Amnon Stanger

List of Publications by Year
in descending order

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70 papers	3,535 citations	186209 28 h-index	138417 58 g-index
73 all docs	73 docs citations	73 times ranked	2275 citing authors

#	Article	IF	Citations
1	Nucleus-Independent Chemical Shifts (NICS):Â Distance Dependence and Revised Criteria for Aromaticity and Antiaromaticity. Journal of Organic Chemistry, 2006, 71, 883-893.	1.7	636
2	Magnetic criteria of aromaticity. Chemical Society Reviews, 2015, 44, 6597-6615.	18.7	354
3	The NICSâ€XYâ€Scan: Identification of Local and Global Ring Currents in Multiâ€Ring Systems. Chemistry - A European Journal, 2014, 20, 5673-5688.	1.7	252
4	What isâ€¦ aromaticity: a critique of the concept of aromaticityâ€”can it really be defined?. Chemical Communications, 2009, , 1939.	2.2	186
5	Obtaining Relative Induced Ring Currents Quantitatively from NICS. Journal of Organic Chemistry, 2010, 75, 2281-2288.	1.7	146
6	Is the Mills Nixon effect real?. Journal of the American Chemical Society, 1991, 113, 8277-8280.	6.6	131
7	The Impact of Antiaromatic Subunits in [4n+2] Ï€-Systems: Bispentalenes with [4n+2] Ï€-Electron Perimeters and Antiaromatic Character. Journal of the American Chemical Society, 2015, 137, 7178-7188.	6.6	115
8	Novel route to carbon-silicon double bonds via a Peterson-type reaction. Organometallics, 1992, 11, 2326-2328.	1.1	102
9	Can Substituted Cyclopentadiene Become Aromatic or Antiaromatic?. Chemistry - A European Journal, 2006, 12, 2745-2751.	1.7	100
10	NICS â€“ Past and Present. European Journal of Organic Chemistry, 2020, 2020, 3120-3127.	1.2	85
11	Cyclopropenylcarbinol Derivatives as New Versatile Intermediates in Organic Synthesis: Application to the Formation of Enantiomerically Pure Alkylidenecyclopropane Derivatives. Chemistry - A European Journal, 2009, 15, 8449-8464.	1.7	67
12	Strain-Induced Bond Localization. The Heteroatom Case. Journal of the American Chemical Society, 1998, 120, 12034-12040.	6.6	64
13	Are carbenium ions stabilized or destabilized by .alpha.-silyl substitution? The solvolysis of 2-(trimethylsilyl)-2-adamantyl p-nitrobenzoate. Journal of the American Chemical Society, 1985, 107, 2806-2807.	6.6	61
14	En Route to Archimedene:â€‰ Total Synthesis of C3h-Symmetric [7]Phenylene. Organic Letters, 2003, 5, 549-552.	2.4	59
15	Enantio- and Diastereoselective Tandem Zn-Promoted Brook Rearrangement/Eneâ€"Allene Carbocyclization Reaction. Organic Letters, 2009, 11, 1853-1856.	2.4	57
16	The first demonstration of solvolytic generation of a simple silicenium ion (R3Si+). Access via 1,2-methyl migration. Journal of the American Chemical Society, 1987, 109, 272-273.	6.6	54
17	The origin of the symmetrical structure of benzene. Is the .sigma. or the .pi. frame responsible? An ab-initio study of the effect of HCC bond angle distortion. Journal of Organic Chemistry, 1988, 53, 4889-4890.	1.7	49
18	An Excursion from Normal to Inverted Cï£¿C Bonds Shows a Clear Demarcation between Covalent and Chargeâ€Shift Cï£¿C Bonds. ChemPhysChem, 2009, 10, 2658-2669.	1.0	46

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19	A Nickel-Anthracene Complex Having ?3 and ?4 Coordination in One Crystal. Angewandte Chemie International Edition in English, 1993, 32, 1475-1477.	4.4	42
20	The anomeric effect at silicon. Journal of Organometallic Chemistry, 1988, 346, 305-313.	0.8	40
21	Is the haptotropic rearrangement in bis(tributylphosphine)(anthracene)nickel inter- or intramolecular? Determination of the molecularity by a spin saturation transfer approach. Organometallics, 1991, 10, 2979-2982.	1.1	40
22	Synthesis and fluxional behavior of [bis(trialkylphosphine)nickelio]anthracene (alkyl = Et, Bu). Organometallics, 1992, 11, 317-320.	1.1	40
23	Reexamination of NICS_{Ï€,zz}: Height Dependence, Off-Center Values, and Integration. Journal of Physical Chemistry A, 2019, 123, 3922-3927.	1.1	40
24	The predictive power of aromaticity: quantitative correlation between aromaticity and ionization potentials and HOMOâ€“LUMO gaps in oligomers of benzene, pyrrole, furan, and thiophene. Physical Chemistry Chemical Physics, 2018, 20, 14808-14817.	1.3	38
25	The crystal structures of (R3P)2Ni-anthracene (R = Et, Bu). Journal of Organometallic Chemistry, 1992, 430, 235-243.	0.8	35
26	Strain induced bond localization in strained aromatic compounds with extended ? systems. Journal of Computational Chemistry, 2001, 22, 1377-1386.	1.5	34
27	.alpha.-Silicon-substituted vinyl cations. A theoretical ab initio investigation. Journal of Organic Chemistry, 1982, 47, 1462-1468.	1.7	32
28	Hexabromotricyclobutabenzene and Hexabromohexaradialene: Their Nickelâ€Mediated Oneâ€Pot Syntheses and Crystal Structure. Chemistry - A European Journal, 1997, 3, 208-211.	1.7	30
29	Structure, Deformation Electron Densities, Photoelectron Spectra, and Reactivity of 3,4-Dihydro-1H-cyclobuta[a]cyclopropa[d]benzene. Angewandte Chemie International Edition in English, 1989, 28, 206-208.	4.4	29
30	Double-Stranded Cycles:â€‰ Toward C84's Belt Region. Journal of Organic Chemistry, 2007, 72, 424-430.	1.7	29
31	Bimolecular substitution at carbon in neopentyl-like silylcarbinyl sulfonates. Journal of the American Chemical Society, 1982, 104, 6852-6854.	6.6	28
32	Syntheses of Syn and Anti Doublebent [5]Phenyleneâ€. Organic Letters, 2004, 6, 2249-2252.	2.4	26
33	Towards a Fully Conjugated, Doubleâ€Stranded Cycle: A Mass Spectrometric and Theoretical Study. Chemistry - A European Journal, 2008, 14, 1628-1637.	1.7	26
34	Concurrence between Current Density, Nucleus-Independent Chemical Shifts, and Aromatic Stabilization Energy: The Case of Isomeric [4]- and [5]Phenylenes. Journal of Organic Chemistry, 2013, 78, 7544-7553.	1.7	26
35	NICSâ€XYâ€Scan Predictions of Local, Semiâ€Global, and Global Ring Currents in Annulated Pentalene and sâ€Indacene Cores Compared to Firstâ€Principles Current Density Maps. ChemPhysChem, 2020, 21, 65-82.	1.0	26
36	NICSâ€”Nucleus-independent Chemical Shift. , 2021, , 99-154.		25

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37	The Different Aromatic Characters of Some Localized Benzene Derivatives. Journal of Physical Chemistry A, 2008, 112, 12849-12854.	1.1	24
38	Inter- vs. intramolecular rearrangement of a (Bu3)2 Ni moiety in its 9-alkyl and 9,10-dialkyl anthracene complexes. Limiting conditions and isomer stabilities. Journal of Organometallic Chemistry, 1996, 515, 183-191.	0.8	21
39	Evidence for metal induced bond localization in cyclobutabenzenes: The crystal and molecular structures of Î·6-Cr(CO)3 and Î·4-Fe(CO)3 complexes of cyclobutabenzene. Journal of Organometallic Chemistry, 1997, 542, 19-24.	0.8	20
40	Photoâ€“Thermal Haptotropism in Cyclopentadienylcobalt Complexes of Linear Phenylenes: Intercyclobutadiene Metal Migration. Angewandte Chemie - International Edition, 2009, 48, 9853-9857.	7.2	20
41	Nickel-Mediated Cyclobutabenzene Syntheses.trans-7,8-Dibromo- cyclobutabenzenes:1Their One-Pot Preparation, X-ray Structure, and Dielsâ^'Alder Reactions. Journal of Organic Chemistry, 1996, 61, 2549-2552.	1.7	18
42	The Competition for Electrons:â€‰ Aromatic Stabilization in a Six-Membered Ring vs Cyclobutadieneâ^'Iron Complex. The Molecular Structure of Tris(tricarbonylironcyclobutadieno)benzene. Journal of Organic Chemistry, 1998, 63, 247-253.	1.7	18
43	Evidence for Fully Conjugated Doubleâ€Stranded Cycles. Chemistry - A European Journal, 2011, 17, 12163-12174.	1.7	17
44	Interplay of Aromaticity and Antiaromaticity in N-Doped Nanographenes. Journal of Physical Chemistry A, 2020, 124, 695-703.	1.1	17
45	An MO-Based Identification of Charge-Shift Bonds. ChemPhysChem, 2012, 13, 2377-2381.	1.0	16
46	A one-pot method for the preparation of (R3P)2Ni0L complexes. Journal of Organometallic Chemistry, 1993, 458, 233-236.	0.8	14
47	Stereoselective Synthesis of Metalated Cyclobutyl Derivatives. Advanced Synthesis and Catalysis, 2009, 351, 1005-1008.	2.1	13
48	Tetraazaacenes Containing Four-Membered Rings in Different Oxidation States. Are They Aromatic? A Computational Study. Journal of Organic Chemistry, 2014, 79, 11644-11650.	1.7	13
49	The Planar Cyclooctatetraene Bridge in Bis-Metallic Macrocycles: Isolating or Conjugating?. Inorganic Chemistry, 2017, 56, 2287-2296.	1.9	13
50	Flat corannulene: when a transition state becomes a stable molecule. Chemical Science, 2020, 11, 13015-13025.	3.7	13
51	Crystal Structure of 1,2-Diphenyl-5,7-di-tert-butylspiro[2.5]octa-1,4,7-trien-6-one, a Possible Model for Diphenylvinylidenephenonium Ions. Journal of Organic Chemistry, 1999, 64, 4370-4375.	1.7	12
52	Substituent effect and multisite protonation in the fragmentation of alkyl benzoates. Journal of Mass Spectrometry, 2002, 37, 336-342.	0.7	12
53	Aromatic Stabilization Energy and Magnetic Properties in Fulvalenes: Is There a Connection Between These Two Aromaticity Indices?. Journal of Organic Chemistry, 2013, 78, 12374-12380.	1.7	12
54	Comment on â€œOrigin of the Nonplanarity of Tetrafluoro Cyclobutadiene, C4F4â€. Journal of Physical Chemistry A, 2007, 111, 5116-5118.	1.1	11

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55	Strained Aromatic Compounds: Are Ïƒ- and Ï€-Strains Additive? A Hybrid DFT Study of Dicyclobutano-, Dicyclobutadieno- and Di(1,3-methanocyclopentano)[2,2]paracyclophanes. European Journal of Organic Chemistry, 2003, 2003, 2709-2712.	1.2	10
56	A Simple and Intuitive Description of Câ€“H Bond Energies. European Journal of Organic Chemistry, 2007, 2007, 5717-5725.	1.2	10
57	Comment on â€œThe electron density vs. NICS scan: a new approach to assess aromaticity in molecules with different ring sizesâ€•by C. Foroutan-Nejad, S. Shahbazian and P. Rashidi-Ranjbar, Phys. Chem. Chem. Phys., 2010, 12, 12630: is there a connection between electron densities at the ring critical points and NICS?. Physical Chemistry Chemical Physics, 2011, 13, 12652.	1.3	10
58	The Sevenâ€Membered Ring in Bisâ€Azulenoâ€Naphthalene is Nonâ€Aromatic. European Journal of Organic Chemistry, 2019, 2019, 857-859.	1.2	10
59	Synthesis, Characterization, and Reactions of the New Seven-Membered Nickelacycle (2,2â€˜-Bipyridine)-6,7-dihydro-5H-dibenzo[c,e]nickelepine. Organometallics, 1996, 15, 2633-2639.	1.1	9
60	Synthesis and oxidation of â€˜non-annulatedâ€™ vitamin E-like compounds. Tetrahedron Letters, 2005, 46, 7845-7848.	0.7	9
61	Stereocontrol in nickel mediated syntheses of cyclobutabenzenes. The selective preparation of cis and trans derivatives of 7,8-dibromocyclobutabenzene. Tetrahedron, 1998, 54, 1207-1220.	1.0	8
62	Crystal Structure and Rotational Barrier of Octakis(bromomethyl)naphthalene. Journal of Organic Chemistry, 2003, 68, 637-640.	1.7	7
63	Is (benzene)Cr(CO)₃ really more aromatic than benzene?. Canadian Journal of Chemistry, 2017, 95, 263-270.	0.6	5
64	Propellanes. Part LXXXI. Why are tetrakis[organoboranediylbis(oxy)]cyclobutanes formed without a trace of the isomeric tetrakis-dioxabora[3.3.2]propellanes?. Helvetica Chimica Acta, 1985, 68, 1179-1185.	1.0	4
65	Solution and supersonic jet studies of the intramolecular exciplex of dinaphthyl propanes. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 143, 245-250.	2.0	4
66	Synthesis of Chiral Methylenecyclopropane Derivatives. Synlett, 2005, 2005, 2239-2241.	1.0	4
67	The Aromatic Character of Diindeno[2,1-b:2â€²,1â€²-h]biphenylene. Organic Letters, 2022, 24, 1243-1246.	2.4	4
68	Retro [2 + 2 + 2] Ring Opening in Tricyclobutabenzene Derivatives. Thermochemistry and Reaction Barriers. A Theoretical Hybrid Density Functional Study. Journal of Organic Chemistry, 2002, 67, 6382-6386.	1.7	3
69	1,2,3,4-Tetraethynylbenzene as a Template for Cobalt-Catalyzed Alkyne Cocyclizations: Synthesis of 2,3,8,9-Tetrakis(trimethylsilyl) Angular [3]Phenylene and Bent [5]Phenylene (Benzo[1â€²â€²,2â€²â€²:3,4;3â€²â€²,4â€²â€²:3â€²,4â€²]dicycloÂbuta[1,2-b:1â€²,2â€²-bâ€²]bisbiphenylene). Synlett, 2006, 2006, 2	1.0	1
70	Is the tetrakis[2.1.1]bicyclohexanoâ€cyclooctaâ€1,3,5,7â€tetraene a good model for the D₄hâ€1,3,5,7â€cyclooctatetraene?. Journal of Physical Organic Chemistry, 2019, 32, e3908.	0.9	0