

Gianfranco Ercolani

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

2,552
citations

26
h-index

47
g-index

123
ext. papers

2,746
ext. citations

6.6
avg, IF

5.31
L-index

#	Paper	IF	Citations
95	Nanocomposite Anion Exchange Membranes with a Conductive Semi-Interpenetrating Silica Network. <i>Membranes</i> , 2021 , 11,	3.8	2
94	Dissipative operation of pH-responsive DNA-based nanodevices. <i>Chemical Science</i> , 2021 , 12, 11735-11739.	9.4	11
93	Time-programmable pH: decarboxylation of nitroacetic acid allows the time-controlled rising of pH to a definite value. <i>Chemical Science</i> , 2021 , 12, 7460-7466	9.4	8
92	Model Long Side-Chain PPO-Based Anion Exchange Ionomers: Properties and Alkaline Stability. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1309-1316	3.8	5
91	Time Programmable Locking/Unlocking of the Calix[4]arene Scaffold by Means of Chemical Fuels. <i>Chemistry - A European Journal</i> , 2020 , 26, 14954-14962	4.8	9
90	Using antibodies to control DNA-templated chemical reactions. <i>Nature Communications</i> , 2020 , 11, 6242	17.4	6
89	"Intrinsic" Anion Exchange Polymers through the Dissociation of Strong Basic Groups: PPO with Grafted Bicyclic Guanidines. <i>Membranes</i> , 2019 , 9,	3.8	4
88	Entropy-Based Rational Modulation of the p of a Synthetic pH-Dependent Nanoswitch. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11367-11371	16.4	13
87	Influence of the position of ionic groups in amphoteric polyelectrolytes on hydration and ionic conduction: Side chain vs main chain. <i>European Polymer Journal</i> , 2019 , 119, 45-51	5.2	3
86	Alkaline stability of model anion exchange membranes based on poly(phenylene oxide) (PPO) with grafted quaternary ammonium groups: Influence of the functionalization route. <i>Polymer</i> , 2019 , 185, 12193-12199	3.9	21
85	Stimuli-responsive amphoteric ion exchange polymers bearing carboxylic and amine groups grafted to a cross-linkable silica network. <i>European Polymer Journal</i> , 2019 , 112, 255-262	5.2	6
84	Record Rate Enhancements for Tetrathiafulvalene Guests in the Formation of Bipyridinium- and Diazapyrenium-Based [2]Pseudorotaxanes. <i>Journal of Organic Chemistry</i> , 2018 , 83, 11446-11449	4.2	2
83	Statistical Ring Catenation under Thermodynamic Control: Should the Jacobson-Stockmayer Cyclization Theory Take into Account Catenane Formation?. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 649-656	3.4	4
82	Catenation Equilibria Between Ring Oligomers and Their Relation to Effective Molarities: Models From Theories and Simulations. <i>Macromolecular Theory and Simulations</i> , 2016 , 25, 63-73	1.5	5
81	Regulating Competing Supramolecular Interactions Using Ligand Concentration. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6852-60	16.4	13
80	Equilibrium Effective Molarity As a Key Concept in Ring-Chain Equilibria, Dynamic Combinatorial Chemistry, Cooperativity and Self-assembly. <i>Advances in Physical Organic Chemistry</i> , 2016 , 50, 1-76	0.3	4
79	Supramolecular buffering by ring-chain competition. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1501-9	16.4	15

78	Principles for designing an achiral receptor promoting asymmetric autocatalysis with amplification of chirality. <i>Tetrahedron: Asymmetry</i> , 2014 , 25, 405-410		15
77	Bioinspired Self-Assembly II: Principles of Cooperativity in Bioinspired Self-Assembling Systems 2012 , 47-69		3
76	Rhodium-catalysed hydrogenation of enamides with monodentate phosphorous ligands. A density functional theory study. <i>Journal of Physical Organic Chemistry</i> , 2011 , 24, 257-261	2.1	8
75	Allosterische, Chelat- und interannuläre Kooperativität auf den Punkt gebracht. <i>Angewandte Chemie</i> , 2011 , 123, 1800-1807	3.6	51
74	Allosteric, chelate, and interannular cooperativity: a mise au point. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1762-8	16.4	185
73	Putting the mechanism of the Soai reaction to the test: DFT study of the role of aldehyde and dialkylzinc structure. <i>Journal of Organic Chemistry</i> , 2011 , 76, 2619-26	4.2	71
72	Template Effect in the Self-Assembly of a [2]Rotaxane Containing Diazapyrenium Units. <i>Progress in Reaction Kinetics and Mechanism</i> , 2010 , 35, 209-217	0.5	2
71	Mechanism of the asymmetric autocatalytic Soai reaction studied by density functional theory. <i>Chemistry - A European Journal</i> , 2010 , 16, 3147-56	4.8	42
70	Model Systems for the Template Effect of Alkali and Alkaline Earth Metal Ions on the Formation of Benzo-18-Crown-6. <i>Bulletin Des Sociétés Chimiques Belges</i> , 2010 , 91, 485-485		
69	Molecular recognition and self-assembly special feature: Squaring cooperative binding circles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10471-6	11.5	32
68	Amplification of chirality and enantioselectivity in the asymmetric autocatalytic Soai reaction. <i>ChemPhysChem</i> , 2009 , 10, 2508-15	3.2	40
67	Combinatorial Macrocyclizations under Thermodynamic Control: The Two-Monomer Case. <i>Macromolecules</i> , 2009 , 42, 4077-4083	5.5	20
66	6-Azahemiporphycene: a new member of the porphyrinoid family. <i>Inorganic Chemistry</i> , 2009 , 48, 10346-57	5.1	26
65	Ring-expanding polymerization by reversible ring fusion. A fascinating process driven by entropy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4662-5	3.4	12
64	Influence of selectivity on the supramolecular polymerization of AB-type polymers capable of Both A x A and A x B interactions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13755-64	16.4	118
63	Chiral supramolecular capsule by ligand promoted self-assembly of resorcinarene-Zn porphyrin conjugate. <i>Journal of Porphyrins and Phthalocyanines</i> , 2008 , 12, 1279-1288	1.8	12
62	Linear polynuclear helicates as a link between discrete supramolecular complexes and programmed infinite polymetallic chains. <i>Chemistry - A European Journal</i> , 2008 , 14, 2994-3005	4.8	40
61	Unraveling the mechanism of the Soai asymmetric autocatalytic reaction by first-principles calculations: induction and amplification of chirality by self-assembly of hexamolecular complexes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6832-5	16.4	84

60	Unraveling the Mechanism of the Soai Asymmetric Autocatalytic Reaction by First-Principles Calculations: Induction and Amplification of Chirality by Self-Assembly of Hexamolecular Complexes. <i>Angewandte Chemie</i> , 2008 , 120, 6938-6941	3.6	28
59	Mechanism of threading a polymer through a macrocyclic ring. <i>Science</i> , 2008 , 322, 1668-71	33.3	92
58	Template effects in the formation of [2]pseudo-rotaxanes containing diazapyrenium units. <i>Journal of Organic Chemistry</i> , 2007 , 72, 1503-6	4.2	13
57	Symmetry numbers and statistical factors in self-assembly and multivalency. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12195-203	3.4	100
56	A combined scanning tunneling microscopy and reflectance anisotropy spectroscopy investigation of tetraphenylporphyrin deposited on graphite. <i>Surface Science</i> , 2007 , 601, 2607-2610	1.8	15
55	DFT evidence for a stepwise mechanism in the O-neophyl rearrangement of 1,1-diaryloxy radicals. <i>Journal of Organic Chemistry</i> , 2007 , 72, 4515-9	4.2	20
54	Tuneable intramolecular intermetallic interactions as a new tool for programming linear heterometallic 4f-4f complexes. <i>Inorganic Chemistry</i> , 2007 , 46, 9312-22	5.1	37
53	Template effect of tetrathiafulvalene in the formation of cyclobis(paraquat-p-phenylene). <i>Journal of Organic Chemistry</i> , 2005 , 70, 3761-4	4.2	32
52	The origin of cooperativity in double-wheel receptors. Freezing of internal rotation or ligand-induced torsional strain?. <i>Organic Letters</i> , 2005 , 7, 803-5	6.2	25
51	The effect of ring substitution on the O-neophyl rearrangement of 1,1-diaryloxy radicals. A product and time-resolved kinetic study. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3884-91	4.2	62
50	Study of the reaction of bis- and tris-pyrylium and -thiopyrylium cations with methoxide ion. Electronic effects of the heterocyclic rings as substituents. <i>Journal of Organic Chemistry</i> , 2005 , 70, 6422-8	4.2	5
49	Determination of the Rotational Barrier in Ethane by Vibrational Spectroscopy and Statistical Thermodynamics. <i>Journal of Chemical Education</i> , 2005 , 82, 1703	2.4	9
48	The role of aromatic radical cations and benzylic cations in the 2,4,6-triphenylpyrylium tetrafluoroborate photosensitized oxidation of ring-methoxylated benzyl alcohols in CH ₂ Cl ₂ solution. <i>Journal of Organic Chemistry</i> , 2004 , 69, 8874-85	4.2	22
47	Catalysis in the self-assembly of [2]rotaxanes and [2]pseudorotaxanes. Effect of the length of polyetheral side arms and terminal stoppers. <i>Journal of Organic Chemistry</i> , 2004 , 69, 1393-6	4.2	12
46	Assessment of cooperativity in self-assembly. <i>Journal of the American Chemical Society</i> , 2003 , 125, 16097-103	11.03	268
45	OH-Induced shift from carbon to oxygen acidity in the side-chain deprotonation of 2-, 3- and 4-methoxybenzyl alcohol radical cations in aqueous solution: results from pulse radiolysis and DFT calculations. <i>Tetrahedron</i> , 2003 , 59, 613-618	2.4	12
44	A Model for Self-Assembly in Solution ¹ . <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5052-5057	3.4	74
43	Role of face-to-face and edge-to-face aromatic interactions in the inclusion complexation of cyclobis(paraquat-p-phenylene): a theoretical study. <i>Journal of Organic Chemistry</i> , 2003 , 68, 6470-3	4.2	26

42	The role of stereoelectronic effects on the side-chain fragmentation of alkylaromatic radical cations. The reactivity of 5-methoxy-2,2-dimethylindan-1-yl radical cation. <i>Tetrahedron</i> , 2002 , 58, 5039-5044	3.4	7
41	Physical basis of self-assembly. Part 2. A theoretical and experimental study of the self-assembly of a zinc meso-pyridyl porphyrin. <i>New Journal of Chemistry</i> , 2001 , 25, 783-789	3.6	39
40	Comment on Self-assembled multiporphyrin arrays mediated by self-complementary quadrupole hydrogen bond motifs. <i>Chemical Communications</i> , 2001 , 1416-1417	5.8	19
39	Template effects in the self-assembly of a [2]rotaxane and a [2]pseudorotaxane with the same binding sites in the linear component. <i>Journal of Organic Chemistry</i> , 2001 , 66, 4950-3	4.2	17
38	Template effects and kinetic selection in the self-assembly of crown ether cyclobis(paraquat-p-phenylene). <i>Chemistry - A European Journal</i> , 2000 , 6, 3540-6	4.8	26
37	Numerical Evaluation of Energy Levels and Wave Functions for Hindered Internal Rotation. <i>Journal of Chemical Education</i> , 2000 , 77, 1495	2.4	17
36	Comment on "Using a Convenient, Quantitative Model for Torsional Entropy To Establish Qualitative Trends for Molecular Processes That Restrict Conformational Freedom". <i>Journal of Organic Chemistry</i> , 1999 , 64, 3350-3353	4.2	25
35	Spectacular Rate Enhancement in the Self-Assembly of a [2]Catenane. <i>Journal of Organic Chemistry</i> , 1998 , 63, 8088-8089	4.2	15
34	Physical Basis of Self-Assembly Macrocyclizations. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 5699-5703	3.4	96
33	Quantitative Evaluation of Template Effect in the Formation of Cyclobis(paraquat-p-phenylene). <i>Journal of Organic Chemistry</i> , 1997 , 62, 7015-7017	4.2	20
32	Distributions of cyclic oligomers formed by irreversible step-growth polymerisation. Results from kinetic modeling. <i>Macromolecular Theory and Simulations</i> , 1997 , 6, 1139-1151	1.5	2
31	Effect of alkali cations on the methoxide ion addition to corands incorporating a thiopyrylium subunit. <i>Tetrahedron</i> , 1996 , 52, 3509-3520	2.4	3
30	Proximity effect induced by hydrogen-bonding association. A detailed kinetic study. <i>Tetrahedron Letters</i> , 1996 , 37, 101-104	2	4
29	Thiopyrylium, Selenopyrylium, and Telluropyrylium Salts. <i>Advances in Heterocyclic Chemistry</i> , 1994 , 65-195	2.4	28
28	Macrocyclization under Kinetic Control. A Theoretical Study and Its Application to the Synthesis of Macrocyclic Poly(thiolactones). <i>Journal of the American Chemical Society</i> , 1994 , 116, 7081-7087	16.4	31
27	Remarkable catalysis by strontium ion in SN2 and E2 reactions occurring in proximity to a crown ether structure. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 1239		8
26	Effective molarities from distributions of cyclic oligomers in the synthesis of polythiolactones. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 538		8
25	Alkylation of 2,6-diphenylpyrylium and 2,6-di-t-butylpyrylium ions by photochemical reaction with tetraalkylstannanes. <i>Tetrahedron</i> , 1993 , 49, 3793-3800	2.4	5

24	Macrocyclization under thermodynamic control. A theoretical study and its application to the equilibrium cyclooligomerization of .beta.-propiolactone. <i>Journal of the American Chemical Society</i> , 1993 , 115, 3901-3908	16.4	178
23	The problem of regioselectivity in nucleophilic additions to pyridinium and related cations. Role of generalized anomeric effect. <i>Journal of Organic Chemistry</i> , 1992 , 57, 4431-4434	4.2	21
22	Synthesis and conformational aspects of corands incorporating pyrylium, thiopyrylium and pyridine subunits. <i>Tetrahedron</i> , 1991 , 47, 1977-1984	2.4	7
21	Isomerization equilibria of 2H- and 4H-thiopyrans. <i>Journal of Organic Chemistry</i> , 1991 , 56, 1674-1675	4.2	11
20	Effects of metal ions on the equilibria of methanol and methoxide ion addition to benzaldehydes. Effect of a poly(oxyethylene) side arm. <i>Journal of Organic Chemistry</i> , 1991 , 56, 6331-6336	4.2	3
19	Alkali and alkaline-earth metal ion catalysis in the reaction of aryl acetates with methoxide ion. Effect of a poly(oxyethylene) side arm. <i>Journal of the American Chemical Society</i> , 1990 , 112, 423-427	16.4	14
18	Syntheses of many-membered rings. Part 28 kinetic models for the irreversible cyclisation of two symmetrical monomers. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1990 , 747		6
17	Effects of α and β substituents on the relative reactivity of pyrylium and thiopyrylium cations. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1989 , 1393		9
16	Simulation of irreversible cyclization of bifunctional chains. A computer-aided approach to the synthesis of many-membered rings and to the evaluation of effective molarities by preparative experiments. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1989 , 187		2
15	Steric effects on rates and equilibria of a cation-anion combination reaction: the methoxide attachment to 4-substituted 2,6-di-tert-butylpyrylium cations. <i>Journal of Organic Chemistry</i> , 1988 , 53, 1729-1733	4.2	6
14	Kinetic treatment of irreversible cyclooligomerization of bifunctional chains and its relevance to the synthesis of many-membered rings. <i>Macromolecules</i> , 1988 , 21, 1241-1246	5.5	21
13	Fast atom bombardment mass spectrometry: a useful technique for structural characterization of pyrylium, thiopyrylium, and pyridinium cations. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1987 , 633		13
12	The First Homolytic Substitution of Pyrylium Salts. C-4 Methylation of 2,6-Disubstituted Pyrylium Cations. <i>Synthetic Communications</i> , 1987 , 17, 817-821	1.7	2
11	Thiopyrylium cations as appropriate compounds for the quantitative evaluation of ipso-substituent effects. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1987 , 1427		7
10	^1H nuclear magnetic resonance study of methoxide addition to pyrylium and thiopyrylium cations; heteroatom and substituent effects. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1986 , 271		12
9	Quantitative comparison of the heteroatom effects in the methoxide attachment to pyrylium and thiopyrylium cations. Thermodynamics of the isomerization of pyrans and thiopyrans. <i>Journal of Organic Chemistry</i> , 1986 , 51, 4385-4390	4.2	10
8	Rates and equilibria of the methoxide attachment to 2,6-di-tert-butyl-4-arylthiopyrylium cations. Can ion pair formation be rate determining in anion-cation combination reactions?. <i>Journal of the American Chemical Society</i> , 1986 , 108, 3409-3415	16.4	7
7	One-Pot Synthesis of 2,6-Di-t-butyl- and 2,6-Diarylthiopyrylium Perchlorates. <i>Synthesis</i> , 1985 , 1985, 789-790		4

6	Kinetic and thermodynamic study of the reaction of 2,4,6-triphenylthiopyrylium ion with butylamine and cyclohexylamine in dimethyl sulfoxide. <i>Journal of Organic Chemistry</i> , 1984 , 49, 1806-1810 ⁴⁻²	5
5	Rates and equilibria of the reaction of 2,4,6-triphenylthiopyrylium ion with piperidine and morpholine in dimethyl sulfoxide. An unusual proton transfer to a nitrogen base. <i>Journal of the American Chemical Society</i> , 1984 , 106, 7082-7087	16.4 4
4	Template effects. 5. Model system for the template effect of alkali and alkaline-earth metal ions on the formation of benzo-18-crown-6 in methanol solution. <i>Journal of the American Chemical Society</i> , 1983 , 105, 6146-6149	16.4 16
3	Association of alkali and alkaline earth cations with benzo-18-crown-6 and its neutral and negatively charged acyclic analogs in methanol solution. <i>Journal of the American Chemical Society</i> , 1981 , 103, 7484-7489	16.4 19
2	Template effects. 3. The quantitative determination of the catalytic effects of alkali and alkaline earth cations in the formation of benzo-18-crown-6 in methanol solution. <i>Journal of the American Chemical Society</i> , 1981 , 103, 2780-2782	16.4 18
1	Thermodynamics of Metal-Mediated Assemblies of Porphyrins	167-215 38