Kenneth B Wiberg

List of Publications by Citations

440 papers	26,764 citations	75 h-index	147 g-index
447 ext. papers	28,323 ext. citations	10 avg, IF	7.01 L-index

#	Paper	IF	Citations
440	Determining atom-centered monopoles from molecular electrostatic potentials. The need for high sampling density in formamide conformational analysis. *Journal of Computational Chemistry*, **1990**, 11, 361-373	3.5	3726
439	Solvent Effects. 5. Influence of Cavity Shape, Truncation of Electrostatics, and Electron Correlation on ab Initio Reaction Field Calculations. *The Journal of Physical Chemistry*, **1996**, 100, 16098-16104		1127
438	Solvent effects. 1. The mediation of electrostatic effects by solvents. *Journal of the American Chemical Society*, **1991**, 113, 4776-4782	16.4	880
437	Comparison of atomic charges derived via different procedures. *Journal of Computational Chemistry* , **1993**, 14, 1504-1518	3.5	569
436	The Deuterium Isotope Effect. *Chemical Reviews*, **1955**, 55, 713-743	68.1	537
435	Solvent effects. 3. Tautomeric equilibria of formamide and 2-pyridone in the gas phase and solution: an ab initio SCRF study. *Journal of the American Chemical Society*, **1992**, 114, 1645-1652	16.4	484
434	The Concept of Strain in Organic Chemistry. *Angewandte Chemie International Edition in English*, **1986**, 25, 312-322		461
433	Barriers to rotation adjacent to double bonds. 3. The carbon-oxygen barrier in formic acid, methyl formate, acetic acid, and methyl acetate. The origin of ester and amide resonance. *Journal of the American Chemical Society*, **1987**, 109, 5935-5943	16.4	400
432	Hartree–Fock second derivatives and electric field properties in a solvent reaction field: Theory and application. *Journal of Chemical Physics*, **1991**, 95, 8991-8998	3.9	342
431	Solvent effects. 2. Medium effect on the structure, energy, charge density, and vibrational frequencies of sulfamic acid. *Journal of the American Chemical Society*, **1992**, 114, 523-529	16.4	335
430	A Comparison of Model Chemistries. *Journal of the American Chemical Society*, **1995**, 117, 11299-11308	16.4	288
429	Amides. 3. Experimental and Theoretical Studies of the Effect of the Medium on the Rotational Barriers for N,N-Dimethylformamide and N,N-Dimethylacetamide. *Journal of the American Chemical Society*, **1995**, 117, 4261-4270	16.4	284
428	Theoretical analysis of hydrocarbon properties. 1. Bonds, structures, charge concentrations, and charge relaxations. *Journal of the American Chemical Society*, **1987**, 109, 985-1001	16.4	260
427	Theoretical analysis of hydrocarbon properties. 2. Additivity of group properties and the origin of strain energy. *Journal of the American Chemical Society*, **1987**, 109, 1001-1012	16.4	221
426	[1.1.1]Propellane. *Journal of the American Chemical Society*, **1982**, 104, 5239-5240	16.4	219
425	A time-dependent density functional theory study of the electronically excited states of formaldehyde, acetaldehyde and acetone. *Chemical Physics Letters*, **1998**, 297, 60-64	2.5	216
424	Resonance interactions in acyclic systems. 3. Formamide internal rotation revisited. Charge and energy redistribution along the C-N bond rotational pathway. *Journal of the American Chemical Society*, **1992**, 114, 831-840	16.4	211

423	Solvent Effects on 1,2-Dihaloethane Gauche/Trans Ratios. *The Journal of Physical Chemistry*, **1995**, 99, 9072-9079		210
422	A Scheme for Strain Energy Minimization. Application to the Cycloalkanes1. *Journal of the American Chemical Society*, **1965**, 87, 1070-1078	16.4	194
421	Bent Bonds in Organic Compounds. *Accounts of Chemical Research*, **1996**, 29, 229-234	24.3	189
420	Electronic Transition Energies: A Study of the Performance of a Large Range of Single Reference Density Functional and Wave Function Methods on Valence and Rydberg States Compared to Experiment. *Journal of Chemical Theory and Computation*, **2010**, 6, 370-83	6.4	181
419	Cavity Ring-Down Polarimetry (CRDP): A New Scheme for Probing Circular Birefringence and Circular Dichroism in the Gas Phase. *Journal of Physical Chemistry A*, **2000**, 104, 5959-5968	2.8	181
418	Small ring propellanes. *Chemical Reviews*, **1989**, 89, 975-983	68.1	181
417	Why Does Thioformamide Have a Larger Rotational Barrier Than Formamide?. *Journal of the American Chemical Society*, **1995**, 117, 2201-2209	16.4	178
416	Deoxygenation of alcohols employing water as the hydrogen atom source. *Journal of the American Chemical Society*, **2005**, 127, 12513-5	16.4	175
415	Mechanism of the oxidation of alcohols by oxoammonium cations. *Journal of Organic Chemistry*, **2007**, 72, 4504-9	4.2	170
414	Cyclopropene. V. Some Reactions of Cyclopropene1. *Journal of the American Chemical Society*, **1960**, 82, 6375-6380	16.4	169
413	Antiaromaticity in monocyclic conjugated carbon rings. *Chemical Reviews*, **2001**, 101, 1317-31	68.1	165
412	The Mechanisms of Permanganate Oxidation. IV. Hydroxylation of Olefins and Related Reactions. *Journal of the American Chemical Society*, **1957**, 79, 2822-2824	16.4	152
411	Basis set effects on calculated geometries: 6-311++G** vs. aug-cc-pVDZ. *Journal of Computational Chemistry*, **2004**, 25, 1342-6	3.5	149
410	Origin of the Gauche Effect in substituted ethanes and ethenes. *The Journal of Physical Chemistry*, **1990**, 94, 6956-6959		147
409	Thermochemical studies of carbonyl compounds. 5. Enthalpies of reduction of carbonyl groups. *Journal of the American Chemical Society*, **1991**, 113, 3447-3450	16.4	140
408	Rotational barriers. 2. Energies of alkane rotamers. An examination of gauche interactions. *Journal of the American Chemical Society*, **1988**, 110, 8029-8038	16.4	140
407	Electronically excited states of ethylene. *The Journal of Physical Chemistry*, **1992**, 96, 10756-10768		139
406	Heats of formation of C4H6 hydrocarbons. *Journal of the American Chemical Society*, **1968**, 90, 3395-3397	16.4	138

405	Properties of Some Condensed Aromatic Systems. *Journal of Organic Chemistry*, **1997**, 62, 5720-5727	4.2	134
404	Group equivalents for converting ab initio energies to enthalpies of formation. *Journal of Computational Chemistry*, **1984**, 5, 197-199	3.5	134
403	Das Konzept der Spannung in der Organischen Chemie. *Angewandte Chemie*, **1986**, 98, 312-322	3.6	130
402	Rotational barriers. 4. Dimethoxymethane. The anomeric effect revisited. *Journal of the American Chemical Society*, **1989**, 111, 4821-4828	16.4	128
401	Reactions of [1.1.1]propellane. *Journal of the American Chemical Society*, **1990**, 112, 2194-2216	16.4	125
400	CarbonCarbon Rotational Barriers in Butane, 1-Butene, and 1,3-Butadiene. *The Journal of Physical Chemistry*, **1996**, 100, 16162-16168		122
399	Cyclopropene. IV. The Infrared, Ultraviolet and N.m.r. Spectra of Cyclopropene and Some Related Compounds1. *Journal of the American Chemical Society*, **1961**, 83, 1226-1230	16.4	122
398	Lactones. 2. Enthalpies of hydrolysis, reduction, and formation of the C4-C13 monocyclic lactones. Strain energies and conformations. *Journal of the American Chemical Society*, **1991**, 113, 7697-7705	16.4	119
397	Barriers to rotation adjacent to double bonds. *Journal of the American Chemical Society*, **1985**, 107, 5035-5041	16.4	119
396	Substituent effects. 4. Nature of substituent effects at carbonyl groups. *Journal of the American Chemical Society*, **1992**, 114, 8644-8654	16.4	118
395	Conformational Studies in the Cyclohexane Series. 1. Experimental and Computational Investigation of Methyl, Ethyl, Isopropyl, and tert-Butylcyclohexanes. *Journal of Organic Chemistry*, **1999**, 64, 2085-2095	4.2	117
394	Polarographic reduction of the azines. *Journal of the American Chemical Society*, **1970**, 92, 7154-7160	16.4	114
393	Application of strain energy minimization to the dynamics of conformational changes. *Journal of the American Chemical Society*, **1972**, 94, 8426-8430	16.4	111
392	The Interaction of Carbonyl Groups with Substituents. *Accounts of Chemical Research*, **1999**, 32, 922-929	24.3	110
391	Stereoselectivity of cyclization of substituted 5-hexen-1-yllithiums: regiospecific and highly stereoselective insertion of an unactivated alkene into a carbon-lithium bond. *Journal of the American Chemical Society*, **1991**, 113, 5720-5727	16.4	109
390	Origin of the stability of carbon tetrafluoride: negative hyperconjugation reexamined. *Journal of the American Chemical Society*, **1993**, 115, 614-625	16.4	108
389	Solvent Effects on Methyl Transfer Reactions. 1. The Menshutkin Reaction. *Journal of the American Chemical Society*, **1999**, 121, 2139-2146	16.4	107
388	A vibrational study of cyclohexane and some of its isotopic derivatives-III. A vibrational analysis of cyclohexane, cyclohexane-d12, cyclohexane-1,1,4,4-d4 and cyclohexane-1,1,2,2,4,4,5,5-d8. *Spectrochimica Acta Part A: Molecular Spectroscopy*, **1973**, 29, 583-594		107

387	Conformational effects on optical rotation. 3-substituted 1-butenes. *Journal of the American Chemical Society*, **2003**, 125, 1888-96	16.4	105
386	Nature of substituent effects in nuclear magnetic resonance spectroscopy. 1. Factor analysis of carbon-13 chemical shifts in aliphatic halides. *Journal of Organic Chemistry*, **1980**, 45, 4936-4947	4.2	105
385	Oscillator Strength: How Does TDDFT Compare to EOM-CCSD?. *Journal of Chemical Theory and Computation*, **2011**, 7, 456-66	6.4	104
384	Microwave Spectrum, Structure, and Dipole Moment of Cyclopropene. *Journal of Chemical Physics*, **1959**, 30, 512-516	3.9	104
383	Inverted geometries at carbon. *Accounts of Chemical Research*, **1984**, 17, 379-386	24.3	103
382	A Comparison of the Electronic Transition Energies for Ethene, Isobutene, Formaldehyde, and Acetone Calculated Using RPA, TDDFT, and EOM-CCSD. Effect of Basis Sets. *Journal of Physical Chemistry A*, **2002**, 106, 4192-4199	2.8	102
381	Solvent effects on the thioamide rotational barrier: an experimental and theoretical study. *Journal of the American Chemical Society*, **2001**, 123, 2038-46	16.4	101
380	Assignment of the ~A state in bicyclobutane. The multiphoton ionization spectrum and calculations of transition energies. *Journal of the American Chemical Society*, **1991**, 113, 4782-4791	16.4	101
379	Nonresonant optical activity of isolated organic molecules. *Journal of Physical Chemistry A*, **2005**, 109, 11752-64	2.8	100
378	Some Observations on Allylic Oxidation1. *Journal of Organic Chemistry*, **1964**, 29, 3353-3361	4.2	94
377	Vibrational spectrum, structure, and energy of [1.1.1]propellane. *Journal of the American Chemical Society*, **1985**, 107, 7247-7257	16.4	91
376	An experimental and computational investigation of the enantioselective deprotonation of Boc-piperidine. *Journal of the American Chemical Society*, **2002**, 124, 1889-96	16.4	88
375	Strain energies of small ring propellanes. *Journal of the American Chemical Society*, **1983**, 105, 1227-1233	16.4	88
374	Rotational barriers in aldehydes and ketones coordinated to neutral Lewis acids. *Journal of the American Chemical Society*, **1988**, 110, 6642-6650	16.4	86
373	Ab initio calculation of molar volumes: Comparison with experiment and use in solvation models. *Journal of Computational Chemistry*, **1995**, 16, 385-394	3.5	83
372	Butadiene. 1. A normal coordinate analysis and infrared intensities. Structure of the second rotamer. *Journal of the American Chemical Society*, **1990**, 112, 1509-1519	16.4	83
371	The N.m.r. Spectra of Bicyclo [2.1.1]hexane Derivatives. *Journal of the American Chemical Society*, **1962**, 84, 1594-1597	16.4	83
370	Substituent effects on the acidity of weak acids. 2. Calculated gas-phase acidities of substituted benzoic acids. *Journal of Organic Chemistry*, **2002**, 67, 4787-94	4.2	82

369	Cavity ring-down polarimetry (CRDP): theoretical and experimental characterization. *Journal of the Optical Society of America B: Optical Physics*, **2002**, 19, 125	1.7	80
368	Azines. A theoretical study of .pi.-electron delocalization. *Journal of the American Chemical Society*, **1989**, 111, 4178-4190	16.4	80
367	Solvent effects. 4. Effect of solvent on the E/Z energy difference for methyl formate and methyl acetate. *Journal of the American Chemical Society*, **1993**, 115, 1078-1084	16.4	79
366	The Mechanisms of Hydrogen Peroxide Reactions. I. The Conversion of Benzonitrile to Benzamide. *Journal of the American Chemical Society*, **1953**, 75, 3961-3964	16.4	77
365	Solvent effects: 6. A comparison between gas phase and solution acidities. *Journal of Computational Chemistry*, **1996**, 17, 185-190	3.5	75
364	Structures, energies, and modes of interconversion of C4H7+ ions. *Journal of the American Chemical Society*, **1988**, 110, 7652-7659	16.4	74
363	The C7-C10 cycloalkanes revisited. *Journal of Organic Chemistry*, **2003**, 68, 9322-9	4.2	73
362	Resonance interactions in acyclic systems. 1. Energies and charge distributions in allyl anions and related compounds. *Journal of the American Chemical Society*, **1990**, 112, 61-72	16.4	73
361	A vibrational study of cyclohexane and some of its isotopic derivatives *Spectrochimica Acta Part A: Molecular Spectroscopy*, **1971**, 27, 1139-1151		73
360	Bicyclo [2.1.1.]hexane Derivatives1. *Journal of the American Chemical Society*, **1961**, 83, 3998-4006	16.4	73
359	Conformational studies in the cyclohexane series. 2. Phenylcyclohexane and 1-methyl-1-phenylcyclohexane. *Journal of Organic Chemistry*, **2000**, 65, 1181-7	4.2	72
358	Stabilization of Carbanions. 1. Origin of the Increased Acidity of Dimethyl Sulfide As Compared to Dimethyl Ether. *Journal of the American Chemical Society*, **1994**, 116, 10489-10497	16.4	72
357	Resonance interactions in acyclic systems. 5. Structures, charge distributions, and energies of some heterobutadiene rotamers. *Journal of the American Chemical Society*, **1992**, 114, 8654-8668	16.4	72
356	Acidity of (Z)- and (E)-methyl acetates: relationship to Meldrum's acid. *Journal of the American Chemical Society*, **1988**, 110, 1872-1874	16.4	72
355	Acid-catalyzed solvolyses of bicyclobutane derivatives. Stereochemistry of the cyclopropylcarbinyl-cyclopropylcarbinyl and related rearrangements. *Journal of the American Chemical Society*, **1970**, 92, 571-579	16.4	72
354	Comparison of density functional theory models' ability to reproduce experimental 13C-NMR shielding values. *Journal of Computational Chemistry*, **1999**, 20, 1299-1303	3.5	71
353	Lactones. 1. X-ray crystallographic studies of nonanolactone and tridecanolactone: nature of CH.cntdot..cntdot..cntdot.O nonbonded interactions. *Journal of the American Chemical Society*, **1991**, 113, 971-977	16.4	71
352	Comparison of different ab initio theoretical models for calculating isodesmic reaction energies for small ring and related compounds. *Journal of Computational Chemistry*, **1997**, 18, 108-114	3.5	70

351	Application of the Pople-Snatry-Segal complete neglect of differential overlap method to some hydrocarbons and their cations. *Journal of the American Chemical Society*, **1968**, 90, 59-63	16.4	66
350	The Mechanisms of Permanganate Oxidation. I. The Oxidation of Some Aromatic Aldehydes1. *Journal of the American Chemical Society*, **1955**, 77, 1786-1795	16.4	66
349	Bicyclo[2.2.0]hex-1(4)-ene. *Tetrahedron*, **1986**, 42, 1895-1902	2.4	65
348	Chiral diamines 4: a computational study of the enantioselective deprotonation of Boc-pyrrolidine with an alkyllithium in the presence of a chiral diamine. *Journal of the American Chemical Society*, **2001**, 123, 8231-8	16.4	63
347	Ab Initio CBS-QCI Calculations of the Inversion Mode of Ammonia. *Journal of Physical Chemistry A*, **1997**, 101, 3143-3151	2.8	62
346	Bicyclo[1.1.1]pentane1. *Journal of the American Chemical Society*, **1966**, 88, 4437-4441	16.4	62
345	Substituent effects on the acidity of weak acids. 1. Bicyclo[2.2.2]octane-1-carboxylic acids and bicyclo[1.1.1]pentane-1-carboxylic acids. *Journal of Organic Chemistry*, **2002**, 67, 1613-7	4.2	61
344	Resonance interactions in acyclic systems. 2. Y-Conjugated anions and cations. *Journal of the American Chemical Society*, **1990**, 112, 4177-4182	16.4	61
343	Structures and energies of the tricyclo[4.1.0.01,3]heptanes and the tetracyclo[4.2.1.02,905,9]nonanes. Extended group equivalents for converting ab initio energies to heats of formation. *Journal of Organic Chemistry*, **1985**, 50, 5285-5291	4.2	61
342	6-Substituted Bicyclo[3.1.1]heptanes1. *Journal of Organic Chemistry*, **1966**, 31, 2250-2254	4.2	61
341	Substituent effects. 5. Vinyl and ethynyl derivatives. An examination of the interaction of amino and hydroxy groups with carbon-carbon double and triple bonds. *Journal of the American Chemical Society*, **1993**, 115, 9234-9242	16.4	60
340	Charge redistribution in the molecular vibrations of acetylene, ethylene, ethane, methane, silane and the ammonium ion. Signs of the M-H bond moments. *The Journal of Physical Chemistry*, **1984**, 88, 586-593		60
339	Proton donor acidity controls selectivity in nonaromatic nitrogen heterocycle synthesis. *Science*, **2013**, 339, 678-82	33.3	59
338	Optical Activity of 1-Butene, Butane, and Related Hydrocarbons. *Journal of Physical Chemistry A*, **2004**, 108, 32-38	2.8	58
337	Thermochemistry of Carbonyl Reactions. 6. A Study of Hydration Equilibria. *Journal of the American Chemical Society*, **1994**, 116, 11067-11077	16.4	58
336	Electronic states of organic molecules. 3. Photoelectron spectra of cycloalkenes and methylenecycloalkanes. *Journal of the American Chemical Society*, **1976**, 98, 7179-7182	16.4	58
335	The Stereochemistry of the Chromic Acid Oxidation of Tertiary Hydrogens1. *Journal of the American Chemical Society*, **1961**, 83, 423-429	16.4	58
334	Conformational effects on optical rotation. 2-Substituted butanes. *Journal of Physical Chemistry A*, **2005**, 109, 3405-10	2.8	57

333	NMR Chemical Shifts. 3. A Comparison of Acetylene, Allene, and the Higher Cumulenes. *Journal of Organic Chemistry*, **1999**, 64, 6394-6400	4.2	57
332	Cyclopropene. I. The Reaction of 2-Bromocyclopropanecarboxylates with Potassium t-Butoxide. *Journal of the American Chemical Society*, **1957**, 79, 4994-4999	16.4	57
331	The Kinetics of the Chromic Acid Oxidation of Benzaldehyde. *Journal of the American Chemical Society*, **1958**, 80, 3022-3029	16.4	57
330	[1.1.1]Propellane: Reaction with free radicals. *Tetrahedron Letters*, **1986**, 27, 1553-1556	2	56
329	Rotational cooling in a supersonic expansion of ammonia. *Journal of Chemical Physics*, **1981**, 74, 6975-6976	3.9	56
328	The Mechanisms of Hydrogen Peroxide Reactions. II. A Comparison of the Reactivity of Hydroxyl Ion and Hydroperoxide Ion toward Benzonitrile. *Journal of the American Chemical Society*, **1955**, 77, 2519-2522	16.4	56
327	s-Tetrazine. II. Infrared Spectra. *Journal of Chemical Physics*, **1961**, 35, 1939-1945	3.9	55
326	The Nuclear Magnetic Resonance Spectra of Cyclopropane Derivatives. *Journal of the American Chemical Society*, **1963**, 85, 2788-2790	16.4	55
325	Ab Initio Study of the Stability of the Ylide-like Intermediate Methyleneoxonium in the Reaction between Singlet Methylene and Water. *Journal of the American Chemical Society*, **1996**, 118, 5408-5411	16.4	52
324	Enthalpies of formation of fused cyclobutane derivatives. *Journal of the American Chemical Society*, **1982**, 104, 5679-5686	16.4	52
323	Facile oxidation of primary amines to nitriles using an oxoammonium salt. *Organic Letters*, **2014**, 16, 6484-7	6.2	51
322	Lone Pairs in Carbonyl Compounds and Ethers. *Journal of Organic Chemistry*, **1994**, 59, 6817-6822	4.2	51
321	An experimental and computational study of the enantioselective lithiation of N-Boc-pyrrolidine using sparteine-like chiral diamines. *Journal of the American Chemical Society*, **2004**, 126, 15480-9	16.4	50
320	C□ and C□ Bonds:´Stability, Bond Dissociation Energies, and Resonance Stabilization. *Journal of Organic Chemistry*, **1998**, 63, 8668-8681	4.2	50
319	Origin of the Acidity of Enols and Carboxylic Acids. *Journal of the American Chemical Society*, **1996**, 118, 8291-8299	16.4	50
318	Butadiene. 2. Examination of the energetic preference for coplanarity of double bonds. Comparison of butadiene, acrolein, and vinylamine. *Journal of the American Chemical Society*, **1991**, 113, 2890-2898	16.4	50
317	Stereochemistry of the intramolecular enamine/enal (enone) cycloaddition reaction and subsequent transformations. *Journal of the American Chemical Society*, **1986**, 108, 8274-8277	16.4	50
316	Isotopic perturbation of resonance. Carbon-13 nuclear magnetic resonance of 2-deuterio-2-bicyclo[2.1.1]hexyl cation. *Journal of the American Chemical Society*, **1977**, 99, 8072-8073	16.4	50

315	Structures and charge distributions in alkoxide ions. *Journal of the American Chemical Society*, **1990**, 112, 3379-3385	16.4	49
314	Substituent effects. 1. Methyl derivatives. *Journal of the American Chemical Society*, **1990**, 112, 8765-8775	16.4	49
313	Tricyclo[4.2.2.22,5]dodeca-1,5-diene. *Journal of the American Chemical Society*, **1984**, 106, 2194-2200	16.4	49
312	The Deuterium Isotope Effect of Some Ionic Reactions of Benzaldehyde. *Journal of the American Chemical Society*, **1954**, 76, 5371-5375	16.4	49
311	s-Tetrazine. I. High-Resolution Vapor-Phase Study of the Visible n-[1] Vibronic Absorption Band Systems. *Journal of Chemical Physics*, **1961**, 35, 1925-1938	3.9	47
310	Conformational Studies in the Cyclohexane Series. 3. The Dihalocyclohexanes. *Journal of Organic Chemistry*, **1999**, 64, 6387-6393	4.2	46
309	Nuclear magnetic resonance spectra of cyclopropyl derivatives. *Journal of Organic Chemistry*, **1973**, 38, 378-381	4.2	46
308	Effect of Fluorine Substitution on the Energies of Small Ring Compounds. *Journal of the American Chemical Society*, **1998**, 120, 2932-2938	16.4	45
307	Bicyclo[1.1.1]pentane derivatives. *Journal of Organic Chemistry*, **1970**, 35, 369-373	4.2	45
306	Photooxidation of methylnaphthalenes. *Journal of Organic Chemistry*, **2005**, 70, 105-9	4.2	44
305	NMR Chemical Shifts. 1. The Role of Relative Atomic Orbital Phase in Determining the Sign of the Paramagnetic Terms: ClF, CH3F, CH3NH3+, FNH3+, and HC?CF. *Journal of Physical Chemistry A*, **1998**, 102, 8766-8773	2.8	44
304	Substituent Effects. 6. Heterosubstituted Allyl Radicals. Comparison with Substituted Allyl Cations and Anions. *Journal of the American Chemical Society*, **1995**, 117, 6535-6543	16.4	44
303	The Energy Components of the Anomeric Effect for 2-Methoxytetrahydropyran. An Experimental Comparison of the Gas Phase and Solutions. *Journal of the American Chemical Society*, **1994**, 116, 2197-2198	16.4	44
302	Chromic acid oxidation of isopropyl alcohol. Preoxidation equilibria. *Journal of the American Chemical Society*, **1969**, 91, 927-932	16.4	44
301	The Deuterium Isotope Effect in the Side Chain Halogenation of Toluene1. *Journal of the American Chemical Society*, **1958**, 80, 3033-3039	16.4	44
300	The Kinetics of the Permanganate Oxidation of Alkenes1. *Journal of the American Chemical Society*, **1966**, 88, 5827-5832	16.4	44
299	Sum-over-states calculation of the specific rotations of some substituted oxiranes, chloropropionitrile, ethane, and norbornenone. *Journal of Physical Chemistry A*, **2006**, 110, 13995-4002	2.8	43
298	Carbanions 2. Intramolecular Interactions in Carbanions Stabilized by Carbonyl, Cyano, Isocyano, and Nitro Groups. *Journal of Organic Chemistry*, **1995**, 60, 6327-6334	4.2	43

297	Permanganate oxidation of crotonic acid. Spectrometric detection of an intermediate. *Journal of the American Chemical Society*, **1973**, 95, 3034-3035	16.4	43
296	Ab Initio Study of the Solvent Effects on the Singlet−Triplet Gap of Nitrenium Ions and Carbenes. *Journal of Physical Chemistry A*, **1998**, 102, 2732-2738	2.8	42
295	Structures, bonding, and absorption spectra of amine-sulfur dioxide charge-transfer complexes. *Journal of the American Chemical Society*, **1992**, 114, 7527-7535	16.4	42
294	ETHYL BICYCLO[1.1.0]BUTANE-1-CARBOXYLATE1. *Journal of the American Chemical Society*, **1959**, 81, 5261-5262	16.4	42
293	Barriers to rotation adjacent to double bonds. 2. n-Propyl versus isopropyl groups. *Journal of the American Chemical Society*, **1986**, 108, 5817-22	16.4	41
292	.DELTA.1,4-Bicyclo[2.2.0]hexene. *Journal of the American Chemical Society*, **1971**, 93, 246-247	16.4	41
291	Optical rotatory dispersion of 2,3-hexadiene and 2,3-pentadiene. *Journal of Physical Chemistry A*, **2008**, 112, 2415-22	2.8	40
290	Formation and Reactions of Bicyclo[1.1.1]pentyl-1 Cations. *Journal of the American Chemical Society* , **1994**, 116, 11990-11998	16.4	40
289	The benzene ground state potential surface. V. Criteria for theoretical modeling of the B2u harmonic force field. *Journal of Chemical Physics*, **1990**, 92, 4115-4124	3.9	40
288	FTIR spectrum of benzene in a supersonic expansion. *Chemical Physics Letters*, **1984**, 103, 423-429	2.5	40
287	The PE spectrum of [1.1.1]propellane: evidence for a non-bonding MO?. *Journal of the American Chemical Society*, **1985**, 107, 7172-7174	16.4	40
286	Tricyclo[3.2.1.01.5]octane. 3,2,1-Propellane. *Journal of the American Chemical Society*, **1972**, 94, 7396-7401	16.4	40
285	Strained Small Ring Compounds: Bridgehead Substituted Bicyclo [2.1.1]hexanes. *Journal of the American Chemical Society*, **1963**, 85, 3188-3193	16.4	40
284	The Anomeric Effect: It's Complicated. *Journal of Organic Chemistry*, **2018**, 83, 5242-5255	4.2	39
283	Large solvation effect in the optical rotatory dispersion of norbornenone. *Angewandte Chemie - International Edition*, **2014**, 53, 1386-9	16.4	39
282	Electronic states of organic molecules. 6. Analysis of infrared intensities. The hybrid orbital rehybridization model. Charge distribution in molecules. *Journal of the American Chemical Society*, **1978**, 100, 723-732	16.4	39
281	The Photolysis of Diazomethyl t-Butyl Ketone. *Journal of the American Chemical Society*, **1954**, 76, 5367-5371	16.4	39
280	Atomic Charges. *Journal of Organic Chemistry*, **2018**, 83, 15463-15469	4.2	39

279	Methyl rotational barriers in amides and thioamides. *Journal of Organic Chemistry*, **2002**, 67, 826-30	4.2	38
278	Electronic states of organic molecules. I. Potential functions for the deformation of methane. *Journal of the American Chemical Society*, **1976**, 98, 1212-1218	16.4	38
277	Chromic acid oxidation of isopropyl alcohol. Oxidation steps. *Journal of the American Chemical Society*, **1969**, 91, 933-936	16.4	38
276	The Stereochemistry of the Wolff Rearrangement. *Journal of the American Chemical Society*, **1956**, 78, 1640-1645	16.4	38
275	Bicyclo[1.1.0]butane. *Tetrahedron Letters*, **1963**, 4, 2173-2175	2	38
274	Strain Energies of Small Ring Alkenes. *Israel Journal of Chemistry*, **1983**, 23, 85-92	3.4	37
273	1,2-Bridged cyclopropenes. *Journal of the American Chemical Society*, **1991**, 113, 7969-7979	16.4	36
272	On the Strain Energy in Cyclopropene and the Heat of Formation of the C3H3+ Ion. *Journal of the American Chemical Society*, **1962**, 84, 3980-3981	16.4	36
271	Substituent Effects. 7. Phenyl Derivatives. When Is a Fluorine a □Donor?. *Journal of Organic Chemistry*, **1998**, 63, 3722-3730	4.2	35
270	Infrared intensities: cyclohexane. A molecular force field and dipole moment derivatives. *Journal of the American Chemical Society*, **1985**, 107, 4860-4867	16.4	35
269	Effect of substituents on the electron densities in methane. .sigma. and .pi. Interactions in saturated systems. *Journal of the American Chemical Society*, **1980**, 102, 1229-1237	16.4	35
268	Kinetics and thermochemistry of the rearrangement of benzvalene to benzene. An energy sufficient but non-chemiluminescent reaction. *Tetrahedron Letters*, **1976**, 17, 4133-4136	2	35
267	Nuclear magnetic resonance spectra of endo-bicyclo[2.1.0]pentan-2-ol, cyclobutanol, and cis-1,3-dibromocyclobutane. *Journal of the American Chemical Society*, **1969**, 91, 5124-5130	16.4	35
266	Formation and Thermal Decomposition of Bicyclo[1.1.0]butane-2-exo-d11. *Journal of the American Chemical Society*, **1966**, 88, 5272-5275	16.4	35
265	The effects of conformation and solvation on optical rotation: substituted epoxides. *Chirality*, **2008**, 20, 357-69	2.1	34
264	A Transition State for the Enantioselective Deprotonation of N-Boc-Pyrrolidine with Isopropyllithium/(□)-Sparteine. *Angewandte Chemie - International Edition*, **2000**, 39, 2127-2129	16.4	34
263	Enthalpies of hydration of alkenes. 4. Formation of acyclic tert-alcohols. *Journal of Organic Chemistry*, **1991**, 56, 5108-5110	4.2	34
262	Enthalpy of the metal catalyzed isomerizations of quadricyclane and of tricyclo[4.1.0.02,7]heptane. *Journal of the American Chemical Society*, **1976**, 98, 5411-5412	16.4	34

261	Solvolysis of bicyclo[2.1.0]pentane-5-methyl and bicyclo[3.1.0(hexane-6-methyl tosylates. *Journal of the American Chemical Society*, **1968**, 90, 63-74	16.4	34
260	Comparison of CIS- and EOM-CCSD-calculated adiabatic excited-state structures. Changes in charge density on going to adiabatic excited states. *Journal of Physical Chemistry A*, **2005**, 109, 466-77	2.8	33
259	Solvent effects on methyl transfer reactions. 2. The reaction of amines with trimethylsulfonium salts. *Journal of the American Chemical Society*, **2001**, 123, 6092-7	16.4	33
258	Enthalpies of hydrogenation of heteroatom-substituted alkenes. *Journal of the American Chemical Society*, **1993**, 115, 10658-10664	16.4	33
257	Rotational barriers. *Computational and Theoretical Chemistry*, **1988**, 163, 1-17		33
256	Calorimetric determination of the conformational enthalpy and entropy of 2-phenyl-1,3-dioxane. Effectively free rotation of an equatorial 2-phenyl group. Conformational equilibriums in 2,2-disubstituted 1,3-dioxanes. *Journal of the American Chemical Society*, **1978**, 100, 2202-2209	16.4	33
255	1,3-Shifts. IV. The Kinetics of the Thermal Rearrangement of □-Phenethyl Chlorocarbonates1. *Journal of the American Chemical Society*, **1955**, 77, 2774-2778	16.4	33
254	Temperature Dependence of Optical Rotation: □-Pinene, □Pinene Pinane, Camphene, Camphor and Fenchone. *Journal of Physical Chemistry A*, **2004**, 108, 5559-5563	2.8	32
253	Structure, bonding and intramolecular interactions in tricyclo[4.2.2.22,5]dodeca-1,5-diene and related compounds. *Journal of the American Chemical Society*, **1984**, 106, 2200-2206	16.4	32
252	Electrophilic cleavage of cyclopropanes. Acetolysis of alkylcyclopropanes. *Journal of the American Chemical Society*, **1985**, 107, 988-995	16.4	32
251	Tricyclo[4.2.0.01,4]octane. *Journal of the American Chemical Society*, **1980**, 102, 7467-7475	16.4	32
250	Small Ring Bicyclo[n.m.0]alkanes. *Advances in Alicyclic Chemistry*, **1968**, 2, 185-254		32
249	Conformational Equilibration among 1,3-Dihalocyclobutanes1. *Journal of the American Chemical Society*, **1966**, 88, 4429-4433	16.4	32
248	1,3-Shifts. III. The Kinetics of the Thermal Rearrangement of Phenyl Benzanilimino Ethers1. *Journal of the American Chemical Society*, **1955**, 77, 2205-2209	16.4	32
247	NMR Chemical Shifts. 2. Interpretation of the Carbon Chemical Shifts in Monocyclic Aromatic Compounds and Carbenes. *Journal of Physical Chemistry A*, **1999**, 103, 21-27	2.8	31
246	The role of hydrogens in stabilizing organic ions. *Canadian Journal of Chemistry*, **1996**, 74, 892-900	0.9	31
245	Substituent effects on cyclobutyl and cyclopropylcarbinyl cations. *Journal of the American Chemical Society*, **1993**, 115, 10645-10652	16.4	31
244	Structures and energies of ions derived from bicyclo[1.1.1]pentane. *Journal of the American Chemical Society*, **1992**, 114, 5820-5828	16.4	31

243	Inverted tetrahedral geometry at a bridgehead carbon. X-ray crystal, molecular, and electronic structure of 8,8-dichlorotricyclo[3.2.1.01.5]octane (C8H10Cl2) at -40.deg.. *Journal of the American Chemical Society*, **1972**, 94, 7402-7406	16.4	31
242	The Mechanisms of Permanganate Oxidation. II. The Oxidation of Formate Ion. *Journal of the American Chemical Society*, **1956**, 78, 1214-1216	16.4	31
241	1,3-Shifts. V. The Intermolecular Nature of Some 1,3-Shifts. *Journal of the American Chemical Society*, **1957**, 79, 3160-3164	16.4	31
240	The Oxidation of Aromatic Aldehydes by Chromyl Acetate. *Journal of the American Chemical Society* , **1964**, 86, 2612-2619	16.4	31
239	Azines. Effect of basis set on calculated vibrational frequencies, infrared intensities and Raman intensities. *Journal of Molecular Structure*, **1990**, 224, 61-71	3.4	30
238	The infrared absorption spectrum of a supersonic expansion of methyl chloride. *Chemical Physics Letters*, **1983**, 96, 319-323	2.5	30
237	Low temperature 13C NMR magnetic resonance in solids 4. Cyclopropane, bicyclo[1.1.0]butane and [1.1.1] propellane. *Theoretica Chimica Acta*, **1985**, 68, 421-430		30
236	Ring Expansion and Contraction of a Two-Carbon Bridged Spiropentane. *Journal of Organic Chemistry*, **1998**, 63, 1390-1401	4.2	29
235	Correlation effects in EOM-CCSD for the excited states: evaluated by AIM localization index (LI) and delocalization index (DI). *Journal of Physical Chemistry A*, **2007**, 111, 3592-601	2.8	29
234	Chiroptical properties of 2-chloropropionitrile. *Journal of Physical Chemistry A*, **2005**, 109, 3448-53	2.8	29
233	The Role of Electrostatic Effects in Organic Chemistry. *Journal of Chemical Education*, **1996**, 73, 1089	2.4	29
232	Infrared intensities. The methyl halides. Effect of substituents on charge distributions. *Journal of the American Chemical Society*, **1979**, 101, 1718-1722	16.4	29
231	Substituent effects on the acidity of weak acids. 3. Phenols and benzyl alcohols. *Journal of Organic Chemistry*, **2003**, 68, 875-82	4.2	28
230	Effect of Fluorine Substitution on the Carbon Acidity of Methane, Methyl Isocyanide, Acetonitrile, Acetaldehyde, and Nitromethane. *Journal of Organic Chemistry*, **1998**, 63, 3937-3942	4.2	28
229	The benzene ground state potential surface. IV. Discrimination between multiple E1u force field solutions through infrared intensities. *Journal of Chemical Physics*, **1989**, 91, 2069-2080	3.9	28
228	Solvolysis of cis- and trans-fused bicyclo[4.2.0]octyl 7-tosylates. *Journal of the American Chemical Society*, **1970**, 92, 553-564	16.4	28
227	Distorted geometries about bridgehead carbons. *Tetrahedron Letters*, **1968**, 9, 5855-5857	2	28
226	Theoretical investigation of the rotational barrier in allyl and 1,1,3,3-tetramethylallyl ions. *Journal of the American Chemical Society*, **1993**, 115, 2220-2226	16.4	27

225	Lactones. 3. A comparison of the basicities of lactones and esters. *Journal of the American Chemical Society*, **1991**, 113, 7705-7709	16.4	27
224	The ab initio energy difference favoring the nonclassical over the classical structure of the bicyclo[2.1.1]hexyl cation. Comparison of calculated (IGLO) and experimental 13C chemical shifts. *Journal of the American Chemical Society*, **1988**, 110, 300-301	16.4	27
223	Direct Observation of Intermediates in the Chromic Acid Oxidation of Secondary Alcohols. *Journal of the American Chemical Society*, **1967**, 89, 455-457	16.4	27
222	1,3-Shifts. II. The Stereochemistry of the Rearrangement of □-Alkoxystyrenes1. *Journal of the American Chemical Society*, **1955**, 77, 1159-1163	16.4	27
221	Insights on the origin of the unusually large specific rotation of (1S,4S)-norbornenone. *Journal of Physical Chemistry A*, **2014**, 118, 4863-71	2.8	26
220	Solvation and structural effects on the stability of 10-X-2 ate-complexes: a computational study. *Journal of Organic Chemistry*, **2000**, 65, 2014-21	4.2	26
219	Origin of the Inversion of the Acidity Order for Haloacetic Acids on Going from the Gas Phase to Solution. *Journal of Physical Chemistry A*, **2000**, 104, 7625-7628	2.8	26
218	Heat of hydrogenation of a cis imine. An experimental and theoretical study. *Journal of the American Chemical Society*, **1993**, 115, 3527-3532	16.4	26
217	Solvent effects on the transition states for nucleophilic additions to substituted acetaldehydes. *Journal of the American Chemical Society*, **1992**, 114, 9226-9227	16.4	26
216	[2.1.1.]Propellane. Reaction of 1,4-diiodobicyclo[2.1.1]hexane with tert-butyllithium and with potassium atoms. *Journal of the American Chemical Society*, **1983**, 105, 3638-3641	16.4	26
215	Preparation and Diels-Alder reactions of the [n](1,4)naphthalenophanes. Isolation of a paddlane derivative containing the tricyclo[14.2.2.21,6]docosane ring system. *Journal of the American Chemical Society*, **1979**, 101, 6660-6666	16.4	26
214	Distorted geometries at carbon. *Tetrahedron*, **1974**, 30, 1573-1578	2.4	26
213	Observation of the XY- abstraction products in the ion-molecule reactions X- + RY .fwdarw. XY- + R: an alternative to the SN2 mechanism at suprathermal collision energies. *Journal of the American Chemical Society*, **1995**, 117, 1828-1832	16.4	25
212	Substituent effects. 3. A comparison of ethyl, vinyl, isopropyl, and cyclopropyl derivatives. *Journal of Organic Chemistry*, **1992**, 57, 5092-5101	4.2	25
211	Barriers to rotation adjacent to double bonds. 4. Effect of basis set on structures, and of electron correlation on relative energies. *Journal of Computational Chemistry*, **1988**, 9, 488-494	3.5	25
210	Preparation, structure, and reactions of an organometallic[2.2.1]propellane, the bis(triphenylphosphine)platinum complex of .DELTA.1,4-bicyclo[2.2.0]hexene. *Journal of the American Chemical Society*, **1974**, 96, 6531-6532	16.4	25
209	Mechanism of the ferricyanide oxidation of thiols. *Inorganic Chemistry*, **1968**, 7, 830-831	5.1	25
208	The reaction of 3-bromocyclobutane-1-methyl bromide with sodium : bicyclo[1. 1. 1]pentane. *Tetrahedron Letters*, **1964**, 5, 531-534	2	25

207	A tale of two carenes: intrinsic optical activity and large-amplitude nuclear displacement. *Journal of Physical Chemistry A*, **2012**, 116, 9516-33	2.8	24
206	19F NMR chemical shifts. 1. Aliphatic fluorides. *Journal of Organic Chemistry*, **2001**, 66, 2809-17	4.2	24
205	Chiral diamines. 1. Relative energies of (-)-sparteine conformers, interconversion barriers, and alkyllithium complexes. *Journal of Molecular Structure*, **2000**, 556, 239-244	3.4	24
204	Effect of carbon-halogen bonds on nuclear magnetic resonance chemical shifts. 2. Proton and carbon nuclear magnetic resonance spectra of cyclobutyl halides. *Journal of the American Chemical Society*, **1977**, 99, 4286-4289	16.4	23
203	Nature of the 2-bicyclo[2.1.1]hexyl cation. *Journal of the American Chemical Society*, **1973**, 95, 2045-2047	16.4	23
202	The Solvolytic Behavior of Tricyclo[3.2.1.02,4]octane Derivatives1. *Journal of Organic Chemistry*, **1965**, 30, 2278-2284	4.2	23
201	Comparative study of anionic and radical cyclization for the preparation of 1,3-dimethylindans: highly stereoselective preparation of cis-1,3-disubstituted indans via intramolecular carbolithiation. *Organic Letters*, **2002**, 4, 791-4	6.2	22
200	Resonance interactions in acyclic systems. 4. Stereochemistry, energetics, and electron distributions in 3-center-four-.pi.-electron systems A:BC. *Journal of the American Chemical Society*, **1992**, 114, 841-850	16.4	22
199	Tricyclo[4.2.2.22,5]dodeca-1,5-diene. *Journal of the American Chemical Society*, **1981**, 103, 1600-1602	16.4	22
198	Solvolytic reactivity of 1-chlorobicyclo[1.1.1]pentane. *Journal of the American Chemical Society*, **1967**, 89, 3373-3374	16.4	22
197	Towards the accurate and efficient calculation of optical rotatory dispersion using augmented minimal basis sets. *Chirality*, **2013**, 25, 606-16	2.1	21
196	Permanganate oxidation of alkenes. Substituent and solvent effects. Difficulties with MP2 calculations. *Journal of the American Chemical Society*, **2006**, 128, 11537-44	16.4	21
195	Formation of [1.1.1]propellane by nucleophilic attack on 1,3-diiodobicyclo[1.1.1]pentane. Unrearranged carbocation intermediates in the reaction of [1.1.1]propellane with electrophiles. *Journal of the American Chemical Society*, **1991**, 113, 8995-8996	16.4	21
194	Formation and reactions of 1-lithiobicyclo[1.1.1]pentane. *Tetrahedron Letters*, **1988**, 29, 289-292	2	21
193	Formation of bicyclo[2.2.0]hexane derivatives by the ring contraction of bicyclo[3.2.0]heptanones. *Journal of the American Chemical Society*, **1979**, 101, 7675-7679	16.4	21
192	Electrochemical reduction of 1,4-dibromobicyclo[2.2.2.]octane. Formation of the [2.2.2.] propellane. *Journal of the American Chemical Society*, **1974**, 96, 912-913	16.4	21
191	Reaction of 1,4-diiodonorbornane, 1,4-diiodobicyclo[2.2.2]octane, and 1,5-diiodobicyclo[3.2.1]octane with butyllithium. Convenient preparative routes to the [2.2.2]- and [3.2.1]propellanes. *Journal of the American Chemical Society*, **1977**, 99, 2297-2302	16.4	21
190	Electronic states of organic molecules. 6. Dipole and quadrupole moments: the sign of the dipole moment for cyclopropene and the microwave spectrum of 3,3-dimethylcyclopropene. *Journal of the American Chemical Society*, **1978**, 100, 7837-7840	16.4	21

189	The Stereochemical Relationship between 2-Butanol and Lactic Acid. *Journal of the American Chemical Society*, **1952**, 74, 3891-3892	16.4	21
188	NMR chemical shifts. Substituted acetylenes. *Journal of Organic Chemistry*, **2004**, 69, 1086-96	4.2	20
187	Chiral diamines. Part 3: Effect of ligand structure on the enantioselective deprotonation of N-Boc-pyrrolidine with i-PrLi: a computational comparison of (−)-sparteine and (S,S)-1,2-bis(N,N-dimethylamino)cyclohexane. *Tetrahedron Letters*, **2000**, 41, 9365-9368	2	20
186	Nonbonded interactions. 1. Anisotropic hydrogen-hydrogen interactions. *Journal of Computational Chemistry*, **1987**, 8, 1124-1130	3.5	20
185	A microprocessor-controlled system for precise measurement of temperature changes. Determination of the enthalpies of hydrolysis of some polyoxygenated hydrocarbons. *Journal of Chemical Thermodynamics*, **1979**, 11, 773-786	2.9	20
184	Enthalpies of acetolysis of tricyclo[3.2.1.01,5]octane ([3.2.1]propellane) and 1,3-dehydroadamantane. *Journal of the American Chemical Society*, **1979**, 101, 6970-6972	16.4	20
183	Intramolecular Nonbonded Attractive Interactions: 1-Substituted Propenes. *Journal of Chemical Theory and Computation*, **2009**, 5, 1033-7	6.4	19
182	Tricyclo[2.1.0.01,3]pentane. *Tetrahedron Letters*, **1987**, 28, 5411-5414	2	19
181	Enthalpies of hydration of alkenes. 1. The n-hexenes. *Journal of the American Chemical Society*, **1981**, 103, 6563-6566	16.4	19
180	The electrical nature of C?H bonds and its relationship to infrared intensities. *Journal of Computational Chemistry*, **1981**, 2, 53-57	3.5	19
179	Solvolysis of bicyclo[3.1.1]hept-6-yl tosylates. *Journal of the American Chemical Society*, **1967**, 89, 3015-3019	16.4	19
178	Substituent effects on O-H bond dissociation enthalpies: a computational study. *Journal of Physical Chemistry A*, **2013**, 117, 213-8	2.8	18
177	Substituent effects. 2. n-Butyl and tert-butyl derivatives. *Journal of Organic Chemistry*, **1991**, 56, 544-550	4.2	18
176	Enthalpies of hydration of alkenes. 2. The n-heptenes and n-pentenes. *The Journal of Physical Chemistry*, **1984**, 88, 3684-3688		18
175	Enthalpies of hydration of alkenes. 3. Cycloalkenes. *Journal of the American Chemical Society*, **1985**, 107, 6019-6022	16.4	18
174	Reactions of some bicycloalkyl iodides with bromine. *Journal of Organic Chemistry*, **1982**, 47, 2720-2722	4.2	18
173	A Convenient Synthesis of 1,4-Bicyclo[2.2.0]hexene. *Journal of Organic Chemistry*, **1974**, 39, 3803-3804	4.2	18
172	Electrochemical and metal-ammonia reduction of 1,4-dihalonorbornanes. *Journal of Organic Chemistry*, **1976**, 41, 2711-2714	4.2	18

171	Stoichiometry of the chromic acid oxidation of isopropyl alcohol as a function of time. Experimental test of the role of chromium(IV). *Journal of the American Chemical Society*, **1971**, 93, 2543-2544	16.4	18
170	Intrinsic optical activity and conformational flexibility: the role of size-dependent ring morphology in model cycloketones. *Journal of Physical Chemistry A*, **2013**, 117, 12382-400	2.8	17
169	Kinetics of the base-catalyzed permanganate oxidation of benzaldehyde. *Journal of Organic Chemistry*, **2000**, 65, 573-6	4.2	17
168	Origin of strain in bicyclo[1.1.1]pentane. *Tetrahedron Letters*, **1985**, 26, 599-602	2	17
167	Kinetics of the cerium(IV) oxidation of benzaldehyde. *Journal of the American Chemical Society*, **1969**, 91, 124-132	16.4	17
166	Transition metal catalyzed isomerization of substituted bicyclo[2.1.0] Pentanes. *Tetrahedron Letters* , **1973**, 14, 2727-2730	2	17
165	1,3-Shifts. VI. The Kinetics of the Rearrangement of □-Benzyloxystyrene. *Journal of the American Chemical Society*, **1963**, 85, 450-454	16.4	17
164	On the Mechanism of the Conversion of Cyclopropanecarboxyaldehyde Tosylhydrazone to Bicyclobutane1. *Journal of the American Chemical Society*, **1966**, 88, 365-366	16.4	17
163	On the Decarbonmonoxylation Reaction. *Journal of the American Chemical Society*, **1952**, 74, 3000-3001	16.4	17
162	Conformational preferences for 1,2- and 1,4-difluorocyclohexane. *Journal of Organic Chemistry*, **2005**, 70, 8381-4	4.2	16
161	A theoretical and experimental investigation of vicinal tricarbonyl systems and their hydrates. *Journal of Organic Chemistry*, **1993**, 58, 2830-2839	4.2	16
160	Infrared intensities: bicyclo[1.1.0]butane. A normal coordinate analysis and comparison with cyclopropane and [1.1.1]propellane. *Journal of the American Chemical Society*, **1990**, 112, 2184-2194	16.4	16
159	Solvolysis of bicyclo[4.2.0]octyl and bicyclo[3.2.0]heptyl 1-(3,5-dinitrobenzoates). *Journal of the American Chemical Society*, **1970**, 92, 544-553	16.4	16
158	A vibrational study of cyclohexane and some of its isotopic derivatives□. Raman and infrared spectra and assignments of cyclohexane-1,1,4,4-d4 and cyclohexane-1,1,2,2,4,4,5,5-d8. *Spectrochimica Acta Part A: Molecular Spectroscopy*, **1973**, 29, 567-581		16
157	The Acidity Function, H0, and Ion-pair Association Constants in Acetic Acid-Water Mixtures. *Journal of the American Chemical Society*, **1958**, 80, 3019-3022	16.4	16
156	The Kinetics of the Permanganate Oxidation of Acetone1. *Journal of the American Chemical Society*, **1965**, 87, 5202-5209	16.4	16
155	Thermal rearrangement of tricyclo[4.1.0.02,7]heptane. *Tetrahedron Letters*, **1968**, 9, 1235-1239	2	16
154	Disparate behavior of carbonyl and thiocarbonyl compounds: acyl chlorides vs thiocarbonyl chlorides and isocyanates vs isothiocyanates. *Journal of Organic Chemistry*, **2009**, 74, 3659-64	4.2	15

153	Chromic acid oxidation of isopropyl alcohol. Oxidation by chromium(IV). *Journal of the American Chemical Society*, **1974**, 96, 1884-1889	16.4	15
152	Electronic states of organic molecules. 2. Vibrational intensities for ethylene. *Journal of the American Chemical Society*, **1976**, 98, 5465-5469	16.4	15
151	Stereochemistry of the cyclopropylcarbinyl-cyclopropylcarbinyl rearrangement. *Journal of the American Chemical Society*, **1968**, 90, 4195-4196	16.4	15
150	Solvolysis of bicyclo[2.1.1]hexyl-5 and bicyclo[1.1.1]pentyl-2 derivatives. *Journal of the American Chemical Society*, **1970**, 92, 568-571	16.4	15
149	The Chromic Acid Oxidation of Aromatic Aldehydes. Some Observations Concerning the Oxidation by the Chromium Species of Intermediate Valence. *Journal of the American Chemical Society*, **1962**, 84, 2800-2807	16.4	15
148	Tricyclo[2.1.0.01,3]pentane. *Journal of the American Chemical Society*, **1993**, 115, 10653-10657	16.4	14
147	2-Substituted bicyclo[1.1.1]pentanes. *Journal of Organic Chemistry*, **1993**, 58, 1372-1376	4.2	14
146	[1.1.1]Propellane: Reaction with electron deficient alkenes and alkynes. *Tetrahedron Letters*, **1987**, 28, 151-154	2	14
145	Bonding in small ring paddlanes. *Tetrahedron Letters*, **1985**, 26, 5967-5970	2	14
144	Nature of substituent effects in nuclear magnetic resonance spectroscopy. 2. Factor analysis of carbon-13 chemical shifts in unsaturated and aromatic halides. *Journal of Organic Chemistry*, **1981**, 46, 4219-4225	4.2	14
143	Rydberg states of butadiene. *Journal of Chemical Physics*, **1977**, 66, 2224-2226	3.9	14
142	An O-18 Tracer Study of the "Wet" and "Dry" Prevost Reactions. *Journal of the American Chemical Society*, **1957**, 79, 6256-6261	16.4	14
141	PERSULFATE OXIDATION OF ISOPROPYL ALCOHOL. *Journal of the American Chemical Society*, **1959**, 81, 252-253	16.4	14
140	On the acetolysis of - and -bicyclo[2.1.1] - hexyl-5 tosylates. *Tetrahedron Letters*, **1963**, 4, 1273-1275	2	14
139	The Mechanisms of Permanganate Oxidation. Oxidation of Tertiary Hydrogens. *Journal of the American Chemical Society*, **1963**, 85, 3487-3491	16.4	14
138	Effect of substituents and conformations on the optical rotations of cyclic oxides and related compounds. relationship between the anomeric effect and optical rotation. *Journal of Organic Chemistry*, **2007**, 72, 6206-14	4.2	13
137	Synthesis, Reactions, and Structural Studies of Two-Carbon Bridged Spiropentanes. *Journal of Organic Chemistry*, **1998**, 63, 1402-1407	4.2	13
136	Infrared intensities: bicyclo[1.1.1]pentane. A normal-coordinate analysis and comparison with [1.1.1]propellane. *The Journal of Physical Chemistry*, **1992**, 96, 8293-8303		13

135	Barriers to rotation adjacent to double bonds. 5. Remote substituent effects on the syn/skew energy difference for 1-butene. *Journal of Organic Chemistry*, **1988**, 53, 783-785	4.2	13
134	Electrophilic cleavage of cyclopropanes. Acetolysis of bicyclo[2.1.0]pentane and bicyclo[3.1.0]hexane. *Journal of the American Chemical Society*, **1985**, 107, 996-1002	16.4	13
133	Chromic acid oxidation of cyclobutanol. *Journal of the American Chemical Society*, **1974**, 96, 6647-6651	16.4	13
132	Oxidation of aldehydes by chromium(VI) and by chromium(V) in 96% acetic acid. *Journal of the American Chemical Society*, **1974**, 96, 1889-1892	16.4	13
131	Solvolysis of trans-fused bicyclo[6.1.0]nonyl-2 derivatives. *Journal of the American Chemical Society*, **1971**, 93, 5193-5199	16.4	13
130	Total Synthesis of (−)-Phyllantidine: Development and Mechanistic Evaluation of a Ring Expansion for Installation of Embedded Nitrogen-Oxygen Bonds. *Angewandte Chemie - International Edition*, **2020**, 59, 9757-9766	16.4	12
129	Effect of Conjugation on Electron Distributions. Separation of □ and □ Terms. *Journal of Chemical Theory and Computation*, **2016**, 12, 1220-7	6.4	12
128	Conformational Composition of Gaseous trans-1,4-Dichlorocyclohexane. Molecular Structures and Energy Differences of the aa and ee Components from Gas-Phase Electron Diffraction and ab Initio Calculations. *Journal of Physical Chemistry A*, **1999**, 103, 7709-7714	2.8	12
127	Geometry of the transition state of the decarbonylation of bicyclo[2.2.1]hepta-2,5-dien-7-one. Experimental and ab initio theoretical studies. *Journal of the American Chemical Society*, **1988**, 110, 6631-6642	16.4	12
126	Bond bending and hybridization. *Computational and Theoretical Chemistry*, **1988**, 169, 355-365		12
125	Thermodynamics of hydrolysis of aliphatic ketals. An entropy component of steric effects. *Journal of the American Chemical Society*, **1979**, 101, 5512-5515	16.4	12
124	Solvolysis of bicyclo[2.1.0]-2-pentyl derivatives. *Journal of the American Chemical Society*, **1968**, 90, 5338-5339	16.4	12
123	Contrasting reactions of ketones and thioketones with alkyllithiums: a coordinated experimental and computational investigation. *Journal of the American Chemical Society*, **2012**, 134, 3199-207	16.4	11
122	Strain, Structure, Stability and Reactivity. *Foundations of Chemistry*, **2004**, 6, 65-80	0.7	11
121	Computational Study of 10-X-2 Ate Complexes Derived from Vinyllithiums and Vinyl Halides. *Organometallics*, **2001**, 20, 771-774	3.8	11
120	Stereochemistry of the Deamination of Spiropentylamine. *Journal of Organic Chemistry*, **1999**, 64, 7763-7767	4.2	11
119	Ceric ion equilibrium in aqueous acetic acid. *Inorganic Chemistry*, **1968**, 7, 369-373	5.1	11
118	Tricyclo[3.2.1.01,5]octane and 8-oxatricyclo[3.2.1.01,5]octane. Heat of formation, strain energy, and reactivity. *Journal of the American Chemical Society*, **1969**, 91, 3372-3373	16.4	11

117	Controlling the Conformational Energy of a Phenyl Group by Tuning the Strength of a Nonclassical CH□□O Hydrogen Bond: The Case of 5-Phenyl-1,3-dioxane. *Journal of Organic Chemistry*, **2016**, 81, 12116-12127	4.2	10
116	A computational study of RXHn X-H bond dissociation enthalpies. *Journal of Physical Chemistry A*, **2014**, 118, 2353-9	2.8	10
115	Accuracy of calculations of heats of reduction/hydrogenation: application to some small ring systems. *Journal of Organic Chemistry*, **2012**, 77, 10393-8	4.2	10
114	13C NMR chemical shifts of methyl cation and anion: A relationship between chemical shift and charge?. *Tetrahedron Letters*, **1997**, 38, 323-326	2	10
113	Thermal rearrangements of spiro[2.4]hepta-1,4,6-trienes. *Journal of Organic Chemistry*, **2002**, 67, 4436-40	4.2	10
112	Conformations of ethyl esters versus thiolesters. *Theoretical Chemistry Accounts*, **1999**, 102, 272-278	1.9	10
111	Deamination oftrans-2-Methyl- andtrans-2-Phenylcyclopropylamines. *Journal of Organic Chemistry*, **1999**, 64, 7756-7762	4.2	10
110	Kinetics of the thermolysis of [2.2.2]propellanes and related compounds. Mechanism of the thermolysis of bicyclo[2.2.0]hexanes. *Journal of the American Chemical Society*, **1990**, 112, 5854-5861	16.4	10
109	Stereochemistry of metalated aldimines. 2. A theoretical study of dimeric ion-pair aggregates of isomeric lithioacetaldimines and of their kinetically controlled reaction with formaldehyde. *Journal of Organic Chemistry*, **1991**, 56, 6625-6637	4.2	10
108	-Bicyclo[5.1.0]octane. *Tetrahedron Letters*, **1969**, 10, 519-522	2	10
107	Solvolysis of bicyclo[2.1.0]pentyl 2-(3,5-dinitrobenzoates). *Journal of the American Chemical Society*, **1970**, 92, 564-567	16.4	10
106	Electrochemical reduction of 1,3- and 1,4-dibromides: evidence for a two-step process. *Tetrahedron Letters*, **1974**, 15, 1119-1122	2	10
105	Some observations on the □ard reaction. *Tetrahedron Letters*, **1962**, 3, 345-348	2	10
104	The Deuterium Isotope Effect of the Methanolysis of Some Organometallic Compounds. *Journal of the American Chemical Society*, **1955**, 77, 5987-5990	16.4	10
103	The Role of CH□□O Coulombic Interactions in Determining Rotameric Conformations of Phenyl Substituted 1,3-Dioxanes and Tetrahydropyrans. *Journal of Organic Chemistry*, **2015**, 80, 7884-9	4.2	9
102	Electron Delocalization Range in Atoms and on Molecular Surfaces. *Journal of Chemical Theory and Computation*, **2016**, 12, 3185-94	6.4	9
101	Dipole-stabilized carbanions: a computational study of N-methylformamide anion and methyl N-methylcarbamate anion. *Journal of Organic Chemistry*, **2002**, 67, 5365-8	4.2	9
100	Rearrangements of Spiropentyl Cation. *Journal of Organic Chemistry*, **1999**, 64, 7768-7772	4.2	9

99	Bridged spiropentanes: Ring expansion. *Tetrahedron Letters*, **1995**, 36, 1171-1174	2	9
98	Thermochemical studies of carbonyl reactions. 4. Enthalpies of hydrolysis of norbornyl ketals. *Journal of Organic Chemistry*, **1990**, 55, 679-684	4.2	9
97	Electrophilic cleavage of cyclopropanes. Acetolysis of bicyclic and tricyclic cyclopropanes. *Journal of the American Chemical Society*, **1985**, 107, 1003-1007	16.4	9
96	Thermochemical studies of carbonyl reactions. 2. Steric effects in acetal and ketal hydrolysis. *Journal of the American Chemical Society*, **1981**, 103, 4473-4478	16.4	9
95	[2.2.1]Propellane. *Journal of the American Chemical Society*, **1982**, 104, 2056-2057	16.4	9
94	Acetolysis of Bridged Cyclobutylcarbinyl Tosylates1. *Journal of the American Chemical Society*, **1966**, 88, 4433-4436	16.4	9
93	Thallic ion oxidation of cyclohexanone. *Tetrahedron Letters*, **1966**, 7, 1779-1782	2	9
92	A comparison of some properties of C=O and C=S bonds. *Arkivoc*, **2011**, 2011, 45-56	0.9	9
91	The Thermal Rearrangement of Methyl Benzoate. *Journal of the American Chemical Society*, **1953**, 75, 2665-2666	16.4	9
90	Computational study of the properties and reactions of small molecules containing O, S, and Se. *Journal of Physical Chemistry A*, **2011**, 115, 12624-30	2.8	8
89	Internal hydrogen bonding in gaseous 3-aminoacrolein: an electron-diffraction investigation augmented by ab initio calculations of its molecular structure and conformational composition. *Journal of Molecular Structure*, **1998**, 445, 1-11	3.4	8
88	A Transition State for the Enantioselective Deprotonation of N-Boc-Pyrrolidine with Isopropyllithium/(−)-Sparteine. *Angewandte Chemie*, **2000**, 112, 2211-2213	3.6	8
87	Ring contraction of a two-carbon bridged spiropentane. *Tetrahedron Letters*, **1996**, 37, 8285-8288	2	8
86	Mechanism of the solvolysis of bicyclo[1.1.1]pent-1-yl derivatives. *Journal of Organic Chemistry*, **1993**, 58, 5603-5604	4.2	8
85	Predominant inversion of configuration in an intramolecular carbene addition to an alkene. *Journal of the American Chemical Society*, **1989**, 111, 8052-8053	16.4	8
84	Acidity of nitrous and nitric acids. *Inorganic Chemistry*, **1988**, 27, 3694-3697	5.1	8
83	Enthalpies of formation of cis- and trans-1,2-diethylcyclopropane and cis- and trans-bicyclo[6.1.0]nonane. Structural effects on energies of cyclopropane rings. *Journal of the American Chemical Society*, **1984**, 106, 1740-1744	16.4	8
82	Vibrational spectrum of bicyclo[1.1.1] pentane. *Spectrochimica Acta Part A: Molecular Spectroscopy*, **1975**, 31, 57-73		8

81	Electronic states of organic molecules. 4. Ultraviolet spectrum of bicyclobutane. *Journal of the American Chemical Society*, **1977**, 99, 3941-3946	16.4	8
80	The Thermal Decomposition of Deuterated Barium Butyrate. *Journal of the American Chemical Society*, **1952**, 74, 4381-4382	16.4	8
79	Dispersive Optical Activity of (R)-Methylene Norbornene: Intrinsic Response and Solvation Effects. *Journal of Physical Chemistry A*, **2017**, 121, 8251-8266	2.8	7
78	Intrinsic Optical Activity and Large-Amplitude Displacement: Conformational Flexibility in (R)-Glycidyl Methyl Ether. *Journal of Physical Chemistry A*, **2015**, 119, 8311-27	2.8	7
77	Butadiene and Heterodienes Revisited. *Journal of Organic Chemistry*, **2018**, 83, 8473-8482	4.2	7
76	Large Solvation Effect in the Optical Rotatory Dispersion of Norbornenone. *Angewandte Chemie*, **2014**, 126, 1410-1413	3.6	7
75	Application of the ONIOM method to enantioselective deprotonation in the presence of spartein. *Computational and Theoretical Chemistry*, **2006**, 775, 93-99		7
74	CyclobutanePhysical Properties and Theoretical Studies1-15		7
73	An optical mounting system for cavity ring-down polarimetry. *Review of Scientific Instruments*, **2002**, 73, 1340-1342	1.7	7
72	Charge density distribution in acrolein, butadiene and vinylamine unimportance of dipolar resonance structures in determining the ground state charge distribution. *Tetrahedron Letters*, **1989**, 30, 5981-5984	2	7
71	The ionization energies of bent and twisted double bonds. Part II. Tricyclo[4.2.2.22,5] Dodecadiene-1 (2),5 (6). *Journal of Electron Spectroscopy and Related Phenomena*, **1983**, 31, 369-381	1.7	7
70	Microwave spectra of endo- and exo-2-methylbicyclo[2.1.0]pentane. Methyl group polarity and the sign of the dipole moment in bicyclo[2.1.0]pentane. *Journal of Chemical Physics*, **1975**, 63, 3312-3316	3.9	7
69	The thermal dimer and ketene cycloadduct of .DELTA.1,4-bicyclo[2.2.0]hexene. *Journal of the American Chemical Society*, **1976**, 98, 3393-3395	16.4	7
68	Anomalously large long-range halogen hyperfine coupling in 4-halo-1-norbornyl radicals. *Journal of the American Chemical Society*, **1977**, 99, 268-269	16.4	7
67	Solvolysis of 2-(1-cyclobuten-1-yl)ethyl tosylate. *Journal of the American Chemical Society*, **1968**, 90, 6495-6500	16.4	7
66	cis- and trans-Bicyclo[6.1.0]nonan-2, 3 and 4 ones (1). *Tetrahedron Letters*, **1969**, 10, 59-62	2	7
65	Methoxymethane C-O Bond Strengths: Do Their Changes Result from Hyperconjugation or Polar Effects?. *Journal of Physical Chemistry A*, **2018**, 122, 6021-6025	2.8	6
64	Excited states and photochemistry of bicyclo[1.1.0]butane. *Journal of Physical Chemistry A*, **2009**, 113, 1686-95	2.8	6

63	Disparate behavior of ketones and thioketones on reaction with organolithiums. *Tetrahedron Letters*, **2011**, 52, 2169-2171	2	6
62	2,6-Diaziadamantane: a single-crystal X-ray diffraction study and theoretical calculations. *Journal of Organic Chemistry*, **2003**, 68, 2129-34	4.2	6
61	Substituent Effects on the Acidity of Weak Acids. 4. Anilinium Ions. *Collection of Czechoslovak Chemical Communications*, **2004**, 69, 2183-2192		6
60	.sigma. and .pi. Components of substituent effects in saturated systems. Monosubstituted methanes. *Journal of the American Chemical Society*, **1979**, 101, 2204-2205	16.4	6
59	Effect of .alpha. substitution on the solvolysis of bicyclo[3.1.1]heptyl-6 and bicyclo[3.2.0] heptyl-6 derivatives. *Journal of the American Chemical Society*, **1974**, 96, 3900-3905	16.4	6
58	Electronic states of organic molecules. 5. High-resolution spectrum of the ~A state of bicyclo[1.1.0]butane. *Journal of the American Chemical Society*, **1977**, 99, 3946-3951	16.4	6
57	Infrared intensities. Derivation of C?H bond moments from out-of-plane bending modes. *Chemical Physics Letters*, **1977**, 45, 180-182	2.5	6
56	Tricyclo[3.2.1.01,5]octane. *Tetrahedron Letters*, **1969**, 10, 317-319	2	6
55	Solvolysis of spiro[2.n]alkyl-4 dinitrobenzoates. *Tetrahedron Letters*, **1968**, 9, 3009-3012	2	6
54	Experimental Demonstration of a Sizeable Nonclassical CH□□G Hydrogen Bond in Cyclohexane Derivatives: Stabilization of an Axial Cyano Group. *Organic Letters*, **2017**, 19, 6408-6411	6.2	5
53	Conformational studies of 3-hexyne. *International Journal of Quantum Chemistry*, **2006**, 106, 3364-3370	2.1	5
52	Conformational energies for 2-substituted butanes. *Journal of Computational Chemistry*, **2004**, 25, 1127-32	3.5	5
51	Aromaticity and its chemical manifestations. *Theoretical and Computational Chemistry*, **1999**, 6, 519-536		5
50	High-resolution infrared analysis of the □17 band of pyridine. *International Journal of Quantum Chemistry*, **1991**, 39, 423-436	2.1	5
49	The reaction of a bridged spiropentane with Zeise's dimer, [PtCl2(C2H4)]2. *Tetrahedron Letters*, **1986**, 27, 3083-3086	2	5
48	Photochemical transformations of tricyclo[4.2.2.22,5]dodeca-1,5-diene. *Journal of Organic Chemistry*, **1985**, 50, 3393-3395	4.2	5
47	5-Substituted bicyclo[2.1.1]hexenes. *Journal of Organic Chemistry*, **1972**, 37, 3827-3834	4.2	5
46	Notes - Cyclopropene. II. The Pyrolysis of trans-2-Acetoxycyclopropanecarboxylates. *Journal of Organic Chemistry*, **1958**, 23, 299-300	4.2	5

45	Communications- On the Ring-Chain Tautomerism of □-Ketoglutaric Acids. *Journal of Organic Chemistry*, **1959**, 24, 578-579	4.2	5
44	The Synthesis and Resolution of Methylethylisobutylacetic Acid. *Journal of the American Chemical Society*, **1950**, 72, 2608-2610	16.4	5
43	Role of Intramolecular Electron Delocalization in the C-X Bond Strength in CHX (n = 0-4, X = F, Cl, CN, OCH). *Journal of Physical Chemistry A*, **2018**, 122, 7716-7722	2.8	5
42	Intrinsic linear interrelationships among physical and spectroscopic properties of halogen-containing molecules. *Journal of Organic Chemistry*, **1981**, 46, 4225-4230	4.2	4
41	Correlation between ionization potentials and MO energy levels. *Chemical Physics Letters*, **1976**, 41, 37-38	2.5	4
40	Intramolecular interactions in molecular mechanics calculations. *Computers & Chemistry*, **1977**, 1, 221-223		4
39	Vibrational spectrum of bicyclo [1.1.0] butane. *Spectrochimica Acta Part A: Molecular Spectroscopy*, **1977**, 33, 261-271		4
38	Orbital factors in cyclobutyl solvolyses. *Journal of the American Chemical Society*, **1968**, 90, 5324-5325	16.4	4
37	Solvolysis of 3-substituted cyclobutyl tosylates (1). *Tetrahedron Letters*, **1969**, 10, 4385-4388	2	4
36	Kinetics of the chromic acid oxidation of deoxybenzoin. *Journal of Organic Chemistry*, **1972**, 37, 3229-3235	4.2	4
35	Rate of acetolysis of bicyclo[2.1.0]Pentane. *Tetrahedron Letters*, **1973**, 14, 3169-3172	2	4
34	Acetolysis of exo-bicyclo[2.1.0]pentane-5-methyl tosylate; cyclopropylcarbinyl intermediates in solvolytic reactions. *Tetrahedron Letters*, **1965**, 6, 4245-4248	2	4
33	5-Substituted bicyclo[2.1.1]hexenes. *Tetrahedron Letters*, **1968**, 9, 3063-3066	2	4
32	Chirality Induced by the Interaction of C?C and C?X Bonds (X?CH, NH, NH, O, and S) Separated by a Methylene Group. *Journal of Physical Chemistry A*, **2016**, 120, 7771-7777	2.8	4
31	Effect of remote aryl substituents on the conformational equilibria of 2,2-diaryl-1,3-dioxanes: importance of electrostatic interactions. *Journal of Organic Chemistry*, **2015**, 80, 4108-15	4.2	3
30	Total Synthesis of (−)-Phyllantidine: Development and Mechanistic Evaluation of a Ring Expansion for Installation of Embedded Nitrogen-Oxygen Bonds. *Angewandte Chemie*, **2020**, 132, 9844-9853	3.6	3
29	The dimer of phenylpropiolyl chloride. *Tetrahedron Letters*, **2008**, 49, 2049-2051	2	3
28	Electronically Excited States of Methylenecycloalkanes. *Journal of Physical Chemistry A*, **2004**, 108, 9417-9422	2.8	3

27	Vibrational Analysis of the Ground States of Trifluoroacetyl Fluoride and Trifluoroacetyl Chloride. *Journal of Physical Chemistry A*, **2000**, 104, 370-379	2.8	3
26	Thermochemical studies of carbonyl compounds. 3. Enthalpies of hydrolysis of ortho esters. *Journal of Organic Chemistry*, **1985**, 50, 4717-4720	4.2	3
25	Application of factor analysis to the study of 13C nmr chemical shifts.. *Tetrahedron Letters*, **1978**, 19, 4861-4864	2	3
24	Oxymercuration-demercuration of 6-methylenebicyclo[3.1.1]heptane and 5-methylenebicyclo[2.1.1]hexane. *Journal of Organic Chemistry*, **1972**, 37, 3235-3239	4.2	3
23	Increase in Strain Energy during Conversion of [4.4.4.5]Fenestrane to [4.4.4.4]Fenestrane: a Method for Estimating the Heats of Formation of Hydrocarbons and Their Derivatives from Ab Initio Energies. *Journal of Organic Chemistry*, **2020**, 85, 4981-4987	4.2	2
22	Calculations for the properties and reactions of the NH, PH, and AsH counterparts of dimethyl ether and acetone. *Journal of Organic Chemistry*, **2014**, 79, 10849-54	4.2	2
21	Computational study of the enantioselective deprotonation of a cyclopropanecarboxamide with an alkyllithium in the presence of sparteine. *Journal of Organic Chemistry*, **2013**, 78, 1742-6	4.2	2
20	Reactions of perfluoro-1-chloro-2-trimethylsilylcyclobutene. *Tetrahedron Letters*, **1997**, 38, 1685-1688	2	2
19	Strained Hydrocarbons: Structures, Stability, and Reactivity **2005**, 717-740		2
18	Effect of halogen substituents on nmr chemical shifts. 13C spectra of bicyclic halides.. *Tetrahedron Letters*, **1978**, 19, 4865-4868	2	2
17	Unrecognized Intramolecular and Intermolecular Attractive Interactions between Fluorine-Containing Motifs and Ether, Carbonyl, and Amino Moieties. *Journal of Organic Chemistry*, **2019**, 84, 5783-5789	4.2	1
16	Rotamers of phenyl substituted 1,3-dioxanes and tetrahydropyrans: importance of CH?O Coulombic interactions. *Tetrahedron Letters*, **2015**, 56, 3438-3440	2	1
15	Reactions of adamantanethione with Grignard reagents: there is no evidence of addition to the CS carbon. *Tetrahedron Letters*, **2014**, 55, 4807-4809	2	1
14	My Study of Optical Activity - From the Distant Past to the Present with Stops in-Between. *ACS Symposium Series*, **2015**, 23-47	0.4	1
13	Correction to Accuracy of Calculations of Heats of Reduction/Hydrogenation: Application to Some Small Ring Systems. *Journal of Organic Chemistry*, **2013**, 78, 11628-11628	4.2	1
12	Chiroptical Properties of Imines Derived from R-(+)-Norbornenone: The Role of Electronegativity Differences. *Journal of Physical Chemistry A*, **2017**, 121, 8247-8250	2.8	1
11	Calorimetric data collection using computers. *Computers & Chemistry*, **1976**, 1, 61-64		1
10	Solvolysis of -cyclooct-2-enyl 3,5-dinitrobenzoates. *Tetrahedron Letters*, **1974**, 15, 1769-1771	2	1

9	Unsymmetrical allyl cations in the solvolysis of cycloalkenyl 3,5-dinitrobenzoates. *Tetrahedron Letters*, **1974**, 15, 1773-1776	2	1
8	Re-Examination of Some Carbocations. Structures, Energies, and Charge Distributions. *Journal of Organic Chemistry*, **2020**, 85, 11741-11749	4.2	1
7	Solvent effects: 6. A comparison between gas phase and solution acidities **1996**, 17, 185		1
6	Solvent effects: 6. A comparison between gas phase and solution acidities **1996**, 17, 185		1
5	Relationship between Rotational Barriers and Charge Shifts. *Journal of Organic Chemistry*, **2019**, 84, 10938-10945	4.2	0
4	Solvolysis of trans-fused bicyclo[6.1.0]nonyl-2 3,5-dinitrobenzoates. *Tetrahedron Letters*, **1970**, 11, 3759-3762	2	0
3	Halogen-Halogen Nonbonded Interactions. *ACS Omega*, **2021**, 6, 15199-15204	3.9	0
2	Structures, Energies and Spectra of Cyclopropanes1-26		
1	Mechanisms of Chromic Acid Oxidation. *Angewandte Chemie International Edition in English*, **1962**, 1, 220-220		