

# Kendall N Houk

## List of Publications by Year in descending order

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108  
papers

13,859  
citations

47006

47  
h-index

24258

110  
g-index

124  
all docs

124  
docs citations

124  
times ranked

11639  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Stereodivergent Attached Ring Synthesis via Non-Covalent Interactions: A Short Formal Synthesis of Merrilactone A. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .  | 13.8 | 8         |
| 2  | Stereodivergent Attached Ring Synthesis via Non-Covalent Interactions: A Short Formal Synthesis of Merrilactone A. <i>Angewandte Chemie</i> , 2022, 134, e202114514.   | 2.0  | 0         |
| 3  | Systematic Variation of Both the Aromatic Cage and Dialkyllysine via GCE-SAR Reveal Mechanistic Insights in CBX5 Reader Protein Binding. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2646-2655.  | 6.4  | 13        |
| 4  | Chiral Phosphoric Acid Catalyzed Conversion of Epoxides into Thiiranes: Mechanism, Stereochemical Model, and New Catalyst Design. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 13.8 | 19        |
| 5  | Computationally designed ligands enable tunable borylation of remote C-H bonds in arenes. <i>Chem</i> , 2022, 8, 1775-1788.  | 11.7 | 14        |
| 6  | Facile access to fused 2D/3D rings via intermolecular cascade dearomative [2+2] cycloaddition/rearrangement reactions of quinolines with alkenes. <i>Nature Catalysis</i> , 2022, 5, 405-413.  | 34.4 | 42        |
| 7  | Organic Chemistry and Synthesis Rely More and More upon Catalysts. <i>Catalysts</i> , 2022, 12, 758.   | 3.5  | 2         |
| 8  | Die Evolution des Diels-Alder-Reaktionsmechanismus seit den 1930er Jahren: Woodward, Houk zusammen mit Woodward und der Einfluss der Computerchemie auf das Verständnis von Cycloadditionen. <i>Angewandte Chemie</i> , 2021, 133, 12768-12790.        | 2.0  | 15        |
| 9  | Evolution of the Diels-Alder Reaction Mechanism since the 1930s: Woodward, Houk with Woodward, and the Influence of Computational Chemistry on Understanding Cycloadditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12660-12681. | 13.8 | 85        |
| 10 | How the Lewis Base F <sup>-</sup> Catalyzes the 1,3-Dipolar Cycloaddition between Carbon Dioxide and Nitrilimines. <i>Journal of Organic Chemistry</i> , 2021, 86, 4320-4325.  | 3.2  | 17        |
| 11 | Metal-Free Directed C-H Borylation of Pyrroles. <i>Angewandte Chemie</i> , 2021, 133, 8581-8585.   | 2.0  | 12        |
| 12 | Computational Exploration of Ambiphilic Reactivity of Azides and Sustmann's Paradigmatic Parabola. <i>Journal of Organic Chemistry</i> , 2021, 86, 5792-5804.  | 3.2  | 11        |
| 13 | Metal-Free Directed C-H Borylation of Pyrroles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8500-8504.  | 13.8 | 40        |
| 14 | Photochemical intermolecular dearomative cycloaddition of bicyclic azaarenes with alkenes. <i>Science</i> , 2021, 371, 1338-1345.  | 12.6 | 119       |
| 15 | Catalytic mechanism and endo-to-exo selectivity reversion of an octalin-forming natural Diels-Alderase. <i>Nature Catalysis</i> , 2021, 4, 223-232.  | 34.4 | 35        |
| 16 | Direct Synthesis of Ketones from Methyl Esters by Nickel-Catalyzed Suzuki-Miyaura Coupling. <i>Angewandte Chemie</i> , 2021, 133, 13588-13595.   | 2.0  | 7         |
| 17 | Direct Synthesis of Ketones from Methyl Esters by Nickel-Catalyzed Suzuki-Miyaura Coupling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13476-13483.  | 13.8 | 22        |
| 18 | Origins of <i>Endo</i> Selectivity in Diels-Alder Reactions of Cyclic Allene Dienophiles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14989-14997.  | 13.8 | 24        |

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|----|---|------|-----------|
| 19 | Origins of Endo Selectivity in Diels–Alder Reactions of Cyclic Allene Dienophiles. <i>Angewandte Chemie</i> , 2021, 133, 15116-15124.   | 2.0  | 3         |
| 20 | Cycloaddition Cascades of Strained Alkynes and Oxadiazinones. <i>Angewandte Chemie</i> , 2021, 133, 18349-18356.  | 2.0  | 4         |
| 21 | Cycloaddition Cascades of Strained Alkynes and Oxadiazinones. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18201-18208.   | 13.8 | 15        |
| 22 | Stereochemical Control via Chirality Pairing: Stereodivergent Syntheses of Enantioenriched Homoallylic Alcohols. <i>Angewandte Chemie</i> , 2021, 133, 24298-24308.                                   | 2.0  | 8         |
| 23 | Stereochemical Control via Chirality Pairing: Stereodivergent Syntheses of Enantioenriched Homoallylic Alcohols. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24096-24106.            | 13.8 | 28        |
| 24 | Performance-limiting formation dynamics in mixed-halide perovskites. <i>Science Advances</i> , 2021, 7, eabj1799.   | 10.3 | 54        |
| 25 | Synthetic, Mechanistic, and Biological Interrogation of <i>Ginkgo biloba</i> Chemical Space En Route to (â)-Bilobalide. <i>Journal of the American Chemical Society</i> , 2020, 142, 18599-18618.     | 13.7 | 40        |
| 26 | Rolf Huisgen's Classic Studies of Cyclic Triene Diels–Alder Reactions Elaborated by Modern Computational Analysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12506-12519.          | 13.8 | 13        |
| 27 | Rolf Huisgen's Classic Studies of Cyclic Triene Diels–Alder Reactions Elaborated by Modern Computational Analysis. <i>Angewandte Chemie</i> , 2020, 132, 12606-12619.                                 | 2.0  | 1         |
| 28 | Understand the Specific Regio- and Enantioselectivity of Fluostatin Conjugation in the Post-Biosynthesis. <i>Biomolecules</i> , 2020, 10, 815.  | 4.0  | 15        |
| 29 | Chiral Phosphoric Acid Dual-Function Catalysis: Asymmetric Allylation with $\hat{\pm}$ -Vinyl Allylboron Reagents. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10540-10548.          | 13.8 | 42        |
| 30 | Chiral Phosphoric Acid Dual-Function Catalysis: Asymmetric Allylation with $\hat{\pm}$ -Vinyl Allylboron Reagents. <i>Angewandte Chemie</i> , 2020, 132, 10627-10635.                                 | 2.0  | 10        |
| 31 | autoDIAS: a python tool for an automated distortion/interaction activation strain analysis. <i>Journal of Computational Chemistry</i> , 2019, 40, 2509-2515.  | 3.3  | 28        |
| 32 | Enabling microbial syringol conversion through structure-guided protein engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13970-13976. | 7.1  | 41        |
| 33 | Enzyme-catalysed [6+4] cycloadditions in the biosynthesis of natural products. <i>Nature</i> , 2019, 568, 122-126.  | 27.8 | 83        |
| 34 | Structural Distortion of Cycloalkynes Influences Cycloaddition Rates both by Strain and Interaction Energies. <i>Chemistry - A European Journal</i> , 2019, 25, 6342-6348.                            | 3.3  | 49        |
| 35 | Constructive molecular configurations for surface-defect passivation of perovskite photovoltaics. <i>Science</i> , 2019, 366, 1509-1513.  | 12.6 | 846       |
| 36 | Metal-free directed sp <sup>2</sup> -C–H borylation. <i>Nature</i> , 2019, 575, 336-340.  | 27.8 | 175       |

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|----|--|------|-----------|
| 37 | Understanding the R882H mutation effects of DNA methyltransferase DNMT3A: a combination of molecular dynamics simulations and QM/MM calculations. <i>RSC Advances</i> , 2019, 9, 31425-31434.                                | 3.6  | 7         |
| 38 | John D. Roberts, his beginnings at UCLA, his transformation of physical organic chemistry, and his impact on science. <i>Journal of Physical Organic Chemistry</i> , 2018, 31, e3810.  | 1.9  | 0         |
| 39 | Influence of water and enzyme SpnF on the dynamics and energetics of the ambimodal [6+4]/[4+2] cycloaddition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E848-E855. | 7.1  | 57        |
| 40 | Mild Ring-Opening 1,3-Hydroborations of Non-Activated Cyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16861-16865.   | 13.8 | 52        |
| 41 | Mild Ring-Opening 1,3-Hydroborations of Non-Activated Cyclopropanes. <i>Angewandte Chemie</i> , 2018, 130, 17103-17107.  | 2.0  | 33        |
| 42 | A promiscuous cytochrome P450 aromatic O-demethylase for lignin bioconversion. <i>Nature Communications</i> , 2018, 9, 2487.   | 12.8 | 135       |
| 43 | Computational Protocol to Understand P450 Mechanisms and Design of Efficient and Selective Biocatalysts. <i>Frontiers in Chemistry</i> , 2018, 6, 663.   | 3.6  | 12        |
| 44 | Analyzing Reaction Rates with the Distortion/Interaction-Activation Strain Model. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10070-10086.  | 13.8 | 1,060     |
| 45 | Das Distortion/Interaction-Activation-Strain-Modell zur Analyse von Reaktionsgeschwindigkeiten. <i>Angewandte Chemie</i> , 2017, 129, 10204-10221.   | 2.0  | 209       |
| 46 | Palladium-Catalyzed Suzuki-Miyaura Coupling of Aryl Esters. <i>Journal of the American Chemical Society</i> , 2017, 139, 1311-1318.  | 13.7 | 212       |
| 47 | Synthesis of $^{18}\text{F}$ Fluoroarenes by Nucleophilic Radiofluorination of $\text{N}^{\text{Ar}}$ -Arylsydnonones. <i>Angewandte Chemie</i> , 2017, 129, 13186-13190.  | 2.0  | 10        |
| 48 | Synthesis of $^{18}\text{F}$ Fluoroarenes by Nucleophilic Radiofluorination of $\text{N}^{\text{Ar}}$ -Arylsydnonones. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13006-13010.                             | 13.8 | 39        |
| 49 | Investigation of Trimethyllysine Binding by the HP1 Chromodomain via Unnatural Amino Acid Mutagenesis. <i>Journal of the American Chemical Society</i> , 2017, 139, 17253-17256.   | 13.7 | 27        |
| 50 | Nickel-Catalyzed Activation of Acyl C=O Bonds of Methyl Esters. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2810-2814.  | 13.8 | 142       |
| 51 | Reactivity of Single-Walled Carbon Nanotubes in the Diels-Alder Cycloaddition Reaction: Distortion-Interaction Analysis along the Reaction Pathway. <i>Chemistry - A European Journal</i> , 2016, 22, 12819-12824.           | 3.3  | 21        |
| 52 | Involvement of Lipocalin-Like CgA in Decalin-Forming Stereoselective Intramolecular [4+2] Cycloaddition. <i>ChemBioChem</i> , 2015, 16, 2294-2298.   | 2.6  | 80        |
| 53 | Origins of stereoselectivity in evolved ketoreductases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E7065-72.  | 7.1  | 104       |
| 54 | N-Type Conjugated Polymer-Enabled Selective Dispersion of Semiconducting Carbon Nanotubes for Flexible CMOS-Like Circuits. <i>Advanced Functional Materials</i> , 2015, 25, 1837-1844.                                       | 14.9 | 32        |

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|----|---|------|-----------|
| 55 | Solvent Effects on Polymer Sorting of Carbon Nanotubes with Applications in Printed Electronics. <i>Small</i> , 2015, 11, 126-133.  | 10.0 | 69        |
| 56 | High-Yield Sorting of Small-Diameter Carbon Nanotubes for Solar Cells and Transistors. <i>ACS Nano</i> , 2014, 8, 2609-2617.  | 14.6 | 91        |
| 57 | Competition Between Concerted and Stepwise Dynamics in the Triplet Diazo-Methane Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8664-8667.   | 13.8 | 28        |
| 58 | Scalable and Selective Dispersion of Semiconducting Arc-Discharged Carbon Nanotubes by Dithiafulvalene/Thiophene Copolymers for Thin Film Transistors. <i>ACS Nano</i> , 2013, 7, 2659-2668.  | 14.6 | 88        |
| 59 | Aromatic Claisen Rearrangements of <i>o</i> -Prenylated Tyrosine and Model Prenyl Aryl Ethers: Computational Study of the Role of Water on Acceleration of Claisen Rearrangements. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 2823-2831.  | 2.4  | 18        |
| 60 | Enantioselective Homocrotlylboration of Aliphatic Aldehydes. <i>Journal of the American Chemical Society</i> , 2013, 135, 82-85.  | 13.7 | 26        |
| 61 | Control of Hetero-Diels-Alder Stereoselectivity through Solvent Polarity and Brønsted or Lewis Acid Catalysis; Theory and Experiment. <i>Synlett</i> , 2013, 24, 2446-2450.   | 1.8  | 2         |
| 62 | Enzymatic catalysis of anti-Baldwin ring closure in polyether biosynthesis. <i>Nature</i> , 2012, 483, 355-358.   | 27.8 | 117       |
| 63 | Fluorine as a Regiocontrol Element in the Ring Opening of Bicyclic Aziridiniums. <i>Helvetica Chimica Acta</i> , 2012, 95, 2265-2277.   | 1.6  | 13        |
| 64 | Iterative approach to computational enzyme design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3790-3795.   | 7.1  | 291       |
| 65 | Dynamics, transition states, and timing of bond formation in Diels-Alder reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12860-12865.  | 7.1  | 166       |
| 66 | Forming Tertiary Organolithiums and Organocuprates from Nitrile Precursors and their Bimolecular Reactions with Carbon Electrophiles to Form Quaternary Carbon Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9581-9586.     | 13.8 | 26        |
| 67 | Engineering synthetic recursive pathways to generate non-natural small molecules. <i>Nature Chemical Biology</i> , 2012, 8, 518-526.  | 8.0  | 51        |
| 68 | Bridging the gaps in design methodologies by evolutionary optimization of the stability and proficiency of designed Kemp eliminase KE59. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10358-10363. | 7.1  | 205       |
| 69 | Brønsted Acid Catalyzed Asymmetric Propargylation of Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1391-1394.   | 13.8 | 124       |
| 70 | Pericyclic Cascade with Chirality Transfer: Reaction Pathway and Origin of Enantioselectivity of the Hetero-Claisen Approach to Oxindoles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11478-11482.                                      | 13.8 | 45        |
| 71 | Axial Preferences in Allylations via the Zimmerman-Traxler Transition State. <i>Chemistry - A European Journal</i> , 2011, 17, 8000-8004.   | 3.3  | 33        |
| 72 | Facilitating e-Science Discovery Using Scientific Workflows on the Grid. <i>Computer Communications and Networks</i> , 2011, , 353-382.   | 0.8  | 5         |

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|----|--|------|-----------|
| 73 | Theoretical enzyme design using the Kepler scientific workflows on the Grid. <i>Procedia Computer Science</i> , 2010, 1, 1175-1184.  | 2.0  | 7         |
| 74 | Computational Design of an Enzyme Catalyst for a Stereoselective Bimolecular Diels-Alder Reaction. <i>Science</i> , 2010, 329, 309-313.  | 12.6 | 776       |
| 75 | Cycloaddition Reactions of Butadiene and 1,3- $\beta$ -Dipoles to Curved Arenes, Fullerenes, and Nanotubes: Theoretical Evaluation of the Role of Distortion Energies on Activation Barriers. <i>Chemistry - A European Journal</i> , 2009, 15, 13219-13231.                                     | 3.3  | 92        |
| 76 | A Hierarchy of Homodesmotic Reactions for Thermochemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 2547-2560.   | 13.7 | 508       |
| 77 | Fluorine-Directed Diastereoselective Iodocyclizations. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 357-360.   | 13.8 | 45        |
| 78 | Bifurcations on Potential Energy Surfaces of Organic Reactions. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7592-7601.  | 13.8 | 316       |
| 79 | Sources of Error in DFT Computations of C-C Bond Formation Thermochemistries: $\pi$ - $\sigma$ Transformations and Error Cancellation by DFT Methods. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7746-7749.  | 13.8 | 162       |
| 80 | Kemp elimination catalysts by computational enzyme design. <i>Nature</i> , 2008, 453, 190-195.   | 27.8 | 1,130     |
| 81 | De Novo Computational Design of Retro-Aldol Enzymes. <i>Science</i> , 2008, 319, 1387-1391.  | 12.6 | 1,031     |
| 82 | The Concept of Protobranching and Its Many Paradigm Shifting Implications for Energy Evaluations. <i>Chemistry - A European Journal</i> , 2007, 13, 7731-7744.   | 3.3  | 185       |
| 83 | The Origin of the Halogen Effect on Reactivity and Reversibility of Diels-Alder Cycloadditions Involving Furan. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1442-1445.  | 13.8 | 97        |
| 84 | The Chemistry and Biology of Nitroxyl (HNO): A Chemically Unique Species with Novel and Important Biological Activity. <i>ChemBioChem</i> , 2005, 6, 612-619.  | 2.6  | 95        |
| 85 | Structures and Stabilities of Diacetylene-Expanded Polyhedranes by Quantum Mechanics and Molecular Mechanics. <i>Journal of Organic Chemistry</i> , 2005, 70, 1671-1678.   | 3.2  | 33        |
| 86 | Theoretical Reduction Potentials for Nitrogen Oxides from CBS-QB3 Energetics and (C)PCM Solvation Calculations. <i>Inorganic Chemistry</i> , 2005, 44, 4024-4028.  | 4.0  | 82        |
| 87 | The Influence of Constitutional Isomerism and Change on Molecular Recognition Processes. <i>Chemistry - A European Journal</i> , 2004, 10, 5406-5421.  | 3.3  | 28        |
| 88 | The reduction potential of nitric oxide (NO) and its importance to NO biochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10958-10963.  | 7.1  | 339       |
| 89 | A Convergent Strategy for the Asymmetric Synthesis of Enantiomerically Pure Bicyclic Compounds by Using a Silicon-Directed Cycloaddition Reaction: The Synthesis of Enantiomerically Pure Bicyclo[3.2.0]hept-2-en-6-one. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2728-2730. | 13.8 | 36        |
| 90 | Structural Basis for Antibody Catalysis of a Disfavored Ring Closure Reaction. <i>Biochemistry</i> , 1999, 38, 7062-7074.  | 2.5  | 69        |

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|-----|--|------|-----------|
| 91  | Evolution of Shape Complementarity and Catalytic Efficiency from a Primordial Antibody Template. <i>Science</i> , 1999, 286, 2345-2348.  | 12.6 | 116       |
| 92  | Theozymes and compuzymes: theoretical models for biological catalysis. <i>Current Opinion in Chemical Biology</i> , 1998, 2, 743-750.  | 6.1  | 223       |
| 93  | Thermodynamic and Quantum Chemical Study of the Conversion of Chorismate to (Pyruvate + Tj ETQq1 1 0.784314 rgBT /Overlock 19  | 2.6  | 19        |
| 94  | An Antibody exo Diels-Alderase Inhibitor Complex at 1.95 Å Resolution. <i>Science</i> , 1998, 279, 1934-1940.  | 12.6 | 141       |
| 95  | Thermodynamics of the Conversion of Chorismate to Prephenate: Experimental Results and Theoretical Predictions. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10976-10982.                                 | 2.6  | 58        |
| 96  | Palladiumkomplexe der neuen Porphyrinisomere ( <i>Z</i> )- und ( <i>E</i> )-Isoporphycen<br>Pd <sup>II</sup> -induzierte Cyclisierungen von Tetrapyrrolaldehyden. <i>Angewandte Chemie</i> , 1997, 109, 363-367. | 2.0  | 16        |
| 97  | Polyether Catalysis of Ester Aminolysis – A Computational and Experimental Study. <i>Liebigs Annalen</i> , 1996, 1996, 1511-1522.  | 0.8  | 44        |
| 98  | From Porphyrin Isomers to Octapyrrolic Figure Eight-Macrocycles. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 2511-2514.  | 4.4  | 168       |
| 99  | Pericyclic Reaction Transition States: Passions and Punctilios, 1935-1995. <i>Accounts of Chemical Research</i> , 1995, 28, 81-90.   | 15.6 | 626       |
| 100 | Transition Structures of the Electrocyclic Reactions of <i>cis,cis,cis</i> -1,3,5-Cyclooctatriene. <i>Israel Journal of Chemistry</i> , 1993, 33, 287-293.   | 2.3  | 15        |
| 101 | Transition Structures of Hydrocarbon Pericyclic Reactions. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 682-708.  | 4.4  | 586       |
| 102 | Übergangsstrukturen in pericyclischen Reaktionen von Kohlenwasserstoffen. <i>Angewandte Chemie</i> , 1992, 104, 711-739.   | 2.0  | 111       |
| 103 | Unexpected regioselectivity in the reductive cleavage of epoxides: a theoretical rationalization. <i>Journal of the American Chemical Society</i> , 1989, 111, 8976-8978.  | 13.7 | 51        |
| 104 | Transition structures for the allylboration reactions of formaldehyde by allylborane and allylboronic acid. <i>Journal of the American Chemical Society</i> , 1989, 111, 1236-1240.                              | 13.7 | 83        |
| 105 | Theoretical and experimental insights into cycloaddition reactions. , 1979, , 1-40.  |      | 42        |
| 106 | Nitrene Ionization Potentials and Cycloaddition Regioselectivities. <i>Heterocycles</i> , 1977, 7, 293.  | 0.7  | 48        |
| 107 | Frontier molecular orbital theory of cycloaddition reactions. <i>Accounts of Chemical Research</i> , 1975, 8, 361-369.   | 15.6 | 733       |
| 108 | Chiral Phosphoric Acid Catalyzed Conversion of Epoxides into Thiiranes: Mechanism, Stereochemical Model, and New Catalyst Design. <i>Angewandte Chemie</i> , 0, , .  | 2.0  | 6         |