

# Francesco Caruso

## List of Publications by Year in descending order

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41  
papers

1,137  
citations

430874

18  
h-index

377865

34  
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41  
docs citations

41  
times ranked

1866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ruthenium <sup>II</sup> -Arene Complexes of Curcumin: X-Ray and Density Functional Theory Structure, Synthesis, and Spectroscopic Characterization, in Vitro Antitumor Activity, and DNA Docking Studies of (p-Cymene)Ru(curcuminato)chloro. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1072-1081.	6.4	202
2	Structural Basis for Antioxidant Activity of trans-Resveratrol: Ab Initio Calculations and Crystal and Molecular Structure. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 7279-7285.	5.2	148
3	Crystal and Molecular Structure of Piceatannol; Scavenging Features of Resveratrol and Piceatannol on Hydroxyl and Peroxyl Radicals and Docking with Transthyretin. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 10557-10566.	5.2	68
4	Antitumor Activity of the Mixed Phosphine Gold Species Chlorotriphenylphosphine-1,3-bis(diphenylphosphino)propanegold(I). <i>Journal of Medicinal Chemistry</i> , 2003, 46, 1737-1742.	6.4	62
5	Antifungal Activity of Resveratrol against <i>Botrytis cinerea</i> Is Improved Using 2-Furyl Derivatives. <i>PLoS ONE</i> , 2011, 6, e25421.	2.5	56
6	Potential Mechanism of the Anti-trypanosomal Activity of Organoruthenium Complexes with Bioactive Thiosemicarbazones. <i>Biological Trace Element Research</i> , 2013, 153, 371-381.	3.5	52
7	Synthesis, Characterization, and Antitumor Activity of Water-Soluble (Arene)ruthenium(II) Derivatives of 1,3-Dimethyl-4-acylpyrazolon-5-ato Ligands. First Example of Ru(arene)(ligand) Antitumor Species Involving Simultaneous Ru <sup>II</sup> -N7(guanine) Bonding and Ligand Intercalation to DNA. <i>Inorganic Chemistry</i> , 2014, 53, 3668-3677.	4.0	49
8	The in vitro antitumor activity of arene-ruthenium(II) curcuminoid complexes improves when decreasing curcumin polarity. <i>Journal of Inorganic Biochemistry</i> , 2016, 162, 44-51.	3.5	49
9	Inhibitory effect of $\beta^2$ -diketones and their metal complexes on TNF- $\alpha$ induced expression of ICAM-1 on human endothelial cells. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6166-6172.	3.0	34
10	Computational studies reveal mechanism by which quinone derivatives can inhibit SARS-CoV-2. Study of embelin and two therapeutic compounds of interest, methyl prednisolone and dexamethasone. <i>Journal of Infection and Public Health</i> , 2020, 13, 1868-1877.	4.1	34
11	Molecular Structure and Activity Toward DNA of Baicalein, a Flavone Constituent of the Asian Herbal Medicine "Sho-saiko-to". <i>Journal of Natural Products</i> , 2001, 64, 26-31.	3.0	32
12	Antioxidant Properties of Embelin in Cell Culture. Electrochemistry and Theoretical Mechanism of Scavenging. Potential Scavenging of Superoxide Radical through the Cell Membrane. <i>Antioxidants</i> , 2020, 9, 382.	5.1	32
13	A Short Pb <sup>II</sup> -Pb Separation in the Polymeric Compound Bis(pyrrolidinecarbodithioato)lead(II) and a Conformational Pathway Interconversion for the Pb <sub>4</sub> Framework. <i>Inorganic Chemistry</i> , 1997, 36, 3609-3615.	4.0	31
14	Effective and Novel Application of Hydrodynamic Voltammetry to the Study of Superoxide Radical Scavenging by Natural Phenolic Antioxidants. <i>Antioxidants</i> , 2019, 8, 14.	5.1	30
15	Taurolidine Antiadhesive Properties on Interaction with <i>E. coli</i> ; Its Transformation in Biological Environment and Interaction with Bacteria Cell Wall. <i>PLoS ONE</i> , 2010, 5, e8927.	2.5	29
16	Protection by extra virgin olive oil against oxidative stress in vitro and in vivo. Chemical and biological studies on the health benefits due to a major component of the Mediterranean diet. <i>PLoS ONE</i> , 2017, 12, e0189341.	2.5	29
17	Chemical Behavior and in Vitro Activity of Mixed Phosphine Gold(I) Compounds on Melanoma Cell Lines. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1584-1591.	6.4	22
18	Antitumor titanium compounds and related metallocenes. <i>Metal Ions in Biological Systems</i> , 2004, 42, 353-84.	0.4	20

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19	Emodin Scavenging of Superoxide Radical Includes $\pi$ - $\pi$ Interaction. X-Ray Crystal Structure, Hydrodynamic Voltammetry and Theoretical Studies. <i>Antioxidants</i> , 2020, 9, 194.	5.1	17
20	Interrelated Mechanism by Which the Methide Quinone Celastrol, Obtained from the Roots of <i>Tripterygium wilfordii</i> , Inhibits Main Protease 3CLpro of COVID-19 and Acts as Superoxide Radical Scavenger. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9266.	4.1	16
21	Probing antioxidant activity of 2-hydroxychalcones: Crystal and molecular structures, <i>in vitro</i> antiproliferative studies and <i>in vivo</i> effects on glucose regulation. <i>Biochimie</i> , 2013, 95, 1954-1963.	2.6	15
22	Crystal and Molecular Structure of Manganese(II) Lapacholate, a Novel Polymeric Species Undergoing Temperature-Reversible Metal to Ligand Electron Transfer. <i>Inorganic Chemistry</i> , 2009, 48, 3529-3534.	4.0	14
23	In Vitro Analysis of the Antioxidant and Antiviral Activity of Embelin against Herpes Simplex Virus-1. <i>Microorganisms</i> , 2021, 9, 434.	3.6	12
24	X-ray Crystal Structure of Embelin and Its DFT Scavenging of Superoxide Radical. <i>Journal of Computational Chemistry</i> , 2018, 39, 1143-1148.	3.3	11
25	Antioxidant studies by hydrodynamic voltammetry and DFT, quantitative analyses by HPLC-DAD of clovamide, a natural phenolic compound found in <i>Theobroma Cacao L.</i> beans. <i>Food Chemistry</i> , 2021, 341, 128260.	8.2	11
26	The Grapefruit Effect: Interaction between Cytochrome P450 and Coumarin Food Components, Bergamottin, Fraxidin and Osthole. X-ray Crystal Structure and DFT Studies. <i>Molecules</i> , 2020, 25, 3158.	3.8	9
27	Antioxidant properties of bee propolis and an important component, galangin, described by X-ray crystal structure, DFT-D and hydrodynamic voltammetry. <i>PLoS ONE</i> , 2022, 17, e0267624.	2.5	8
28	X-ray crystal structures, density functional theory and docking on deacetylase enzyme for antiproliferative activity of hispolon derivatives on HCT116 colon cancer. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 3805-3812.	3.0	7
29	Trans-cis octahedral interconversion pathway in diorganotin compounds. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 1535-1543.	1.8	6
30	Halogen bonds in N-bromosuccinimide and other N-halosuccinimides. <i>Structural Chemistry</i> , 2019, 30, 2205-2215.	2.0	6
31	Mechanistic Insights into the Inhibition of SARS-CoV-2 Main Protease by Clovamide and Its Derivatives: In Silico Studies. <i>Biophysica</i> , 2021, 1, 377-404.	1.4	6
32	X-ray Structure Determination, Antioxidant Voltammetry Studies of Butein and 2,4-Dihydroxy-3,4-dimethoxychalcone. Computational Studies of 4 Structurally Related 2,4-dihydroxychalcones to Examine Their Antimalarial Activity by Binding to Falcipain-2. <i>Molecules</i> , 2021, 26, 6511.	3.8	6
33	Mechanism of Caspase-1 Inhibition by Four Anti-inflammatory Drugs Used in COVID-19 Treatment. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1849.	4.1	6
34	A structural and computational study of citrulline in biochemical reactions. <i>Structural Chemistry</i> , 2017, 28, 1581-1589.	2.0	4
35	Halogen Bonding in (Z)-2-Iodocinnamaldehyde. <i>Molecules</i> , 2013, 18, 8712-8724.	3.8	3
36	A novel series of antitumor ruthenium beta-diketonato compounds. <i>FASEB Journal</i> , 2013, 27, 975.5.	0.5	1

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37	Correlation between DFT calculated and X-ray structures from CSD, for Cu(II) and Cu(I) coordination spheres when coordinated to four acyclic amine ligands. A reconsideration of copper(II) planarity. Journal of Coordination Chemistry, 2014, 67, 3932-3939.	2.2	0
38	Antioxidants in your diet: a new method to measure antioxidant effectiveness. FASEB Journal, 2013, 27, 577.1.	0.5	0
39	Comparison of Free Radical Scavenging Abilities of Various Chalcone Antioxidants. FASEB Journal, 2013, 27, 833.3.	0.5	0
40	Superoxide Scavenging by Natural Antioxidants studied using Cyclic Voltammetry. FASEB Journal, 2013, 27, 833.2.	0.5	0
41	Electrochemical Characterization of Superoxide Radical Chemistry and Scavenging by Natural Products. FASEB Journal, 2013, 27, 794.12.	0.5	0