The molecular basis of working mechanism of natural polyphenolic antioxidants

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#	Paper	IF	Citations
811	Glutathione: mechanism and kinetics of its non-enzymatic defense action against free radicals. **2011**, 1, 1763		108
810	Physicochemical insights on the free radical scavenging activity of sesamol: importance of the acid/base equilibrium. **2011**, 115, 13101-9		55
809	Detailed Investigation of the OH Radical Quenching by Natural Antioxidant Caffeic Acid Studied by Quantum Mechanical Models. **2011**, 7, 4218-33		85
808	Free radical scavenger properties of □mangostin: thermodynamics and kinetics of HAT and RAF mechanisms. **2011**, 115, 12591-8		73
807	Is caffeine a good scavenger of oxygenated free radicals?. **2011**, 115, 4538-46		150
806	Analysis of the antioxidant capacities of flavonoids under different spectrophotometric assays using cyclic voltammetry and density functional theory. **2011**, 59, 10277-85		61
805	Encapsulation of natural polyphenolic compounds; a review. **2011**, 3, 793-829		496
804	Uric and 1-methyluric acids: metabolic wastes or antiradical protectors?. **2011**, 115, 15430-8		20
803	Mechanism and kinetics studies on the antioxidant activity of sinapinic acid. **2011**, 13, 11199-205		72
802	Antioxidative mechanisms of whole-apple antioxidants employing different varieties from Luxembourg. **2011**, 14, 1631-7		16
801	Antiradical properties of red wine portisins. **2011**, 59, 11833-7		7
800	Canolol: a promising chemical agent against oxidative stress. **2011**, 115, 8590-6		65
799	Evaluation to the antioxidant activity of total flavonoids extract from persimmon (Diospyros kaki L.) leaves. **2011**, 49, 2689-96		193
798	Octyl and dodecyl gallates induce oxidative stress and apoptosis in a melanoma cell line. **2011**, 25, 2025-34		28
797	A planar conformation and the hydroxyl groups in the B and C rings play a pivotal role in the antioxidant capacity of quercetin and quercetin derivatives. **2011**, 16, 9636-50		46
796	Melatonin as a natural ally against oxidative stress: a physicochemical examination. **2011**, 51, 1-16		816
795	The effects of dietary consumption of plants secondary compounds on small ruminantsâ□products quality. **2011**, 101, 150-159		147

794	Comparative study on antioxidant capacity of flavonoids and their inhibitory effects on oleic acid-induced hepatic steatosis in vitro. **2011**, 46, 4548-58		28
793	Dietary chromones as antioxidant agents--the structural variable. **2011**, 2, 595-602		30
792	Mechanism and kinetics of the hydroxyl and hydroperoxyl radical scavenging activity of N-acetylcysteine amide. **2011**, 130, 51-60		22
791	Total phenolics, flavonoids, anthocyanins and antioxidant activity following simulated gastro-intestinal digestion and dialysis of apple varieties: Bioaccessibility and potential uptake. *Food Chemistry*, **2011**, 128, 14-21	8.5	397
790	Iron complexes of dietary flavonoids: Combined spectroscopic and mechanistic study of their free radical scavenging activity. *Food Chemistry*, **2011**, 129, 1567-1577	8.5	41
789	Antioxidant activity of hydroxytyrosol in frankfurters enriched with n-3 polyunsaturated fatty acids. *Food Chemistry*, **2011**, 129, 429-436	8.5	41
788	Density Functional Theory Calculations of the Radical Scavenging Activity of Alkannin Derivatives. **2012**, 189, 225-231		
787	Significance of dietary antioxidants for health. **2012**, 13, 173-9		27
786	1,1,2,2-Tetra-kis[2,4-dichloro-6-(dieth-oxy-meth-yl)phen-oxy-meth-yl]ethene. **2012**, 68, o2993-4		2
785	Antioxidant Activity of Plant Phenols: Chemical Mechanisms and Biological Significance. **2012**, 16, 692-714		74
784	Theoretical and experimental exploration of the photochemistry of resveratrol: beyond the simple double bond isomerization. **2012**, 10, 9175-82		24
783	Contribution of DFT computed molecular descriptors in the study of radical scavenging activity trend of natural hydroxybenzaldehydes and corresponding acids. **2012**, 48, 538-543		41
782	DFT study on the radical scavenging activity of dimethylacrylalkannin derivatives. **2012**, 38, 980-986		
781	Antioxidant properties, superoxide dismutase and glutathione reductase activities in HepG2 cells with a fungal endophyte producing apigenin from pigeon pea [Cajanus cajan (L.) Millsp.]. **2012**, 49, 147-152		31
780	Improving grape phenolic content and wine chromatic characteristics through the use of two different elicitors: methyl jasmonate versus benzothiadiazole. **2012**, 60, 1283-90		81
779	Inhibitory effect of antioxidant-rich marinades on the formation of heterocyclic aromatic amines in pan-fried beef. **2012**, 60, 6235-40		65
778	Development of a phenol-enriched olive oil with both its own phenolic compounds and complementary phenols from thyme. **2012**, 60, 3105-12		44
777	Synthesis and antioxidant activity of hydroxylated phenanthrenes as cis-restricted resveratrol analogues. *Food Chemistry*, **2012**, 135, 1011-9	8.5	22

776	Antiradical and antioxidant activities of new bio-antioxidants. **2012**, 94, 403-15		24
775	Free radical scavenging activity of morin 2'-O(-) phenoxide anion. *Food Chemistry*, **2012**, 135, 2070-7	8.5	40
774	HPLCâESI-Q-TOF-MS for a comprehensive characterization of bioactive phenolic compounds in cucumber whole fruit extract. **2012**, 46, 108-117		94
773	Analysis and Antioxidant Capacity of Anthocyanin Pigments. Part III: An Introduction to Sample Preparation and Extraction. **2012**, 42, 284-312		13
772	Analysis and Antioxidant Capacity of Anthocyanin Pigments. Part IV: Extraction of Anthocyanins. **2012**, 42, 313-342		39
771	DFT/B3LYP study of the substituent effects on the reaction enthalpies of the antioxidant mechanisms of Indole-3-Carbinol derivatives in the gas-phase and water. **2012**, 999, 34-42		16
770	Antioxidants: Introduction. **2012**, 1-21		
769	A THEORETICAL STUDY ON THE ANTIOXIDANT PROPERTY OF GALLIC ACID AND ITS DERIVATIVES. **2012**, 11, 391-402		20
768	On the free radical scavenging mechanism of protocatechuic acid, regeneration of the catechol group in aqueous solution. **2012**, 131, 1		32
767	Capsaicin, a tasty free radical scavenger: mechanism of action and kinetics. **2012**, 116, 1200-8		75
766	Tebrophen--an old polyphenol drug with anticancer potential. **2012**, 17, 7864-86		2
765	Dietary Derived Antioxidants: Implications on Health. **2012**,		8
764	Whole Grain Consumption and Health of the Lower Gastrointestinal Tract: A Focus on Insoluble-Bound Phenolic Compounds. **2012**,		2
763	Plant Polyphenols as Antioxidants Influencing the Human Health. **2012**,		14
762	Structural and binding properties of metal ion chelators relevant to Alzheimer's disease. A theoretical investigation. **2012**, 112, 2109-2114		3
761	On the â•H and â•OH scavenging activity of 3-methyl-1-pyridin-2-yl-5-pyrazolone: Comparisons with its parent compound, edaravone. **2012**, 112, 3441-3448		19
760	Free radical scavenging activity of caffeine's metabolites. **2012**, 112, 3472-3478		14
759	On the energetics of homolytic and heterolytic OH bond cleavage in flavonoids. **2012**, 991, 192-200		56

758	Antioxidant activity of trans-resveratrol toward hydroxyl and hydroperoxyl radicals: a quantum chemical and computational kinetics study. **2012**, 77, 3868-77		183
757	DPPH radical scavenging activity of tricin and its conjugates isolated from "Njavara" rice bran: a density functional theory study. **2012**, 60, 3693-9		35
756	On the peroxyl scavenging activity of hydroxycinnamic acid derivatives: mechanisms, kinetics, and importance of the acid-base equilibrium. **2012**, 14, 12534-43		54
755	Analysis and Antioxidant Capacity of Anthocyanin Pigments. Part I: General Considerations Concerning Polyphenols and Flavonoids. **2012**, 42, 102-125		66
754	Analysis and Antioxidant Capacity of Anthocyanin Pigments. Part II: Chemical Structure, Color, and Intake of Anthocyanins. **2012**, 42, 126-151		131
753	Influence of the environment on the protective effects of guaiacol derivatives against oxidative stress: mechanisms, kinetics, and relative antioxidant activity. **2012**, 116, 7129-37		30
752	A flavonol triglycoside and investigation of the antioxidant and cell stimulating activities of Annona muricata Linn. **2012**, 35, 761-7		49
751	A quantum chemical study on the free radical scavenging activity of tyrosol and hydroxytyrosol. **2012**, 131, 1		34
750	Antioxidant capacity and phenolics of Pouteria macrophylla, an under-utilized fruit from Brazilian Amazon. **2012**, 234, 761-768		5
749	Quantum-chemical investigation of the structure and the antioxidant properties of α-lipoic acid and its metabolites. **2012**, 18, 2907-16		48
748	Preservation of polyunsaturated fatty acyl glycerides via intramolecular antioxidant coupling. **2012**, 165, 530-6		4
747	Phenolic profile and antioxidant activities of olive mill wastewater. *Food Chemistry*, **2012**, 132, 406-12	8.5	122
746	PM6 and DFT study of free radical scavenging activity of morin. *Food Chemistry*, **2012**, 134, 1754-60	8.5	86
745	Design, synthesis, and antitumor evaluation of 2,4,6-triaryl pyridines containing chlorophenyl and phenolic moiety. **2012**, 52, 123-36		48
744	Chemical composition, antioxidant, and antimicrobial activities of essential oil from pine needle (Cedrus deodara). **2012**, 77, C824-9		61
743	Phenol-Based Antioxidants and the In Vitro Methods Used for Their Assessment. **2012**, 11, 148-173		223
742	Boosting antioxidants by lipophilization: a strategy to increase cell uptake and target mitochondria. **2013**, 30, 1979-89		33
741	On the radical scavenging activity of isoflavones: thermodynamics of O-H bond cleavage. **2013**, 15, 10895-903		69

740	Theoretical investigation of stereochemistry and solvent influence on antioxidant activity of ferulic acid. **2013**, 1012, 33-40		55
739	Theoretical study on the antioxidant properties of 2'-hydroxychalcones: H-atom vs. electron transfer mechanism. **2013**, 19, 3851-62		28
738	Facile synthesis of furoquinoline and effects on radical-induced oxidation of DNA. **2013**, 22, 1563-1569		4
737	DFT-Based Quantum Chemical Studies on Conformational, Electronic and Antioxidant Properties of Isobavachalcone and 4-Hydroxyderricin. **2013**, 8, 250-255		9
736	Piceatannol, a better peroxyl radical scavenger than resveratrol. **2013**, 3, 20209		64
735	PM6 study of free radical scavenging mechanisms of flavonoids: why does O-H bond dissociation enthalpy effectively represent free radical scavenging activity?. **2013**, 19, 2593-603		65
734	Investigation of the antioxidant properties of hyperjovinol A through its Cu(II) coordination ability. **2013**, 19, 2127-42		38
733	Emulsifier-phenol bioconjugates as antioxidants. Molecular descriptors based on density functional theory in quantitative structureâ□ctivity relationships. **2013**, 54, 230-238		3
732	The Seâ□H bond of benzeneselenols (ArSe-H): Relationship between bond dissociation enthalpy and spin density of radicals. **2013**, 415, 18-25		4
731	Density functional study of the antioxidant activity of some recently synthesized resveratrol analogues. *Food Chemistry*, **2013**, 141, 2017-24	8.5	46
730	Inhibition of lipid oxidation and rancidity in precooked pork patties by radical-scavenging licorice (Glycyrrhiza glabra) extract. **2013**, 78, C1686-94		43
729	A reappraisal of traditional apple cultivars from Southern Italy as a rich source of phenols with superior antioxidant activity. *Food Chemistry*, **2013**, 140, 672-9	8.5	50
728	Fundamental insights into conformational stability and orbital interactions of antioxidant (+)-catechin species and complexation of (+)-catechin with zinc(II) and oxovanadium(IV). **2013**, 1047, 344-357		11
727	Antioxidant properties of phenolic Schiff bases: structure-activity relationship and mechanism of action. **2013**, 27, 951-64		63
726	The antioxidant activity and active component of Gnaphalium affine extract. **2013**, 58, 311-7		17
725	Density functional predictions of antioxidant activity and UV spectral features of nasutin A, isonasutin, ellagic acid, and one of its possible derivatives. **2013**, 61, 9650-7		36
724	The impact of in vitro digestion on bioaccessibility of polyphenols from potatoes and sweet potatoes and their influence on iron absorption by human intestinal cells. **2013**, 4, 1595-601		30
723	Theoretical investigation of the conformational, electronic and antioxidant properties of azaleatin, isorhamnetin and quercetagetin. **2013**, 39, 72-83		11

722	Dose-dependent interaction of trans-resveratrol with biomembranes: effects on antioxidant property. **2013**, 56, 970-81		49
721	Why is quercetin a better antioxidant than taxifolin? Theoretical study of mechanisms involving activated forms. **2013**, 19, 2165-72		30
720	On the free radical scavenging activities of melatonin's metabolites, AFMK and AMK. **2013**, 54, 245-57		569
719	Impact of antioxidants dispersions on the stability and oxidation of water-in-olive-oil emulsions. **2013**, 236, 319-328		25
718	Performance of an integrated approach for prediction of bond dissociation enthalpies of phenols extracted from ginger and tea. **2013**, 555, 44-50		7
717	Anthraquinone profile, antioxidant and antimicrobial activity of bark extracts of Rhamnus alaternus, R. fallax, R. intermedia and R. pumila. *Food Chemistry*, **2013**, 136, 335-41	8.5	49
716	Appraisal of in vitro and in vivo antioxidant activity potential of cornelian cherry leaves. **2013**, 62, 448-55		39
715	Quercetin vs chrysin: effect on liver histopathology in diabetic mice. **2013**, 32, 1058-66		36
714	Carnosic acid protects against ROS/RNS-induced protein damage and upregulates HO-1 expression in RAW264.7 macrophages. **2013**, 5, 362-369		19
713	On the adsorption and electrochemical oxidation of flavones apigenin and acacetin at a glassy carbon electrode. **2013**, 708, 108-115		5
712	Experimental and DFT studies on the antioxidant activity of a C-glycoside from Rhynchosia capitata. **2013**, 103, 442-52		40
711	Antioxidant capacity of anthocyanins from Rhodomyrtus tomentosa (Ait.) and identification of the major anthocyanins. *Food Chemistry*, **2013**, 139, 1-8	8.5	45
710	Antioxidant therapy: still in search of the 'magic bullet'. **2013**, 13, 427-35		43
709	Molecular mechanism underlying anti-inflammatory and anti-allergic activities of phytochemicals: an update. **2012**, 18, 322-53		146
708	Significance of antioxidants for seafood safety and human health. **2013**, 61, 475-91		59
707	A DFT study on the structure and radical scavenging activity of newly synthesized hydroxychalcones. **2013**, 26, 240-248		19
706	Tyrosol exerts a protective effect against dopaminergic neuronal cell death in in vitro model of Parkinson's disease. *Food Chemistry*, **2013**, 141, 1147-57	8.5	36
705	Introduction of primary antioxidant activity to chitosan for application as a multifunctional food packaging material. **2013**, 33, 207-214		151

704	Relationship between the structures of flavonoids and oxygen radical absorbance capacity values: a quantum chemical analysis. **2013**, 117, 1784-94		39
703	Variation and correlation analysis of phenolic compounds in mungbean (Vigna radiata L.) varieties. *Food Chemistry*, **2013**, 141, 2988-97	8.5	20
702	Composition and antioxidant activity of aqueous and ethanolic Pelargonium radula extracts. **2013**, 85, 17-22		13
701	Plant Polyphenols: Recent Advances in Epidemiological Research and Other Studies on Cancer Prevention. **2013**, 39, 269-295		12
700	A DFT and PM6 study of free radical scavenging activity of ellagic acid. **2013**, 144, 803-812		22
699	Rapid high-throughput assay to assess scavenging capacity index using DPPH. *Food Chemistry*, **2013** , 141, 788-94	8.5	26
698	Polyphenol Purification by Solid Support-Free Liquidâ□liquid Chromatography (CCC, CPC). **2013**, 2145-2172		1
697	A physicochemical examination of the free radical scavenging activity of Trolox: mechanism, kinetics and influence of the environment. **2013**, 15, 4642-50		154
696	Bond dissociation free energy as a general parameter for flavonoid radical scavenging activity. *Food Chemistry*, **2013**, 141, 1562-70	8.5	71
695	Synthesis and antioxidant activities of novel 5-chlorocurcumin, complemented by semiempirical calculations. **2013**, 2013, 354982		15
694	On the hydroperoxyl radical scavenging activity of two Edaravone derivatives: mechanism and kinetics. **2013**, 26, 261-268		4
693	Theoretical Study of the Substituent and Solvent Effects on the Reaction Enthalpies of the Antioxidant Mechanisms of Tyrosol Derivatives. **2013**, 86, 497-509		8
692	Understanding the molecular aspects of tetrahydrocannabinol and cannabidiol as antioxidants. **2013**, 18, 12663-74		61
691	Superoxide scavenging effects of some novel bis-ligands and their solvated metal complexes prepared by the reaction of ligands with aluminum, copper and lanthanum ions. **2013**, 18, 6128-41		7
690	Evaluation of the antiradical properties of phenolic acids. **2014**, 15, 16351-80		41
689	Kinetics and Mechanistic Studies on the Reaction between Cytochrome c and Tea Catechins. **2014**, 3, 559-68		10
688	Managing Oxidative Stress/Targeting ROS. **2014**, 127-146		
687	Effect of extraction solvent on antiradical activity of the obtained propolis extracts. **2014**, 53, 91-100		8

686	Oxidative Stress Mechanisms and their Modulation. **2014**,		9
685	Experimental and theoretical investigations on the antioxidant activity of isoorientin from Crotalaria globosa. **2014**, 121, 737-45		16
684	2-Alkenal-scavenging ability of m-diphenols. *Food Chemistry*, **2014**, 160, 118-26	8.5	31
683	Theoretical study on the peroxyl radicals scavenging activity of esculetin and its regeneration in aqueous solution. **2014**, 16, 1197-207		27
682	Towards an improved prediction of the free radical scavenging potency of flavonoids: the significance of double PCET mechanisms. *Food Chemistry*, **2014**, 152, 578-85	8.5	47
681	Content of Antioxidants, Antioxidant Capacity and Oxidative Stability of Grape Seed Oil Obtained by Ultra Sound Assisted Extraction. **2014**, 91, 989-999		30
680	Oxidation of kaempferol and its iron(III) complex by DPPH radicals: spectroscopic and theoretical study. **2014**, 145, 557-563		10
679	Theoretical and Experimental Study on the Inhibition of Diethyl Ether Oxidation. **2014**, 28, 2821-2829		5
678	Determination of the total polyphenolic content in Cirsium palustre (L.) leaves extracts with manganese(IV) chemiluminescence detection. *Food Chemistry*, **2014**, 152, 155-61	8.5	16
677	Eugenol derivatives as potential anti-oxidants: is phenolic hydroxyl necessary to obtain an effect?. **2014**, 66, 733-46		27
676	On the structure of Zn(II) and Cu(II) cyanin complexes in aqueous solution. **2014**, 25, 1647-1657		2
675	Antioxidant properties of selected 4-phenyl hydroxycoumarins: Integrated in vitro and computational studies. **2014**, 214, 49-56		34
674	Determination of phenolic contents and antioxidant activities of extracts of Jatropha curcas L. seed shell, a by-product, a new source of natural antioxidant. **2014**, 58, 265-270		44
673	Antioxidant activity and characterization of antioxidant polysaccharides from pine needle (Cedrus deodara). **2014**, 108, 58-64		47
672	Dihydroxybenzoic acids as free radical scavengers: mechanisms, kinetics, and trends in activity. **2014**, 38, 2639		34
671	Total antioxidant activity and antimicrobial potency of the essential oil and oleoresin of Zingiber officinale Roscoe. **2014**, 4, 40-44		46
670	Phenolic composition and antioxidant activity in sparkling wines: modulation by the ageing on lees. *Food Chemistry*, **2014**, 145, 292-9	8.5	25
669	Efficient Antioxidant Formulations for Use in Biodiesel. **2014**, 28, 1074-1080		27

668	Density functional theory study of the structure-antioxidant activity of polyphenolic deoxybenzoins. *Food Chemistry*, **2014**, 151, 198-206	8.5	94
667	Elucidation of complexation multi-equilibrium with MgII and a multisite ligand. A combined electronic spectroscopies and DFT investigation. **2014**, 4, 29050-29061		11
666	New free radicals to measure antiradical capacity: a theoretical study. **2014**, 118, 10092-100		2
665	Comparison of Electrochemical Oxidation of Flavonols and Calculated Proton Affinity and Electron Transfer Enthalpy in Water. **2014**, 26, 910-918		6
664	Cyclic 3-hydroxymelatonin, a key metabolite enhancing the peroxyl radical scavenging activity of melatonin. **2014**, 4, 5220		40
663	Origanum species native to the island of Crete: in vitro antioxidant characteristics and liquid chromatography-mass spectrometry identification of major polyphenolic components. **2014**, 28, 1284-7		14
662	Radical scavenging ability of gallic acid toward OH and OOH radicals. Reaction mechanism and rate constants from the density functional theory. **2014**, 118, 10380-9		101
661	Mechanistic and kinetic study on the reactions of coumaric acids with reactive oxygen species: a DFT approach. **2014**, 62, 9705-10		19
660	Thermodynamical aspect of radical scavenging activity of alizarin and alizarin red S. Theoretical comparative study. **2014**, 1047, 15-21		20
659	Lipoic acid and dihydrolipoic acid. A comprehensive theoretical study of their antioxidant activity supported by available experimental kinetic data. **2014**, 54, 1642-52		31
658	Antioxidant features of red wine pyranoanthocyanins: experimental and theoretical approaches. **2014**, 62, 7002-9		39
657	Evaluation of the antiradical activity of hyperjovinol-A utilizing donor-acceptor maps. **2014**, 20, 2337		15
656	Theoretical investigation on the antioxidative activity of anthocyanidins: A DFT/B3LYP study. **2014**, 103, 175-182		37
655	Theoretical insights on the antioxidant activity of edaravone free radical scavengers derivatives. **2014**, 599, 73-79		3
654	Antioxidant potential of orientin: A combined experimental and DFT approach. **2014**, 1061, 114-123		54
653	Isoflavones and anthocyanins analysis in soybean (Glycine max (L.) Merill) from three different planting locations in Korea. **2014**, 156, 76-83		20
652	Ellagic acid: an unusually versatile protector against oxidative stress. **2014**, 27, 904-18		72
651	Effect of dietary supplementation with red wine extract or vitamin E, in combination with linseed and fish oil, on lamb meat quality. **2014**, 98, 116-23		37

650	Release kinetics of flavonoids in methyl linoleate from microparticles designed with inulin and channelizing agent. **2014**, 64, 99-105	14
649	A Quantum Chemical and Statistical Study of Phenolic Schiff Bases with Antioxidant Activity against DPPH Free Radical. **2014**, 3, 309-22	17
648	Resources and biological activities of natural polyphenols. **2014**, 6, 6020-47	420
647	Encapsulation Technologies for Modifying Food Performance. **2015**, 667-708	
646	Comparative Phenolic Fingerprint and LC-ESI+QTOF-MS Composition of Oregano and Rosemary Hydrophilic Extracts in Relation to their Antibacterial Effect. **2015**, 72,	6
645	Phytochelators Intended for Clinical Use in Iron Overload, Other Diseases of Iron Imbalance and Free Radical Pathology. **2015**, 20, 20841-72	29
644	Computational studies of free radical-scavenging properties of phenolic compounds. **2015**, 15, 85-104	56
643	Structure-thermodynamics-antioxidant activity relationships of selected natural phenolic acids and derivatives: an experimental and theoretical evaluation. **2015**, 10, e0121276	93
642	Quantum Chemical Study on the Antioxidation Mechanism of Piceatannol and Isorhapontigenin toward Hydroxyl and Hydroperoxyl Radicals. **2015**, 10, e0133259	18
641	Detoxification Processes from Vanadate at the Root Apoplasm Activated by Caffeic and Polygalacturonic Acids. **2015**, 10, e0141041	8
640	Effects of polyphenols from grape seeds on renal lithiasis. **2015**, 2015, 813737	16
639	Apple juice attenuates genotoxicity and oxidative stress induced by cadmium exposure in multiple organs of rats. **2015**, 32, 7-12	10
638	Antioxidant activity of some phenolic aldehydes and their diimine derivatives: A DFT study. **2015**, 1060, 17-23	15
637	Plant-Derived Polyphenols: A Chemopreventive and Chemoprotectant Worth-Exploring Resource in Toxicology. **2015**, 9, 161-214	17
636	Luteolin organic solvent interactions. A molecular dynamics simulation analysis. **2015**, 212, 503-508	6
635	Adrenaline and noradrenaline: protectors against oxidative stress or molecular targets?. **2015**, 119, 3479-91	46
634	Optimization of supercritical fluid consecutive extractions of fatty acids and polyphenols from Vitis vinifera grape wastes. **2015**, 80, E101-7	31
633	A theoretical antioxidant pharmacophore for natural hydroxycinnamic acids. **2015**, 13,	21

632	Structural basis for acceptor-substrate recognition of UDP-glucose: anthocyanidin 3-O-glucosyltransferase from Clitoria ternatea. **2015**, 24, 395-407		45
631	Effect of molecular weight reduction by gamma irradiation on the antioxidant capacity of chitosan from lobster shellsPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. **2015**, 8, 190-200		40
630	Elucidation of key antioxidant components in red wine via challenge with a range of oxidants using an HPLC comparison to faux wine. **2015**, 14, 11-18		
629	Antioxidant properties of xanthones extracted from the pericarp of Garcinia mangostana (Mangosteen): A theoretical study. **2015**, 625, 30-35		40
628	Exploring the anti-diabetic potential of Australian Aboriginal and Indian Ayurvedic plant extracts using cell-based assays. **2015**, 15, 8		20
627	Radical scavenging activity characterization of synthetic isochroman-derivatives of hydroxytyrosol: A gas-phase DFT approach. **2015**, 76, 506-510		20
626	N-Acetylserotonin and 6-Hydroxymelatonin against Oxidative Stress: Implications for the Overall Protection Exerted by Melatonin. **2015**, 119, 8535-43		42
625	A computational study for the antioxidant capacity increases in hydroxy-derivatives of paracetamol and salicylic acid. **2015**, 24, 3453-3459		6
624	Antioxidant, cytoprotective, anti-inflammatory and anticancer activities of Pistacia lentiscus (Anacardiaceae) leaf and fruit extracts. **2015**, 7, 274-286		53
623	QSAR of the free radical scavenging potency of selected hydroxybenzoic acids and simple phenolics. **2015**, 18, 492-498		22
622	Antioxidants: Characterization, natural sources, extraction and analysis. **2015**, 74, 10-36		296
621	Metabolic profiling of antioxidants constituents in Artemisia selengensis leaves. *Food Chemistry*, **2015**, 186, 123-32	8.5	26
620	Exploring cinnamic acid scaffold: development of promising neuroprotective lipophilic antioxidants. **2015**, 6, 1043-1053		24
619	Synergism of antioxidant action of vitamins E, C and quercetin is related to formation of molecular associations in biomembranes. **2015**, 51, 7713-6		50
618	Antioxidant activity of phenolic compounds added to a functional emulsion containing omega-3 fatty acids and plant sterol esters. *Food Chemistry*, **2015**, 182, 95-104	8.5	46
617	Gallic acid: a versatile antioxidant with promising therapeutic and industrial applications. **2015**, 5, 27540-27557		453
616	Redox cycling of endogenous copper by ferulic acid leads to cellular DNA breakage and consequent cell death: A putative cancer chemotherapy mechanism. **2015**, 289, 251-61		29
615	Inhibitory effects of Ligustrum robustum (Rxob.) Blume extract on □amylase and □glucosidase. **2015**, 19, 204-213		18

614	Ameliorative Influence of Green Tea Extract on Copper Nanoparticle-Induced Hepatotoxicity in Rats. **2015**, 10, 363		31
613	Synthesis, structures, electrochemical studies and antioxidant activities of cis-dioxomolybdenum(VI) complexes of the new bisthiocarbohydrazones. **2015**, 1102, 117-126		20
612	Antioxidant properties can be tuned in the presence of an external electric field: accurate computation of OâH BDE with range-separated density functionals. **2015**, 5, 78229-78237		6
611	Hydroxylated 2,4-diphenyl indenopyridine derivatives as a selective non-intercalative topoisomerase II catalytic inhibitor. **2015**, 90, 302-14		23
610	Natural polyphenols binding to amyloid: a broad class of compounds to treat different human amyloid diseases. **2015**, 59, 8-20		68
609	Antioxidant and cytoprotective activities of extracts prepared from fruit and vegetable wastes and by-products. *Food Chemistry*, **2015**, 167, 358-62	8.5	45
608	Theoretical study on the structural and antioxidant properties of some recently synthesised 2,4,5-trimethoxy chalcones. *Food Chemistry*, **2015**, 171, 89-97	8.5	94
607	A quest for staunch effects of flavonoids: Utopian protection against hepatic ailments. **2016**, 9, S1813-S1823		13
606	Avaliaã âh vitroâdo efeito da infusã de Cunila microcephala Benth sobre a atividade da enzima acetilcolinesterase e biomarcadores de estresse oxidativo em eritrcitos de agricultores. **2016**, 18, 341-348		2
605	Evaluation of the Antioxidant Capacities and Cytotoxic Effects of Ten Lichen Species. **2016**, 2016, 3169751		11
604	Structural and Antioxidant Properties of Compounds Obtained from Fe Chelation by Juglone and Two of Its Derivatives: DFT, QTAIM, and NBO Studies. **2016**, 2016, 8636409		8
603	DFT Studies of Caffeic Acid Antioxidant: Molecular Orbitals and Composite Reactivity Maps Correlation with Photophysical Characteristics and Photochemical Stability. **2016**, 2016, 1-8		3
602	Phenolic Composition, Antioxidant Activity, andIn VitroAvailability of Four Different Berries. **2016**, 2016, 1-7		28
601	Effect of Betula pendula Leaf Extract on Glucosidase and Glutathione Level in Glucose-Induced Oxidative Stress. **2016**, 2016, 8429398		4
600	Theoretical and Kinetic Tools for Selecting Effective Antioxidants: Application to the Protection of Omega-3 Oils with Natural and Synthetic Phenols. **2016**, 17,		24
599	Electrochemical Behavior and Determination of Chlorogenic Acid Based on Multi-Walled Carbon Nanotubes Modified Screen-Printed Electrode. **2016**, 16,		21
598	Earthworms and Grape Marc: Simultaneous Production of a High-Quality Biofertilizer and Bioactive-Rich Seeds. **2016**,		5
597	The Physical Chemistry of Polyphenols. **2016**, 1-35		4

596	Theoretical simulations on the antioxidant mechanism of naturally occurring flavonoid: A DFT approach. **2016**,	2
595	Deprotonation of flavonoids severely alters the thermodynamics of the hydrogen atom transfer. **2016**, 1085, 7-17	28
594	Simulation of oleuropein structural conformation in vacuum, water and triolein-water systems using molecular dynamics. **2016**, 88, 79-90	7
593	Hypothesis for the Mechanism of Ascorbic Acid Activity in Living Cells Related to Its Electron-Accepting Properties. **2016**, 120, 2667-76	18
592	Naringenin ameliorates pathological changes in liver and kidney of diabetic mice: a preliminary study. **2016**, 67, 19-24	19
591	Lipid oxidation in base algae oil and water-in-algae oil emulsion: Impact of natural antioxidants and emulsifiers. **2016**, 85, 162-169	26
590	Influence of the geometric isomers on the radical scavenging properties of 3,5-dicaffeoylquinic acid: A DFT study in vacuo and in solution. **2016**, 15, 1650052	2
589	In vitro anti-inflammatory and anti-oxidant activities of Sri Lankan medicinal plants. **2016**, 94, 610-620	29
588	Benchmarking the DFT methodology for assessing antioxidant-related properties: quercetin and edaravone as case studies. **2016**, 22, 250	18
587	Antioxidant activity of commercial food grade tannins exemplified in a wine model. **2016**, 33, 1761-1774	22
586	Free radical scavenging and COX-2 inhibition by simple colon metabolites of polyphenols: A theoretical approach. **2016**, 65, 45-53	22
585	Dimerization of quercetin, Diels-Alder vs. radical-coupling approach: a joint thermodynamics, kinetics, and topological study. **2016**, 22, 190	9
584	Multivariate analysis for the safety assessment of genetically modified rices in the anti-nutrients and phenolic compounds. **2016**, 51, 765-776	4
583	Potent 1,2,4-Triazole-3-thione Radical Scavengers Derived from Phenolic Acids: Synthesis, Electrochemistry, and Theoretical Study. **2016**, 1, 3870-3878	8
582	Role of Antioxidants in Human Health. **2016**, 501-512	
581	Microencapsulated bioactive components as a source of health. **2016**, 455-501	1
580	Theoretical Study on the Photosensitizer Mechanism of Phenalenone in Aqueous and Lipid Media. **2016**, 120, 6103-10	10
579	The effect of exposure to Pyrinex 480 on the degradation of clear oxodegradable polyethylene agricultural films. **2016**, 134, 328-339	4

578	Reduction of radiation-induced nitrative stress in leucocytes and kidney cells of rats upon administration of polyphenolic complex concentrates from red wine. **2016**, 50, 187-195		2
577	Adaptation of wheat cells to short-term ozone stress: the impact of ±tocopherol and gallic acid on natural and model membranes. **2016**, 38, 1		6
576	±Tocopherol/Gallic Acid Cooperation in the Protection of Galactolipids Against Ozone-Induced Oxidation. **2016**, 249, 87-95		7
575	A combined experimentalâ□heoretical study of the acidâ□ase behavior of mangiferin: implications for its antioxidant activity. **2016**, 6, 51171-51182		7
574	Polyphenol-chitosan conjugates: Synthesis, characterization, and applications. **2016**, 151, 624-639		131
573	Myricetin, rosmarinic and carnosic acids as superior natural antioxidant alternatives to ±tocopherol for the preservation of omega-3 oils. *Food Chemistry*, **2016**, 213, 284-295	8.5	45
572	Microencapsulation and storage stability of polyphenols from Vitis vinifera grape wastes. *Food Chemistry*, **2016**, 190, 614-621	8.5	59
571	Food Antioxidants: Chemical Insights at the Molecular Level. **2016**, 7, 335-52		222
570	Therapeutic Effect of Chrysin on Adenine-Induced Chronic Kidney Disease in Rats. **2016**, 38, 248-57		21
569	A DFT study on the mechanism and kinetics of reactions of pterostilbene with hydroxyl and hydroperoxyl radicals. **2016**, 1077, 113-118		6
568	Anthranilic acid as a secondary antioxidant: Implications to the inhibition of OH production and the associated oxidative stress. **2016**, 1077, 18-24		12
567	Encapsulation of gallic acid/cyclodextrin inclusion complex in electrospun polylactic acid nanofibers: Release behavior and antioxidant activity of gallic acid. **2016**, 63, 231-9		110
566	Simulation of electrocatalytic mechanism followed by chemical reaction. **2016**, 768, 129-133		3
565	Major Antioxidant Polyphenolic Phytochemicals of Three Salvia Species Endemic to the Island of Crete. **2016**, 22, 27-34		7
564	Contribution of phenolic acids isolated from green and roasted boiled-type coffee brews to total coffee antioxidant capacity. **2016**, 242, 641-653		45
563	A simple liposome assay for the screening of zinc ionophore activity of polyphenols. *Food Chemistry* , **2016**, 197, 916-23	8.5	9
562	Exploiting the cyclodextrins ability for antioxidants encapsulation: A computational approach to carnosol and carnosic acid embedding. **2016**, 1077, 65-73		19
561	Soybean aglycones antioxidant activity. A theoretical investigation. **2016**, 1077, 119-124		8

560	Chelation behavior of various flavonols and transfer of flavonol-chelated zinc(II) to alanylaspartic dipeptide: A PCM/DFT investigation. **2016**, 1107, 278-290		7
559	Boosting effect of ortho-propenyl substituent on the antioxidant activity of natural phenols. *Food Chemistry*, **2016**, 196, 418-27	8.5	22
558	Antioxidant properties comparative study of natural hydroxycinnamic acids and structurally modified derivatives: Computational insights. **2016**, 1077, 39-47		34
557	Influence of structural characteristics of substituents on the antioxidant activity of some anthraquinone derivatives. **2016**, 1077, 25-31		20
556	The 2H+/2eâ free radical scavenging mechanisms of uric acid: thermodynamics of NH bond cleavage. **2016**, 1077, 2-10		9
555	Are food compounds able to modulate noxious activities induced by cadmium exposure?. **2017**, 57, 632-636		9
554	Ellagitannin geraniin: a review of the natural sources, biosynthesis, pharmacokinetics and biological effects. **2017**, 16, 159-193		38
553	3-methoxy aroylhydrazones - free radicals scavenging, anticancer and cytoprotective potency. **2017**, 22, 408-417		8
552	Antioxidant and antibacterial activities of various extracts of Inula cuspidata C.B. Clarke stem. **2017**, 6, 97-105		3
551	Novel perspectives on two Digitalis species: Phenolic profile, bioactivity, enzyme inhibition, and toxicological evaluation. **2017**, 109, 50-57		12
550	Importance of hydrogen bonding and aromaticity indices in QSAR modeling of the antioxidative capacity of selected (poly)phenolic antioxidants. **2017**, 72, 240-245		19
549	Olive Biophenols as New Antioxidant Additives in Food and Beverage. **2017**, 2, 1360-1365		14
548	Antioxidant and antigenotoxic potential of Ramaria largentii Marr & D. E. Stuntz, a wild edible mushroom collected from Northeast Romania. **2017**, 108, 429-437		15
547	Solvent effects on the intramolecular hydrogen-bond and anti-oxidative properties of apigenin: A DFT approach. **2017**, 141, 179-187		29
546	Low-Energy Electron Interaction with Melatonin and Related Compounds. **2017**, 121, 3965-3974		11
545	Phenolic Content and Antioxidant Activity during the Development of 'Brookfield' and 'Mishima' Apples. **2017**, 65, 3453-3459		21
544	Emerging Technologies of Hydrogels in Bioactive Compounds Delivery. **2017**, 227-263		
543	Chemical composition, antioxidant and anti-tyrosinase activities of fractions from Stenoloma chusanum. **2017**, 107, 539-545		9

542	A comparative investigation on the in vitro anti-inflammatory, antioxidant and antimicrobial potentials of subextracts from the aerial parts of Daphne oleoides Schreb. subsp. oleoides. **2017**, 95, 695-703		12
541	Toluene and Benzyl Alcohol Formation in Fruit Juices Containing Benzoates. **2017**, 41, e13054		13
540	Hydroxyflavone metal complexes - molecular structure, antioxidant activity and biological effects. **2017**, 273, 245-256		48
539	Antioxidative mechanisms in chlorogenic acid. *Food Chemistry*, **2017**, 237, 390-398	8.5	60
538	Fast characterization of C- glycoside acetophenones in Medemia argun male racemes (an Ancient Egyptian palm) using LC-MS analyses and computational study with their antioxidant effect. **2017**, 1145, 230-239		5
537	Synthesis of 4-aryl-1,2,3-triazolyl appended natural coumarin-related compounds with antiproliferative and radical scavenging activities and intracellular ROS production modification. **2017**, 41, 7531-7543		20
536	Silybin interacting with Cu 4 , Ag 4 and Au 4 clusters: Do these constitute antioxidant materials?. **2017**, 1112, 1-9		12
535	Feasibility study on biostimulation of dye decolorization and bioelectricity generation by using decolorized metabolites of edible flora-extracts. **2017**, 79, 141-150		12
534	Impact of drying and micronization on the physicochemical properties and antioxidant activities of celery stalk. **2017**, 97, 4539-4547		9
533	Food Bioactives. **2017**,		6
532	Donor-acceptor interactions as descriptors of the free radical scavenging ability of flavans and catechin. **2017**, 1110, 14-24		11
531	Free radicals and polyphenols: The redox chemistry of neurodegenerative diseases. **2017**, 133, 379-402		134
530	Extraction, identification, and antioxidant and anticancer tests of seven dihydrochalcones from Malus 'Red Splendor' fruit. *Food Chemistry*, **2017**, 231, 324-331	8.5	38
529	Structural analysis of flavonoids in solution through DFT 1H NMR chemical shift calculations: Epigallocatechin, Kaempferol and Quercetin. **2017**, 676, 46-52		34
528	An improved method for extraction of nutraceutically important polyphenolics from Berberis jaeschkeana C.K. Schneid. fruits. *Food Chemistry*, **2017**, 230, 657-666	8.5	34
527	Poly(ethylene glycol)/Ecyclodextrin covalent gel networks: host matrices for studying radical processes in plant extractâ€boflavin systems following UV irradiation. **2017**, 71, 607-616		3
526	Effect of Spray-Dried Flavonoid Microparticles on Oxidative Stability of Methyl Linoleate as Lipid Model System. **2017**, 94, 99-105		2
525	Antioxidant properties of several caffeic acid derivatives: A´theoretical study. **2017**, 20, 1072-1082		14

524	Technological characteristics of cold-set gelled double emulsion enriched with n-3 fatty acids: Effect of hydroxytyrosol addition and chilling storage. **2017**, 100, 298-305	10
523	Current evidence on the effect of dietary polyphenols intake on chronic diseases. **2017**, 110, 286-299	139
522	Biological Actions of Phenolic Compounds. **2017**, 125-138	2
521	Optimization of the extraction of phenolic compounds from Scirpus holoschoenus using a simplex centroid design for antioxidant and antibacterial applications. **2017**, 86, 635-642	12
520	Is Vitamin A an Antioxidant or a Pro-oxidant?. **2017**, 121, 9348-9357	29
519	Complexes of arzanol with a Cu ion: a DFT study. **2017**, 23, 276	14
518	Antioxidant Activity of Quercetin and Its Glucosides from Propolis: A Theoretical Study. **2017**, 7, 7543	129
517	DFT predictions, synthesis, stoichiometric structures and anti-diabetic activity of Cu (II) and Fe (III) complexes of quercetin, morin, and primuletin. **2017**, 1150, 459-468	23
516	Chlorogenic acid protects against aluminium-induced cytotoxicity through chelation and antioxidant actions in primary hippocampal neuronal cells. **2017**, 8, 2924-2934	33
515	Phenolic compounds of Triplaris gardneriana can protect cells against oxidative stress and restore oxidative balance. **2017**, 93, 1261-1268	8
514	Compounds from Ilex paraguariensis extracts have antioxidant effects in the brains of rats subjected to chronic immobilization stress. **2017**, 42, 1172-1178	11
513	Development of hydroxybenzoic-based platforms as a solution to deliver dietary antioxidants to mitochondria. **2017**, 7, 6842	23
512	A new, simplified model for the estimation of polyphenol oxidation potentials based on the number of OH groups. **2017**, 68, 93-98	8
511	On Trans-Resveratrol in Aqueous Solutions. **2017**, 46, 2214-2230	1
510	Improved Chemical Stability and Antiproliferative Activities of Curcumin-Loaded Nanoparticles with a Chitosan Chlorogenic Acid Conjugate. **2017**, 65, 10812-10819	32
509	Prospects and Challenges in Algal Biotechnology. **2017**,	7
508	Production of Primary and Secondary Metabolites Using Algae. **2017**, 311-326	7
507	Natural antioxidants as stabilizers for polymers. **2017**, 145, 25-40	81

506	A DFT and QSAR study of the role of hydroxyl group, charge and unpaired-electron distribution in anthocyanidin radical stabilization and antioxidant activity. **2017**, 26, 2666-2674		10
505	A model for the estimation of oxidation potentials of polyphenols. **2017**, 241, 255-259		8
504	Micromorphological and phytochemical traits of four Clinopodium L. species (Lamiaceae). **2017**, 111, 232-241		7
503	Microwave-assisted extraction (MAE) conditions using polynomial design for improving antioxidant phytochemicals in Berberis asiatica Roxb. ex DC. leaves. **2017**, 95, 393-403		47
502	Spectroscopic study of molecular structure, antioxidant activity and biological effects of metal hydroxyflavonol complexes. **2017**, 173, 757-771		54
501	Ellagic acid inhibits iron-mediated free radical formation. **2017**, 173, 910-917		19
500	Seasonal dynamics of the phytochemical constituents and bioactivities of extracts from Stenoloma chusanum (L.) Ching. **2017**, 108, 458-466		15
499	A computational investigation on the structure, global parameters and antioxidant capacity of a polyphenol, Gallic acid. *Food Chemistry*, **2017**, 220, 93-99	8.5	89
498	Thermodynamics-antioxidant activity relationships of some 4-benzylidenamino-4, 5-dihydro-1h-1,2,4-triazol-5-one derivatives: Theoretical evaluation. **2017**, 20, 1935-1948		4
497	Synthesis, characterization and biological studies of Schiff bases derived from heterocyclic moiety. **2017**, 70, 67-73		46
496	Polyphenols in Monogastric Nutrition â A Review. **2017**, 17, 41-58		59
495	Free radical scavenging potency of quercetin catecholic colonic metabolites: Thermodynamics of 2H/2e processes. *Food Chemistry*, **2017**, 218, 144-151	8.5	68
494	Assessment of free radical scavenging and anti-proliferative activities of Tinospora cordifolia Miers (Willd). **2017**, 17, 457		18
493	Crataegus orientalis Leaves and Berries: Phenolic Profiles, Antioxidant and Anti-inflammatory Activity. **2017**, 12, 1934578X1701200		4
492	Cannabidiol as an Antioxidant. **2017**, e122-e130		2
491	Theoretical Study about the Effect of Halogen Substitution on the Reactivity of Antitumor 3-Formylchromones and Their Free Radicals. **2017**, 2017, 1-5		2
490	Quantum Chemical Investigation on the Antioxidant Activity of Neutral and Anionic Forms of Juglone: Metal Chelation and Its Effect on Radical Scavenging Activity. **2017**, 2017, 1-14		1
489	Flavonoid Complexes as Promising Anticancer Metallodrugs. **2017**,		7

488	The Antioxidant Activity of Quercetin in Water Solution. **2017**, 2,		27
487	Anthocyanin Pigments: Importance, Sample Preparation and Extraction. **2017**,		11
486	A comparison of the morphological and biochemical characteristics of and cultured under photoautotrophic and mixotrophic conditions. **2017**, 5, e3473		30
485	Nanocarriers for Plant-Derived Natural Compounds. **2017**, 395-412		13
484	Addressing Facts and Gaps in the Phenolics Chemistry of Winery By-Products. **2017**, 22,		23
483	Selected anthraquinones as potential free radical scavengers and P-glycoprotein inhibitors. **2018**, 16, 1890-1902		16
482	Theoretical insight into the substituent effects on the antioxidant properties of 8-hydroxyquinoline derivatives in gas phase and in polar solvents. **2018**, 96, 453-458		3
481	Changes in bioaccessibility, polyphenol profile and antioxidant potential of flours obtained from persimmon fruit (Diospyros kaki) co-products during in vitro gastrointestinal digestion. *Food Chemistry*, **2018**, 256, 252-258	8.5	61
480	Energetic and Structural Properties of Two Phenolic Antioxidants: Tyrosol and Hydroxytyrosol. **2018**, 122, 4130-4137		12
479	Repair Activity of trans-Resveratrol toward 2'-Deoxyguanosine Radicals. **2018**, 122, 4397-4406		2
478	Use of polyphenols as a strategy to prevent bond degradation in the dentin-resin interface. **2018**, 126, 146-158		39
477	Study of reaction mechanism between guaiacol and Ca(OH)2 in water: Development of a novel phenol extraction method. **2018**, 172, 2853-2861		7
476	Effects of chlorogenic acid against aluminium neurotoxicity in ICR mice through chelation and antioxidant actions. **2018**, 40, 365-376		21
475	The natural food colorant Peonidin from cranberries as a potential radical scavenger - A DFT based mechanistic analysis. *Food Chemistry*, **2018**, 262, 184-190	8.5	22
474	A theoretical study of UV-Vis spectrum and antioxidant activity of chryso-obtusin. **2018**, 17, 1850015		
473	Effects of cooking and drying on phenolic compounds and antioxidant activity of African green leafy vegetables. **2018**, 34, 248-264		14
472	Use of nonthermal technologies in the production of functional beverages from vegetable ingredients to preserve heat-labile phytochemicals. **2018**, 42, e13506		8
471	Selective and simultaneous determination of total chlorogenic acids, vanillin and caffeine in foods and beverages by adsorptive stripping voltammetry using a cathodically pretreated boron-doped diamond electrode. **2018**, 257, 398-408		56

470	Evaluation of phenolic composition and antioxidant activity changes in olive flowers during development using HPLC/DAD and LC-MS/MS. **2018**, 39, 1663-1672		7
469	Energetic and electronic computation of the two-hydrogen atom donation process in catecholic and non-catecholic anthocyanidins. *Food Chemistry*, **2018**, 243, 145-150	8.5	8
468	The use of factorial design to evaluate the oxidation of oils containing different types of omega-3 fatty acids. **2018**, 98, 2518-2529		2
467	A DFT study of proton transfers for the reaction of phenol and hydroxyl radical leading to dihydroxybenzene and H2O in the water cluster. **2018**, 118, e25510		5
466	Experimental and theoretical study on DPPH radical scavenging mechanism of some chalcone quinoline derivatives. **2018**, 1156, 385-389		22
465	Lipids. **2018**, 1-53		
464	Heterocyclic Schiff bases as non toxic antioxidants: Solvent effect, structure activity relationship and mechanism of action. **2018**, 192, 181-187		30
463	The Substitution Effect on Reaction Enthalpies of Antioxidant Mechanisms of Juglone and Its Derivatives in Gas and Solution Phase: DFT Study. **2018**, 2018, 1-10		3
462	Ancient Tomato (Solanum lycopersicum L.) Varieties of Tuscany Have High Contents of Bioactive Compounds. **2018**, 4, 51		12
461	Quercetin modulates iron homeostasis and iNOS expression of splenic macrophages in a rat model of iron deficiency anemia. **2018**, 16, 580-589		3
460	Oleuropein-Rich Olive Leaf Extracts May Ameliorate Consequences of Glucose-Induced Oxidative Stress in Hep G2 Cells. **2018**, 13, 1934578X1801300		3
459	Challenges of Extraction Techniques of Natural Antioxidants and Their Potential Application Opportunities as Anti-Cancer Agents. **2018**, 12,		6
458	Antidiabetic, Antihypertensive and Antioxidant Properties of Grapevine Leaf Extracts Obtained by Ultrasound, Microwave Assisted, and Classical Solvent Extraction. **2018**, 60, 79-85		4
457	Ilex paraguariensis extracts extend the lifespan of Drosophila melanogaster fed a high-fat diet. **2017**, 51, e6784		10
456	Redox Homeostasis and Natural Dietary Compounds: Focusing on Antioxidants of Rice (L.). **2018**, 10,		11
455	Antioxidant Properties of the Vam3 Derivative of Resveratrol. **2018**, 23,		4
454	Antioxidant Activity of Gallic Acid as Affected by an Extra Carboxyl Group than Pyrogallol in Various Oxidative Environments. **2018**, 120, 1800319		21
453	Antiradical Activity and Mechanism of Coumarin-Chalcone Hybrids: Theoretical Insights. **2018**, 122, 8520-8529		22

452	The antioxidative activity of piceatannol and its different derivatives: Antioxidative mechanism analysis. **2018**, 156, 184-192	16
451	The influence of urban stress factors on responses of ground cover vegetation. **2018**, 25, 36194-36206	3
450	Capillary Blood GSH Level Monitoring, Using an Electrochemical Method Adapted for Micro Volumes. **2018**, 23,	4
449	A DFT study of molecular structure and 1H NMR, IR, and UV-Vis spectrum of Zn(II)-kaempferol complexes: A metal-flavonoid complex showing enhanced anticancer activity. **2018**, 118, e25773	12
448	A Graphene-based Electrochemical Sensor for the Individual, Selective and Simultaneous Determination of Total Chlorogenic Acids, Vanillin and Caffeine in Food and Beverage Samples. **2018**, 30, 2011-2020	13
447	Natural Antioxidants and Food Applications: Healthy Perspectives. **2018**, 31-64	7
446	A Two-Step Process for the Synthesis of Hydroxytyrosol. **2018**, 11, 2202-2210	10
445	Using molecular dynamics simulations to predict the effect of temperature on aqueous solubility for aromatic compounds. **2018**, 472, 85-93	6
444	The Traditional Medicinal Plants , , and Attenuate Inflammatory and Oxidative Mediators. **2018**, 2018, 1953726	5
443	Studies on the UV filtering and radical scavenging capacity of the bitter masking flavanone Eriodictyol. **2018**, 185, 254-261	7
442	Chrysin/Ecyclodextrin supramolecular system: a quantum mechanical investigation. **2018**, 15, 2401-2410	2
441	Photo-oxidation of some flavonoids with photochemically generated t-BuOâradicals in a t-BuOH water system using a kinetic approach. **2018**, 65, 1266-1273	3
440	Secondary Metabolites in the Green Synthesis of Metallic Nanoparticles. **2018**, 11,	175
439	Bioactive Compounds in Functional Meat Products. **2018**, 23,	55
438	Novel Nutraceutical Compounds. **2018**, 201-226	2
437	Synthesis, characterization and antioxidant activities of dioxomolybdenum(VI) complexes of new Schiff bases derived from substituted benzophenones. **2018**, 71, 3364-3380	14
436	The Substituent Effect on the Radical Scavenging Activity of Apigenin. **2018**, 23,	14
435	Amino-Substituted Benzamide Derivatives as Promising Antioxidant Agents: A Combined Experimental and Computational Study. **2018**, 31, 974-984	8

434	Biostimulant Potential of Humic Acids Extracted From an Amendment Obtained via Combination of Olive Mill Wastewaters (OMW) and a Pre-treated Organic Material Derived From Municipal Solid Waste (MSW). **2018**, 9, 1028		27
433	The surrounding environments on the structure and antioxidative activity of luteolin. **2018**, 24, 149		8
432	Polyphenolic profile of Cichorium intybus L. endemic varieties from the Veneto region of Italy. *Food Chemistry*, **2018**, 266, 175-182	8.5	24
431	QSAR of the free radical scavenging potency of selected hydroxyanthraquinones. **2018**, 72, 2785-2793		2
430	The impact of high-power ultrasound and microwave on the phenolic acid profile and antioxidant activity of the extract from yellow soybean seeds. **2018**, 122, 223-231		31
429	Assessment of the State-of the-Art Developments in the Extraction of Antioxidants From Marine Algal Species. **2018**, 367-397		
428	Melatonin and its metabolites vs oxidative stress: From individual actions to collective protection. **2018**, 65, e12514		146
427	Phenolic Substances in Beer: Structural Diversity, Reactive Potential and Relevance for Brewing Process and Beer Quality. **2018**, 17, 953-988		56
426	Antioxidant properties and free radical scavenging mechanisms of cyclocurcumin. **2018**, 42, 12698-12705		8
425	Jussara berry (Euterpe edulis M.) oil-in-water emulsions are highly stable: the role of natural antioxidants in the fruit oil. **2019**, 99, 90-99		8
424	The role of guaiacyl moiety in free radical scavenging by 3,5-dihydroxy-4-methoxybenzyl alcohol: thermodynamics of 3H+/3eâ□mechanisms. **2019**, 117, 207-217		7
423	Phenolic Acids. **2019**, 535-545		14
422	A completely green approach to the synthesis of dendritic silver nanostructures starting from white grape pomace as a potential nanofactory. **2019**, 12, 597-609		24
421	Polyphenolic composition, antioxidant and antiproliferative effects of wild and cultivated blackberries (Rubus fruticosus L.) pomace. **2019**, 54, 194-201		14
420	Technological influence on sensory stability and antioxidant activity of beers measured by ORAC and FRAP. **2019**, 99, 6628-6637		7
419	Effects of complexation with a metal ion on the intramolecular hydrogen bonds in acylphloroglucinols. **2019**, 138, 1		1
418	The importance of antioxidants and place in today's scientific and technological studies. **2019**, 56, 4757-4774		22
417	Assessment of the variation of the volatile compound composition and antioxidant activity in Opuntia fruits liquors during the maceration process. **2019**, 17, 501-508		3

416	Theoretical insight into the antioxidative activity of isoflavonoid: The effect of the C2=C3 double bond. **2019**, 166, 112075	28
415	A computational exploration into the structure, antioxidant capacity, toxicity and drug-like activity of the anthocyanidin "Petunidin". **2019**, 5, e02115	9
414	Antioxidant properties of components: a DFT theoretical evaluation. **2019**, 53, 922-931	19
413	Biogenic volatiles of rupicolous plants act as direct defenses against molluscs: The case of the endangered Clinopodium rouyanum. **2019**, 258, 151428	1
412	Novel 1,3,4-thiadiazole conjugates derived from protocatechuic acid: Synthesis, antioxidant activity, and computational and electrochemical studies. **2019**, 22, 585-598	5
411	The antioxidant activity and active sites of delphinidin and petunidin measured by DFT, in vitro chemical-based and cell-based assays. **2019**, 43, e12968	14
410	Experimental and Computational Study of the Antioxidative Potential of Novel Nitro and Amino Substituted Benzimidazole/Benzothiazole-2-Carboxamides with Antiproliferative Activity. **2019**, 8,	7
409	Comparative study of relationship between structure of phenylethanoid glycopyranosides and their activities using cell-free assays and human cells cultured in vitro. **2019**, 61, 104646	4
408	Kinetics and Mechanism of the Antioxidant Activities of and by Spectrophotometric and DFT Methods. **2019**, 4, 13671-13680	12
407	Development of active packaging based on chitosan-gelatin blend films functionalized with Chinese hawthorn (Crataegus pinnatifida) fruit extract. **2019**, 140, 384-392	67
406	Theoretical Study for Exploring the Diglycoside Substituent Effect on the Antioxidative Capability of Isorhamnetin Extracted from. **2019**, 4, 14996-15003	12
405	Theoretical studies on the antioxidant activity of viniferifuran. **2019**, 43, 15736-15742	35
404	Antioxidant and cicatrizing activity of the species Abarema cochliacarpos (Gomes) Barneby J. W. Grimes. **2019**, 13, 170-180	2
403	Electrochemical oxidation of flavonoids: PM6 and DFT for elucidating electronic changes and modelling oxidation potential (part II). **2019**, 295, 111730	3
402	What is responsible for antioxidant properties of polyphenolic compounds from plants?. **2019**, 144, 135-143	91
401	Structure-antioxidant activity relationships, QSAR, DFT calculation, and mechanisms of flavones and flavonols. **2019**, 28, 2262-2269	10
400	The influence of the H5?OC4 intramolecular hydrogen-bond (IHB) on the antioxidative activity of flavonoid. **2019**, 160, 19-24	10
399	A theoretical and experimental study: the influence of different standards on the determination of total phenol content in the FolinâCiocalteu assay. **2019**, 13, 1349-1356	8

398	Substituent Effects on the Radical Scavenging Activity of Isoflavonoid. **2019**, 20,	12
397	Antioxidative activity analyses of some pyridazine derivatives using computational methods. **2019**, 73, 3105-3113	1
396	New Phenolic Derivatives of Thiazolidine-2,4-dione with Antioxidant and Antiradical Properties: Synthesis, Characterization, In Vitro Evaluation, and Quantum Studies. **2019**, 24,	23
395	Fruit-based juices: Focus on antioxidant properties-Study approach and update. **2019**, 33, 1754-1769	9
394	Screening Naturally Occurring Phenolic Antioxidants for Their Suitability as Additives to CHO Cell Culture Media Used to Produce Monoclonal Antibodies. **2019**, 8,	7
393	Blood Pressure-Lowering by the Antioxidant Resveratrol Is Counterintuitively Mediated by Oxidation of cGMP-Dependent Protein Kinase. **2019**, 140, 126-137	36
392	Unravelling the Competence of Leucocyanidin in Free Radical Scavenging: A Theoretical Approach Based on Electronic Structure Calculations. **2019**, 60, 198-209	1
391	Antioxidant Properties of Four Commonly Consumed Popular Italian Dishes. **2019**, 24,	2
390	Phytochemical characterization and antioxidant activities of the fruit extracts of several Crataegus taxa. **2019**, 124, 5-13	7
389	Natural antioxidants of plant origin. **2019**, 90, 1-81	35
388	Radical coupling reactions of piceatannol and monolignols: A density functional theory study. **2019**, 164, 12-23	11
387	Electrochemical oxidation of flavonoids: PM6 and DFT for elucidating electronic changes and modelling oxidation potential. **2019**, 285, 551-556	4
386	Silver nanoparticles enter the tree stem faster through leaves than through roots. **2019**, 39, 1251-1261	26
385	Characterization of bioactivity and phytochemical composition with toxicity studies of different Opuntia dillenii extracts from Morocco. **2019**, 30, 100410	12
384	DFT studies on global parameters, antioxidant mechanism and molecular docking of amlodipine besylate. **2019**, 80, 46-53	11
383	DFT and QTAIM based investigation on the structure and antioxidant behavior of lichen substances Atranorin, Evernic acid and Diffractaic acid. **2019**, 80, 66-78	12
382	DFT Studies on the Antioxidant Activity of Naringenin and Its Derivatives: Effects of the Substituents at C3. **2019**, 20,	13
381	Juglone in Oxidative Stress and Cell Signaling. **2019**, 8,	43

380	Rutin hydrate inhibits apoptosis in the brains of cadmium chloride-treated rats via preserving the mitochondrial integrity and inhibiting endoplasmic reticulum stress. **2019**, 41, 594-608		13
379	A lignin polymer nanocomposite based electrochemical sensor for the sensitive detection of chlorogenic acid in coffee samples. **2019**, 5, e01457		28
378	Strategies for recycling and valorization of grape marc. **2019**, 39, 437-450		40
377	Plant phenolics as functional food ingredients. **2019**, 90, 183-257		41
376	Bioactive Packaging: Combining Nanotechnologies With Packaging for Improved Food Functionality. **2019**, 233-270		6
375	Onion (L.) is potentially a good source of important antioxidants. **2019**, 56, 1811-1819		17
374	Dissociative Electron Attachment to 2,6- and 2,5-Dihydroxyacetophenone. **2019**, 74, 1296-1304		
373	Brazilian native species as potential new sources of natural antioxidant and antimicrobial agents. **2019**, 48, 507-514		1
372	Exploring the Antioxidant Features of Polyphenols by Spectroscopic and Electrochemical Methods. **2019**, 8,		26
371	Proximate analysis and bioactivity study on acoustically isolated Elaeis guineensis leaves extract. **2019**,		2
370	Radical Scavenging Activity of Puerarin: A Theoretical Study. **2019**, 8,		15
369	Recent Advances in Nanoencapsulation Systems Using PLGA of Bioactive Phenolics for Protection against Chronic Diseases. **2019**, 16,		9
368	Bioisosteric OH- to SH-replacement changes the antioxidant profile of ferulic acid. **2019**, 17, 9646-9654		6
367	Effects of nitro- and amino-group on the antioxidant activity of genistein: A theoretical study. *Food Chemistry*, **2019**, 275, 339-345	8.5	29
366	Synthesis, X-ray, spectroscopic characterization, DFT and antioxidant activity of 1,2,4-triazolo[1,5-a]pyrimidine derivatives. **2019**, 1177, 131-142		15
365	Fabrication of gallic acid loaded Hydroxypropyl methylcellulose nanofibers by electrospinning technique as active packaging material. **2019**, 208, 241-250		61
364	Microencapsulation of blue maize (Zea mays L.) polyphenols in two matrices: their stability during storage and in vitro digestion release. **2019**, 13, 892-900		5
363	Synthesis, experimental and theoretical antiradical activity assessment of some azomethines and phenylhydrazones. **2019**, 1, 1		1

362	Persimmon (Diospyros kaki Thunb.) coproducts as a new ingredient in pork liver pâté: influence on quality properties. **2019**, 54, 1232-1239		10
361	Antioxidant activity and pKa calculations of 4-mercaptostilbene and some derivatives: A theoretical approach. **2019**, 275, 221-231		7
360	Antioxidant-Inspired Drug Discovery: Antitumor Metabolite Is Formed in Situ from a Hydroxycinnamic Acid Derivative upon Free-Radical Scavenging. **2019**, 62, 1657-1668		16
359	The influence of C2C3 double bond on the antiradical activity of flavonoid: Different mechanisms analysis. **2019**, 157, 1-7		29
358	Photo-stability of a flavonoid dye in presence of aluminium ions. **2019**, 162, 222-231		8
357	Inhibition of amyloid fibril formation and disassembly of pre-formed fibrils by natural polyphenol rottlerin. **2019**, 1867, 259-274		16
356	Theoretical and experimental analysis of the antioxidant features of substituted phenol and aniline model compounds. **2019**, 30, 23-35		16
355	A DFT Study on the Radical-Scavenging Properties of Ferruginol-Type Diterpenes. **2019**, 14, 1-12		7
354	Antioxidant and spectral properties of chalcones and analogous aurones: Theoretical insights. **2019** , 119, e25808		17
353	Structure-antioxidant capacity relationship of dihydrochalcone compounds in Malus. *Food Chemistry*, **2019**, 275, 354-360	8.5	24
352	Comparing the Effects of Chlorogenic Acid and Ilex paraguariensis Extracts on Different Markers of Brain Alterations in Rats Subjected to Chronic Restraint Stress. **2019**, 35, 373-386		8
351	An experimental and DFT study on free radical scavenging activity of hesperetin Schiff bases. **2019**, 517, 91-103		8
350	Green tea activity and iron overload induced molecular fibrogenesis of rat liver. **2019**, 26, 531-540		7
349	Grape and wine polymeric polyphenols: Their importance in enology. **2019**, 59, 563-579		35
348	Polyphenols as natural antioxidants in cosmetics applications. **2020**, 19, 33-37		53
347	Chlorogenic acid ameliorates memory loss and hippocampal cell death after transient global ischemia. **2020**, 51, 651-669		8
346	Computational study on the antioxidant property of coumarin-fused coumarins. *Food Chemistry*, **2020**, 304, 125446	8.5	26
345	Resveratrol addition to Chinese hamster ovary cell culture media: The effect on cell growth, monoclonal antibody synthesis, and its chemical modification. **2020**, 36, e2940		5

344	Structure-antioxidant activity relationship of ferulic acid derivatives: Effect of ester groups at the end of the carbon side chain. **2020**, 120, 108932	14
343	Experimental and theoretical study on antioxidant activity of the four anthocyanins. **2020**, 1204, 127509	19
342	Characterization of phenolic compounds and antioxidative potential of pot-pollen produced by stingless bees (Tetragonula biroi Friese) from the Philippines. **2020**, 44, e13102	11
341	Binding mechanism and antioxidant capacity of selected phenolic acid - □casein complexes. **2020**, 129, 108802	21
340	Antioxidative potential of ferulic acid phenoxyl radical. **2020**, 170, 112218	16
339	Toxicological testing of syringaresinol and enterolignans. **2020**, 1, 104-110	0
338	Free radical scavenging potency of ellagic acid and its derivatives in multiple H/e processes. **2020**, 180, 112517	11
337	The influence of in vitro gastrointestinal digestion on the Perilla frutescens leaf extract: Changes in the active compounds and bioactivities. **2020**, 44, e13530	5
336	In Vitro and In Vivo Antioxidant Activity of Agro-Industrial Residue. **2020**, 10,	3
335	Green and sustainable synthesis of oligorutin using an enzymatic membrane reactor: Process optimization. **2020**, 124, 434-444	3
334	Morin as an imminent functional food ingredient: an update on its enhanced efficacy in the treatment and prevention of metabolic syndromes. **2020**, 11, 8424-8443	7
333	Effects of different ester chains on the antioxidant activity of caffeic acid. **2020**, 105, 104341	5
332	Antioxidant activity and mechanism of dihydrochalcone C-glycosides: Effects of C-glycosylation and hydroxyl groups. **2020**, 179, 112393	11
331	Role of C-H bond in the antioxidant activities of rooperol and its derivatives: A DFT study. **2020**, 178, 112454	4
330	Extractable and Non-Extractable Antioxidants Composition in the eBASIS Database: A Key Tool for Dietary Assessment in Human Health and Disease Research. **2020**, 12,	1
329	L. (Cupressaceae): Ethnobotany, Phytochemistry and Biological Activity. **2020**, 25,	5
328	Density Functional Theory Studies on the Antioxidant Mechanism and Electronic Properties of Some Bioactive Marine Meroterpenoids: Sargahydroquionic Acid and Sargachromanol. **2020**, 5, 20382-20390	8
327	Extraction and characterization of phytochemical compounds from araçazeiro (Psidium cattleianum) leaf: Putative antioxidant and antimicrobial properties. **2020**, 137, 109573	10

326	Concept, mechanism, and applications of phenolic antioxidants in foods. **2020**, 44, e13394	64
325	as a Model Organism to Evaluate the Antioxidant Effects of Phytochemicals. **2020**, 25,	13
324	Effect of Nanoconfinement of Polyphenolic Extract from Grape Pomace into Functionalized Mesoporous Silica on Its Biocompatibility and Radical Scavenging Activity. **2020**, 9,	5
323	Antioxidant Potential of Psychotropic Drugs: From Clinical Evidence to In Vitro and In Vivo Assessment and toward a New Challenge for in Silico Molecular Design. **2020**, 9,	19
322	Electroactive Phenolic Contributors and Antioxidant Capacity of Flesh and Peel of 11 Apple Cultivars Measured by Cyclic Voltammetry and HPLC-DAD-MS/MS. **2020**, 9,	8
321	Comparative Study of the Bioactive Properties and Elemental Composition of Red Clover (Trifolium pratense) and Alfalfa (Medicago sativa) Sprouts during Germination. **2020**, 10, 7249	4
320	Wine or Beer? Comparison, Changes and Improvement of Polyphenolic Compounds during Technological Phases. **2020**, 25,	10
319	Natural antioxidant from bamboo leaves for the processing stability of polypropylene. **2020**, 1	2
318	Topical Over-the-Counter Antiaging Agents: An Update and Systematic Review. **2021**, 237, 217-229	1
317	Substitution effects on the antiradical activity of hydralazine: a DFT analysis. **2020**, 44, 16577-16583	8
316	A Comprehensive Review of Phytochemistry and Biological Activities of Quercus Species. **2020**, 11, 904	21
315	In Silico Evaluation of the Radical Scavenging Mechanism of Mactanamide. **2020**, 5, 24106-24110	9
314	Olive Mill Wastes: A Source of Bioactive Molecules for Plant Growth and Protection against Pathogens. **2020**, 9,	9
313	A potential bio-antioxidant for mineral oil from cashew nutshell liquid: an experimental and theoretical approach. **2020**, 37, 369-381	5
312	Antioxidant properties of ethenyl indole: DPPH assay and TDDFT studies. **2020**, 44, 8960-8970	10
311	Molecular Mechanisms Underlying the Absorption of Aglycone and Glycosidic Flavonoids in a Caco-2 BBe1 Cell Model. **2020**, 5, 10782-10793	13
310	Chalcogen effects on the primary antioxidant activity of chrysin and quercetin. **2020**, 44, 9073-9082	11
309	A thermodynamic and kinetic study of the antioxidant activity of natural hydroanthraquinones.. **2020**, 10, 20089-20097	14

308	Conformational Analysis of 5,4'-Dihydroxy-7,5',3'-trimethoxyisoflavone in Solution Using H NMR: A Density Functional Theory Approach. **2020**, 124, 5182-5193	6
307	Photocatalytic Partial Oxidation of Tyrosol: Improving the Selectivity Towards Hydroxytyrosol by Surface Fluorination of TiO2. **2020**, 63, 1350-1360	4
306	Effects of resveratrol/ethanol pretreatment on dentin bonding durability. **2020**, 114, 111000	11
305	A comparative study between kojic acid and its methylated derivatives as antioxidant related to maltol and alomaltol. **2020**, 28, 100464	4
304	Iron and Chelation in Biochemistry and Medicine: New Approaches to Controlling Iron Metabolism and Treating Related Diseases. **2020**, 9,	32
303	Antioxidant Properties of Camphene-Based Thiosemicarbazones: Experimental and Theoretical Evaluation. **2020**, 25,	9
302	The Relationship of Free Radical Scavenging and Total Phenolic and Flavonoid Contents of Garcinia lasoar PAM. **2020**, 53, 1151-1157	20
301	Theoretical investigation on the structure and antioxidant activity of (+) catechin and (â epicatechin â a comparative study. **2020**, 118, e1745917	12
300	LC-ESI-QTOF-MS/MS Characterization of Seaweed Phenolics and Their Antioxidant Potential. **2020**, 18,	32
299	Using HPLC and multivariate analyses to investigate variations in the polyphenolic compounds as well as antioxidant and antiglycative activities of some Lamiaceae species native to Iran. **2020**, 154, 112640	8
298	Antioxidative Action of Ellagic Acid-A Kinetic DFT Study. **2020**, 9,	16
297	Natural phenolic antioxidants electrochemistry: Towards a new food science methodology. **2020**, 19, 1680-1726	58
296	Dihydrochalcones in Malus inhibit bacterial growth by reducing cell membrane integrity. **2020**, 11, 6517-6527	5
295	Grafting of laccase-catalysed oxidation of butyl paraben and p-coumaric acid onto chitosan to improve its antioxidant and antibacterial activities. **2020**, 149, 104511	8
294	Puerarin, an efficient natural stabilizer for both polyethylene and polypropylene. **2020**, 137, 49599	1
293	Synthesis, antioxidant and anticholinesterase activities of novel quinoline-aminophosphonate derivatives. **2020**, 57, 2139-2149	10
292	Effect of the addition of microcapsules with avocado peel extract and nisin on the quality of ground beef. **2020**, 8, 1325-1334	6
291	Improvement of Antioxidative Activity of Apigenin by B12N12 Nanocluster: Antioxidative Mechanism Analysis. **2020**, 5, 1829-1836	4

290	The Role of Dietary Antioxidants in the Pathogenesis of Neurodegenerative Diseases and Their Impact on Cerebral Oxidoreductive Balance. **2020**, 12,		13
289	The cellular antioxidant and anti-glycation capacities of phenolics from Georgia peaches. *Food Chemistry*, **2020**, 316, 126234	8.5	7
288	Insight into Antioxidant and Photoprotective Properties of Natural Compounds from Marine Fungus. **2020**, 60, 1329-1351		10
287	Structure-Antioxidant Activity Relationships of Luteolin and Catechin. **2020**, 85, 298-305		28
286	The Influence of Polyphenol Compounds on Human Gastrointestinal Tract Microbiota. **2020**, 12,		22
285	The Antioxidant Capability of Higenamine: Insights from Theory. **2020**, 9,		11
284	Polyphenolic-Protein-Polysaccharide Complexes from : Insights into Extraction Methods on Their Physicochemical Properties and In Vitro Bioactivities. **2020**, 9,		16
283	Application of nano/microencapsulated phenolic compounds against cancer. **2020**, 279, 102153		25
282	Theoretical insights into the antioxidant activity of moracin T. **2020**, 54, 221-230		23
281	Fractions from Annona muricata attenuate oxidative stress in pancreatic tissues, inhibits key carbohydrate digesting enzymes and intestinal glucose absorption but enhances muscle glucose uptake. **2020**, 44, e13211		2
280	Microencapsulation of olive leaf extract by freeze-drying: Effect of carrier composition on process efficiency and technological properties of the powders. **2020**, 285, 110089		21
279	Polyphenols as a versatile component in tissue engineering. **2021**, 119, 57-74		24
278	On the peroxyl radical scavenging ability of β-sitosterol in lipid media: A theoretical study. **2021**, 34,		2
277	Characterization and analysis of antioxidant activity of walnut-derived pentapeptide PW5 via nuclear magnetic resonance spectroscopy. *Food Chemistry*, **2021**, 339, 128047	8.5	11
276	Antiradical Properties of trans-2-(4-substituted-styryl)-thiophene. **2021**, 31, 51-61		2
275	Antioxidant effects of polyphenolic compounds and structure-activity relationship predicted by multivariate regression tree. **2021**, 137, 110366		7
274	Encapsulation of phenolic compounds with liposomal improvement in the cosmetic industry. **2021**, 593, 120125		11
273	Anti-oxidation properties of 2-substituted furan derivatives: A mechanistic study. **2021**, 230, 117725		5

272	Development of new active nanocomposite packaging films containing polyhedral oligomeric silsesquioxane for walnut (Juglans regia L.) kernel packaging. **2021**, 34, 151-160	
271	Free radical scavenging activity of newly designed sesamol derivatives. **2021**, 45, 11960-11967	2
270	Semi-synthesis as a tool for broadening the health applications of bioactive olive secoiridoids: a critical review. **2021**, 38, 444-469	3
269	Iron Complexes of Flavonoids-Antioxidant Capacity and Beyond. **2021**, 22,	10
268	VerbascosideâA Review of Its Antitumor Activities. **2021**, 12, 109-126	2
267	The role of bioactive phytoconstituents-loaded nanoemulsions for skin improvement: a review. **2021**, 35, 711-729	7
266	Bioactives for Neuronal and Immune Functions. **2021**, 269-305	
265	Complexes in which Two Hyperjovinol-A Molecules Bind to a Cu2+ Ion. A DFT Study. **2021**, 249-266	1
264	Mechanism of Antioxidant Activity. **2021**, 83-99	0
263	Insights into the mechanisms and kinetics of the hydroperoxyl radical scavenging activity of Artepillin C. **2021**, 45, 7774-7780	7
262	Role of substituents in the Hofmann-LÖffler-Freytag reaction. A quantum-chemical case study on nicotine synthesis. **2021**, 19, 854-865	0
261	Roles of the Phenol OHs for the Reducing Ability of Antioxidant Acylphloroglucinols. A DFT Study. **2021**, 219-247	1
260	Concept of Antioxidants in Foods. **2021**, 3-23	
259	Journey on Naphthoquinone and Anthraquinone Derivatives: New Insights in Alzheimer's Disease. **2021**, 14,	18
258	Plant-Based Phenolic Molecules as Natural Preservatives in Comminuted Meats: A Review. **2021**, 10,	24
257	Insights into phenolic compounds from microalgae: structural variety and complex beneficial activities from health to nutraceutics. **2021**, 41, 155-171	17
256	Natural Antioxidants in Anemia Treatment. **2021**, 22,	3
255	Oxidative Stress Evaluation in Ischemia Reperfusion Models: Characteristics, Limits and Perspectives. **2021**, 22,	3

254	Quantum chemical investigation of the antiradical property of avenanthramides, oat phenolics. **2021**, 7, e06125	4
253	Quercetin particles with lower inhibitory activity for □glycosidase and negligible effects on blood clotting. 443-452	
252	Cholinium-Based Ionic Liquids from Hydroxycinnamic Acids as New Promising Bioactive Agents: A Combined Experimental and Theoretical Investigation. **2021**, 9, 2975-2986	4
251	Investigation of antioxidant activity of epigallocatechin gallate and epicatechin as compared to resveratrol and ascorbic acid: experimental and theoretical insights. **2021**, 32, 1907-1923	6
250	Modelling the mechanism and kinetics of the radical scavenging activity of iminostilbene. **2021**, 185, 109483	4
249	Initiation and propagation kinetics of inhibited lipid peroxidation. **2021**, 11, 6864	2
248	Metals content in deep eutectic solvents-based extracts of Koenigia Weyrichii growing in the Kola Peninsula. **2021**, 677, 042116	1
247	Identification of new biologically active synthetic molecules: comparative experimental and theoretical studies on the structure-antioxidant activity relationship of cyclic 1,3-ketoamides. **2021**, 27, 109	1
246	Neuroprotective Assessment of Leaves Extract against Oxidative-Stress-Induced Cytotoxicity in SHSY5Y Neuroblastoma Cells. **2021**, 10,	2
245	Quantum Mechanical Predictions of the Antioxidant Capability of Moracin C Isomers. **2021**, 9, 666647	3
244	Relationships between Structure and Antioxidant Capacity and Activity of Glycosylated Flavonols. **2021**, 10,	7
243	Are thymol, rosefuran, terpinolene and umbelliferone good scavengers of peroxyl radicals?. **2021**, 184, 112670	16
242	Effects of gallic acid alkyl esters and their combinations with other antioxidants on oxidative stability of DHA algae oil. **2021**, 143, 110280	1
241	Radical Scavenging Activity of Natural Anthraquinones: a Theoretical Insight. **2021**, 6, 13391-13397	2
240	Effects of the Reactive Moiety of Phenolipids on Their Antioxidant Efficiency in Model Emulsified Systems. **2021**, 10,	1
239	Efficacy of Caffeic Acid on Diabetes and Its Complications in the Mouse. **2021**, 26,	7
238	Drosophila as an emerging model organism for studies of food-derived antioxidants. **2021**, 143, 110307	4
237	Phytochemicals as Potential Inhibitors of Advanced Glycation End Products: Health Aspects and Patent Survey. **2021**,	

236	Structure-activity relationship of antioxidant prenylated (iso)flavonoid-type compounds: quantum chemistry and molecular docking studies. **2021**, 1-10	4
235	Antioxidant Activity and Mechanism of Avenanthramides: Double H/e Processes and Role of the Catechol, Guaiacyl, and Carboxyl Groups. **2021**, 69, 7178-7189	5
234	Genetic and Pre- and Postharvest Factors Influencing the Content of Antioxidants in Cucurbit Crops. **2021**, 10,	0
233	A comprehensive review on polarity, partitioning, and interactions of phenolic antioxidants at oil-water interface of food emulsions. **2021**, 20, 4250-4277	7
232	Physical properties and bioactivities of chitosan/gelatin-based films loaded with tannic acid and its application on the preservation of fresh-cut apples. **2021**, 144, 111223	15
231	An insight on the nature of biochemical interactions between glycyrrhizin, myricetin and CYP3A4 isoform. **2021**, e13831	4
230	Structureâ□ntioxidant activity relationships of gallic acid and phloroglucinol. **2021**, 15, 5036	1
229	Wheat grain phenolics: a review on composition, bioactivity, and influencing factors. **2021**, 101, 6167-6185	4
228	Production and antioxidant activity of phenolic compounds from indigo plant waste using pressurized microwave-assisted hydrothermal treatment followed by water extraction. 1	2
227	A detailed theoretical exploration on the THR-□binding affinities and antioxidant activity of some halogenated bisphenols. **2021**, 1-17	0
226	Electro-Spinning and Electro-Spraying as Innovative Approaches in Developing of a Suitable Food Vehicle for Polyphenols-Based Functional Ingredients.	
225	The hydroperoxyl radical scavenging activity of sulfuretin: insights from theory. **2021**, 8, 210626	1
224	Polyphenols and Human Beings: From Epidemiology to Molecular Targets. **2021**, 26,	2
223	DFT Study of Structure and Radical Scavenging Activity of Natural Pigment Delphinidin and Derivatives.	
222	Exploring the potential of solid dispersion for improving solubility, dissolution & bioavailability of herbal extracts, enriched fractions, and bioactives. **2021**, 38, 594-612	2
221	Thermodynamic, reactivity and spectroscopic properties of curcumin: solvent effect. 1	0
220	Mechanistic and kinetic studies of the radical scavenging activity of natural abietanes: A theoretical insight. **2021**, 777, 138737	0
219	Comparative Gravimetric Studies on Carbon Steel Corrosion in Selected Fruit Juices and Acidic Chloride Media (HCl) at Different pH. **2021**, 14,	2

218	On the origin of the antioxidant potential of selected wines: combined HPLC, QSAR, and DFT study. **2021**, 152, 1173-1181	
217	In vitro and cellular antioxidant activities of 3-deoxyanthocyanidin colourants. **2021**, 42, 101171	4
216	Antioxidant Activity: The Presence and Impact of Hydroxyl Groups in Small Molecules of Natural and Synthetic Origin.	3
215	L. () as a Source of Bioactive Compounds: Polyphenolic Profile, Cytotoxicity and Cytoprotective Properties in Different Cell Lines. **2021**, 12, 727528	3
214	A detailed DFT-based study of the free radical scavenging activity and mechanism of daphnetin in physiological environments. **2021**, 189, 112831	8
213	Characterization of nitrite degradation by polyphenols in sea buckthorn (Hippophaë rhamnoides L.) by density function theory calculations. **2021**, 149, 111884	3
212	Radical scavenging behavior of butylated hydroxytoluene against oxygenated free radicals in physiological environments: Insights from DFT calculations.	2
211	A Deep Insight in the Antioxidant Property of Carnosic Acid: From Computational Study to Experimental Analysis. **2021**, 10,	0
210	Computer-aided anticancer drug design: In vitro and in silico studies of new iminocoumarin derivative. **2021**, 1239, 130539	1
209	Antioxidant Compounds from Microalgae: A Review. **2021**, 19,	13
208	Current state and prospects of dissociative electron attachment spectroscopy.	2
207	The important role of benzylic C H bond in the antioxidant behaviours of the xanthones. **2021**, 103, 104082	
206	Multiple free radical scavenging reactions of aurones. **2021**, 190, 112853	3
205	A comparative investigation on the scavenging of 2,2-diphenyl-1-picrylhydrazyl radical by the natural antioxidants (+) catechin and (-) epicatechin. **2021**, 1242, 130805	4
204	Chimarrão, terere and mate-tea in legitimate technology modes of preparation and consume: A comparative study of chemical composition, antioxidant, anti-inflammatory and anti-anxiety properties of the mostly consumed beverages of Ilex paraguariensis St. Hil. **2021**, 279, 114401	2
203	Evaluation of resveratrol-doped adhesive with advanced dentin bond durability. **2021**, 114, 103817	0
202	Novel chrysin derivatives as hidden multifunctional agents for anti-Alzheimer's disease: design, synthesis and in vitro evaluation. **2021**, 166, 105976	2
201	Synthesis, characterization, biological evaluation, BSA binding properties, density functional theory and molecular docking study of Schiff bases. **2021**, 1244, 130952	1

200	Synthesis and molecular interaction study of a diphenolic hidrazinyl-thiazole compound with strong antioxidant and antiradical activity with HSA. **2021**, 1244, 131278		2
199	Modeling the peroxyl radical scavenging behavior of Carnosic acid: Mechanism, kinetics, and effects of physiological environments. **2021**, 192, 112950		5
198	The hydroperoxyl and superoxide anion radical scavenging activity of anthocyanidins in physiological environments: Theoretical insights into mechanisms and kinetics. **2021**, 192, 112968		1
197	Antioxidant capacity of phenolic compounds separated from tea seed oil in vitro and in vivo. *Food Chemistry*, **2022**, 371, 131122	8.5	7
196	Biochemical characterization of Peumus boldus fruits: Insights of its antioxidant properties through a theoretical approach. *Food Chemistry*, **2022**, 370, 131012	8.5	0
195	Chemical Composition, Antioxidant, and □Glucosidase-Inhibiting Activity of Aqueous and Hydroethanolic Extracts of Traditional Antidiabetics from Croatian Ethnomedicine. **2021**, 7, 15		4
194	Complexes of Furonewguinone B with a Cu2+ Ion. A DFT Study. **2020**, 159-182		4
193	Role of Polyphenols as Antioxidants in Native Species from Argentina Under Drought and Salinization. **2015**, 247-267		2
192	Lipid nanocarriers containing Passiflora edulis seeds oil intended for skin application. **2020**, 193, 111057		3
191	Theoretical studies on the antioxidant activity of pinobanksin and its ester derivatives: Effects of the chain length and solvent. *Food Chemistry*, **2018**, 240, 323-329	8.5	32
190	Rosmarinic acid enhanced Fe(III)-mediated Fenton oxidation removal of organic pollutants at near neutral pH. **2020**, 736, 139528		11
189	Relationship between ESIPT properties and antioxidant activities of 5-hydroxyflavone derivates. **2020**, 29, 058202		1
188	Antioxidative capacity of hydrolyzed rapeseed cake extract and oxidative stability of fish oil-in-water emulsion added with the extract. **2017**, 24, 529-535		1
187	Structures, Antioxidation Mechanism, and Antioxidation Test of the Common Natural Antioxidants in Plants. **2015**, 03, 25-47		1
186	The effect of stinging nettle and field horsetail extracts on the synthesis of biologically active compounds in germinated leguminous and quinoa seed. **2017**, 104, 337-344		5
185	In Vitro Antioxidant versus Metal Ion Chelating Properties of Flavonoids: A Structure-Activity Investigation. **2016**, 11, e0165575		118
184	REVIEW OF METHODS FOR THE QUALITATIVE AND QUANTITATIVE ANALYSIS OF TANNINS IN PLANT MATERIALS. **2020**, 29-45		2
183	Pro- and antioxidant systems and pathological processes in humans. **2014**, 17-29		4

182	Dietary Polyphenols and Mitochondrial Function: Role in Health and Disease. **2019**, 26, 3376-3406	39
181	The Mechanisms Behind the Biological Activity of Flavonoids. **2019**, 26, 6976-6990	24
180	Tree Nuts and Peanuts as a Source of Natural Antioxidants in our Daily Diet. **2020**, 26, 1898-1916	4
179	Eugenol Supplementation as an Additive to Improve the Thermal Stability of Hedychium coronarium Koening Essential Oil. **2020**, 10, 279-285	0
178	Thermodynamics of primary antioxidant action of flavonols in polar solvents. **2019**, 12, 108-118	2
177	DFT and ab initio calculations of ionization potentials, proton affinities and bond dissociation enthalpies of aromatic compounds. **2019**, 12, 225-240	2
176	Antioxidant Properties of Agri-food Byproducts |and Specific Boosting Effects of Hydrolytic Treatments. **2020**, 9,	12
175	Synthesis, antioxidant, and anti-tyrosinase activity of some aromatic oximes: an experimental and theoretical study. **2019**, 8, 195	1
174	Protective effects of extracts from six local strains of Pyropia yezoensis against oxidative damage in vitro and in zebrafish model. **2020**, 35, 189-200	5
173	Phytochemicals in Bambara Groundnut. **2021**, 137-152	1
172	Red Wine and Yacon as a Source of Bioactive Compounds with Antidiabetic and Antioxidant Potential.	
171	A Computational study of the reactions between dehydrozingerone derivatives and the hydroperoxyl radical in aqueous and lipid media.	
170	Multiple free radical scavenging reactions of flavonoids. **2021**, 198, 109877	3
169	Directed Synthesis of Humic and Fulvic Derivatives with Enhanced Antioxidant Properties. **2021**, 11, 2047	0
168	Hibiscus rosa-sinensis as Flavoring Agent for Alcoholic Beverages. **2021**, 11, 9864	4
167	Phytochemical Traits and Biological Activity of Eryngium amethystinum and E. alpinum (Apiaceae). **2021**, 7, 364	0
166	Bombesin Peptide Conjugated Water-Soluble Chitosan Gallate-A New Nanopharmaceutical Architecture for the Rapid One-Pot Synthesis of Prostate Tumor Targeted Gold Nanoparticles. **2021**, 16, 6957-6981	3
165	The radical scavenging activity of monosubstituted iminostilbenes: Theoretical insights. **2021**, 784, 139105	

164	Non-motorized Symptoms of Parkinson's Disease and Endothelial Dysfunction with Combination therapy. **2016**, 2016, 59-63		
163	Food in Health Preservation and Promotion. **2017**, 265-300		3
162	Food in Health Preservation and Promotion. **2018**, 392-426		
161	Are Mangiferin and Mangiferin-Containing Plant Extracts Helpful for Iron-Loaded Transfusion-Dependent and Non-Transfusion-Dependent Thalassaemia Patients?. **2018**, 11, 29-43		1
160	Chi thi phn tu CsFemale-1 vˆ gioi tnh cua dn leo. **2019**, 55(Cng nghe Sinh hoc), 62		
159	Functionalization of Flavonoids (Quercetin) to Chitosan Matrix and Determination of Antioxidant Activity of Obtained Bio-composites. **2020**, 355-359		
158	Estudio cintico de la reaccin entre el 3,4-Dihidroxibenzaldehdo y el radical hidroperoxilo en disolucin: Un enfoque tefico. **2019**, 11,		
157	Bioavailability of Nutrients and Safety Measurements. **2020**, 543-593		1
156	Lipids Oxidative Stability and Microbial Shelf Life Quality of Licorice (Glycyrrhiza glabra L.) Extract Supplemented Chicken Patties. **2020**, 22,		0
155	Curcumin analogues with improved antioxidant properties: A theoretical exploration. *Food Chemistry*, **2021**, 373, 131499	8.5	1
154	Regioselective synthesis of salicylates and acetophenones by formal [3+3]-cyclocondensations of 3-oxoorthoesters with 1,3-bis(trimethylsilyloxy)-1,3-butadienes. **2021**, 76, 1-26		
153	Herbaceous plants growing in Arctic zones as potential perspective sources of valuable flavonoids. 613, 012058		3
152	Novel phenolic compounds by DFT: Electronic effects on antioxidant activity of 4-vinylphenol derivatives. **2021**, 68, 817-825		
151	Protective Effects of Naringin on Lung Toxicity Induced by 5-Fluorouracil in Rats.		
150	Chalcones as Scavengers of HOCl and Inhibitors of Oxidative Burst: Structure-Activity Relationship Studies. **2020**,		0
149	Almond. **2020**, 423-452		1
148	Polyphenols as Antitumor Agents Targeting Key Players in Cancer-Driving Signaling Pathways. **2021** , 12, 710304		13
147	Delineation of Neuroprotective Effects and Possible Benefits of AntioxidantsTherapy for the Treatment of Alzheimer's Diseases by Targeting Mitochondrial-Derived Reactive Oxygen Species: Bench to Bedside. **2021**, 59, 657		8

146	Encapsulation of phenolic compounds within food-grade carriers and delivery systems by pH-driven method: a systematic review. **2021**, 1-22	
145	Structural exploration of interactions of (+) catechin and (â]epicatechin with bovine serum albumin: Insights from molecular dynamics and spectroscopic methods. **2021**, 348, 118026	0
144	Anti-inflammatory and antioxidant phenolic compounds. **2022**, 165-180	
143	Activation of ATM/Chk2 by Zanthoxylum armatum DC extract induces DNA damage and G1/S phase arrest in BRL 3A cells. **2022**, 284, 114832	1
142	Theoretical Studies on Anti-Oxidant Activity of the Phytochemical, Coumestrol and Its Derivatives.	
141	Computational design of new tacrine analogs: an prediction of their cholinesterase inhibitory, antioxidant, and hepatotoxic activities. **2021**, 1-15	0
140	Unexpected Role of pH and Microenvironment on the Antioxidant and Synergistic Activity of Resveratrol in Model Micellar and Liposomal Systems. **2021**,	0
139	Natural Antioxidants from Plant Extracts in Skincare Cosmetics: Recent Applications, Challenges and Perspectives. **2021**, 8, 106	18
138	Reaction mechanisms involving the hydroxyl radical in the low-temperature oxidation of coal. **2021**, 314, 122732	1
137	Essential features for antioxidant capacity of ascorbic acid (vitamin C). **2021**, 28, 1	3
136	The Role of Antioxidant on Health and Age-Related Diseases in Aging. **2021**, 157-276	
135	Protection against Amyloid-□Oligomer Neurotoxicity by Small Molecules with Antioxidative Properties: Potential for the Prevention of Alzheimer's Disease Dementia.. **2022**, 11,	0
134	Unraveling oxidative aging behavior of asphaltenes using ab initio molecular dynamics and static density functional theory. **2022**, 318, 126032	1
133	Lysozyme amyloid fibril: Regulation, application, hazard analysis, and future perspectives.. **2022**, 200, 151-161	0
132	Potential of phenolic compounds in Ligustrum robustum (Rxob.) Blume as antioxidant and lipase inhibitors: Multi-spectroscopic methods and molecular docking.. **2022**, 87, 651-663	0
131	On the Scavenging Ability of Scutellarein against the OOH Radical in Water and Lipid-like Environments: A Theoretical Study.. **2022**, 11,	2
130	Assessment of the free radical scavenging potential of cannabidiol under physiological conditions: Theoretical and experimental investigations. **2022**, 346, 118277	2
129	Mechanistic and Kinetic Studies of the Radical Scavenging Activity of 5--Methylnorbergenin: Theoretical and Experimental Insights.. **2022**,	1

128	Is cannabidiolic acid an overlooked natural antioxidant? Insights from quantum chemistry calculations. **2021**, 46, 162-168	1
127	Theoretical insights into the antiradical activity and copper-catalysed oxidative damage of mexidol in the physiological environment.. **2022**, 9, 211239	0
126	Effects of hydroxyl group, glycosylation and solvents on the antioxidant activity and mechanism of maclurin and its derivatives: Theoretical insights. **2022**, 351, 118609	0
125	Phenolic Compounds to Hinder Sulfur Crystallization in Sulfur-Extended Bitumen. **2022**, 180, 106184	2
124	Comparison of the excited-state proton transfer and single electron transfer mechanisms of the natural antioxidant Juglone and its dimer 3,3?-bijuglone. **2022**, 427, 113825	0
123	Polyphenols as Antioxidants for Extending Food Shelf-Life and in the Prevention of Health Diseases: Encapsulation and Interfacial Phenomena.. **2021**, 9,	4
122	Oxoberberine: a promising natural antioxidant in physiological environments.. **2022**, 12, 9738-9743	
121	Grape (Vitis vinifera) Biowastes: Applications in Egg, Meat and Dairy Production and Products. **2022**, 467-504	
120	Effects of Plant Extracts on Dentin Bonding Strength: A Systematic Review and Meta-Analysis.. **2022**, 10, 836042	0
119	A Major -Derived Bioflavonoid Glycoside as a Protective Agent against Chemically Induced Neurotoxicity and Parkinson's Models; In Silico Target Prediction; and Biphasic HPTLC-Based Quantification.. **2022**, 11,	1
118	Structure-antioxidant activity relationships of dendrocandin analogues determined using density functional theory.. **2022**, 1-11	0
117	Nanotechnology as a Tool to Mitigate the Effects of Intestinal Microbiota on Metabolization of Anthocyanins.. **2022**, 11,	1
116	Current Understanding of Modes of Action of Multicomponent Bioactive Phytochemicals: Potential for Nutraceuticals and Antimicrobials.. **2022**, 13, 337-359	7
115	Photooxidation and Pentagalloyl Glucose Cross-Linking Improves the Performance of Decellularized Small-Diameter Vascular Xenograft .. **2022**, 10, 816513	0
114	Lipid-lowering effect of extracellular polyphenol extracts from Lachnum singerianum in high-fat-diet-fed mice.	
113	Hybrid Classification/Regression Approach to QSAR Modeling of Stoichiometric Antiradical Capacity Assays' Endpoints.. **2022**, 27,	
112	Phytochemical analysis, antioxidant, cytotoxic, and antimicrobial activities of golden chamomile ((Loefl.) Schultz Bip).. **2022**,	0
111	Ag-Incorporated Polydopamine/Tannic Acid Coating on Titanium With Enhanced Cytocompatible and Antibacterial Properties.. **2022**, 10, 877738	0

110	Protective Effect of Djulis () Extract against UV- and AGEs-Induced Skin Aging via Alleviating Oxidative Stress and Collagen Degradation.. **2022**, 27,		1
109	Molybdenum trioxide hybridized kaempferol: double-powered nanosystem for salvaging oxidative stress and electrochemical immunoprobing of interleukin-6. **2022**, 24, 100809		0
108	Mitigative capacity of Kaempferia galanga L. and kaempferol on heterocyclic amines and advanced glycation end products in roasted beef patties and related mechanistic analysis by density functional theory.. *Food Chemistry*, **2022**, 385, 132660	8.5	0
107	Polyphenols from Grape Pomace: Functionalization of Chitosan-Coated Hydroxyapatite for Modulated Swelling and Release of Polyphenols.. **2021**, 37, 14793-14804		2
106	Ability of B 12 N 12 fullerene like nano-cage for sensing and improving the antioxidant activity of juglone and its derivative: Density functional theory investigation. **2022**, 122,		1
105	Structure-Activity and Antioxidant Properties of Quercetin and Its Co2+ Chelate. 414-424		
104	Antiradical Activity of Dopamine, L-DOPA, Adrenaline, and Noradrenaline in Water/Methanol and in Liposomal Systems. **2021**,		3
103	Potential health effects of brewers' spent grain as a functional food ingredient assessed by markers of oxidative stress and inflammation following gastro-intestinal digestion and in a cell model of the small intestine.. **2022**,		0
102	Secondary Metabolites of Fruits and Vegetables with Antioxidant Potential.		0
101	Investigation of structural, electronic, and antioxidant properties of calycopetrin and xanthomicrol as two polymethoxylated flavones using DFT calculations. 1		0
100	Antioxidant activity of delphinidin and pelargonidin: Theory and practice.. **2022**, e14192		0
99	Computational study of synthetic and natural polymer additives â Antioxidant potential of BHA, TBHQ, BHT, and curcumin. **2022**, 109979		0
98	Performance and mechanism of lignin and quercetin as bio-based anti-aging agents for asphalt binder: A combined experimental and ab initio study. **2022**, 359, 119310		2
97	Phenolic acids and their carboxylate anions: Thermodynamics of primary antioxidant action. **2022**, 113254		3
96	Gliadin interacted with tea polyphenols: potential application and action mechanism. 1-14		
95	Kinetics and stoichiometry of gallic acid and methyl gallate in scavenging DPPH radical as affected by the reaction solvent. **2022**, 12,		0
94	IRMPD Spectroscopy of Bare Monodeprotonated Genistein, an Antioxidant Flavonoid.		1
93	Polymer supported electrospun nanofibers with supramolecular materials for biological applications â a review. 1-17		1

92	Biosynthesis of 6-methyl-2,4-dihydroxyphenyl-Ð-D-glucopyranoside. **2022**, 58, 269-276	
91	Theoretical probing to the reactivity and biological effects of the phytochemical, coumestrol and its derivatives. **2022**, 4, 100080	0
90	Effect of plant polyphenols on the physicochemical properties, residual nitrites, and N-nitrosamine formation in dry-fried bacon. **2022**, 191, 108872	0
89	Antioxidant and Copper Chelating Power of New Molecules Proposed as Combined Multiple Targets Agent Against Alzheimerâ Disease. A Theoretical Insights.	0
88	Structure and biomedical applications of bioactive polyphenols from food and fruits.	0
87	The radical scavenger capacity and mechanism of prenylated coumestan-type compounds: a DFT analysis. 1-9	0
86	Identifying Major Drivers of Antioxidant Activities in Complex Polyphenol Mixtures from Grape Canes. **2022**, 27, 4029	1
85	A review of Hydrocotyle bonariensis, a promising functional food and source of health-related phytochemicals.	
84	The hydroperoxyl radical scavenging activity of natural hydroxybenzoic acids in oil and aqueous environments: Insights into the mechanism and kinetics. **2022**, 201, 113281	3
83	Beneficial health effects of polyphenols metabolized by fermentation.	0
82	In Vitro Antioxidant and Prooxidant Activities of Red Raspberry (Rubus idaeus L.) Stem Extracts. **2022**, 27, 4073	1
81	Plant Flavonoids as Potential Natural Antioxidants in Phytocosmetics. **2022**, 86-93	1
80	Quercetin: A Molecule of Great Biochemical and Clinical Value and Its Beneficial Effect on Diabetes and Cancer. **2022**, 10, 37	2
79	The effects of date seed (Phoenix dactylifera) supplementation on exercise-induced oxidative stress and aerobic and anaerobic performance following high-intensity interval training sessions: A randomized, double-blind, placebo-controlled trial. 1-29	0
78	Neuroprotective properties of chrysin on decreases of cell proliferation, immature neurons and neuronal cell survival in the hippocampal dentate gyrus associated with cognition induced by methotrexate. **2022**, 92, 15-24	0
77	Tactfully improve the antioxidant activity of 2?-hydroxychalcone with the strategy of substituent, solvent and intramolecular hydrogen bond effects. **2022**, 362, 119748	1
76	Morphological diversity, phenolic acids, and antioxidant properties in eryngo (Eryngium caucasicum Trautv): Selection of superior populations for agri-food industry.	0
75	Potential Applications of Lilium Plants in Cosmetics: A Comprehensive Review Based on Research Papers and Patents. **2022**, 11, 1458	

74	Comparative Investigation on the Properties and Molecular Mechanisms of Natural Phenolic Compounds and Rubber Polymers to Inhibit Oxidative Aging of Asphalt Binders. **2022**, 2022, 1-14	1
73	Wine-related flavonols for therapeutic use in Alzheimerâs disease, an in-silico investigation.	1
72	Computational analysis of peroxyl radical scavenging capacity of coumestrol: insights into kinetics and reaction mechanisms.	0
71	Computational design of a chitosan derivative for improving the color stability of anthocyanins: Theoretical calculation and experimental verification. **2022**, 219, 721-729	0
70	Characteristics of PhospholipidâImmunosuppressantâAntioxidant Mixed LangmuirâBlodgett Films. **2022**, 126, 6936-6947	1
69	Primary and secondary antioxidant properties of scutellarin and scutellarein in water and lipid-like environments: A theoretical investigation. **2022**, 366, 120343	0
68	Influence of mineralizer in the preparation of Bi2CuO4 sensor for the electrochemical evaluation of chlorogenic acid in various real-time samples. **2022**, 26, 101154	0
67	Tailored design of highly permeable polyamide-based nanofiltration membrane via a complex-dissociation regulated interfacial polymerization. **2023**, 452, 139197	0
66	Synthesis and evaluation of the antioxidant activity of 3-pyrroline-2-ones: experimental and theoretical insights. **2022**, 12, 24579-24588	0
65	Plant polyphenols as potent antioxidants: Highlighting the mechanism of antioxidant activity and synthesis/development of some polyphenol conjugates. **2022**, 243-266	1
64	Dose-dependent Action of Zingiber officinale on Colonic Dysmotility and Ex Vivo Spontaneous Intestinal Contraction Modulation. **2022**, 20, 155932582211275	0
63	Antioxidant Potential of Santowhite as Synthetic and Ascorbic Acid as Natural Polymer Additives. **2022**, 14, 3518	2
62	Plant polyphenols regulating myoglobin oxidation and color stability in red meat and certain fish: A review. 1-13	0
61	Inhibitory Effect on Nitric Oxide Release in LPS-Stimulated Macrophages and Free Radical Scavenging Activity of Croton linearis Jacq. Leaves. **2022**, 11, 1915	0
60	Bioactive Flavonoids as Phytoantioxidants. **2022**, 99-119	0
59	Chemical Composition and Cytoprotective Activities of Methanolic Extract of Asplenium adiantum-nigrum L. (Aspleniaceae). **2022**, 8, 815	1
58	Investigation of spectroscopic, crystallographic, thermal and antioxidant properties of mononuclear dioxomolybdenum(VI) complexes derived from a new symmetric bisthiocarbohydrazone. **2022**, 227, 116151	0
57	An Overview on the Use of Extracts from Medicinal and Aromatic Plants to Improve Nutritional Value and Oxidative Stability of Vegetable Oils. **2022**, 11, 3258	3

56	Quercetin Fatty Acid Monoesters (C2:0â€“18:0): Enzymatic Preparation and Antioxidant Activity. **2022**, 70, 14073-14083	1
55	Effects of Domestic Cooking Methods on Physichochemical Properties, Bioactive Compounds and Antioxidant Activities of Vegetables: A Mini-Review. 1-15	0
54	Spider Plant (Cleome gynandra). **2022**, 27-49	0
53	Analytical determination of antioxidant capacity of hop-derived compounds in beer using specific rapid assays (ORAC, FRAP) and ESR-spectroscopy.	0
52	Apple Polyphenol Diet Extends Lifespan, Slows down Mitotic Rate and Reduces Morphometric Parameters in Drosophila Melanogaster: A Comparison between Three Different Apple Cultivars. **2022**, 11, 2086	0
51	Forsythia suspensa extract obtained from traditional Chinese herbal medicine as an efficient natural antioxidant for polyethylene. **2022**, 29,	0
50	Comparing the effects of three processing methods on the efficacy of mulberry leaf tea: analysis of bioactive compounds, bioavailability and bioactivity. **2022**, 134900	0
49	Radical scavenging capacity, UV activity, and molecular docking studies of 2?, 5?, 3, 4-Tetrahydroxychalcone: An insight into the photoprotection. **2022**, 100126	0
48	Synthesis of a Nanoparticle of Selenious Acid Acyl Diaquercetin for Skin Care Products. **2022**, 7,	0
47	Simultaneous alleviation of acrylamide and methylimidazole accumulation in cookies by Rhizoma kaempferiae and kaempferol and potential mechanism revealed by density functional theory. **2023**, 173, 114302	0
46	Flavonoids as selective chemosensor for formic acid over ammonia; A DFT study. **2023**, 34, 105038	0
45	Inhibitory mechanisms of polyphenols on heme protein-mediated lipid oxidation in muscle food: New insights and advances. 1-19	0
44	DFT Study of the Direct Radical Scavenging Potency of Two Natural Catecholic Compounds. **2022**, 23, 14497	2
43	The Effect of Hydrolysis on the Antioxidant Activity of Olive Mill Waste. **2022**, 12, 12187	0
42	Effect of heat treatment on phenolic composition and radical scavenging activity of olive leaf extract at different pH conditions: a spectroscopic and kinetic study.	0
41	Synthesis and ín vitro assessment of anticholinesterase and ´antioxidant properties of triazineamide derivatives.	0
40	The antioxidant activity of N-E-caffeoyl and N-E-feruloyl tyramine conformers and their sulfured analogs contribution: density functional theory studies. **2023**, 142,	0
39	Bioactivity and Digestibility of Microalgae Tetraselmis sp. and Nannochloropsis sp. as Basis of Their Potential as Novel Functional Foods. **2023**, 15, 477	4

38	Stability and antioxidant activity of phenolic compounds during in vitro digestion.	0
37	Molecular and Antioxidant Characterization of Opuntia robusta Fruit Extract and Its Protective Effect against Diclofenac-Induced Acute Liver Injury in an In Vivo Rat Model. **2023**, 12, 113	0
36	Theoretical study on the free radical scavenging potency and mechanism of natural coumestans: Roles of substituent, noncovalent interaction and solvent. **2023**, 207, 113580	0
35	The Conformations of Isolated Gallic Acid: A Laser-Ablation Rotational Study. **2023**, 28, 159	0
34	THE INFLUENCE OF CLIMATIC CONDITIONS ON ACCUMULATION OF BIOLOGICALLY ACTIVE COM-POUNDS IN KOENIGIA WEYRICHII. **2022**, 249-258	0
33	Antioxidant activity of caffeic acid: thermodynamic and kinetic aspects on the oxidative degradation pathway. 1-14	0
32	Computational investigation on the antioxidant activities and on the Mpro SARS-CoV-2 non-covalent inhibition of isorhamnetin. 11,	0
31	Mechanisms of polyphenols on quality control of aquatic products in storage: A review. 1-20	1
30	Open Ponds for Effluent Storage, a Pertinent Issue to Olive Mill Wastewater (OMW) Management in a Circular Economy Context: Benefits and Environmental Impact. **2023**, 153-181	0
29	Structural Features of Small Molecule Antioxidants and Strategic Modifications to Improve Potential Bioactivity. **2023**, 28, 1057	0
28	Inhibition of benzo[a]pyrene formation in charcoal-grilled pork sausages by ginger and its key compounds.	0
27	Role of secondary metabolites in distressed microalgae. **2023**, 224, 115392	0
26	Aspalathin and linearthin from Aspalathus linearis (Rooibos) protect SH-SY5Y cells from MPP+-induced neuronal toxicity. **2023**, 157, 53-63	0
25	Biological active metabolites from microalgae for healthcare and pharmaceutical industries: A comprehensive review. **2023**, 372, 128661	0
24	Comparing the Effects of Three Processing Methods on the Efficacy of Mulberry Leaf Tea: Analysis of Bioactive Compounds, Bioavailability and Bioactivity.	0
23	Anti-aging mechanism and rheological properties of lignin, quercetin, and gallic acid as antioxidants in asphalt. **2023**, 369, 130560	0
22	Modulatory effect of caffeic acid in alleviating diabetes and associated complications. 14, 62-75	0
21	Polyphenols Mediate Neuroprotection in Cerebral Ischemic StrokeâAn Update. **2023**, 15, 1107	0

20	A DFT study on the scavenging activity of curcumin toward methyl and ethyl radicals. **2023**, 49, 589-598	0
19	The Contribution of Theoretical Prediction Studies to the Antioxidant Activity Assessment of the Bioactive Secoiridoids Encountered in Olive Tree Products and By-Products. **2023**, 28, 2267	0
18	Evaluation of antioxidant potentials and acetylcholinesterase inhibitory effects of some new salicylic acid-salicylamide hybrids.	0
17	Effectiveness of supplementation with date seed (Phoenix dactylifera) as a functional food on inflammatory markers, muscle damage, and BDNF following high-intensity interval training: a randomized, double-blind, placebo-controlled trial.	0
16	Antioxidant activity of Hibiscetin and Hibiscitrin: insight from DFT, NCI, and QTAIM. **2023**, 142,	0
15	Fermentation of Robinia pseudoacacia flower for improving the antioxidation: optimized conditions, active composition, mechanism, and biotransformation process. 1-13	0
14	Recent Developments in Polyphenol Applications on Human Health: A Review with Current Knowledge. **2023**, 12, 1217	0
13	Botanicals as a zinc oxide alternative to protect intestinal cells from an Escherichia coli F4 infection in vitro by modulation of enterocyte inflammatory response and bacterial virulence. 10,	0
12	In Silico and In Vitro Study of Antioxidant Potential of Urolithins. **2023**, 12, 697	1
11	First Insight into the Neuroprotective and Antibacterial Effects of Phlorotannins Isolated from the Cell Walls of Brown Algae Fucus vesiculosus and Pelvetia canaliculata. **2023**, 12, 696	0
10	Comparison of the Antioxidant Power of Extracts of the Red vs. Yellow Nephelium lappaceum Variety. **2023**, 15, 5188	0
9	Tannic Acid Lipid Nanoparticles can Deliver Messenger RNA Payloads and Improve their Endosomal Escape.	0
8	Elutionâ€extrusion counter-current chromatographic separation and theoretical mechanism of antioxidant from Robinia pseudoacacia flower.	0
7	Synthesis and Characterization of Quercetinâ€Iron Complex Nanoparticles for Overcoming Drug Resistance. **2023**, 15, 1041	0
6	Sourdough Fermentation Improves the Antioxidant, Antihypertensive, and Anti-Inflammatory Properties of Triticum dicoccum. **2023**, 24, 6283	0
5	Metallic Nanoparticles Biosynthesized by Phenolic-Rich Extracts: Interaction, Characterization and Application.	0
4	Epicatechin Inhibited Lipid Oxidation and Protein Lipoxidation in a Fish Oil-Fortified Dairy Mimicking System. **2023**, 12, 1559	0
3	Exploring the Multitarget Activity of Wedelolactone against Alzheimerâ€ Disease: Insights from In Silico Study.	0

2	Medicinal and biological potential of Thuja occidentalis: A comprehensive review. **2023**, 16, 0	0
1	Antioxidant properties of lipid concomitants in edible oils: A review. **2023**, 422, 136219	0