Adriana Perez-Gonzalez

List of Publications by Year
in descending order

29 papers	904 citations	430874 18 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	1094 citing authors

#	Article	IF	Citations
1	OH Radical Scavenging Activity of Edaravone: Mechanism and Kinetics. Journal of Physical Chemistry B, 2011, 115, 1306-1314.	2.6	111
2	Ellagic Acid: An Unusually Versatile Protector against Oxidative Stress. Chemical Research in Toxicology, 2014, 27, 904-918.	3.3	110
3	Empirically Fitted Parameters for Calculating pK_a Values with Small Deviations from Experiments Using a Simple Computational Strategy. Journal of Chemical Information and Modeling, 2016, 56, 1714-1724.	5.4	97
4	Comprehensive Investigation of the Antioxidant and Pro-oxidant Effects of Phenolic Compounds: A Double-Edged Sword in the Context of Oxidative Stress?. Journal of Physical Chemistry B, 2018, 122, 6198-6214.	2.6	71
5	Free-radical scavenging by tryptophan and its metabolites through electron transfer based processes. Journal of Molecular Modeling, 2015, 21, 213.	1.8	47
6	Phenolic Melatonin-Related Compounds: Their Role as Chemical Protectors against Oxidative Stress. Molecules, 2016, 21, 1442.	3.8	43
7	On the free radical scavenging mechanism of protocatechuic acid, regeneration of the catechol group in aqueous solution. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	38
8	Dihydroxybenzoic acids as free radical scavengers: mechanisms, kinetics, and trends in activity. New Journal of Chemistry, 2014, 38, 2639.	2.8	37
9	Melatonin and its metabolites as chemical agents capable of directly repairing oxidized DNA. Journal of Pineal Research, 2019, 66, e12539.	7.4	37
10	Dual antioxidant/pro-oxidant behavior of the tryptophan metabolite 3-hydroxyanthranilic acid: a theoretical investigation of reaction mechanisms and kinetics. New Journal of Chemistry, 2017, 41, 3829-3845.	2.8	33
11	On the Outstanding Antioxidant Capacity of Edaravone Derivatives through Single Electron Transfer Reactions. Journal of Physical Chemistry B, 2012, 116, 1180-1188.	2.6	32
12	A Computer-Assisted Systematic Search for Melatonin Derivatives with High Potential as Antioxidants. Melatonin Research, 2018, 1, 27-58.	1.1	29
13	On the ^{â€¢}OH and ^{â€¢}OOH scavenging activity of 3â€methylâ€1â€pyridinâ€2â€ylâ€5â€pyrazolone: Comparisons with its parent compound, edaravone. International Journal of Quantum Chemistry, 2012, 112, 3441-3448.	2.0	25
14	Capsaicin, a Powerful â€¢OH-Inactivating Ligand. Antioxidants, 2020, 9, 1247.	5.1	22
15	Tryptophan: antioxidant or target of oxidative stress? A quantum chemistry elucidation. RSC Advances, 2014, 4, 56128-56131.	3.6	21
16	On the chemical behavior of C60 hosting H2O and other isoelectronic neutral molecules. Journal of Molecular Modeling, 2014, 20, 2412.	1.8	21
17	Radical-trapping and preventive antioxidant effects of 2-hydroxymelatonin and 4-hydroxymelatonin: Contributions to the melatonin protection against oxidative stress. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2206-2217.	2.4	21
18	Ionization Energies, Proton Affinities, and pK_aValues of a Large Series of Edaravone Derivatives: Implication for Their Free Radical Scavenging Activity. Journal of Physical Chemistry B, 2011, 115, 10375-10384.	2.6	20

#	Article	IF	Citations
19	Vertical Ionization Energies of Free Radicals and Electron Detachment Energies of Their Anions: A Comparison of Direct and Indirect Methods Versus Experiment. Journal of Physical Chemistry A, 2014, 118, 6125-6131.	2.5	20
20	Estimation of empirically fitted parameters for calculating pK a values of thiols in a fast and reliable way. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	16
21	Role of purines on the copperâ€catalyzed oxidative damage in biological systems: Protection versus promotion. International Journal of Quantum Chemistry, 2018, 118, e25527.	2.0	11
22	On the hydroperoxyl radical scavenging activity of two Edaravone derivatives: mechanism and kinetics. Journal of Physical Organic Chemistry, 2013, 26, 261-268.	1.9	7
23	Tryptophan versus nitric oxide, nitrogen dioxide and carbonate radicals: differences in reactivity and implications for oxidative damage to proteins. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	7
24	Reactivity Indexes and O-H Bond Dissociation Energies of a Large Series of Polyphenols: Implications for their Free Radical Scavenging Activity. Journal of the Mexican Chemical Society, 2017, 56, .	0.6	7
25	Direct and cluster-assisted dehydrogenation of methane by Nb⁺ and Ta⁺: a theoretical investigation. Physical Chemistry Chemical Physics, 2017, 19, 16178-16188.	2.8	5
26	Computer-designed melatonin derivatives: potent peroxyl radical scavengers with no pro-oxidant behavior. Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	5
27	The antioxidant capacity of an imidazole alkaloids family through single-electron transfer reactions. Journal of Molecular Modeling, 2020, 26, 321.	1.8	4
28	Antioxidants into Nopal (Opuntia ficus-indica), Important Inhibitors of Free Radicalsâ€™ Formation. Antioxidants, 2021, 10, 2006.	5.1	4
29	Chemical Protectors against the Toxic Effects of Paracetamol (Acetaminophen) and Its Meta Analogue: Preventing Protein Arylation. ACS Omega, 2018, 3, 18582-18591.	3.5	3