal of Medicinal Chemistry, 2017, 127, 263-274.	5.5	25
33	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
34	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
35	Na <sup>+</sup> /K <sup>+</sup> -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
36	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

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37	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
38	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
39	Chemo-Enzymatic Synthesis of Silybin and 2,3-Dehydrosilybin Dimers. Molecules, 2014, 19, 4115-4134.	3.8	21
40	Electrocatalytic Assay for Monitoring Methylglyoxal-Mediated Protein Glycation. Analytical Chemistry, 2015, 87, 1757-1763.	6.5	21
41	Electrochemistry of membrane proteins and protein–lipid assemblies. Current Opinion in Electrochemistry, 2018, 12, 73-80.	4.8	21
42	Electrochemical oxidation of berberine and mass spectrometric identification of its oxidation products. Bioelectrochemistry, 2012, 87, 15-20.	4.6	20
43	Metabolism of palmatine by human hepatocytes and recombinant cytochromes P450. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 193-198.	2.8	20
44	Metabolism of flavonolignans in human hepatocytes. Journal of Pharmaceutical and Biomedical Analysis, 2018, 152, 94-101.	2.8	20
45	Electrochemistry of peptides. Current Opinion in Electrochemistry, 2019, 14, 166-172.	4.8	20
46	Electrophilic characteristics and aqueous behavior of fatty acid nitroalkenes. Redox Biology, 2021, 38, 101756.	9.0	20
47	Electrochemical Platform for the Detection of Transmembrane Proteins Reconstituted into Liposomes. Analytical Chemistry, 2016, 88, 4548-4556.	6.5	18
48	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
49	Label-Free Electrochemical Monitoring of DNA Ligase Activity. Analytical Chemistry, 2008, 80, 7609-7613.	6.5	17
50	Development of separation methods for the chiral resolution of hexahelicenes. Journal of Chromatography A, 2016, 1476, 130-134.	3.7	17
51	Redox properties and human serum albumin binding of nitro-oleic acid. Redox Biology, 2019, 24, 101213.	9.0	16
52	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
53	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
54	Novel bronchodilatory quinazolines and quinoxalines: Synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2014, 74, 65-72.	5.5	14

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55	Anodic Deposition of Enantiopure Hexahelicene Layers. ChemElectroChem, 2018, 5, 2080-2088.	3.4	14
56	Lipidic liquid crystalline cubic phases for preparation of ATP-hydrolysing enzyme electrodes. Biosensors and Bioelectronics, 2018, 100, 437-444.	10.1	14
57	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
58	Chemical Properties and Biological Activities of Cyclopentenediones: A Review. Mini-Reviews in Medicinal Chemistry, 2014, 14, 322-331.	2.4	13
59	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
60	Oxidation of the Flavonolignan Silybin. In situ EPR Evidence of the Spin-Trapped Silybin Radical. Electrochimica Acta, 2016, 205, 118-123.	5.2	12
61	Semisynthetic flavonoid 7-O-galloylquercetin activates Nrf2 andÂinduces Nrf2-dependent gene expression in RAW264.7 andAHepa1c1c7 cells. Chemico-Biological Interactions, 2016, 260, 58-66.	4.0	12
62	Electrochemistry and electron paramagnetic resonance spectroscopy of cytochrome c and its heme-disrupted analogs. Bioelectrochemistry, 2018, 119, 136-141.	4.6	12
63	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
64	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
65	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
66	Redox and optically active carbohelicene layers prepared by potentiodynamic polymerization. Electrochemistry Communications, 2020, 113, 106689.	4.7	11
67	Electrochemical oxidation of proteins using ionic liquids as solubilizers, adsorption solvents and electrolytes. Electrochimica Acta, 2014, 126, 31-36.	5.2	10
68	Na + /K + -ATPase interaction with methylglyoxal as reactive metabolic side product. Free Radical Biology and Medicine, 2017, 108, 146-154.	2.9	10
69	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
70	Flavonolignan Conjugates as DNAâ€binding Ligands and Topoisomerase I Inhibitors: Electrochemical and Electrophoretic Approaches. Electroanalysis, 2016, 28, 2866-2874.	2.9	8
71	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
72	Electrocatalytic artificial carbonylation assay for observation of human serum albumin inter-individual properties. Analytical Biochemistry, 2018, 550, 137-143.	2.4	8

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73	Chiral Electrochemistry: Anodic Deposition of Enantiopure Helical Molecules. ChemPlusChem, 2020, 85, 1954-1958.	2.8	8
74	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
75	Electrochemical Determination of Transmembrane Protein Na <sup>+</sup> /K <sup>+</sup> â€ATPase and Its Cytoplasmic Loop C45. Electroanalysis, 2012, 24, 1758-1765.	2.9	7
76	Potentialâ€Driven On/Off Switch Strategy for the Electrosynthesis of [7]Heliceneâ€Derived Polymers. ChemElectroChem, 2017, 4, 3047-3052.	3.4	7
77	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
78	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
79	Sensors and microarrays in protein biomarker monitoring: an electrochemical perspective spots. Bioanalysis, 2020, 12, 1337-1345.	1.5	6
80	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
81	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
82	Oxidation of Protopine at a Pyrolytic Graphite Electrode Using Cyclic and Squareâ€Wave Voltammetry. Electroanalysis, 2010, 22, 2879-2883.	2.9	5
83	Electrochemical Behaviour of Alkaloids: Detection and Interaction with DNA and Proteins. Heterocycles, 2014, 88, 879.	0.7	5
84	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
85	Electrochemical behavior of sarco/endoplasmic reticulum Ca-ATPase in response to carbonylation processes. Journal of Electroanalytical Chemistry, 2018, 812, 258-264.	3.8	5
86	Structural Stability of Peptidic His-Containing Proton Wire in Solution and in the Adsorbed State. Langmuir, 2018, 34, 6997-7005.	3.5	5
87	Cysteamine assay for the evaluation of bioactive electrophiles. Free Radical Biology and Medicine, 2021, 164, 381-389.	2.9	5
88	Cubosomal lipid formulation of nitroalkene fatty acids: Preparation, stability and biological effects. Redox Biology, 2021, 46, 102097.	9.0	5
89	Structures of Peptidic Hâ€wires at Mercury Surface: Molecular Dynamics Study. Electroanalysis, 2019, 31, 2032-2040.	2.9	4
90	Free and bound histidine in reactions at mercury electrode. Journal of Electroanalytical Chemistry, 2022, 916, 116336.	3.8	4

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91	Ion-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
92	Cytotoxicity of hexahelicene and its effect on the aryl hydrocarbon receptor pathway. Toxicology in Vitro, 2019, 57, 105-109.	2.4	3
93	Diferulate: A highly effective electron donor. Journal of Electroanalytical Chemistry, 2020, 869, 113950.	3.8	3
94	Flavinâ€Helicene Amphiphilic Hybrids: Synthesis, Characterization, and Preparation of Surfaceâ€Supported Films. ChemPlusChem, 2021, 86, 982-990.	2.8	3
95	CBD is not converted to THC in rats: A framework interpretation and discussion. European Neuropsychopharmacology, 2021, 50, 135-136.	0.7	3
96	A comprehensive LC/MS analysis of novel cyclopentenedione library. Journal of Pharmaceutical and Biomedical Analysis, 2016, 128, 342-351.	2.8	2
97	Cyclopentenedione-based ascorbate-rejecting permselective layers prepared by electropolymerization. Journal of Electroanalytical Chemistry, 2022, 912, 116261.	3.8	2