Javier Cataln

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.

148 papers	4,904 citations	39 h-index	65 g-index
155 ext. papers	5,263 ext. citations	4.3 avg, IF	5.87 L-index

#	Paper	IF	Citations
148	On the empirical scales of organic solvents established using probe/homomorph pairs. *Journal of Physical Organic Chemistry*, **2021**, 34, e4206	2.1	2
147	Photophysics of the electronic states S0 and S1 for the coplanar molecular structures of the diphenylpolyenes DPH and DPO. *Journal of Physical Organic Chemistry*, **2021**, 34, e4256	2.1	
146	Carbon disulfide solvent, helping to clarify the Stokes shift in diphenylpolyenes. *Journal of Physical Organic Chemistry*, **2021**, 34, e4147	2.1	1
145	Solvatochromic correlation analysis of monomolecular SN1/E1 heterolysis reactions of tertiary haloalkanes. *Journal of Molecular Liquids*, **2021**, 324, 114699	6	2
144	On the mirror symmetry between the absorption and emission of complex molecules in solution. *Journal of Physical Organic Chemistry*, **2020**, 33, e4034	2.1	1
143	Comments on "Quantifying solvent effects through QSPR: A new look over different model equations" *Journal of Molecular Liquids*, **2020**, 298, 111922	6	7
142	Solvatochromism in urea/water and urea-derivative/water solutions. *Physical Chemistry Chemical Physics*, **2020**, 22, 25165-25176	3.6	5
141	On the photophysics of a polyene dissolved in n-alkanes when the temperature drops from 293 to 77 K. *Journal of Physical Organic Chemistry*, **2020**, 33, e4097	2.1	2
140	On the hydrophobic effect in water–alcohol mixtures. *Chemical Physics*, **2019**, 527, 110467	2.3	4
139	On the photo-activation of the S0´-> ´S1 transition in polyenes. *Journal of Physical Organic Chemistry*, **2019**, 32, e3933	2.1	4
138	Kasha's rule: a reappraisal. *Physical Chemistry Chemical Physics*, **2019**, 21, 10061-10069	3.6	47
137	Thermochromism of pure alkanols and water versus its polarizability. *Chemical Physics*, **2019**, 522, 99-103	2.3	1
136	On the dual fluorescence of diphenylpolyenes from five to seven polyene double bonds. *Journal of Physical Organic Chemistry*, **2019**, 32, e3906	2.1	3
135	On the first electronic transitions in molecular spectra of conjugated diphenylpolyenes: A reappraisal. *Chemical Physics*, **2019**, 525, 110422	2.3	3
134	Existence of Two Fluorescence Bands in all- trans-Polyenes with Six and Seven Double Bonds. *Journal of Physical Chemistry A*, **2018**, 122, 6391-6395	2.8	3
133	On the photophysical model for polyenes: Experimental evidence of the 1,8-diphenylocta-1,3,5,7-tetraene molecule dissolved in n-octane, cyclooctane, and 2,2,4-trimethylpentane. *Journal of Physical Organic Chemistry*, **2018**, 31, e3794	2.1	7
132	Molecule 1-Methyl-5-nitroindoline Probes the Structural Change of Liquid Water with Temperature. *ACS Omega*, **2018**, 3, 18930-18934	3.9	4

131	Spectroscopy of 1,6-diphenyl-1,3,5-hexatriene (DPH) dissolved in three hexane structural isomers, and its consequences on the photophysical model of polyenes. *Physical Chemistry Chemical Physics*, **2017**, 19, 10657-10662	3.6	8
130	Liquid water changes its structure at 43 °C. *Chemical Physics Letters*, **2017**, 679, 86-89	2.5	8
129	Solvation by Glycerol at Temperatures from 353 to 77 K: Its Solvatochromic Characterization and Use to Block the Molecular Structure of Conformationally Flexible Structures. *Journal of Physical Chemistry A*, **2017**, 121, 7114-7120	2.8	6
128	Inversion of the 1B and 2A electronic states of all-trans-1,6-diphenyl-1,3,5-hexatriene in carbon disulfide. *Physical Chemistry Chemical Physics*, **2017**, 19, 27099-27104	3.6	11
127	Influence of solvent basicity on DMABN photophysics. *Journal of Physical Organic Chemistry*, **2017**, 30, e3613	2.1	2
126	The first UV absorption band of l-tryptophan is not due to two simultaneous orthogonal electronic transitions differing in the dipole moment. *Physical Chemistry Chemical Physics*, **2016**, 18, 15170-6	3.6	7
125	On the dimerization of unsubstituted □diphenylpolyenes at low concentrations in inert solvents. *Journal of Physical Organic Chemistry*, **2016**, 29, 414-420	2.1	2
124	Fluorosolvatochromism of monomethyl indoles: further evidence in support of a new photophysical model for the indole chromophore. *Journal of Physical Organic Chemistry*, **2015**, 28, 329-336	2.1	6
123	On Saltiel's isopolarizability approach and its applicability to diphenylpolyenes. *Chemical Physics Letters*, **2015**, 635, 56-59	2.5	4
122	The first UV absorption band for indole is not due to two simultaneous orthogonal electronic transitions differing in dipole moment. *Physical Chemistry Chemical Physics*, **2015**, 17, 12515-20	3.6	5
121	Reply to the comment on □On Saltiel's isopolarizability approach and its applicability to diphenylpolyenes□ by J. Catal□, Chem. Phys. Lett. 635 (2015) 56. *Chemical Physics Letters*, **2015**, 641, 104-105	2.5	0
120	Compounds with □(loc) -> □(deloc) electronic transitions and their solvatochromism. *Journal of Physical Organic Chemistry*, **2015**, 28, 497-503	2.1	7
119	Can the dipolarity of the medium induce the formation of charge transfer structures? An unexpected finding in the photophysics of DMABN. *Physical Chemistry Chemical Physics*, **2014**, 16, 7734-40	3.6	12
118	A spectroscopic rule from the solvatochromism of aromatic solutes in nonpolar solvents. *Journal of Physical Chemistry B*, **2014**, 118, 5168-76	3.4	12
117	SOLVENT EFFECTS BASED ON PURE SOLVENT SCALES **2014**, 581-622		6
116	On dimers and complexes of tetracene and the Kasha's molecular excitonic model. *Journal of Physical Organic Chemistry*, **2014**, 27, 456-462	2.1	1
115	Reply to the comment on "On the dual emission of p-dimethylaminobenzonitrile and its photophysical implications" by J. Catal□, Phys. Chem. Chem. Phys., 2013, 15, 8811-8820. *Physical Chemistry Chemical Physics*, **2013**, 15, 16978-9	3.6	4
114	On the dual emission of p-dimethylaminobenzonitrile and its photophysical implications. *Physical Chemistry Chemical Physics*, **2013**, 15, 8811-20	3.6	29

113	On the use of β-carotene as a probe for solvent polarizability. *Journal of Physical Organic Chemistry*, **2013**, 26, 948-952	2.1	3
112	Is the LE->TICT process in the S1 excited state of 9,9?-bisanthracenyl influenced by the viscosity or the dipolarity of the solvent?. *Journal of Luminescence*, **2013**, 143, 635-639	3.8	4
111	Do stilbazolium betaine dyes exhibit inverted solvatochromism by changes in solvent dipolarity?. *Dyes and Pigments*, **2012**, 95, 180-187	4.6	19
110	Analysis of the solvatochromism of 9,9'-biaryl compounds using a pure solvent dipolarity scale. *Journal of Physical Chemistry A*, **2012**, 116, 4726-34	2.8	24
109	On the fluorescence of methyl salicylate: the significance of its IMHB. *Physical Chemistry Chemical Physics*, **2012**, 14, 8903-9	3.6	13
108	On the solvatochromism of the n <-> π* electronic transitions in ketones. *Physical Chemistry Chemical Physics*, **2011**, 13, 4072-82	3.6	27
107	Questioning the photophysical model for the indole chromophore in the light of evidence obtained by controlling the non-specific effect of the medium with 1-chlorobutane as solvent. *Physical Chemistry Chemical Physics*, **2011**, 13, 15022-30	3.6	7
106	Photophysics of the 6H-indolo[2,3-b]quinoline molecule: the excited-state double-proton-transfer process in perspective. *Journal of Physical Chemistry A*, **2011**, 115, 1900-7	2.8	2
105	Generalized solvent scales as a tool for investigating solvent dependence of spectroscopic and kinetic parameters. Application to fluorescent BODIPY dyes. *Photochemical and Photobiological Sciences*, **2010**, 9, 996-1008	4.2	92
104	On the molecular structure and UV/vis spectroscopic properties of the solvatochromic and thermochromic pyridinium-N-phenolate betaine dye B30. *Journal of Physical Chemistry A*, **2010**, 114, 6226-34	2.8	58
103	Activation energy of the two-proton phototautomerism in 7-azaindole dimer and its medium-dependence. *Journal of Physical Chemistry A*, **2010**, 114, 5666-73	2.8	14
102	Proton phototransfers in doubly hydrogen bonded dimers: the photophysics of 6,7,8,9-tetrahydro-5H-pyrido[2,3-b]indole dimers. *Journal of Physical Chemistry A*, **2010**, 114, 811-6	2.8	5
101	Toward a generalized treatment of the solvent effect based on four empirical scales: dipolarity (SdP, a new scale), polarizability (SP), acidity (SA), and basicity (SB) of the medium. *Journal of Physical Chemistry B*, **2009**, 113, 5951-60	3.4	466
100	Fluorescence spectroscopy and amplified spontaneous emission (ASE) of phenylimidazoles: predicted vibronic coupling along the excited-state intramolecular proton transfer in 2-(2'-hydroxyphenyl)imidazoles. *Journal of Physical Chemistry A*, **2008**, 112, 5555-65	2.8	14
99	On the inoperativeness of the ESIPT process in the emission of 1-hydroxy-2-acetonaphthone: a reappraisal. *Journal of Physical Chemistry A*, **2008**, 112, 904-14	2.8	24
98	On the photophysics of polyenes. 1. Bathochromic shifts in their 1Ag --> 1Bu electronic transitions caused by the polarizability of the medium. *Journal of Physical Chemistry A*, **2008**, 112, 5653-7	2.8	14
97	On the concerted mechanism of photo-induced biprotonic transfer in C2h 7-azaindole dimer. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, E78; author reply E79	11.5	11
96	New contributions to the photophysical model for all-trans-polyenes from ttbP4, a nonphotolabile octatetraene. *Journal of Chemical Physics*, **2008**, 128, 104504	3.9	8

95	The photophysics of all-trans polyenes from ttbP5, a nonphotolabile pentaene. *Journal of Chemical Physics*, **2008**, 129, 014505	3.9	5
94	On the chromism of polyenes. *Chemical Physics Letters*, **2008**, 457, 87-90	2.5	7
93	Photophysics of 1-azacarbazole dimers: a reappraisal. *Journal of Physical Chemistry A*, **2007**, 111, 8774-9	2.8	14
92	On the molecular conformation of bisaromatic systems the case of 2-phenyl-2H-benzotriazoles. *Chemical Physics*, **2007**, 340, 32-42	2.3	5
91	The emission of □diphenylpolyenes: A model involving several molecular structures. *Chemical Physics*, **2007**, 335, 69-78	2.3	9
90	□er die relative Basizit□ von Imidazol und Benzimidazol. *Angewandte Chemie*, **2006**, 95, 323-324	3.6	1
89	On the photophysics of all-trans polyenes: hexatriene versus octatetraene. *Journal of Chemical Physics*, **2006**, 124, 034306	3.9	26
88	Excited state proton transfer in 3-methyl-7-azaindole dimer. Symmetry control. *Journal of Physical Chemistry A*, **2006**, 110, 9116-22	2.8	21
87	Excited-state proton phototransfer in the (3-methyl-7-azaindole)-(7-azaindole) heterodimer. *Chemical Physics Letters*, **2006**, 419, 164-167	2.5	14
86	The molecular symmetry and electronic spectroscopy of 7-azaindole dimer: its proton-transfer channels. *Journal of Chemical Physics*, **2005**, 123, 114302	3.9	31
85	Polarization of the T1->S0 phosphorescence and S0->Sn phosphorescence excitation of aromatic hydrocarbons prototype for □* states. A reappraisal. *Chemical Physics*, **2005**, 316, 253-259	2.3	5
84	Molecular structure distortions and the Mulliken□ieke rule: The case of t-stilbene. *Chemical Physics Letters*, **2005**, 416, 165-170	2.5	14
83	Electronic energy levels in all-trans long linear polyenes: the case of the 3,20-di(tert-butyl)-2,2,21,21-tetramethyl-all-trans-3,5,7,9,11,13,15,17,19-docosanonaen (ttbp9) conforming to Kasha's rule. *Chemistry - A European Journal*, **2005**, 11, 3915-20	4.8	14
82	Study of 7-azaindole in its first four singlet states. *Journal of Chemical Physics*, **2005**, 122, 244320	3.9	12
81	Empirical Treatment of the Inductive and Dispersive Components of Solute□Solvent Interactions: The Solvent Polarizability (SP) Scale. *European Journal of Organic Chemistry*, **2004**, 2004, 4694-4702	3.2	123
80	Analysis of mixed solvent effects on the properties of singlet oxygen (1□). *Chemical Physics*, **2004**, 300, 33-39	2.3	31
79	On the absorption and emission spectra for the purine chromophore in weakly perturbative environments. *Chemical Physics*, **2004**, 303, 205-218	2.3	9
78	First reported evidence that solvent polarity induces an <-> inversion in the indole chromophore. *Chemical Physics Letters*, **2003**, 368, 717-723	2.5	22

77	DFT study of ionization potentials for aza-substituted aromatic rings. *International Journal of Quantum Chemistry*, **2003**, 91, 432-437	2.1	21
76	Characterization of binary solvent mixtures: the water-acetonitrile mixture. *Organic and Biomolecular Chemistry*, **2003**, 1, 575-80	3.9	35
75	ON THE ABSORPTION SPECTRUM OF C60 IN THE VISIBLE SPECTRAL REGION. *Fullerenes Nanotubes and Carbon Nanostructures*, **2002**, 10, 171-180	1.8	3
74	The concerted mechanism of photo-induced biprotonic transfer in 7-azaindole dimers: a model for the secondary evolution of the classic C2h dimer and comparison of four mechanisms. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 5799-803	11.5	52
73	The concerted mechanism of photo-induced biprotonic transfer in 7-azaindole dimers: structure, quantum-theoretical analysis, and simultaneity principles. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 5793-8	11.5	51
72	Understanding the solvatochromism of 10-hydroxybenzo[h]quinoline. An appraisal of a polarity calibrator. *Chemical Physics*, **2001**, 270, 1-12	2.3	13
71	Characterization of binary solvent mixtures of DMSO with water and other cosolvents. *Journal of Organic Chemistry*, **2001**, 66, 5846-52	4.2	153
70	On the Origin of Nonvertical Triplet Excitation Transfer: The Relative Role of Double-Bond and Phenyl-Vinyl Torsions in the Stilbenes. *Journal of Physical Chemistry A*, **2001**, 105, 6273-6276	2.8	25
69	The singular coincidence of fluorescence spectra of the anionic and cationic species formed by the respective deprotonated and protonated pyridopyrrolo bases. *International Journal of Quantum Chemistry*, **2000**, 77, 118-127	2.1	37
68	Conformity of the 7-azaindole dimer cationic potential with photoionization/Coulomb-explosion MS observations and the concerted biprotonic transfer mechanism. *Chemical Physics Letters*, **2000**, 318, 629-636	2.5	47
67	Photophysics of 7-Azaindole, Its Doubly-H-Bonded Base-Pair, and Corresponding Proton-Transfer-Tautomer Dimeric Species, via Defining Experimental and Theoretical Results. *Journal of Physical Chemistry A*, **2000**, 104, 10812-10820	2.8	80
66	Medium-Controlled Aggregation of trans-Stilbene. *Journal of the American Chemical Society*, **2000**, 122, 2377-2378	16.4	39
65	Solvatochromism of fluorophores with an intramolecular hydrogen bond and their use as probes in biomolecular cavity sites. *International Journal of Quantum Chemistry*, **1999**, 72, 421-438	2.1	44
64	Extending the Solvent Acidiy Scale to Highly Acidic Organic Solvents: The Unique Photophysical Behaviour of 3,6-Diethyltetrazine. *European Journal of Organic Chemistry*, **1999**, 1999, 885-891	3.2	67
63	The Six-Membered Intramolecular Hydrogen Bond Position as a Switch for Inducing an Excited State Intramolecular Proton Transfer (ESIPT) in Esters of o-Hydroxynaphthoic Acids. *Journal of Physical Chemistry A*, **1999**, 103, 10921-10934	2.8	68
62	Correlation of Solvolysis Rates 50 Years Later. *Journal of Organic Chemistry*, **1999**, 64, 6512-6514	4.2	16
61	Gas-phase protolysis between a neutral Brønsted acid and a neutral Brønsted base?. *Chemical Physics Letters*, **1998**, 293, 511-514	2.5	13
60	On the first triplet state of benzotriazole-like ultraviolet stabilizers. *Chemical Physics Letters*, **1998**, 297, 549-552	2.5	3

59	On the TICT Mechanism of 9,9?-Biaryl Compounds. *European Journal of Organic Chemistry*, **1998**, 1998, 1697-1704	3.2	7
58	Inter-ring Torsional Modulation in Molecular Lasers. Ultraviolet Lasing via Amplified Spontaneous Emission Spectroscopy of Phenylimidazoles *Journal of Physical Chemistry A*, **1997**, 101, 5284-5291	2.8	28
57	Photophysical Study of Pyridoxal 5?-Phosphate and Its Schiff Base with n-Hexylamine. *Photochemistry and Photobiology*, **1997**, 66, 810-816	3.6	3
56	Spectroscopy of Amplified Spontaneous Emission Laser Spikes in Phenyloxazoles. Prototype Classes *Journal of Physical Chemistry A*, **1997**, 101, 3260-3272	2.8	44
55	Photophysics of the 2-(2?-hydroxyphenyl)perimidines: Photostability studies. *Journal of Luminescence*, **1997**, 75, 17-26	3.8	8
54	A Generalized Solvent Acidity Scale: The Solvatochromism of o-tert-Butylstilbazolium Betaine Dye and Its Homomorph o,o?-Di-tert-butylstilbazolium Betaine Dye. *Liebigs Annalen*, **1997**, 1997, 1941-1949		132
53	Importance of aromaticity on the relative stabilities of indazole annular tautomers: an ab initio study. *Journal of the Chemical Society Perkin Transactions II*, **1996**, 57-60		45
52	A Generalized Solvent Basicity Scale: The Solvatochromism of 5-Nitroindoline and Its Homomorph 1-Methyl-5-nitroindoline. *Liebigs Annalen*, **1996**, 1996, 1785-1794		159
51	Chemical physics of excitation dynamics via amplified spontaneous emission (ASE) laser spike spectroscopy in substituted phenyloxazoles. *Chemical Physics Letters*, **1996**, 263, 154-160	2.5	11
50	Toward the Photostability Mechanism of Intramolecular Hydrogen Bond Systems. 4. 3(5)-(1'-Hydroxy-2'-naphthyl)pyrazoles and 3(5)-(2'-Hydroxy-1'-naphthyl)pyrazoles. *Journal of Organic Chemistry*, **1995**, 60, 3427-3439	4.2	18
49	2-Arylperimidine derivatives. Part 1. Synthesis, NMR spectroscopy, X-ray crystal and molecular structures. *Journal of the Chemical Society Perkin Transactions II*, **1995**, 1389-1398		22
48	Calorimetric quantification of the hydrogen-bond acidity of solvents and its relationship with solvent polarity. *Journal of the Chemical Society Perkin Transactions II*, **1995**, 2301-2305		14
47	THE INFLUENCE OF MOLECULAR CONFORMATION ON THE STABILITY OF ULTRAVIOLET STABILIZERS TOWARD DIRECT AND DYE-SENSITIZED PHOTOIRRADIATION: THE CASE OF 2-(2'-HYDROXY-5'-METHYPHENYL)BENZOTRIAZOLE (TIN P). *Photochemistry and Photobiology*, **1995** , 61, 118-123	3.6	43
46	Progress towards a generalized solvent polarity scale: The solvatochromism of 2-(dimethylamino)-7-nitrofluorene and its homomorph 2-fluoro-7-nitrofluorene. *Liebigs Annalen*, **1995**, 1995, 241-252		173
45	Solvent dipolarity/polarizability (SPP) of alcoholic solvents. *Liebigs Annalen*, **1995**, 1995, 793-795		57
44	The Colors of C60 Solutions. *Angewandte Chemie International Edition in English*, **1995**, 34, 105-107		44
43	Acidity and Basicity of Indazole and its N-Methyl Derivatives in the Ground and in the Excited State. *The Journal of Physical Chemistry*, **1994**, 98, 10606-10612		59
42	Influence of Lone Pair Repulsion vs Resonance Energy on the Relative Stabilities of Molecular Structures: A Theoretical Approach to the Equilibrium between 1H- and 2H-Benzotriazole Tautomers. *Journal of Organic Chemistry*, **1994**, 59, 2799-2802	4.2	60

41	Fluorescence of fullerenes (C60 and C70). *Journal of the American Chemical Society*, **1993**, 115, 9249-9252	16.4	85
40	Toward the photostability mechanism of intramolecular hydrogen bond systems. The photophysics of 1'-hydroxy-2'-acetonaphthone. *Journal of the American Chemical Society*, **1993**, 115, 4321-4325	16.4	98
39	Structure of benzotriazole in the gas phase: a UV experimental study. *Journal of Organic Chemistry*, **1993**, 58, 5276-5277	4.2	37
38	Solvatochromism of Sterically Hindered Stilbazolium Betaines and Its Relationship to Reichardt's ET(30) Scale: The Problem of the Measurement of the Polarity vs the Acidity of Alcohols. *Chemische Berichte*, **1993**, 126, 2445-2448		12
37	Experimental (13C and 15N NMR spectroscopy) and theoretical (6-31G) study of the protonation of N-methylazoles and N-methylbenzazoles. *Magnetic Resonance in Chemistry*, **1993**, 31, 791-800	2.1	36
36	N-aminoazoles. Part 2. Basicity and protonation site of N-aminoazoles: an experimental (pKa, 13C and 15N NMR spectroscopy and crystallography) and theoretical study. *Journal of the Chemical Society Perkin Transactions II*, **1993**, 1687-1699		42
35	The role of the torsion of the phenyl moiety in the mechanism of stimulated ultraviolet light generation in 2-phenylbenzazoles. *Journal of Chemical Physics*, **1992**, 96, 2005-2016	3.9	49
34	Photophysical properties of some 2-(2'-hydroxyaryl)benzotriazoles: dramatic effect of an ortho-located bulky tert-butyl group. *Journal of the American Chemical Society*, **1992**, 114, 964-966	16.4	31
33	Towards a solvent acidity scale: the calorimetry of the N-methyl imidazole probe. *Journal of the Chemical Society Perkin Transactions II*, **1992**, 1181-1185		21
32	New ultraviolet stabilizers: 3- and 5-(2'-hydroxyphenyl)pyrazoles. *Journal of the American Chemical Society*, **1992**, 114, 5039-5048	16.4	118
31	Interaction of formamide with stilbazolium betaines: Steric effects in amides. *Journal of Physical Organic Chemistry*, **1992**, 5, 609-613	2.1	2
30	Effect of N-methylation on the conformation of 2-phenylbenzimidazole, 2-phenylindole and three related rotationally constrained indoles. *Magnetic Resonance in Chemistry*, **1992**, 30, 800-802	2.1	3
29	Analysis of the solvent effect on the photophysics properties of 6-propionyl-2-(dimethylamino)naphthalene (PRODAN). *Journal of Fluorescence*, **1991**, 1, 215-23	2.4	101
28	Effect of the replacement of a methyl by a trifluoromethyl group on the acid-base properties of pyrazoles. *Journal of Organic Chemistry*, **1991**, 56, 3942-3947	4.2	31
27	Thermodynamic basicity vs. kinetic basicity of diazoles (imidazoles and pyrazoles). *Journal of Organic Chemistry*, **1991**, 56, 179-183	4.2	28
26	Lone-pair charges and structural effects. *Journal of Physical Organic Chemistry*, **1990**, 3, 255-259	2.1	1
25	On the relationship between thermodynamic pKa's of azoles and the oxidation potentials of their pentacyanoferrate(II) complexes. *Canadian Journal of Chemistry*, **1990**, 68, 958-959	0.9	5
24	Photoinduced intramolecular proton transfer as the mechanism of ultraviolet stabilizers: a reappraisal. *Journal of the American Chemical Society*, **1990**, 112, 747-759	16.4	178

23	The structure of N-aminoazoles: an experimental (X-ray and 15N NMR) and theoretical study. *Journal of the Chemical Society Perkin Transactions II*, **1990**, 237-244		35
22	Toward a solvent basicity scale: the calorimetry of the pyrrole probe. *Journal of the American Chemical Society*, **1990**, 112, 1678-1681	16.4	62
21	The tautomerism of 1,2,3-triazole, 3(5)-methylpyrazole and their cations. *Journal of Computational Chemistry*, **1989**, 10, 426-433	3.5	44
20	Calorimetric study of the effect of N-methylation in azoles: Loss of an active centre of solvation. *Journal of Physical Organic Chemistry*, **1989**, 2, 646-652	2.1	9
19	An AB initio comparative study of the electronic properties of sulfonamides and amides. *Computational and Theoretical Chemistry*, **1989**, 184, 115-129		30
18	Experimental and theoretical study of the R3P+-X- bond. Case of betaines derived from N-iminophosphoranes and alkyl isocyanates. *Journal of the American Chemical Society*, **1989**, 111, 355-363	16.4	48
17	Tautomerism and aromaticity in 1,2,3-triazoles: the case of benzotriazole. *Journal of the American Chemical Society*, **1989**, 111, 7348-7353	16.4	104
16	Polarizability effects on the aqueous solution basicity of substituted pyridines. *Journal of Organic Chemistry*, **1988**, 53, 1137-1140	4.2	39
15	Basicity and acidity of azoles: the annelation effect in azoles. *Journal of the American Chemical Society*, **1988**, 110, 4105-4111	16.4	112
14	Basicity and Acidity of Azoles. *Advances in Heterocyclic Chemistry*, **1987**, 187-274	2.4	161
13	Electrostatic proximity effects in the relative basicities and acidities of pyrazole, imidazole, pyridazine, and pyrimidine. *Journal of the American Chemical Society*, **1986**, 108, 3237-3239	16.4	100
12	Basicity of azoles. VII. Basicity of C-aminopyrazoles in relation to tautomeric and protonation studies. *Journal of Heterocyclic Chemistry*, **1985**, 22, 997-1000	1.9	19
11	Basicity of azoles. IV. Empirical relationships between basicity and ionization potential for aromatic five membered rings containing nitrogen or oxygen. *Journal of Heterocyclic Chemistry*, **1984**, 21, 269-270	1.9	18
10	The Relative Basicities of Imidazole and Benzimidazole. *Angewandte Chemie International Edition in English*, **1983**, 22, 323-324		15
9	On the relative basicities of imidazole and benzimidazole. *Angewandte Chemie International Edition in English*, **1983**, 22, 411-418		1
8	Basicity of azoles. Part 2. Theoretical study of the basicity of methylpyrazoles and methylimidazoles. *Journal of the Chemical Society Perkin Transactions II*, **1983**, 1869-1874		33
7	Prediction of proton affinities and protonation sites using a multivariate linear correlation. *Journal of the Chemical Society Perkin Transactions II*, **1982**, 1409-1418		17
6	Intrinsic acidities of meta- and para-substituted phenols from calculated molecular properties. *Journal of the Chemical Society Perkin Transactions II*, **1979**, 1632-1636		9

5	Prediction of proton affinities and preferred protonation sites in benzene derivatives, from 1s orbital energies. *Journal of the Chemical Society Perkin Transactions II*, **1979**, 1627-1631		14
4	Theoretical study of the intramolecular hydrogen bonding in benzene derivatives. *Advances in Molecular Relaxation and Interaction Processes*, **1978**, 12, 265-287		22
3	Proton transfer in salicylic acid excited states. *Human Development*, **1976**, 8, 87-94		13
2	A theoretical study of the stereochemistry of the intramolecular hydrogen bond of salicylic acid. *Journal of Molecular Structure*, **1975**, 27, 59-65	3.4	30
1	Absorption to and emission from the excited electronic state 11Bu in long linear all-trans-polyenes: The case of ttbP9 and ttbP11. *Journal of Physical Organic Chemistry*,e4292	2.1	