Peter Schreiner

List of Publications by Year
in descending order

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506 papers	23,657 citations	12330 69 h-index	13771 129 g-index
577 all docs	577 docs citations	577 times ranked	14567 citing authors

#	Article	IF	Citations
1	Metal-free organocatalysis through explicit hydrogen bonding interactions. Chemical Society Reviews, 2003, 32, 289.	38.1	1,173
2	(Thio)urea organocatalysisâ€"What can be learnt from anion recognition?. Chemical Society Reviews, 2009, 38, 1187.	38.1	998
3	London Dispersion in Molecular Chemistryâ€"Reconsidering Steric Effects. Angewandte Chemie - International Edition, 2015, 54, 12274-12296.	13.8	719
4	The Lipophilic Bullet Hits the Targets: Medicinal Chemistry of Adamantane Derivatives. Chemical Reviews, 2013, 113, 3516-3604.	47.7	517
5	H-Bonding Additives Act Like Lewis Acid Catalysts. Organic Letters, 2002, 4, 217-220.	4.6	425
6	Metal-Free, Noncovalent Catalysis of Dielsâ€"Alder Reactions by Neutral Hydrogen Bond Donors in Organic Solvents and in Water. Chemistry - A European Journal, 2003, 9, 407-414.	3.3	384
7	Selective Alkane Transformations via Radicals and Radical Cations:â€‰ Insights into the Activation Step from Experiment and Theory. Chemical Reviews, 2002, 102, 1551-1594.	47.7	379
8	Overcoming lability of extremely long alkane carbonâ€"carbon bonds through dispersion forces. Nature, 2011, 477, 308-311.	27.8	371
9	Diamonds are a Chemist's Best Friend: Diamondoid Chemistry Beyond Adamantane. Angewandte Chemie - International Edition, 2008, 47, 1022-1036.	13.8	364
10	Organocatalytic Enantioselective Acyl Transfer onto Racemic as well as meso Alcohols, Amines, and Thiols. Angewandte Chemie - International Edition, 2011, 50, 6012-6042.	13.8	342
11	Many Density Functional Theory Approaches Fail To Give Reliable Large Hydrocarbon Isomer Energy Differences. Organic Letters, 2006, 8, 3635-3638.	4.6	304
12	Methylhydroxycarbene: Tunneling Control of a Chemical Reaction. Science, 2011, 332, 1300-1303.	12.6	274
13	Capture of hydroxymethylene and its fast disappearance through tunnelling. Nature, 2008, 453, 906-909.	27.8	264
14	Consequences of Triplet Aromaticity in 4nÏ€-Electron Annulenes: Calculation of Magnetic Shieldings for Open-Shell Species. Angewandte Chemie - International Edition, 1998, 37, 1945-1948.	13.8	261
15	How Accurate Are DFT Treatments of Organic Energies?. Organic Letters, 2007, 9, 1851-1854.	4.6	260
16	Evolution of asymmetric organocatalysis: multi- and retrocatalysis. Green Chemistry, 2012, 14, 1821.	9.0	249
17	Monochromatic Electron Photoemission from Diamondoid Monolayers. Science, 2007, 316, 1460-1462.	12.6	248
18	Steric Crowding Can Stabilize a Labile Molecule: Solving the Hexaphenylethane Riddle. Angewandte Chemie - International Edition, 2011, 50, 12639-12642.	13.8	232

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19	(Thio)urea Organocatalyst Equilibrium Acidities in DMSO. Organic Letters, 2012, 14, 1724-1727.	4.6	226
20	Londonâ€™sche Dispersionswechselwirkungen in der MolekÃ¼lchemie â€“ eine Neubetrachtung sterischer Effekte. Angewandte Chemie, 2015, 127, 12446-12471.	2.0	197
21	Hydrogenâ€Bonding Thiourea Organocatalysts: The Privileged 3,5â€Bis(trifluoromethyl)phenyl Group. European Journal of Organic Chemistry, 2012, 2012, 5919-5927.	2.4	187
22	Monocyclic Enediynes:Â Relationships between Ring Sizes, Alkyne Carbon Distances, Cyclization Barriers, and Hydrogen Abstraction Reactions. Singletâ^'Triplet Separations of Methyl-Substitutedp-Benzynes. Journal of the American Chemical Society, 1998, 120, 4184-4190.	13.7	185
23	Stable Alkanes Containing Very Long Carbonâ€“Carbon Bonds. Journal of the American Chemical Society, 2012, 134, 13641-13650.	13.7	181
24	Relative Energy Computations with Approximate Density Functional Theoryâ€”A Caveat!. Angewandte Chemie - International Edition, 2007, 46, 4217-4219.	13.8	180
25	CH+5: The neverâ€ending story or the final word?. Journal of Chemical Physics, 1993, 99, 3716-3720.	3.0	177
26	Problematic Energy Differences between Cumulenes and Poly-ynes:â€‰ Does This Point to a Systematic Improvement of Density Functional Theory?. Journal of Physical Chemistry A, 2002, 106, 11923-11931.	2.5	176
27	Acid-free, organocatalytic acetalization. Tetrahedron, 2006, 62, 434-439.	1.9	161
28	Tunnelling control of chemical reactions â€“ the organic chemist's perspective. Organic and Biomolecular Chemistry, 2012, 10, 3781.	2.8	149
29	Tunneling Control of Chemical Reactions: The Third Reactivity Paradigm. Journal of the American Chemical Society, 2017, 139, 15276-15283.	13.7	144
30	Diamondoids: functionalization and subsequent applications of perfectly defined molecular cage hydrocarbons. New Journal of Chemistry, 2014, 38, 28-41.	2.8	142
31	Hydrophobic amplification of noncovalent organocatalysis. Chemical Communications, 2006, , 4315.	4.1	141
32	Cyclogallanes and Metalloaromaticity. Synthesis and Molecular Structure of Dipotassium Tris((2,6-dimesitylphenyl)cyclogallene), K2[(Mes2C6H3)Ga]3(Mes = 2,4,6-Me3C6H2):Â A Structural and Theoretical Examination. Organometallics, 1996, 15, 3798-3803.	2.3	139
33	Computational Chemistry: The Fate of Current Methods and Future Challenges. Angewandte Chemie - International Edition, 2018, 57, 4170-4176.	13.8	138
34	Carbene Rearrangements Unsurpassed:â€‰ Details of the C7H6 Potential Energy Surface Revealed. Journal of Organic Chemistry, 1996, 61, 7030-7039.	3.2	133
35	London Dispersion Enables the Shortest Intermolecular Hydrocarbon HÂ·Â·Â·H Contact. Journal of the American Chemical Society, 2017, 139, 7428-7431.	13.7	126
36	Can Fulvenes Form from Enediynes? A Systematic High-Level Computational Study on Parent and Benzannelated Enediyne and Enyneâ^'Allene Cyclizations. Journal of Physical Chemistry A, 2001, 105, 9265-9274.	2.5	125

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37	Computational Studies on the Cyclizations of Enediynes, Enyne-Allenes, and Related Polyunsaturated Systems. Accounts of Chemical Research, 2005, 38, 29-37.	15.6	119
38	Functionalized Nanodiamonds Part I. An Experimental Assessment of Diamantane and Computational Predictions for Higher Diamondoids. Chemistry - A European Journal, 2005, 11, 7091-7101.	3.3	113
39	Understanding the fundamentals of redox mediators in Liâ€“O₂ batteries: a case study on nitroxides. Physical Chemistry Chemical Physics, 2015, 17, 31769-31779.	2.8	111
40	Teaching the Right Reasons: Lessons from the Mistaken Origin of the Rotational Barrier in Ethane. Angewandte Chemie - International Edition, 2002, 41, 3579-3582.	13.8	108
41	Cooperative BrÃ¸nsted Acid-Type Organocatalysis:â€‰ Alcoholysis of Styrene Oxides. Organic Letters, 2008, 10, 1513-1516.	4.6	107
42	Myersâ€“Saito versus C2â€“C6(â€œSchmittelâ€) Cyclizations of Parent and Monocyclic Enyneâ€“Allenes:Â Challenges to Chemistry and Computation. Journal of the American Chemical Society, 1999, 121, 8615-8627.	13.7	105
43	Sizing the role of London dispersion in the dissociation of all-meta tert-butyl hexaphenylethane. Chemical Science, 2017, 8, 405-410.	7.4	104
44	Cooperative Thioureaâ€“BrÃ¸nsted Acid Organocatalysis: Enantioselective Cyanosilylation of Aldehydes with TMSCN. Journal of Organic Chemistry, 2011, 76, 9764-9776.	3.2	103
45	A Dual-Catalysis Anion-Binding Approach to the Kinetic Resolution of Amines: Insights into the Mechanism via a Combined Experimental and Computational Study. Journal of the American Chemical Society, 2015, 137, 5748-5758.	13.7	103
46	Enantioselective Kinetic Resolution of transâ€Cycloalkaneâ€1,2â€diols. Angewandte Chemie - International Edition, 2008, 47, 6180-6183.	13.8	91
47	Synthesis of Higher Diamondoids and Implications for Their Formation in Petroleum. Angewandte Chemie - International Edition, 2010, 49, 9881-9885.	13.8	90
48	Functionalized Nanodiamonds:Â Triamantane and [121]Tetramantaneâ€. Journal of Organic Chemistry, 2006, 71, 6709-6720.	3.2	88
49	Î³-Aminoadamantanecarboxylic Acids Through Direct Câ€“H Bond Amidations. European Journal of Organic Chemistry, 2007, 2007, 1474-1490.	2.4	87
50	A siliconâ€“carbonyl complex stable at room temperature. Nature Chemistry, 2020, 12, 608-614.	13.6	85
51	Carbonyl- and Carboxyl-Substituted Enediynes:Â Synthesis, Computations, and Thermal Reactivity. Journal of Organic Chemistry, 2001, 66, 1742-1746.	3.2	83
52	Band gap tuning in nanodiamonds: first principle computational studies. Molecular Physics, 2009, 107, 823-830.	1.7	83
53	Are Cyclogallenes [M2(GaH)3] (M = Li, Na, K) Aromatic?. Journal of the American Chemical Society, 1996, 118, 10635-10639.	13.7	81
54	Selective C-H Activation of Aliphatic Hydrocarbons under Phase-Transfer Conditions. Angewandte Chemie - International Edition, 1998, 37, 1895-1897.	13.8	80

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55	Aromaticity of the Bergman, Myersâ^'Saito, Schmittel, and Directly Related Cyclizations of Enediynes. Journal of Organic Chemistry, 2002, 67, 1453-1461.	3.2	80
56	Hybrid metalâ€“organic chalcogenide nanowires with electrically conductive inorganic core through diamondoid-directed assembly. Nature Materials, 2017, 16, 349-355.	27.5	79
57	Stereospecific Consecutive Epoxide Ring Expansion with Dimethylsulfoxonium Methylide. Journal of Organic Chemistry, 2010, 75, 6229-6235.	3.2	78
58	Ring Opening of Cyclopropylidene and Internal Rotation of Allene. The Journal of Physical Chemistry, 1996, 100, 16147-16154.	2.9	77
59	Conformations of Chiral Î±,Î²-Unsaturated Sulfoxides and Their Complexes with Lewis Acids. An ab Initio Study. Journal of the American Chemical Society, 1998, 120, 7952-7958.	13.7	77
60	Ab Initio Calculation of Optical Rotation in (P)-(+)-[4]Triangulane. Journal of the American Chemical Society, 2005, 127, 1368-1369.	13.7	75
61	Ïƒ/Ïƒ- and Ï€/Ï€-Interactions Are Equally Important: Multilayered Graphanes. Journal of the American Chemical Society, 2011, 133, 20036-20039.	13.7	75
62	London Dispersion Decisively Contributes to the Thermodynamic Stability of Bulky NHC-Coordinated Main Group Compounds. Journal of Chemical Theory and Computation, 2016, 12, 231-237.	5.3	74
63	The structure and stability of BH5. Does correlation make it a stable molecule? Qualitative changes at high levels of theory. Journal of Chemical Physics, 1994, 101, 7625-7632.	3.0	73
64	Heteroâ€Ï€â€Systeme, 9. Ãœber die Beziehungen zwischen Silaethenen und Methylsilylenen. Chemische Berichte, 1984, 117, 2369-2381.	0.2	72
65	A Valence Bond Study of the Bergman Cyclization: Geometric Features, Resonance Energy, and Nucleus-Independent Chemical Shift (NICS) Values. Chemistry - A European Journal, 2000, 6, 1446-1454.	3.3	72
66	Substituent effects on the Bergman cyclization of (Z)-1,5-hexadiyne-3-enes: a systematic computational study. Journal of Computational Chemistry, 2001, 22, 1605-1614.	3.3	71
67	Functionalized Nanodiamonds Part 3:â€‰ Thiolation of Tertiary/Bridgehead Alcohols. Organic Letters, 2006, 8, 1767-1770.	4.6	71
68	Evidence of Diamond Nanowires Formed inside Carbon Nanotubes from Diamantane Dicarboxylic Acid. Angewandte Chemie - International Edition, 2013, 52, 3717-3721.	13.8	71
69	Sterically controlled mechanochemistry under hydrostatic pressure. Nature, 2018, 554, 505-510.	27.8	71
70	Structural Analyses of Nâ€Acetylated 4â€(Dimethylamino)pyridine (DMAP) Salts. Chemistry - A European Journal, 2009, 15, 8548-8557.	3.3	70
71	Fluoride-Assisted Activation of Calcium Carbide: A Simple Method for the Ethynylation of Aldehydes and Ketones. Organic Letters, 2015, 17, 2808-2811.	4.6	70
72	Probing the Delicate Balance between Pauli Repulsion and London Dispersion with Triphenylmethyl Derivatives. Journal of the American Chemical Society, 2018, 140, 14421-14432.	13.7	70

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73	Electronic Effects on Atom Tunneling: Conformational Isomerization of Monomeric Para-Substituted Benzoic Acid Derivatives. Journal of the American Chemical Society, 2010, 132, 15902-15904.	13.7	69
74	Ureaâ€•and Thioureaâ€Catalyzed Aminolysis of Carbonates. ChemSusChem, 2016, 9, 2269-2272.	6.8	69
75	Vertical-Substrate MPCVD Epitaxial Nanodiamond Growth. Nano Letters, 2017, 17, 1489-1495.	9.1	68
76	Fulvenes from Enediynes: Regioselective Electrophilic Domino and Tandem Cyclizations of Enynes and Oligoynes. Angewandte Chemie - International Edition, 2003, 42, 5757-5760.	13.8	67
77	Heats of formation of platonic hydrocarbon cages by means of highâ€level thermochemical procedures. Journal of Computational Chemistry, 2016, 37, 49-58.	3.3	66
78	Cope Reaction Families:â€‰ To Be or Not to Be a Biradical. Organic Letters, 2004, 6, 2981-2984.	4.6	65
79	Hydroxy Derivatives of Diamantane, Triamantane, and [121]Tetramantane: Selective Preparation of Bisâ€Apical Derivatives. European Journal of Organic Chemistry, 2007, 2007, 4738-4745.	2.4	65
80	Crossed beams reaction of atomic carbon, C(3Pj), with d6-benzene, C6D6(Xâ€Š1A1g): Observation of the per-deutero-1,2-didehydro- cycloheptatrienyl radical, C7D5(Xâ€Š2B2). Journal of Chemical Physics, 1999, 110, 6091-6094.	3.0	64
81	Spectroscopic Identification of Dihydroxycarbene. Angewandte Chemie - International Edition, 2008, 47, 7071-7074.	13.8	64
82	Metal oxide-organic frameworks (MOOFs), a new series of coordination hybrids constructed from molybdenum(vi) oxide and bitopic 1,2,4-triazole linkers. Dalton Transactions, 2010, 39, 4223.	3.3	64
83	The First Enantiomerically Pure Triangulane (M)-Trispiro[2.0.0.2.1.1]nonane Is a Ïƒ-[4]Helicene. Angewandte Chemie - International Edition, 1999, 38, 3474-3477.	13.8	63
84	Electronic Stabilization of Ground State Triplet Carbenes. Journal of Organic Chemistry, 2007, 72, 9533-9540.	3.2	62
85	Siliconâ^'(Thio)urea Lewis Acid Catalysis. Journal of the American Chemical Society, 2011, 133, 7624-7627.	13.7	62
86	Intramolecular London Dispersion Interaction Effects on Gas-Phase and Solid-State Structures of Diamondoid Dimers. Journal of the American Chemical Society, 2017, 139, 16696-16707.	13.7	62
87	A Formal Carbonâ€“Sulfur Triple Bond: Hï£¿Cï£½Sï£¿Oï£¿H. Angewandte Chemie - International Edition, 2009, 48, 8133-8136.	13.8	61
88	H-Coupled Electron Transfer in Alkane Câ^'H Activations with Halogen Electrophiles. Journal of the American Chemical Society, 2002, 124, 10718-10727.	13.7	59
89	Cyclopropylhydroxycarbene. Journal of the American Chemical Society, 2011, 133, 13614-13621.	13.7	59
90	Rearrangements on the C6H6 Potential Energy Surface and the Topomerization of Benzene. Journal of the American Chemical Society, 1998, 120, 5741-5750.	13.7	58

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91	Oxidative Single-Electron Transfer Activation of Ïƒ-Bonds in Aliphatic Halogenation Reactions. Journal of the American Chemical Society, 2000, 122, 7317-7326.	13.7	58
92	Origin of the Monochromatic Photoemission Peak in Diamondoid Monolayers. Nano Letters, 2009, 9, 57-61.	9.1	58
93	The First Efficient Iodination of Unactivated Aliphatic Hydrocarbons. Angewandte Chemie - International Edition, 1999, 38, 2786-2788.	13.8	57
94	The Cyclization of Parent and Cyclic Hexa-1,3-dien-5-ynesâ€"A Combined Theoretical and Experimental Study. Chemistry - A European Journal, 2001, 7, 4386-4394.	3.3	57
95	Quantum Mechanical Tunneling Is Essential to Understanding Chemical Reactivity. Trends in Chemistry, 2020, 2, 980-989.	8.5	57
96	London Dispersion Interactions Rather than Steric Hindrance Determine the Enantioselectivity of the Coreyâ€"Bakshiâ€"Shibata Reduction. Angewandte Chemie - International Edition, 2021, 60, 4823-4832.	13.8	57
97	Quest for Silaketene:â€‰ A Matrix-Spectroscopic and Theoretical Study1. Organometallics, 1999, 18, 2155-2161.	2.3	55
98	Halogenation of Cubane under Phase-Transfer Conditions:â€‰ Single and Double Câ^'H-Bond Substitution with Conservation of the Cage Structure. Journal of the American Chemical Society, 2001, 123, 1842-1847.	13.7	55
99	The First Enantiomerically Pure [n]Triangulanes and Analogues: Ïƒ-[n]Helicenes with Remarkable Features. Chemistry - A European Journal, 2002, 8, 828-842.	3.3	55
100	Reactivity of [1(2,3)4]Pentamantane (Td-Pentamantane): A Nanoscale Model of Diamondâ€. Journal of Organic Chemistry, 2006, 71, 8532-8540.	3.2	55
101	Synthesis of Exclusively 4-Substituted Î²-Lactams through the Kinugasa Reaction Utilizing Calcium Carbide. Organic Letters, 2019, 21, 3746-3749.	4.6	55
102	Why the Classical and Nonclassical Norbornyl Cations Do Not Resemble the 2-endo- and 2-exo-Norbornyl Solvolysis Transition States1,â€. Journal of Organic Chemistry, 1997, 62, 4216-4228.	3.2	54
103	Selective Radical Reactions in Multiphase Systems: Phase-Transfer Halogenations of Alkanes. Chemistry - A European Journal, 2001, 7, 4996-5003.	3.3	54
104	Negative-electron-affinity diamondoid monolayers as high-brilliance source for ultrashort electron pulses. Chemical Physics Letters, 2010, 495, 102-108.	2.6	54
105	Energy Difference between the Classical and the Nonclassical 2-Norbornyl Cation in Solution. A Combined ab Initio-Monte Carlo Aqueous Solution Study. Journal of the American Chemical Society, 1995, 117, 2663-2664.	13.7	53
106	Intramolecular London Dispersion Interactions Do Not Cancel in Solution. Journal of the American Chemical Society, 2021, 143, 41-45.	13.7	53
107	Reactions of Silicon Atoms with Methane and Silane in Solid Argon: A Matrix-Spectroscopic Study. Chemistry - A European Journal, 2002, 8, 4383-4391.	3.3	52
108	Phenylhydroxycarbene. Journal of the American Chemical Society, 2010, 132, 7273-7275.	13.7	52

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109	The Enantioselective Dakinâ€“West Reaction. Angewandte Chemie - International Edition, 2016, 55, 2719-2723.	13.8	52
110	Experimental and Computational Studies of R3Alâ‹¯ERâ€˜3 (E = P, As, Sb, Bi; R = Et, t-Bu; Râ€˜ = SiMe3, i-Pr) Donorâ‹¯Acceptor Complexes:â€‰ Role of the Central Pnictine and the Substituents on the Structure and Stability of Alane Adducts. Organometallics, 2002, 21, 1408-1419.	2.3	51
111	Combined Computational and Experimental Studies of the Mechanism and Scope of the Retro-Nazarov Reaction. Journal of the American Chemical Society, 2004, 126, 10954-10957.	13.7	51
112	Electronic structure tuning of diamondoids through functionalization. Journal of Chemical Physics, 2013, 138, 024310.	3.0	51
113	Oneâ€Pot Desymmetrization of mesoâ€1,2â€Hydrocarbon Diols through Acylation and Oxidation. Chemistry - A European Journal, 2009, 15, 9647-9650.	3.3	50
114	Understanding the Torquoselectivity in 8Ï€-Electrocyclic Cascade Reactions: Synthesis of Fenestradienes versus Cyclooctatrienes. Journal of the American Chemical Society, 2009, 131, 13387-13398.	13.7	50
115	Oxygen-Doped Nanodiamonds: Synthesis and Functionalizations. Organic Letters, 2009, 11, 3068-3071.	4.6	50
116	Nanodiamonds in sugar rings: an experimental and theoretical investigation of cyclodextrinâ€“nanodiamond inclusion complexes. Organic and Biomolecular Chemistry, 2012, 10, 4524.	2.8	50
117	Synthesis of Substituted Adamantylzinc Reagents Using a Mg-Insertion in the Presence of ZnCl₂ and Further Functionalizations. Organic Letters, 2014, 16, 2418-2421.	4.6	50
118	Cyanocarbene, Isocyanocarbene, and Azacyclopropenylidene: A Matrix-Spectroscopic Study. Chemistry - A European Journal, 1998, 4, 1957-1963.	3.3	49
119	Selective alkane C?H-bond functionalizations utilizing oxidative single-electron transfer and organocatalysis. Chemical Record, 2004, 3, 247-257.	5.8	49
120	An Interrupted [4+3] Cycloaddition Reaction: A Hydride Shift (Ene Reaction) Intervenes. Angewandte Chemie - International Edition, 2008, 47, 8696-8699.	13.8	49
121	Heuristic thinking makes a chemist smart. Chemical Society Reviews, 2010, 39, 1503-1512.	38.1	49
122	Cyclic enediynes: relationship between ring size, alkyne carbon distance, and cyclization barrier. Chemical Communications, 1998, , 483-484.	4.1	48
123	Kinetic resolution of trans-cycloalkane-1,2-diols via Steglich esterification. Chemical Communications, 2010, 46, 2689.	4.1	48
124	Light- and Heavy-Atom Tunneling in Rearrangement Reactions of Cyclopropylcarbenes. Organic Letters, 2011, 13, 3526-3529.	4.6	48
125	The Naphthylcarbene Potential Energy Hypersurface. Journal of the American Chemical Society, 1997, 119, 1370-1377.	13.7	47
126	Pseudotetrahedral Polyhaloadamantanes as Chirality Probes:Â Synthesis, Separation, and Absolute Configuration. Journal of the American Chemical Society, 2002, 124, 13348-13349.	13.7	47

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127	Near-Edge X-ray Absorption Fine Structure Spectroscopy of Diamondoid Thiol Monolayers on Gold. Journal of the American Chemical Society, 2008, 130, 10536-10544.	13.7	47
128	Lipophilic Oligopeptides for Chemo- and Enantioselective Acyl Transfer Reactions onto Alcohols. Journal of Organic Chemistry, 2013, 78, 8465-8484.	3.2	47
129	Mechanisms of electrophilic substitutions of aliphatic hydrocarbons: methane + nitrosonium cation. Journal of the American Chemical Society, 1993, 115, 9659-9666.	13.7	46
130	Domino Tunneling. Journal of the American Chemical Society, 2015, 137, 7828-7834.	13.7	46
131	Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers. Nano Letters, 2016, 16, 212-217.	9.1	46
132	Preparation and Characterization of Parent Phenylphosphinidene and Its Oxidation to Phenyldioxophosphorane: The Elusive Phosphorus Analogue of Nitrobenzene. Journal of the American Chemical Society, 2017, 139, 5019-5022.	13.7	46
133	Hostâ€“Guest Complexes of Cyclodextrins and Nanodiamonds as a Strong Nonâ€Covalent Binding Motif for Selfâ€Assembled Nanomaterials. Chemistry - A European Journal, 2017, 23, 16059-16065.	3.3	45
134	Molecular structures, vibrational spectra and rotational barriers of C2H6, Si2H6, SiGeH6, and Ge2H6â€”experiment andtheory in harmony. Chemical Physics Letters, 1997, 264, 441-448.	2.6	44
135	The reaction of benzene with a ground state carbon atom, C(3Pj). Journal of Chemical Physics, 2000, 113, 4250-4264.	3.0	44
136	Tetrahedraneâ€”Dossier of an Unknown. Chemistry - A European Journal, 2006, 12, 7411-7420.	3.3	44
137	Template Synthesis of Linearâ€Chain Nanodiamonds Inside Carbon Nanotubes from Bridgeheadâ€Halogenated Diamantane Precursors. Angewandte Chemie - International Edition, 2015, 54, 10802-10806.	13.8	44
138	Uncovering Key Structural Features of an Enantioselective Peptideâ€Catalyzed Acylation Utilizing Advanced NMR Techniques. Angewandte Chemie - International Edition, 2016, 55, 15754-15759.	13.8	43
139	Calcium carbide catalytically activated with tetra-n-butyl ammonium fluoride for Sonogashira cross coupling reactions. Organic and Biomolecular Chemistry, 2017, 15, 6800-6807.	2.8	43
140	Gas-phase sugar formation using hydroxymethylene as the reactive formaldehyde isomer. Nature Chemistry, 2018, 10, 1141-1147.	13.6	43
141	Competitive Nitrogen versus Carbon Tunneling. Journal of the American Chemical Society, 2019, 141, 14340-14348.	13.7	43
142	Generally Applicable Organocatalytic Tetrahydropyranylation of Hydroxy Functionalities with Very Low Catalyst Loading. Synthesis, 2007, 2007, 779-790.	2.3	42
143	[123]Tetramantane: Parent of a New Family of Ïƒ-Helicenes. Journal of the American Chemical Society, 2009, 131, 11292-11293.	13.7	42
144	Ultralow effective work function surfaces using diamondoid monolayers. Nature Nanotechnology, 2016, 11, 267-272.	31.5	42

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145	Catalytic enantiocontrol over a non-classical carbocation. Nature Chemistry, 2020, 12, 1174-1179.	13.6	42
146	CH3+Is the Most Trivial Carbocation, but Are Its Heavier Congeners Just Lookalikes?. Journal of the American Chemical Society, 1996, 118, 12154-12158.	13.7	41
147	Isonitroso Hydrogen (Hydroxy Nitrene, HON). Angewandte Chemie - International Edition, 1999, 38, 108-110.	13.8	41
148	ThioformaldehydeS-sulfide (Thiosulfine). Angewandte Chemie - International Edition, 2001, 40, 393-396.	13.8	41
149	The Self-Association of Graphane Is Driven by London Dispersion and Enhanced Orbital Interactions. Journal of Chemical Theory and Computation, 2015, 11, 1621-1630.	5.3	41
150	Mild Aliphatic and Benzylic Hydrocarbon Câ€“H Bond Chlorination Using Trichloroisocyanuric Acid. Journal of Organic Chemistry, 2017, 82, 2407-2413.	3.2	41
151	2,3-Dihydrothiazol-2-ylidene. Angewandte Chemie International Edition in English, 1997, 36, 1709-1712.	4.4	40
152	Are Heterocyclic 2Ï€-Electron Aromatic Systems HCâ^'Ga(H)â^'CH, M[HGaâ^'C(H)â^'GaH], [HGaâ^'C(H)â^'GaH]-, HSiâ^'Ga(H)â^'SiH, M[HGaâ^'Si(H)â^'GaH] (M = Li, Na, and K), and [HGaâ^'Si(H)â^'GaH]-Stable?. Organometallics, 1998, 17, 114-122.	2.3	40
153	Conformer-specific hydrogen atom tunnelling in trifluoromethylhydroxycarbene. Nature Chemistry, 2017, 9, 71-76.	13.6	40
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