## Flavonoid electrochemistry: a review on the electroanal

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**Citation Report** 

#	ARTICLE	IF	CITATIONS
"	Spectroelectrochemistry of solicyfoldebyde ovidation Electrochimica Acta 2014, 125, 133-140	2.6	19
T	Spectroelectrochemistry of salicylaidenyde oxidation. Liectrochimica Acta, 2014, 123, 133-140.	2.0	13
2	Antioxidant potential and vasodilatory activity of fermented beverages of jabuticaba berry (Myrciaria) Tj ETQq1 1	0.784314 1.8	rgBT /Overl
3	Interaction of quercetin with aqueous CdSe/ZnS quantum dots and the possible fluorescence probes for flavonoids. Analytical Methods, 2014, 6, 1442-1447.	1.3	22
4	Rutin and total isoflavone determination in soybean at different growth stages by using voltammetric methods. Microchemical Journal, 2014, 117, 149-155.	2.3	14
5	Comparison of Cyclic and Square Wave Voltammetry of Irreversible EC Mechanisms. ChemElectroChem, 2015, 2, 2027-2031.	1.7	9
6	Interaction with Deoxyribonucleic Acid and Determination of Orientin in Lophatherum gracile Brongn by High-Performance Liquid Chromatography with Amperometric Detection. Electrochimica Acta, 2015, 178, 829-837.	2.6	4
7	Can a microbial fuel cell resist the oxidation of Tomato pomace?. Journal of Power Sources, 2015, 279, 781-790.	4.0	18
8	Efficacy of an antioxidant under equilibrium conditions. Journal of Electroanalytical Chemistry, 2015, 748, 58-60.	1.9	2
9	Voltammetric analysis of nitroxoline in tablets and human serum using modified carbon paste electrodes incorporating mesoporous carbon or multiwalled carbon nanotubes. RSC Advances, 2015, 5, 56086-56097.	1.7	15
10	Flavonoids and antioxidant potential of nine Argentinian species of Croton (Euphorbiaceae). Revista Brasileira De Botanica, 2015, 38, 693-702.	0.5	26
11	Carbon black as successful screen-printed electrode modifier for phenolic compound detection. Electrochemistry Communications, 2015, 60, 78-82.	2.3	95
12	Electroanalysis for Quality Control of Acerola (Malpighia emarginata) Fruits and their Commercial Products. Food Analytical Methods, 2015, 8, 86-92.	1.3	7
13	Electrochemical Behavior of Crude Extract of Brosimum gaudchaudii and Its Major Bioactives, Psoralen and Bergapten. International Journal of Electrochemical Science, 2016, 11, 9519-9528.	0.5	4
14	Polyphenols encapsulation – application of innovation technologies to improve stability of natural products. Physical Sciences Reviews, 2016, 1, .	0.8	10
15	Electrochemical Oxidation of the Antiretroviral Drug Nelfinavir on Modified Screenâ€printed Electrodes. Electroanalysis, 2016, 28, 2081-2086.	1.5	2
16	Behavior of the potential antitumor VIVO complexes formed by flavonoid ligands. 3. Antioxidant properties and radical production capability. Journal of Inorganic Biochemistry, 2016, 161, 18-26.	1.5	21
17	Protective effects of three luteolin derivatives on aflatoxin B1-induced genotoxicity on human blood cells. Medicinal Chemistry Research, 2016, 25, 2567-2577.	1.1	20
18	Investigation of Vegetable Tannins and Their Iron Complex Dyes for Dye Sensitized Solar Cell Applications. Electrochimica Acta, 2016, 209, 407-422.	2.6	51

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CITATION REPORT

#	Article	IF	CITATIONS
19	Antioxidant Activity of Marine Algal Polyphenolic Compounds: A Mechanistic Approach. Journal of Medicinal Food, 2016, 19, 615-628.	0.8	145
20	Square wave voltammetry with multivariate calibration tools for determination of eugenol, carvacrol and thymol in honey. Talanta, 2016, 158, 306-314.	2.9	43
21	Electrochemistry in bicontinuous microemulsions based on control of dynamic solution structures on electrode surfaces. Current Opinion in Colloid and Interface Science, 2016, 25, 13-26.	3.4	25
22	Structure–electrochemical properties correlations of some phenol derivatives investigated by electrochemical techniques. Journal of the Iranian Chemical Society, 2016, 13, 945-956.	1.2	4
23	Simulation of electrocatalytic mechanism followed by chemical reaction. Journal of Electroanalytical Chemistry, 2016, 768, 129-133.	1.9	3
24	Quercetin conjugated silica particles as novel biofunctional hybrid materials for biological applications. Journal of Colloid and Interface Science, 2016, 466, 44-55.	5.0	20
25	Direct Analysis of Lipophilic Antioxidants of Olive Oils Using Bicontinuous Microemulsions. Analytical Chemistry, 2016, 88, 1202-1209.	3.2	13
26	Consumption of onion juice modulates oxidative stress and attenuates the risk of bone disorders in middle-aged and post-menopausal healthy subjects. Food and Function, 2016, 7, 902-912.	2.1	37
27	Electrochemical behavior and determination of major phenolic antioxidants in selected coffee samples. Food Chemistry, 2016, 190, 506-512.	4.2	82
28	Sensitive, simultaneous determination of chrysin and baicalein based on Ta 2 O 5 -chitosan composite modified carbon paste electrode. Talanta, 2017, 165, 553-562.	2.9	31
29	Antioxidant Capacity and Total Phenol Content in Hop and Malt Commercial Samples. Electroanalysis, 2017, 29, 2788-2792.	1.5	10
30	A Newly Competitive Electrochemical Sensor for Sensitive Determination of Chrysin Based on Electrochemically Activated Ta <sub>2</sub> O <sub>5</sub> Particles Modified Carbon Paste Electrode. Electroanalysis, 2017, 29, 835-842.	1.5	10
31	Simultaneous Determination of Quercetin, Rutin, Naringin, and Naringenin in Different Fruits by Capillary Zone Electrophoresis. Food Analytical Methods, 2017, 10, 83-91.	1.3	49
32	Electroanalytical tools for antioxidant evaluation of red fruits dry extracts. Food Chemistry, 2017, 217, 326-331.	4.2	56
33	Antioxidant activity and physicoâ€chemical parameters for the differentiation of honey using a potentiometric electronic tongue. Journal of the Science of Food and Agriculture, 2017, 97, 2215-2222.	1.7	26
34	Influence of Chemical Structure of Some Flavonols on Their Electrochemical Behaviour. International Journal of Electrochemical Science, 2017, 12, 7616-7637.	0.5	20
35	Antioxidant properties of rose extract (Rosa villosa L.) measured using electrochemical and UV/Vis spectrophotometric methods. International Journal of Electrochemical Science, 2017, 12, 10994-11005.	0.5	9
36	Electrochemical characterizations of darbufelone, a di-tert-butylphenol derivative, by voltammetric techniques and density functional theory calculations. Electrochimica Acta, 2018, 268, 462-468.	2.6	8

	Сітат	ION REPORT	
#	Article	IF	CITATIONS
37	Chemically synthesized butein and butin: Optical, structure and electrochemical redox functionality at electrode interface. Journal of Photochemistry and Photobiology B: Biology, 2018, 182, 122-129.	1.7	12
38	Optimization of extraction conditions and assessment of antioxidant, α-glucosidase inhibitory and antimicrobial activities of Xanthium strumarium L. fruits. Biocatalysis and Agricultural Biotechnology, 2018, 14, 40-47.	1.5	13
39	Antioxidant activity evaluation of dried herbal extracts: an electroanalytical approach. Revista Brasileira De Farmacognosia, 2018, 28, 325-332.	0.6	40
40	Self-sustained photocatalytic power generation using eco-electrogenic engineered systems. Bioresource Technology, 2018, 260, 23-29.	4.8	7
41	Voltammetric analysis of naringenin at a disposable pencil graphite electrode – application to polyphenol content determination in citrus juice. Analytical Methods, 2018, 10, 5763-5772.	1.3	20
42	Electrochemical Study of Commercial Black Tea Samples. International Journal of Electrochemical Science, 2018, 13, 5433-5439.	0.5	14
43	Antioxidant and Neuroprotective Properties of <i>Eugenia dysenterica</i> Leaves. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-9.	1.9	16
44	Evaluation of Radical Scavenging Capacity of Polyphenols Found in Natural Malaysian Honeys by Voltammetric Techniques. Electroanalysis, 2018, 30, 2939-2949.	1.5	9
45	Changes in electronic structures of flavonoids upon electrochemical oxidation and a theoretical model for the estimation of the first oxidation potential. Electrochimica Acta, 2018, 284, 742-750.	2.6	11
46	TiO <sub>2</sub> @C Nanostructured Electrodes for the Anodic Removal of Cocaine. Electroanalysis, 2018, 30, 2094-2098.	1.5	2
47	Redox properties of individual quercetin moieties. Free Radical Biology and Medicine, 2019, 143, 240-251	. 1.3	38
48	<i>Hibiscus sabdariffa</i> L. Anthocyanins Immobilization on TiO <sub>2</sub> ÂNanotubes and Its Electrochemical Characterization as a Hydrogen Peroxide Sensing Electrode. Journal of the Electrochemical Society, 2019, 166, B1506-B1512.	1.3	8
49	Synthesis and structural study of 2-(haloalkyl)-3-methylchromones. Monatshefte Für Chemie, 2019, 150, 1929-1940.	0.9	5
50	What is responsible for antioxidant properties of polyphenolic compounds from plants?. Plant Physiology and Biochemistry, 2019, 144, 135-143.	2.8	210
51	Voltammetric Evaluation of Diclofenac Tablets Samples through Carbon Black-Based Electrodes. Pharmaceuticals, 2019, 12, 83.	1.7	18
52	Antioxidant Study and Electroanalytical Investigation of Selected Herbal Samples Used in Folk Medicine. International Journal of Electrochemical Science, 2019, 14, 838-847.	0.5	11
53	Natural organic activator quercetin for persulfate oxidative degradation of halogenated hydrocarbons. Environmental Science: Water Research and Technology, 2019, 5, 1064-1071.	1.2	6
54	Antioxidant Effect of the <i>Castanea sativa</i> Mill. Leaf Extract on Oxidative Stress Induced upon Human Spermatozoa. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-9.	1.9	13

CITATION REPORT

#	Article	IF	CITATIONS
55	Exploring the Antioxidant Features of Polyphenols by Spectroscopic and Electrochemical Methods. Antioxidants, 2019, 8, 523.	2.2	49
56	Polyphenolic compounds as electron shuttles for sustainable energy utilization. Biotechnology for Biofuels, 2019, 12, 271.	6.2	38
57	Methodological approach to determine carlina oxide – a main volatile constituent of Carlina acaulis L. essential oil. Talanta, 2019, 191, 504-508.	2.9	14
58	A new sensitive voltammetric determination of thymol based on MnY nanozeolite modified carbon paste electrode using response surface methodology. Microchemical Journal, 2019, 145, 819-832.	2.3	14
59	Deciphering electron-shuttling characteristics of Scutellaria baicalensis Georgi and ingredients for bioelectricity generation in microbial fuel cells. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 361-373.	2.7	9
60	Rutin as an Electrochemical Mediator in the Determination of Captopril using a Graphite Paste Electrode. Electroanalysis, 2020, 32, 301-307.	1.5	8
61	MWCNT/Nileblue Heterostructured Composite Electrode for Flavanone Naringenin Quantification in Fruit Juices. Electroanalysis, 2020, 32, 939-948.	1.5	23
62	A comparative study of carbon nanotube dispersions assisted by cationic reagents as electrode modifiers: Preparation, characterization and electrochemical performance for gallic acid detection. Journal of Electroanalytical Chemistry, 2020, 857, 113750.	1.9	11
63	Microwave-assisted synthesis of catalytic silver nanoparticles by hyperpigmented tomato skins: A green approach. LWT - Food Science and Technology, 2020, 133, 110088.	2.5	12
64	Flavonoid Profiles of Two New Approved Romanian Ocimum Hybrids. Molecules, 2020, 25, 4573.	1.7	12
65	Safety and Photoprotective Efficacy of a Sunscreen System Based on Grape Pomace (Vitis vinifera L.) Phenolics from Winemaking. Pharmaceutics, 2020, 12, 1148.	2.0	24
66	Critical evaluation of voltammetric techniques for antioxidant capacity and activity: Presence of alumina on glassy-carbon electrodes alters the results. Electrochimica Acta, 2020, 358, 136925.	2.6	29
67	Electrochemical Methods and (Bio) Sensors for Rosmarinic Acid Investigation. Chemosensors, 2020, 8, 74.	1.8	14
68	Biosensors for Antioxidants Detection: Trends and Perspectives. Biosensors, 2020, 10, 112.	2.3	12
69	Natural phenolic antioxidants electrochemistry: Towards a new food science methodology. Comprehensive Reviews in Food Science and Food Safety, 2020, 19, 1680-1726.	5.9	134
70	Synthesis, Characterization, and Low-Toxicity Study of a Magnesium(II) Complex Containing an Isovanillate Group. ACS Omega, 2020, 5, 3504-3512.	1.6	5
71	Electrochemical detection of zinc oxide nanoparticles in water contamination analysis based on surface catalytic reactivity. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	2
72	First-Pass Metabolism of Polyphenols from Selected Berries: A High-Throughput Bioanalytical Approach. Antioxidants, 2020, 9, 311.	2.2	11

#	Article	IF	CITATIONS
73	An electrochemical molecularly imprinted polymer sensor for rapid and selective food allergen detection. Food Chemistry, 2021, 344, 128648.	4.2	44
74	Microencapsulation of jabuticaba extracts (Myrciaria cauliflora): Evaluation of their bioactive and thermal properties in cassava starch biscuits. LWT - Food Science and Technology, 2021, 137, 110460.	2.5	19
75	Investigation of different antioxidant capacity measurements suitable for bioactive compounds applied to medicinal plants. Journal of Food Measurement and Characterization, 2021, 15, 71-83.	1.6	6
76	Comparative evaluation of antioxidant activity in honey. AIP Conference Proceedings, 2021, , .	0.3	0
77	Phyto-Nanosensors: Advancement of Phytochemicals as an Electrochemical Platform for Various Biomedical Applications. Environmental Chemistry for A Sustainable World, 2021, , 311-338.	0.3	1
78	Miniaturized electrocoagulation approach for removal of polymeric pigments and selective analysis of non- and mono-hydroxylated phenolic acids in wine with HPLC-UV. RSC Advances, 2021, 11, 5885-5893.	1.7	2
79	Correlation of Total Polyphenolic Content with Antioxidant Activity of Hydromethanolic Extract and Their Fractions of the Salvia officinalis Leaves from Different Regions of Morocco. Journal of Chemistry, 2021, 2021, 1-11.	0.9	19
80	Catalytic and photocatalytic effects of TiO2 nanoparticles on electrooxidation of common antioxidants on carbon paste. Journal of Solid State Electrochemistry, 2021, 25, 1591-1600.	1.2	1
81	Analysis of Conformational, Structural, Magnetic, and Electronic Properties Related to Antioxidant Activity: Revisiting Flavan, Anthocyanidin, Flavanone, Flavonol, Isoflavone, Flavone, and Flavan-3-ol. ACS Omega, 2021, 6, 8908-8918.	1.6	47
82	Determination of total isoflavones and rutin in seeds, roots, and leaves of Brazilian soybean cultivars by using voltammetric methods. Journal of Agriculture and Food Research, 2021, 3, 100113.	1.2	0
83	Antioxidant activity of thirty-six peppers varieties and vasorelaxant of selected varieties. Food Bioscience, 2021, 41, 100989.	2.0	7
84	An Electrospun Nanofibrous Sensor Based on a Porous (Cr/Zn) Slats Oxide for Voltammetric Detection of Ezetimibe Drug in Real Samples. Electroanalysis, 2021, 33, 2128.	1.5	0
85	Reactivities of quercetin and metalloâ€quercetin with superoxide anion radical and molecular oxygen. Electrochemical Science Advances, 0, , e2100054.	1.2	1
86	Voltammetric Determination of Hesperidin on the Electrode Modified with SnO <sub>2</sub> Nanoparticles and Surfactants. Electroanalysis, 2021, 33, 2417-2427.	1.5	14
87	A novel nanozyme comprised of electro-synthesized molecularly imprinted conducting PEDOT nanocomposite with graphene-like MoS2 for electrochemical sensing of luteolin. Microchemical Journal, 2021, 168, 106418.	2.3	19
88	Supercritical Carbon Dioxide Extraction of Four Medicinal Mediterranean Plants: Investigation of Chemical Composition and Antioxidant Activity. Molecules, 2021, 26, 5697.	1.7	12
89	Chitosan grafted butein: A metal-free transducer for electrochemical genosensing of exosomal CD24. Carbohydrate Polymers, 2021, 269, 118333.	5.1	8
90	Anxiolytic- and antidepressant-like effects of new phenylpiperazine derivative LQFM005 and its hydroxylated metabolite in mice. Behavioural Brain Research, 2022, 417, 113582.	1.2	3

#	Article	IF	CITATIONS
91	Flow-through amperometric methods for detection of the bioactive compound quercetin: performance of glassy carbon and screen-printed carbon electrodes. Journal of Solid State Electrochemistry, 2020, 24, 1759-1768.	1.2	4
92	Electrochemical oxidation of synthetic amino-substituted benzamides with potential antioxidant activity. Journal of Electroanalytical Chemistry, 2020, 870, 114244.	1.9	7
93	Electrochemical Determination and Antioxidant Capacity Modulation of Polyphenols in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2021, 9, 776-784.	3.2	15
94	In Vitro Antioxidant versus Metal Ion Chelating Properties of Flavonoids: A Structure-Activity Investigation. PLoS ONE, 2016, 11, e0165575.	1.1	177
95	Stability of natural polyphenol fisetin in eye drops Stability of fisetin in eye drops. Open Chemistry, 2020, 18, 325-332.	1.0	5
96	Analysis and Identification of Polyphenolic Compounds in Green Foods Using a Combination of HPLC-ESI-IT-TOF-MS/MS. Hungarian Journal of Industrial Chemistry, 2018, 46, 35-38.	0.1	2
97	Correlation of polyphenol content and antioxidant capacity of selected teas and tisanes from Brazilian market. Brazilian Journal of Food Technology, 0, 23, .	0.8	7
98	Antioxidant activities and chemical composition of various crude extracts of Lepidagathis keralensis. Journal of Applied Pharmaceutical Science, 0, , .	0.7	3
99	ELECTROCHEMICAL BEHAVIOR OF VULPINIC ACID AT GLASSY CARBON ELECTRODE. Revista Eletrônica De Farmácia, 2015, 12, 43.	0.3	0
100	Electrochemical Sensors for Assessing Antioxidant Capacity of Bee Products. , 2016, , 196-223.		2
101	Electrochemistry of Eugenol and its Metabolism on a Bare Screen-Printed Electrode. Athens Journal of Sciences, 2018, 5, 39-52.	0.1	1
102	In vitro Evaluation of Antioxidant Activity of the Methanol and Ethanol Extracts of Pistacia atlantica Desf from Morocco. Phytotherapie, 2019, 17, 321-333.	0.1	3
103	Characteristics of the Polyphenolic Profile and Antioxidant Activity of Cone Extracts from Conifers Determined Using Electrochemical and Spectrophotometric Methods. Antioxidants, 2021, 10, 1723.	2.2	13
104	Color determination method and evaluation of methods for the detection of cannabinoids by thinâ€layer chromatography (TLC). Journal of Forensic Sciences, 2021, 66, 854-865.	0.9	10
105	Flavonoids of Rosa rugosa Thunb. inhibit tumor proliferation and metastasis in human hepatocellular carcinoma HepG2 cells. Food Science and Human Wellness, 2022, 11, 374-382.	2.2	16
106	Development of an Electrochemical Sensing System for Wine Component Analysis. ACS Food Science & Technology, 2021, 1, 2030-2040.	1.3	4
107	NafionÂ $^{\circ}$ Coated Electropolymerised Flavanoneâ $\in$ Based pH Sensor. Electroanalysis, 0, , .	1.5	4
108	Evaluation of Gastroprotective Activity of Linoleic Acid on Gastric Ulcer in a Mice Model. Current Pharmaceutical Design, 2022, 28, 655-660.	0.9	3

**CITATION REPORT** 

ARTICLE IF CITATIONS Antioxidant properties of hispidulin. Natural Product Research, 2022, 36, 6401-6404. 109 1.0 6 Electrochemical Investigation of some Flavonoids in Aprotic Media. Electroanalysis, 2022, 34, 1363-1371. 1.5 Gas-phase deposition of di- and tetra-lithium salts of 2,5-dihydroxyterephthalic acid. Dalton 111 1.6 1 Transactions, 2022, 51, 4246-4251. Antioxidant and Toxic Activity of Helichrysum arenarium (L.) Moench and Helichrysum italicum (Roth) G. Don Essential Oils and Extracts. Molecules, 2022, 27, 1311. Antioxidant capacity of <i>Myrciaria cauliflora</i> seed extracts by spectrophotometric, biochemical, and electrochemical methods and its protective effect against oxidative damage in erythrocytes. 113 1.2 1 Journal of Food Biochemistry, 2022, , e14222. Reductive degradation of carbon tetrachloride with guava leaf extract. Journal of Industrial and Engineering Chemistry, 2022, 113, 275-282. In Vitro Antioxidant and Prooxidant Activities of Red Raspberry (Rubus idaeus L.) Stem Extracts. 115 1.7 4 Molecules, 2022, 27, 4073. Electrochemical Profiling of Plants. Electrochem, 2022, 3, 434-450. 1.7 The Neuroprotective Potentiality of Flavonoids on Alzheimer's Disease. International Journal of 118 1.8 30 Molecular Sciences, 2022, 23, 14835. Environmental predictors of seed germination in two <i>Halocnemum</i> species from Mediterranean (Balearic, Tyrrenic and Adriatic) and Red Sea coastal salt marshes. Seed Science Research, 2022, 32, 246-263. Chemical sensing of food phenolics and antioxidant capacity., 2023, 593-646. 120 0 Structural Features of Small Molecule Antioxidants and Strategic Modifications to Improve Potential Bioactivity. Molecules, 2023, 28, 1057. Deciphering Houttuynia cordata extract as electron shuttles with anti-COVID-19 activity and its 122 performance in microbial fuel cells. Journal of the Taiwan Institute of Chemical Engineers, 2023, 145, 2.7 2 104838. Future antimalarials from <i>Artemisia</i>? A rationale for natural product mining against drug-refractory <i>Plasmodium</i> stages. Natural Product Reports, 0, , . 123 5.2 Electrochemical Determination of Flavonoid Fisetin in Commercial Dietary Supplements Using a 124 0.7 2 Boronâ€Doped Diamond Electrode. ChemistrySelect, 2023, 8, .

CITATION REPORT