Donald H Aue

List of Publications by Year
in descending order

57 papers	3,123 citations	159525 30 h-index	161767 54 g-index
76 all docs	76 docs citations	76 times ranked	2217 citing authors

#	Article	IF	Citations
1	Experimental and Computational Evidence for Gold Vinylidenes: Generation from Terminal Alkynes via a Bifurcation Pathway and Facile Câ€“H Insertions. Journal of the American Chemical Society, 2012, 134, 31-34.	6.6	315
2	Quantitative proton affinities, ionization potentials, and hydrogen affinities of alkylamines. Journal of the American Chemical Society, 1976, 98, 311-317.	6.6	275
3	A thermodynamic analysis of solvation effects on the basicities of alkylamines. An electrostatic analysis of substituent effects. Journal of the American Chemical Society, 1976, 98, 318-329.	6.6	238
4	Quantitative relative gas-phase basicities of alkylamines. Correlation with solution basicity. Journal of the American Chemical Society, 1972, 94, 4726-4728.	6.6	136
5	Quantitative evaluation of intramolecular strong hydrogen bonding in the gas phase. Journal of the American Chemical Society, 1973, 95, 2699-2701.	6.6	133
6	[3,3]-Sigmatropic Rearrangement versus Carbene Formation in Gold-Catalyzed Transformations of Alkynyl Aryl Sulfoxides: Mechanistic Studies and Expanded Reaction Scope. Journal of the American Chemical Society, 2013, 135, 8512-8524.	6.6	132
7	Stabilities of positive ions from equilibrium gas-phase basicity measurements. , 1979, , 1-51.		99
8	Synthesis of Activated Alkenylboronates from Acetylenic Esters by CuHâ€Catalyzed 1,2â€Addition/Transmetalation. Angewandte Chemie - International Edition, 2008, 47, 10183-10186.	7.2	95
9	Asymmetric Goldâ€Catalyzed Lactonizations in Water at Room Temperature. Angewandte Chemie - International Edition, 2014, 53, 10658-10662.	7.2	93
10	Goldâ€Catalyzed Cyclizations of cisâ€Enediynes: Insights into the Nature of Goldâ€“Aryne Interactions. Angewandte Chemie - International Edition, 2013, 52, 7795-7799.	7.2	92
11	Proton affinities and photoelectron spectra of three-membered-ring heterocycles. Journal of the American Chemical Society, 1980, 102, 5151-5157.	6.6	89
12	Regioselective reductions of Î²,Î²-disubstituted enones catalyzed by nonracemically ligated copper hydride. Tetrahedron, 2012, 68, 3410-3416.	1.0	64
13	Proton affinities, ionization potentials, and hydrogen affinities of nitrogen and oxygen bases. Hybridization effects. Journal of the American Chemical Society, 1975, 97, 4137-4139.	6.6	57
14	Heats of formation of C3H5+ ions. Allyl, vinyl, and cyclopropyl cations in gas-phase proton-transfer reactions. Journal of the American Chemical Society, 1976, 98, 6700-6702.	6.6	55
15	Equilibrium constants for gas-phase ionic reactions. Accurate determination of relative proton affinities. Journal of the American Chemical Society, 1971, 93, 4314-4315.	6.6	54
16	Photoelectron spectrum and gas-phase basicity of manxine. Evidence for a planar bridgehead nitrogen. Journal of the American Chemical Society, 1975, 97, 4136-4137.	6.6	54
17	Basicities of the 2-, 4-, 2,4-di-, and 2,6-disubstituted tert-butylpyridines in the gas phase and aqueous phase: steric effects in the solvation of tert-butyl-substituted pyridines and pyridinium cations. Journal of the American Chemical Society, 1984, 106, 4341-4348.	6.6	54
18	A Micellar Catalysis Strategy for Suzukiâ€“Miyaura Cross-Couplings of 2-Pyridyl MIDA Boronates: No Copper, in Water, Very Mild Conditions. ACS Catalysis, 2017, 7, 8331-8337.	5.5	52

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19	Stabilities of hydrocarbons and carbocations. 1. A comparison of augmented 6-31G, 6-311G, and correlation consistent basis sets. Journal of the American Chemical Society, 1992, 114, 1631-1640.	6.6	51
20	EvanPhos: a ligand for ppm level Pd-catalyzed Suzukiâ€“Miyaura couplings in either organic solvent or water. Green Chemistry, 2018, 20, 3436-3443.	4.6	51
21	Relationships between the thermodynamics of protonation in the gas and aqueous phase for 2-, 3-, and 4- substituted pyridines. Journal of the American Chemical Society, 1991, 113, 1770-1780.	6.6	46
22	A quantitative comparison of gas- and solution-phase basicities of substituted pyridines. Journal of the American Chemical Society, 1976, 98, 854-856.	6.6	43
23	Carbocations. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 487-508.	6.2	43
24	Peracid oxidation of imino ethers. Journal of Organic Chemistry, 1974, 39, 3855-3862.	1.7	42
25	Calculation of Electron Affinities of Polycyclic Aromatic Hydrocarbons and Solvation Energies of Their Radical Anion. Journal of Physical Chemistry A, 2006, 110, 12927-12946.	1.1	42
26	1,3-Dipolar additions to cyclopropenes and methylenecyclopropane. Journal of Organic Chemistry, 1979, 44, 1202-1207.	1.7	40
27	Gas-phase basicities of amides and imidates. Estimation of protomeric equilibrium constants by the basicity method in the gas phase. Journal of the American Chemical Society, 1979, 101, 1361-1368.	6.6	35
28	Synthesis and thermal rearrangements of 3-(2'-methylprop-1'-enylidene)tricyclo[3.2.1.02,4]oct-6-ene. Journal of the American Chemical Society, 1977, 99, 223-231.	6.6	33
29	Ab initio calculated gas-phase basicities of polynuclear aromatic hydrocarbons. International Journal of Mass Spectrometry, 2000, 201, 283-295.	0.7	33
30	Synthesis of 1-oxaspiro[2.2]pentanes. Rearrangement to cyclobutanones. Tetrahedron Letters, 1973, 14, 4799-4802.	0.7	32
31	C3H5+ isomers: evidence for the existence of long-lived allyl and 2-propenyl cations in the gas phase. Journal of the American Chemical Society, 1980, 102, 4830-4832.	6.6	32
32	Pyrolysis of 2-alkoxy-1-azetines. Journal of Organic Chemistry, 1975, 40, 1349-1351.	1.7	31
33	Synthesis, bromination, and photoelectron spectra of meso-bridgehead dienes. Journal of the American Chemical Society, 1986, 108, 5901-5908.	6.6	30
34	N₂Phos â€“ an easily made, highly effective ligand designed for ppm level Pd-catalyzed Suzukiâ€“Miyaura cross couplings in water. Chemical Science, 2020, 11, 5205-5212.	3.7	29
35	Synthesis and acid-catalyzed rearrangement of 3,3-dimethoxy-1,5-dimethyltetracyclo[3.2.0.02,7.04,6]heptane. Journal of the American Chemical Society, 1968, 90, 7271-7276.	6.6	28
36	The Photochemical Addition of Methyl Azidoformate to 2-Butyne. Journal of the American Chemical Society, 1966, 88, 2849-2850.	6.6	26

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37	Energy transfer in excited ionic species. Rates and mechanism of dimerization of protonated amines with their neutral bases. Journal of the American Chemical Society, 1978, 100, 3649-3658.	6.6	23
38	Photochemical synthesis and reactivity of strained polycyclic cyclobutenes. .DELTA.2(5)-Tricyclo[4.2.1.02,5]nonene. Journal of the American Chemical Society, 1973, 95, 2027-2028.	6.6	22
39	Microwave spectrum, molecular structure, and dipole moment of oxaspiro[2.2]pentane. Journal of the American Chemical Society, 1975, 97, 6638-6646.	6.6	21
40	An ab initio molecular orbital study on the Lewis acidity of TMS-Cl and TMS-CN toward an Î±,Î²-unsaturated aldehyde: Are these acid-base interactions important in organocuprate 1,4-additions to enones?. Tetrahedron Letters, 1996, 37, 8471-8474.	0.7	20
41	Mechanisms of ion-molecule reactions of propene and cyclopropane. Journal of the American Chemical Society, 1972, 94, 4255-4261.	6.6	19
42	On the measurement of gas-phase ion-molecule equilibrium constants in an ion cyclotron resonance spectrometer. International Journal of Mass Spectrometry and Ion Physics, 1977, 24, 83-105.	1.3	19
43	Synthesis and reactivity of 1-azaspiropentanes. Tetrahedron Letters, 1973, 14, 4795-4798.	0.7	18
44	Addition of p-toluenesulfonyl isocyanate to imino ethers. Isolation of a stable 1,4-dipolar intermediate. Journal of Organic Chemistry, 1975, 40, 2356-2359.	1.7	18
45	2,3-Dimethyl-7,7-dimethoxyquadricyclo-[2.2.1.0.2,603,5]heptane. Journal of the American Chemical Society, 1964, 86, 4211-4212.	6.6	16
46	Reactions of a highly strained propellane. Tetracyclo[4.2.1.12,5.O1,6]decane. Journal of Organic Chemistry, 1974, 39, 2315-2316.	1.7	16
47	Addition of dimethyl acetylenedicarboxylate to imino ethers. Trapping of a 1,4-dipolar intermediate. Journal of Organic Chemistry, 1975, 40, 2360-2365.	1.7	16
48	Addition of tert-butylcyanoketene to imino ethers. Steric effects on product formation. Journal of Organic Chemistry, 1975, 40, 2552-2554.	1.7	16
49	Peracid oxidation of imino ethers. Tetrahedron Letters, 1973, 14, 1807-1810.	0.7	13
50	Rearrangements in 1,3-dipolar additions to 3,3-dimethylcycloproprene. The effect of ring strain on the rate of 1,3-dipoLar addition.. Tetrahedron Letters, 1974, 15, 721-724.	0.7	12
51	Atroposelective Total Synthesis of the Fourfold ortho â€Substituted Naphthyltetrahydroisoquinoline Biaryl O , N â€Dimethylhamatine. Chemistry - A European Journal, 2019, 25, 14237-14245.	1.7	10
52	Additions to cyclobutenes: synthesis of 5-azabicyclo[2.1.0]pentanes, 2-azabicyclo[2.2.0]hexanes, and 1-azaspiro[3.3]heptanes. Tetrahedron Letters, 1973, 14, 3719-3722.	0.7	9
53	Reaction of 3,3-dimethyl- and 1,3,3-trimethylcyclopropene with t-butylcyanoketen. Formation of bicyclo[2,1,0]pentan-2-ones. Journal of the Chemical Society Chemical Communications, 1975, , 603.	2.0	7
54	Electron affinities of polynuclear aromatic hydrocarbons and negative-ion chemical-ionization sensitivities. International Journal of Mass Spectrometry, 2006, 255-256, 123-129.	0.7	7

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55	Reaction of 1-methylcyclopropene with ketens. A ready ene reaction and evidence for unstable enol and cyclopropanone intermediates. Journal of the Chemical Society Chemical Communications, 1975, , 604.	2.0	5
56	Addition of bis(trifluoromethyl)keten to 1,3,3-trimethylcyclopropene. Journal of the Chemical Society Chemical Communications, 1974, , 925.	2.0	4
57	The application of nitrene insertion reactions to the functionalization of tricyclo[3.3.0.02,6]octane. Tetrahedron Letters, 1967, 8, 2317-2319.	0.7	0