Giovanni Ghigo

List of Publications by Year
in descending order

61	3,552	331670 21	138484 58
papers	citations	h-index	g-index

61	61	61	4133
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Blue light enhanced Heck arylation at room temperature applied to allenes. Organic Chemistry Frontiers, 2022, 9, 906-916.	4.5	6
2	Copper-Free Halodediazoniation of Arenediazonium Tetrafluoroborates in Deep Eutectic Solvents-like Mixtures. Molecules, 2022, 27, 1909.	3.8	9
3	Visible Light Mediated Photocatalytic N-Radical Cascade Reactivity of Î³,Î´-Unsaturated N-Arylsulfonylhydrazones: A General Approach to Structurally Diverse Tetrahydropyridazines. Journal of Organic Chemistry, 2021, 86, 3300-3323.	3.2	17
4	How do arenediazonium salts behave in deep eutectic solvents? A combined experimental and computational approach. Journal of Molecular Liquids, 2021, 339, 116743.	4.9	13
5	Experimental and theoretical study of the fluorescence emission of ferulic acid: Possible insights into the fluorescence properties of humic substances. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117587.	3.9	9
6	Copper catalysed Gomberg-Bachmann-Hey reactions of arenediazonium tetrafluoroborates and heteroarenediazonium o-benzenedisulfonimides. Synthetic and mechanistic aspects. Tetrahedron, 2020, 76, 131632.	1.9	12
7	Diastereoselective synthesis of 3-(Î±-aryl)alkenylindoles from the direct dehydrative coupling of indoles and ketones: A synthetic and theoretical study. Tetrahedron, 2020, 76, 131498.	1.9	2
8	Aerobic CuCl₂-Catalyzed Dehydrogenative Cross-Coupling of Tertiary Amines. A Combined Computational and Experimental Study. Journal of Physical Chemistry A, 2019, 123, 2796-2814.	2.5	9
9	A simple, direct synthesis of 3-vinylindoles from the carbocation-catalysed dehydrative cross-coupling of ketones and indoles. A combined experimental and computational study. Tetrahedron, 2019, 75, 363-373.	1.9	6
10	Evidence of an Important Role of Photochemistry in the Attenuation of the Secondary Contaminant 3,4-Dichloroaniline in Paddy Water. Environmental Science & Technology, 2018, 52, 6334-6342.	10.0	13
11	New insights into the protogenic and spectroscopic properties of commercial tannic acid: the role of gallic acid impurities. New Journal of Chemistry, 2018, 42, 7703-7712.	2.8	25
12	Mechanistic dichotomy in the gasâ€phase addition of NO₃ to polycyclic aromatic hydrocarbons: Theoretical study. International Journal of Quantum Chemistry, 2018, 118, e25641.	2.0	0
13	The nature of the light absorption and emission transitions of 4-hydroxybenzophenone in different solvents. A combined computational and experimental study. Photochemical and Photobiological Sciences, 2017, 16, 527-538.	2.9	7
14	Anthracene and phenanthrene tropospheric oxidation promoted by the nitrate radical in the gas-phase. Theoretical modelistic study. Atmospheric Environment, 2017, 167, 181-189.	4.1	8
15	CLEPS 1.0: A new protocol for cloud aqueous phase oxidation of VOC mechanisms. Geoscientific Model Development, 2017, 10, 1339-1362.	3.6	30
16	Tuning of the electronic properties of H-passivated armchair graphene nanoribbons by mild border oxidation: Theoretical study on periodic models. International Journal of Quantum Chemistry, 2016, 116, 1281-1284.	2.0	1
17	Reaction between propargyl radical and 1,3-butadiene to form five to seven membered rings. Theoretical study. Combustion and Flame, 2016, 168, 331-341.	5.2	10
18	Efficient alkylation of cyclic silyl enol ethers by diarylmethylium salts. Tetrahedron Letters, 2016, 57, 4758-4762.	1.4	4

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19	Computational assessment of the fluorescence emission of phenol oligomers: A possible insight into the fluorescence properties of humic-like substances (HULIS). Journal of Photochemistry and Photobiology A: Chemistry, 2016, 315, 87-93.	3.9	41
20	Tuning of the Electronic Properties of Armchair Graphene Nanoribbons through Functionalization: Theoretical Study of ¹Î”_g O₂ Border Addition. ChemPhysChem, 2015, 16, 3030-3037.	2.1	2
21	Combustive, Postcombustive, and Tropospheric Butadiyne Oxidation by O₂, Following Initial HO Attack. Theoretical Study. Journal of Physical Chemistry A, 2015, 119, 10172-10180.	2.5	0
22	o-Benzyne fragmentation and isomerization pathways: a CASPT2 study. Physical Chemistry Chemical Physics, 2014, 16, 23944-23951.	2.8	14
23	First Ring Formation by Radical Addition of Propargyl to But-1-ene-3-yne in Combustion. Theoretical Study of the C₇H₇ Radical System. Journal of Physical Chemistry A, 2014, 118, 427-440.	2.5	32
24	Tailoring fluorescent strigolactones for in vivo investigations: a computational and experimental study. Organic and Biomolecular Chemistry, 2014, 12, 2960-2968.	2.8	28
25	Memory Effects in Carbocation Rearrangements: Structural and Dynamic Study of the Norborn-2-en-7-ylmethyl-X Solvolysis Case. Journal of Organic Chemistry, 2013, 78, 9041-9050.	3.2	13
26	Photochemical transformation of ibuprofen into harmful 4-isobutylacetophenone: Pathways, kinetics, and significance for surface waters. Water Research, 2013, 47, 6109-6121.	11.3	81
27	First carbon ring closures started by the combustive radical addition of propargyl to butadiyne. A theoretical study. Combustion and Flame, 2013, 160, 2333-2342.	5.2	16
28	Catalytic properties and acidity of 1,2-benzenedisulfonimide and some of its derivatives. An experimental and computational study. Tetrahedron, 2013, 69, 3212-3217.	1.9	10
29	o-Benzenedisulfonimide and its chiral derivative as BrÃ¸nsted acids catalysts for one-pot three-component Strecker reaction. Synthetic and mechanistic aspects. Organic and Biomolecular Chemistry, 2012, 10, 4058.	2.8	26
30	A change from stepwise to concerted mechanism in the acid-catalysed benzidine rearrangement: a theoretical study. Tetrahedron, 2012, 68, 2161-2165.	1.9	18
31	Border Reactivity of Polycyclic Aromatic Hydrocarbons and Soot Platelets Toward Ozone. A Theoretical Study. Journal of Physical Chemistry A, 2011, 115, 470-481.	2.5	7
32	The Mechanism of the Acidâ€Catalyzed Benzidine Rearrangement of Hydrazobenzene: A Theoretical Study. European Journal of Organic Chemistry, 2011, 2011, 2326-2333.	2.4	27
33	Synthesis of 3-aryl-4-methyl-1,2-benzenedisulfonimides, new chiral BrÃ¸nsted acids. A combined experimental and theoretical study. Tetrahedron, 2011, 67, 5789-5797.	1.9	14
34	MOLCAS 7: The Next Generation. Journal of Computational Chemistry, 2010, 31, 224-247.	3.3	1,485
35	The mechanism of the Stevens and Sommeletâ€“Hauser Rearrangements. A Theoretical Study. Journal of Organic Chemistry, 2010, 75, 3608-3617.	3.2	73
36	Polycyclic aromatic hydrocarbon formation mechanism in the â€œparticle phaseâ€• A theoretical study. Physical Chemistry Chemical Physics, 2010, 12, 9429.	2.8	27

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37	Synthetic and Mechanistic Aspects of Acidâ€Catalyzed Disproportionation of Dialkyl Diarylmethyl Ethers: A Combined Experimental and Theoretical Study. European Journal of Organic Chemistry, 2009, 2009, 4346-4351.	2.4	20
38	Reactions of Arenediazonium oâ€Benzenedisulfonimides with Aliphatic Triorganoindium Compounds. European Journal of Organic Chemistry, 2008, 2008, 862-868.	2.4	14
39	Tropospheric Oxidation of Ethyne and But-2-yne. 1. Theoretical Mechanistic Study. Journal of Physical Chemistry A, 2008, 112, 3656-3665.	2.5	22
40	Soot Platelets and PAHs with an Odd Number of Unsaturated Carbon Atoms and Ï€ Electrons:â€‰ Theoretical Study of Their Spin Properties and Interaction with Ozone. Journal of Physical Chemistry A, 2008, 112, 973-982.	2.5	20
41	Quantum Chemical Characterization of Low-Energy States of Calicene in the Gas Phase and in Solution. Journal of Organic Chemistry, 2007, 72, 2823-2831.	3.2	14
42	Theoretical mechanistic studies on oxidation reactions of some saturated and unsaturated organic molecules. Theoretical Chemistry Accounts, 2007, 117, 699-707.	1.4	4
43	The oxidized soot surface: Theoretical study of desorption mechanisms involving oxygenated functionalities and comparison with temperature programed desorption experiments. Journal of Chemical Physics, 2006, 125, 194706.	3.0	37
44	Aromatic Hydrocarbon Nitration under Tropospheric and Combustion Conditions. A Theoretical Mechanistic Study. Journal of Physical Chemistry A, 2006, 110, 13270-13282.	2.5	19
45	Theoretical Study on the Reactivity and Regioselectivity of the Ene Reaction of1Î”g O2 with Î±,Î²-Unsaturated Carbonyl Compounds. European Journal of Organic Chemistry, 2005, 2005, 3643-3649.	2.4	22
46	The electronic spectra of 2-(2â€²-hydroxybenzoyl)pyrrole and 2-(2â€²-methoxybenzoyl)pyrrole: a theoretical study. Journal of Physical Organic Chemistry, 2005, 18, 1099-1106.	1.9	5
47	A theoretical study of the excited states of CrH: Potential energies, transition moments, and lifetimes. Journal of Chemical Physics, 2004, 121, 8194.	3.0	18
48	A modified definition of the zeroth-order Hamiltonian in multiconfigurational perturbation theory (CASPT2). Chemical Physics Letters, 2004, 396, 142-149.	2.6	897
49	Modeling Soot and Its Functionalization under Atmospheric or Combustion Conditions by Density Functional Theory within Molecular (Polycyclic-Aromatic-Hydrocarbon-like) and Periodic Methodologies. Journal of Physical Chemistry B, 2004, 108, 3215-3223.	2.6	35
50	The 1Î”g Dioxygen Ene Reaction with Propene: A Density Functional and Multireference Perturbation Theory Mechanistic Study. Chemistry - A European Journal, 2003, 9, 2616-2626.	3.3	21
51	Mechanistic Significance ofPerepoxide TrappingExperiments, with Epoxide Detection, in1Î”gDioxygen Reactions with Alkenes. Journal of Organic Chemistry, 2003, 68, 3125-3129.	3.2	6
52	Methyl and Silyl Mesolytic Dissociations in the Radical Cations and Radical Anions of But-1-ene, Allylsilane, Hexa-1,3-diene, and Penta-2,4-dienylsilane. CASâ^'MCSCF and Coupled Cluster Theoretical Study. Journal of Organic Chemistry, 2003, 68, 6083-6095.	3.2	3
53	Combustion and atmospheric oxidation of hydrocarbons: Theoretical study of the methyl peroxyl self-reaction. Journal of Chemical Physics, 2003, 118, 10575-10583.	3.0	47
54	Oxidative Degradation of Benzene in the Troposphere. Theoretical Mechanistic Study of the Formation of Unsaturated Dialdehydes and Dialdehyde Epoxides. Journal of Physical Chemistry A, 2002, 106, 4411-4422.	2.5	47

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55	Diradical and Peroxirane Pathways in the [Ï€2 + Ï€2] Cycloaddition Reactions of1Î”gDioxygen with Ethene, Methyl Vinyl Ether, and Butadiene:Â A Density Functional and Multireference Perturbation Theory Study. Journal of the American Chemical Society, 2000, 122, 1414-1423.	13.7	78
56	Density functional, single and multireference perturbation theory study of the reaction 3Î£gO2+HOCH2CH2â‹…â†'HOOâ‹…+HOCH=CH2, modeling an important step in tropospheric benzene oxidation. Journal of Chemical Physics, 1999, 110, 7298-7304.	3.0	13
57	From Benzene to Muconaldehyde:Â Theoretical Mechanistic Investigation on Some Tropospheric Oxidation Channels. Journal of the American Chemical Society, 1999, 121, 8366-8372.	13.7	50
58	Benzene Oxidation in the Troposphere. Theoretical Investigation on the Possible Competition of Three Postulated Reaction Channels. Journal of the American Chemical Society, 1998, 120, 6753-6757.	13.7	51
59	Ab initio theoretical study of metallo-dehydrogenation and nucleophilic addition of methyllithium and methylpotassium with crotonaldehyde dimethyl acetal. Tetrahedron, 1997, 53, 7937-7946.	1.9	6
60	Ab initio theoretical study of the reactivity as bases or nucleophiles of potassium and lithium methides. Journal of Physical Organic Chemistry, 1997, 10, 885-897.	1.9	1
61	Ab initio theoretical investigation on the reactivity as bases of mixed LiMe/KOMe complexes. A model for schlosser LICKOR superbase. Tetrahedron, 1996, 52, 7053-7062.	1.9	7