# Peter Schreiner

List of Publications by Year
in descending order

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| 506 papers | 23,657 citations | 12322 69 h-index | 13758 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. | 18.7 | 1,173 |
| 2 | (Thio)urea organocatalysisâ€"What can be learnt from anion recognition?. Chemical Society Reviews, 2009, 38, 1187. | 18.7 | 998 |
| 3 | London Dispersion in Molecular Chemistryâ€"Reconsidering Steric Effects. Angewandte Chemie - International Edition, 2015, 54, 12274-12296. | 7.2 | 719 |
| 4 | The Lipophilic Bullet Hits the Targets: Medicinal Chemistry of Adamantane Derivatives. Chemical Reviews, 2013, 113, 3516-3604. | 23.0 | 517 |
| 5 | H-Bonding Additives Act Like Lewis Acid Catalysts. Organic Letters, 2002, 4, 217-220. | 2.4 | 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. | 1.7 | 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. | 23.0 | 379 |
| 8 | Overcoming lability of extremely long alkane carbonâ€"carbon bonds through dispersion forces. Nature, 2011, 477, 308-311. | 13.7 | 371 |
| 9 | Diamonds are a Chemist's Best Friend: Diamondoid Chemistry Beyond Adamantane. Angewandte Chemie - International Edition, 2008, 47, 1022-1036. | 7.2 | 364 |
| 10 | Organocatalytic Enantioselective Acyl Transfer onto Racemic as well as meso Alcohols, Amines, and Thiols. Angewandte Chemie - International Edition, 2011, 50, 6012-6042. | 7.2 | 342 |
| 11 | Many Density Functional Theory Approaches Fail To Give Reliable Large Hydrocarbon Isomer Energy Differences. Organic Letters, 2006, 8, 3635-3638. | 2.4 | 304 |
| 12 | Methylhydroxycarbene: Tunneling Control of a Chemical Reaction. Science, 2011, 332, 1300-1303. | 6.0 | 274 |
| 13 | Capture of hydroxymethylene and its fast disappearance through tunnelling. Nature, 2008, 453, 906-909. | 13.7 | 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. | 7.2 | 261 |
| 15 | How Accurate Are DFT Treatments of Organic Energies?. Organic Letters, 2007, 9, 1851-1854. | 2.4 | 260 |
| 16 | Evolution of asymmetric organocatalysis: multi- and retrocatalysis. Green Chemistry, 2012, 14, 1821. | 4.6 | 249 |
| 17 | Monochromatic Electron Photoemission from Diamondoid Monolayers. Science, 2007, 316, 1460-1462. | 6.0 | 248 |
| 18 | Steric Crowding Can Stabilize a Labile Molecule: Solving the Hexaphenylethane Riddle. Angewandte Chemie - International Edition, 2011, 50, 12639-12642. | 7.2 | 232 |

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| 19 | (Thio)urea Organocatalyst Equilibrium Acidities in DMSO. Organic Letters, 2012, 14, 1724-1727. | 2.4 | 226 |
| 20 | Londonâ€™sche Dispersionswechselwirkungen in der MolekÃ¼lchemie â€“ eine Neubetrachtung sterischer Effekte. Angewandte Chemie, 2015, 127, 12446-12471. | 1.6 | 197 |
| 21 | Hydrogenâ€Bonding Thiourea Organocatalysts: The Privileged 3,5â€Bis(trifluoromethyl)phenyl Group. European Journal of Organic Chemistry, 2012, 2012, 5919-5927. | 1.2 | 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. | 6.6 | 185 |
| 23 | Stable Alkanes Containing Very Long Carbonâ€“Carbon Bonds. Journal of the American Chemical Society, 2012, 134, 13641-13650. | 6.6 | 181 |
| 24 | Relative Energy Computations with Approximate Density Functional Theoryâ€”A Caveat!. Angewandte Chemie - International Edition, 2007, 46, 4217-4219. | 7.2 | 180 |
| 25 | CH+5: The neverâ€ending story or the final word?. Journal of Chemical Physics, 1993, 99, 3716-3720. | 1.2 | 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. | 1.1 | 176 |
| 27 | Acid-free, organocatalytic acetalization. Tetrahedron, 2006, 62, 434-439. | 1.0 | 161 |
| 28 | Tunnelling control of chemical reactions â€“ the organic chemist's perspective. Organic and Biomolecular Chemistry, 2012, 10, 3781. | 1.5 | 149 |
| 29 | Tunneling Control of Chemical Reactions: The Third Reactivity Paradigm. Journal of the American Chemical Society, 2017, 139, 15276-15283. | 6.6 | 144 |
| 30 | Diamondoids: functionalization and subsequent applications of perfectly defined molecular cage hydrocarbons. New Journal of Chemistry, 2014, 38, 28-41. | 1.4 | 142 |
| 31 | Hydrophobic amplification of noncovalent organocatalysis. Chemical Communications, 2006, , 4315. | 2.2 | 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. | 1.1 | 139 |
| 33 | Computational Chemistry: The Fate of Current Methods and Future Challenges. Angewandte Chemie - International Edition, 2018, 57, 4170-4176. | 7.2 | 138 |
| 34 | Carbene Rearrangements Unsurpassed:â€‰ Details of the C7H6 Potential Energy Surface Revealed. Journal of Organic Chemistry, 1996, 61, 7030-7039. | 1.7 | 133 |
| 35 | London Dispersion Enables the Shortest Intermolecular Hydrocarbon HÂ·Â·Â·H Contact. Journal of the American Chemical Society, 2017, 139, 7428-7431. | 6.6 | 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. | 1.1 | 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. | 7.6 | 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. | 1.7 | 113 |
| 39 | Understanding the fundamentals of redox mediators in Liâ€“O<sub>2</sub> batteries: a case study on nitroxides. Physical Chemistry Chemical Physics, 2015, 17, 31769-31779. | 1.3 | 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. | 7.2 | 108 |
| 41 | Cooperative BrÃ¸nsted Acid-Type Organocatalysis:â€‰ Alcoholysis of Styrene Oxides. Organic Letters, 2008, 10, 1513-1516. | 2.4 | 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. | 6.6 | 105 |
| 43 | Sizing the role of London dispersion in the dissociation of all-meta tert-butyl hexaphenylethane. Chemical Science, 2017, 8, 405-410. | 3.7 | 104 |
| 44 | Cooperative Thioureaâ€“BrÃ¸nsted Acid Organocatalysis: Enantioselective Cyanosilylation of Aldehydes with TMSCN. Journal of Organic Chemistry, 2011, 76, 9764-9776. | 1.7 | 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. | 6.6 | 103 |
| 46 | Enantioselective Kinetic Resolution of transâ€Cycloalkaneâ€1,2â€diols. Angewandte Chemie - International Edition, 2008, 47, 6180-6183. | 7.2 | 91 |
| 47 | Synthesis of Higher Diamondoids and Implications for Their Formation in Petroleum. Angewandte Chemie - International Edition, 2010, 49, 9881-9885. | 7.2 | 90 |
| 48 | Functionalized Nanodiamonds:Â Triamantane and [121]Tetramantaneâ€. Journal of Organic Chemistry, 2006, 71, 6709-6720. | 1.7 | 88 |
| 49 | Î³-Aminoadamantanecarboxylic Acids Through Direct Câ€“H Bond Amidations. European Journal of Organic Chemistry, 2007, 2007, 1474-1490. | 1.2 | 87 |
| 50 | A siliconâ€“carbonyl complex stable at room temperature. Nature Chemistry, 2020, 12, 608-614. | 6.6 | 85 |
| 51 | Carbonyl- and Carboxyl-Substituted Enediynes:Â Synthesis, Computations, and Thermal Reactivity. Journal of Organic Chemistry, 2001, 66, 1742-1746. | 1.7 | 83 |
| 52 | Band gap tuning in nanodiamonds: first principle computational studies. Molecular Physics, 2009, 107, 823-830. | 0.8 | 83 |
| 53 | Are Cyclogallenes [M2(GaH)3] (M = Li, Na, K) Aromatic?. Journal of the American Chemical Society, 1996, 118, 10635-10639. | 6.6 | 81 |
| 54 | Selective C-H Activation of Aliphatic Hydrocarbons under Phase-Transfer Conditions. Angewandte Chemie - International Edition, 1998, 37, 1895-1897. | 7.2 | 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. | 1.7 | 80 |
| 56 | Hybrid metalâ€“organic chalcogenide nanowires with electrically conductive inorganic core through diamondoid-directed assembly. Nature Materials, 2017, 16, 349-355. | 13.3 | 79 |
| 57 | Stereospecific Consecutive Epoxide Ring Expansion with Dimethylsulfoxonium Methylide. Journal of Organic Chemistry, 2010, 75, 6229-6235. | 1.7 | 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. | 6.6 | 77 |
| 60 | Ab Initio Calculation of Optical Rotation in (P)-(+)-[4]Triangulane. Journal of the American Chemical Society, 2005, 127, 1368-1369. | 6.6 | 75 |
| 61 | Ïƒ/Ïƒ- and Ï€/Ï€-Interactions Are Equally Important: Multilayered Graphanes. Journal of the American Chemical Society, 2011, 133, 20036-20039. | 6.6 | 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. | 2.3 | 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. | 1.2 | 73 |
| 64 | Heteroâ€€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. | 1.7 | 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. | 1.5 | 71 |
| 67 | Functionalized Nanodiamonds Part 3:â€‰ Thiolation of Tertiary/Bridgehead Alcohols. Organic Letters, 2006, 8, 1767-1770. | 2.4 | 71 |
| 68 | Evidence of Diamond Nanowires Formed inside Carbon Nanotubes from Diamantane Dicarboxylic Acid. Angewandte Chemie - International Edition, 2013, 52, 3717-3721. | 7.2 | 71 |
| 69 | Sterically controlled mechanochemistry under hydrostatic pressure. Nature, 2018, 554, 505-510. | 13.7 | 71 |
| 70 | Structural Analyses of Nâ€Acetylated 4â€(Dimethylamino)pyridine (DMAP) Salts. Chemistry - A European Journal, 2009, 15, 8548-8557. | 1.7 | 70 |
| 71 | Fluoride-Assisted Activation of Calcium Carbide: A Simple Method for the Ethynylation of Aldehydes and Ketones. Organic Letters, 2015, 17, 2808-2811. | 2.4 | 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. | 6.6 | 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. | 6.6 | 69 |
| 74 | Ureaâ€•and Thioureaâ€Catalyzed Aminolysis of Carbonates. ChemSusChem, 2016, 9, 2269-2272. | 3.6 | 69 |
| 75 | Vertical-Substrate MPCVD Epitaxial Nanodiamond Growth. Nano Letters, 2017, 17, 1489-1495. | 4.5 | 68 |
| 76 | Fulvenes from Enediynes: Regioselective Electrophilic Domino and Tandem Cyclizations of Enynes and Oligoynes. Angewandte Chemie - International Edition, 2003, 42, 5757-5760. | 7.2 | 67 |
| 77 | Heats of formation of platonic hydrocarbon cages by means of highâ€level thermochemical procedures. Journal of Computational Chemistry, 2016, 37, 49-58. | 1.5 | 66 |
| 78 | Cope Reaction Families:â€‰ To Be or Not to Be a Biradical. Organic Letters, 2004, 6, 2981-2984. | 2.4 | 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. | 1.2 | 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. | 1.2 | 64 |
| 81 | Spectroscopic Identification of Dihydroxycarbene. Angewandte Chemie - International Edition, 2008, 47, 7071-7074. | 7.2 | 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. | 1.6 | 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. | 7.2 | 63 |
| 84 | Electronic Stabilization of Ground State Triplet Carbenes. Journal of Organic Chemistry, 2007, 72, 9533-9540. | 1.7 | 62 |
| 85 | Siliconâˆ'(Thio)urea Lewis Acid Catalysis. Journal of the American Chemical Society, 2011, 133, 7624-7627. | 6.6 | 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. | 6.6 | 62 |
| 87 | A Formal Carbonâ€“Sulfur Triple Bond: Hï£¿Cï£½Sï£¿Oï£¿H. Angewandte Chemie - International Edition, 2009, 48, 8133-8136. | 7.2 | 61 |
| 88 | H-Coupled Electron Transfer in Alkane Câˆ'H Activations with Halogen Electrophiles. Journal of the American Chemical Society, 2002, 124, 10718-10727. | 6.6 | 59 |
| 89 | Cyclopropylhydroxycarbene. Journal of the American Chemical Society, 2011, 133, 13614-13621. | 6.6 | 59 |
| 90 | Rearrangements on the C6H6 Potential Energy Surface and the Topomerization of Benzene. Journal of the American Chemical Society, 1998, 120, 5741-5750. | 6.6 | 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. | 6.6 | 58 |
| 92 | Origin of the Monochromatic Photoemission Peak in Diamondoid Monolayers. Nano Letters, 2009, 9, 57-61. | 4.5 | 58 |
| 93 | The First Efficient Iodination of Unactivated Aliphatic Hydrocarbons. Angewandte Chemie - International Edition, 1999, 38, 2786-2788. | 7.2 | 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. | 1.7 | 57 |
| 95 | Quantum Mechanical Tunneling Is Essential to Understanding Chemical Reactivity. Trends in Chemistry, 2020, 2, 980-989. | 4.4 | 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. | 7.2 | 57 |
| 97 | Quest for Silaketene:â€‰ A Matrix-Spectroscopic and Theoretical Study1. Organometallics, 1999, 18, 2155-2161. | 1.1 | 55 |
| 98 | Halogenation of Cubane under Phase-Transfer Conditions:â€‰ Single and Double Câˆ’H-Bond Substitution with Conservation of the Cage Structure. Journal of the American Chemical Society, 2001, 123, 1842-1847. | 6.6 | 55 |
| 99 | The First Enantiomerically Pure [n]Triangulanes and Analogues: Ïƒ-[n]Helicenes with Remarkable Features. Chemistry - A European Journal, 2002, 8, 828-842. | 1.7 | 55 |
| 100 | Reactivity of [1(2,3)4]Pentamantane (Td-Pentamantane): A Nanoscale Model of Diamondâ€. Journal of Organic Chemistry, 2006, 71, 8532-8540. | 1.7 | 55 |
| 101 | Synthesis of Exclusively 4-Substituted Î²-Lactams through the Kinugasa Reaction Utilizing Calcium Carbide. Organic Letters, 2019, 21, 3746-3749. | 2.4 | 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. | 1.7 | 54 |
| 103 | Selective Radical Reactions in Multiphase Systems: Phase-Transfer Halogenations of Alkanes. Chemistry - A European Journal, 2001, 7, 4996-5003. | 1.7 | 54 |
| 104 | Negative-electron-affinity diamondoid monolayers as high-brilliance source for ultrashort electron pulses. Chemical Physics Letters, 2010, 495, 102-108. | 1.2 | 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. | 6.6 | 53 |
| 106 | Intramolecular London Dispersion Interactions Do Not Cancel in Solution. Journal of the American Chemical Society, 2021, 143, 41-45. | 6.6 | 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. | 1.7 | 52 |
| 108 | Phenylhydroxycarbene. Journal of the American Chemical Society, 2010, 132, 7273-7275. | 6.6 | 52 |

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| 109 | The Enantioselective Dakinâ€“West Reaction. Angewandte Chemie - International Edition, 2016, 55, 2719-2723. | 7.2 | 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. | 1.1 | 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. | 6.6 | 51 |
| 112 | Electronic structure tuning of diamondoids through functionalization. Journal of Chemical Physics, 2013, 138, 024310. | 1.2 | 51 |
| 113 | Oneâ€Pot Desymmetrization of mesoâ€1,2â€Hydrocarbon Diols through Acylation and Oxidation. Chemistry - A European Journal, 2009, 15, 9647-9650. | 1.7 | 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. | 6.6 | 50 |
| 115 | Oxygen-Doped Nanodiamonds: Synthesis and Functionalizations. Organic Letters, 2009, 11, 3068-3071. | 2.4 | 50 |
| 116 | Nanodiamonds in sugar rings: an experimental and theoretical investigation of cyclodextrinâ€“nanodiamond inclusion complexes. Organic and Biomolecular Chemistry, 2012, 10, 4524. | 1.5 | 50 |
| 117 | Synthesis of Substituted Adamantylzinc Reagents Using a Mg-Insertion in the Presence of ZnCl<sub>2</sub> and Further Functionalizations. Organic Letters, 2014, 16, 2418-2421. | 2.4 | 50 |
| 118 | Cyanocarbene, Isocyanocarbene, and Azacyclopropenylidene: A Matrix-Spectroscopic Study. Chemistry - A European Journal, 1998, 4, 1957-1963. | 1.7 | 49 |
| 119 | Selective alkane C?H-bond functionalizations utilizing oxidative single-electron transfer and organocatalysis. Chemical Record, 2004, 3, 247-257. | 2.9 | 49 |
| 120 | An Interrupted [4+3] Cycloaddition Reaction: A Hydride Shift (Ene Reaction) Intervenes. Angewandte Chemie - International Edition, 2008, 47, 8696-8699. | 7.2 | 49 |
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| 122 | Cyclic enediynes: relationship between ring size, alkyne carbon distance, and cyclization barrier. Chemical Communications, 1998, , 483-484. | 2.2 | 48 |
| 123 | Kinetic resolution of trans-cycloalkane-1,2-diols via Steglich esterification. Chemical Communications, 2010, 46, 2689. | 2.2 | 48 |
| 124 | Light- and Heavy-Atom Tunneling in Rearrangement Reactions of Cyclopropylcarbenes. Organic Letters, 2011, 13, 3526-3529. | 2.4 | 48 |
| 125 | The Naphthylcarbene Potential Energy Hypersurface. Journal of the American Chemical Society, 1997, 119, 1370-1377. | 6.6 | 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. | 6.6 | 47 |
| 128 | Lipophilic Oligopeptides for Chemo- and Enantioselective Acyl Transfer Reactions onto Alcohols. Journal of Organic Chemistry, 2013, 78, 8465-8484. | 1.7 | 47 |
| 129 | Mechanisms of electrophilic substitutions of aliphatic hydrocarbons: methane + nitrosonium cation. Journal of the American Chemical Society, 1993, 115, 9659-9666. | 6.6 | 46 |
| 130 | Domino Tunneling. Journal of the American Chemical Society, 2015, 137, 7828-7834. | 6.6 | 46 |
| 131 | Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers. Nano Letters, 2016, 16, 212-217. | 4.5 | 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. | 6.6 | 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. | 1.7 | 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. | 1.2 | 44 |
| 135 | The reaction of benzene with a ground state carbon atom, C(3Pj). Journal of Chemical Physics, 2000, 113, 4250-4264. | 1.2 | 44 |
| 136 | Tetrahedraneâ€”Dossier of an Unknown. Chemistry - A European Journal, 2006, 12, 7411-7420. | 1.7 | 44 |
| 137 | Template Synthesis of Linearâ€Chain Nanodiamonds Inside Carbon Nanotubes from Bridgeheadâ€Halogenated Diamantane Precursors. Angewandte Chemie - International Edition, 2015, 54, 10802-10806. | 7.2 | 44 |
| 138 | Uncovering Key Structural Features of an Enantioselective Peptideâ€Catalyzed Acylation Utilizing Advanced NMR Techniques. Angewandte Chemie - International Edition, 2016, 55, 15754-15759. | 7.2 | 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. | 1.5 | 43 |
| 140 | Gas-phase sugar formation using hydroxymethylene as the reactive formaldehyde isomer. Nature Chemistry, 2018, 10, 1141-1147. | 6.6 | 43 |
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| 142 | Generally Applicable Organocatalytic Tetrahydropyranylation of Hydroxy Functionalities with Very Low Catalyst Loading. Synthesis, 2007, 2007, 779-790. | 1.2 | 42 |
| 143 | [123]Tetramantane: Parent of a New Family of Ïƒ-Helicenes. Journal of the American Chemical Society, 2009, 131, 11292-11293. | 6.6 | 42 |
| 144 | Ultralow effective work function surfaces using diamondoid monolayers. Nature Nanotechnology, 2016, 11, 267-272. | 15.6 | 42 |

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| 147 | Isonitroso Hydrogen (Hydroxy Nitrene, HON). Angewandte Chemie - International Edition, 1999, 38, 108-110. | 7.2 | 41 |
| 148 | ThioformaldehydeS-sulfide (Thiosulfine). Angewandte Chemie - International Edition, 2001, 40, 393-396. | 7.2 | 41 |
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