Dean J Tantillo

List of Publications by Year
in descending order

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347	11,970	36691 53	53065 89
papers	citations	h-index	g-index

403	403	403	10934
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum Chemical Prediction of Electron Ionization Mass Spectra of Trimethylsilylated Metabolites. Analytical Chemistry, 2022, , .	3.2	5
2	Divergent stereochemical outcomes in the insertion of donor/donor carbenes into the Câ€“H bonds of stereogenic centers. Chemical Science, 2022, 13, 1030-1036.	3.7	9
3	Evaluating the Accuracy of the QCEIMS Approach for Computational Prediction of Electron Ionization Mass Spectra of Purines and Pyrimidines. Metabolites, 2022, 12, 68.	1.3	4
4	Solvation Effects in Organic Chemistry. Journal of Organic Chemistry, 2022, 87, 1599-1601.	1.7	11
5	The Role of Through-Bond Stereoelectronic Effects in the Reactivity of 3-Azabicyclo[3.3.1]nonanes. Journal of Organic Chemistry, 2022, 87, 3378-3388.	1.7	3
6	Roads Not Taken: Mechanism and Origins of Regio- and Chemoselectivity of Directed Co^{III}-Catalyzed Alkenylation of N-Pyridyl 2-Pyridone. Organometallics, 2022, 41, 937-947.	1.1	2
7	Divergent Asymmetric Synthesis of Panowamycins, TMâ€135, and Veramycin F using Câ€“H Insertion with Donor/Donor Carbenes. Angewandte Chemie - International Edition, 2022, , .	7.2	3
8	Deceptive Complexity in Formation of Cleistantha-8,12-diene. Organic Letters, 2022, 24, 2646-2649.	2.4	2
9	Synthesis and Application of Constrained Amidoboronic Acids Using Amphoteric Boron-Containing Building Blocks. Journal of Organic Chemistry, 2022, 87, 94-102.	1.7	4
10	Assessing Alkene Reactivity toward Cytochrome P450-Mediated Epoxidation through Localized Descriptors and Regression Modeling. Journal of Chemical Information and Modeling, 2022, 62, 1979-1987.	2.5	4
11	Regression Modeling for the Prediction of Hydrogen Atom Transfer Barriers in Cytochrome P450 from Semiâ€empirically Derived Descriptors. Chemistry Methods, 2022, 2, .	1.8	2
12	Source of Rate Acceleration for Carbocation Cyclization in Biomimetic Supramolecular Cages. Journal of the American Chemical Society, 2022, 144, 11413-11424.	6.6	15
13	Experimental and Computational Mechanistic Study of Carbonazidate-Initiated Cascade Reactions. Journal of Organic Chemistry, 2022, 87, 8983-9000.	1.7	1
14	Investigation of Acidâ€“Base Catalysis in Halimadienyl Diphosphate Synthase Involved in Mycobacterium tuberculosis Virulence. ACS Bio & Med Chem Au, 2022, 2, 490-498.	1.7	4
15	Not That DDT: A Databank of Dynamics Trajectories for Organic Reactions. Journal of Chemical Education, 2022, 99, 2721-2725.	1.1	4
16	1-BENZYLSPIRO[PIPERIDINE-4,1â€²-PYRIDO[3,4-b]indole] â€˜co-potentiatorsâ€™ for minimal function CFTR mutants. European Journal of Medicinal Chemistry, 2021, 209, 112888.	2.6	7
17	Dynamic Effects on Migratory Aptitudes in Carbocation Reactions. Journal of the American Chemical Society, 2021, 143, 1088-1097.	6.6	18
18	Calculated oxidation potentials predict reactivity in Baeyerâ€“Mills reactions. Organic and Biomolecular Chemistry, 2021, 19, 7575-7580.	1.5	8

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19	Tunnel Vision. American Scientist, 2021, 109, 274.	0.1	1
20	Metal Bound or Free Ylides as Reaction Intermediates in Metal-Catalyzed [2,3]-Sigmatropic Rearrangements? It Depends. ACS Catalysis, 2021, 11, 829-839.	5.5	30
21	Dynamic effects on organic reactivityâ€"Pathways to (and from) discomfort. Journal of Physical Organic Chemistry, 2021, 34, e4202.	0.9	10
22	Dynamic Effects in Intramolecular Schmidt Reactions: Entropy, Electrostatic Drag, and Selectivity Prediction. ChemPhysChem, 2021, 22, 649-656.	1.0	2
23	On the Structural Assignments Underlying R.â€…B. Woodward's Most Personal Data That Led to the Woodwardâ€"Hoffmann Rules: Subramania Ranganathan's Key Role and Related Research by E.â€…J. Corey and A.â€…G. Hortmann. Chemistry - A European Journal, 2021, 27, 7000-7016.	1.7	7
24	Rational Design of RNA Editing Guide Strands: Cytidine Analogs at the Orphan Position. Journal of the American Chemical Society, 2021, 143, 6865-6876.	6.6	12
25	Trapping a cross-linked lysineâ€"tryptophan radical in the catalytic cycle of the radical SAM enzyme SuiB. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	29
26	Quantum Chemistry Calculations for Metabolomics. Chemical Reviews, 2021, 121, 5633-5670.	23.0	47
27	On the Mechanism of Auâ€Catalyzed Enynamideâ€yne Dehydroâ€Dielsâ€Alder Reactions: An Experimental and Computational Study. Chemistry - A European Journal, 2021, 27, 10637-10648.	1.7	5
28	Catalyst-Controlled Regiodivergence in Rearrangements of Indole-Based Onium Ylides. Journal of the American Chemical Society, 2021, 143, 9016-9025.	6.6	27
29	Comparison of (5 + 2) Cycloadditions Involving Oxidopyrylium and Oxidopyridinium Ions: Relative Reactivities. Journal of Organic Chemistry, 2021, 86, 8652-8659.	1.7	6
30	Melding of Experiment and Theory Illuminates Mechanisms of Metal-Catalyzed Rearrangements: Computational Approaches and Caveats. Synthesis, 2021, 53, 3639-3652.	1.2	3
31	Umpolung Strategy for Arene Câ^'H Etherification Leading to Functionalized Chromanes Enabled by I(III) Nâ€Ligated Hypervalent Iodine Reagents. Advanced Synthesis and Catalysis, 2021, 363, 4867-4875.	2.1	4
32	Mechanistic Insights into the Formation of the 6,10â€Bicyclic Eunicellane Skeleton by the Bacterial Diterpene Synthase Bnd4. Angewandte Chemie - International Edition, 2021, 60, 23159-23163.	7.2	15
33	Mechanistic Insights into the Formation of the 6,10â€Bicyclic Eunicellane Skeleton by the Bacterial Diterpene Synthase Bnd4. Angewandte Chemie, 2021, 133, 23343.	1.6	0
34	Drawing Polycyclic Molecules. ACS Omega, 2021, 6, 23008-23014.	1.6	2
35	Substituent Effects on the Basicity of Patriscabrin A and Lettucenin A: Evolution Favors the Aromatic?. ACS Omega, 2021, 6, 29685-29691.	1.6	2
36	Structure and Computational Basis for Backbone Rearrangement in Marine Oxasqualenoids. Journal of Organic Chemistry, 2021, 86, 2437-2446.	1.7	7

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37	Beyond transition state theoryâ€"Non-statistical dynamic effects for organic reactions. Advances in Physical Organic Chemistry, 2021, 55, 1-16.	0.5	5
38	Effects of Axial Solvent Coordination to Dirhodium Complexes on the Reactivity and Selectivity in Câ€"H Insertion Reactions: A Computational Study. Organometallics, 2021, 40, 4120-4132.	1.1	15
39	Lessons in Strain and Stability: Enantioselective Synthesis of (+)â€[5]â€Ladderanoic Acid. Angewandte Chemie, 2020, 132, 444-449.	1.6	17
40	Lessons in Strain and Stability: Enantioselective Synthesis of (+)â€[5]â€Ladderanoic Acid. Angewandte Chemie - International Edition, 2020, 59, 436-441.	7.2	41
41	Insight into the Mechanism of Phenylacetate Decarboxylase (PhdB), a Tolueneâ€Producing Glycyl Radical Enzyme. ChemBioChem, 2020, 21, 663-671.	1.3	14
42	Tipping the balance: theoretical interrogation of divergent extended heterolytic fragmentations. Chemical Science, 2020, 11, 2231-2242.	3.7	13
43	Solvent optimization and conformational flexibility effects on 1 H and 13 C NMR scaling factors. Magnetic Resonance in Chemistry, 2020, 58, 576-583.	1.1	13
44	Enantioselective synthesis of isochromans and tetrahydroisoquinolines by Câ€"H insertion of donor/donor carbenes. Chemical Science, 2020, 11, 494-498.	3.7	31
45	Interrogating chemical mechanisms in natural products biosynthesis using quantum chemical calculations. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2020, 10, e1453.	6.2	7
46	Potential for Ladderane (Bio)synthesis from Oligo-Cyclopropane Precursors. ACS Omega, 2020, 5, 26134-26140.	1.6	3
47	Effects of electrostatic drag on the velocity of hydrogen migration â€" pre- and post-transition state enthalpy/entropy compensation. Physical Chemistry Chemical Physics, 2020, 22, 26955-26960.	1.3	5
48	Crystal Structure and Mechanistic Molecular Modeling Studies ofMycobacterium tuberculosisDiterpene Cyclase Rv3377c. Biochemistry, 2020, 59, 4507-4515.	1.2	6
49	Bouncing off walls â€" widths of exit channels from shallow minima can dominate selectivity control. Chemical Science, 2020, 11, 9937-9944.	3.7	17
50	Exploiting the Potential of Meroterpenoid Cyclases to Expand the Chemical Space of Fungal Meroterpenoids. Angewandte Chemie, 2020, 132, 23980-23989.	1.6	9
51	Exploiting the Potential of Meroterpenoid Cyclases to Expand the Chemical Space of Fungal Meroterpenoids. Angewandte Chemie - International Edition, 2020, 59, 23772-23781.	7.2	28
52	Predicting in silico electron ionization mass spectra using quantum chemistry. Journal of Cheminformatics, 2020, 12, 63.	2.8	20
53	Construction of Two-Dimensional Potential Energy Surfaces of Reactions with Post-Transition-State Bifurcations. Journal of Chemical Theory and Computation, 2020, 16, 4050-4060.	2.3	15
54	Predicting Rearrangement-Competent Terpenoid Oxidation Levels. Journal of the American Chemical Society, 2020, 142, 6060-6065.	6.6	5

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55	Second order Jahnâ€“Teller interactions at unusually high molecular orbital energy separations. Dalton Transactions, 2020, 49, 5175-5182.	1.6	15
56	Hybrid Quantum Mechanics/Rosetta Modeling Mechanistic Study of a Terpene Synthase. Biophysical Journal, 2020, 118, 304a.	0.2	1
57	Competitive Reactivity of Tautomers in the Degradation of Organophosphates by Imidazole Derivatives. Chemistry - A European Journal, 2020, 26, 5017-5026.	1.7	9
58	From Decades to Minutes: Steps Toward the Structure of Strychnine 1910â€“1948 and the Application of Today's Technology. Angewandte Chemie, 2020, 132, 10790-10809.	1.6	4
59	From Decades to Minutes: Steps Toward the Structure of Strychnine 1910â€“1948 and the Application of Today's Technology. Angewandte Chemie - International Edition, 2020, 59, 10702-10721.	7.2	14
60	Nonclassical ammonium ions as intermediates in cinchona alkaloid rearrangements?. Chirality, 2020, 32, 484-488.	1.3	3
61	Development of potent inhibitors of the human microsomal epoxide hydrolase. European Journal of Medicinal Chemistry, 2020, 193, 112206.	2.6	3
62	Exploring Terpenoid Biosynthesis With Quantum Chemical Computations. , 2020, , 644-653.		7
63	Hacking Hydrogen. American Scientist, 2020, 108, 22.	0.1	0
64	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. Natural Product Reports, 2019, 36, 35-107.	5.2	92
65	Davisâ€“Beirut Reaction: A Photochemical BrÃ¸nsted Acid Catalyzed Route to N-Aryl 2H-Indazoles. Organic Letters, 2019, 21, 6058-6062.	2.4	15
66	A Redox Isomerization Strategy for Accessing Modular Azobenzene Photoswitches with Near Quantitative Bidirectional Photoconversion. Organic Letters, 2019, 21, 8765-8770.	2.4	8
67	Ex Vivo Analysis of Tryptophan Metabolism Using ¹⁹F NMR. ACS Chemical Biology, 2019, 14, 1866-1873.	1.6	5
68	Switching on a Nontraditional Enzymatic Baseâ€”Deprotonation by Serine in the ent-Kaurene Synthase from Bradyrhizobium japonicum. ACS Catalysis, 2019, 9, 8867-8871.	5.5	18
69	Synthesis of Spirobicyclic Pyrazoles by Intramolecular Dipolar Cycloadditions/[1s, 5s] Sigmatropic Rearrangements. Organic Letters, 2019, 21, 7209-7212.	2.4	9
70	Trapping and Electron Paramagnetic Resonance Characterization of the 5â€²dAdo^{â€¢} Radical in a Radical S-Adenosyl Methionine Enzyme Reaction with a Non-Native Substrate. ACS Central Science, 2019, 5, 1777-1785.	5.3	49
71	Pushing the limits of concertedness. A waltz of wandering carbocations. Chemical Science, 2019, 10, 2159-2170.	3.7	21
72	Formal [4 + 2] Cycloadditions of Anhydrides and Î±,Î²-Unsaturated N-Tosyl Ketimines. Organic Letters, 2019, 21, 1046-1049.	2.4	10

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73	Synthesis and Optoelectronic Properties of New Methoxy-Substituted Diketopyrrolopyrrole Polymers. ACS Omega, 2019, 4, 9427-9433.	1.6	10
74	Aqueous reactions of organic triplet excited states with atmospheric alkenes. Atmospheric Chemistry and Physics, 2019, 19, 5021-5032.	1.9	16
75	Computer-Aided Drug Design for Undergraduates. Journal of Chemical Education, 2019, 96, 920-925.	1.1	21
76	Accessing Multiple Classes of 2H-Indazoles: Mechanistic Implications for the Cadogan and Davisâ€“Beirut Reactions. Journal of the American Chemical Society, 2019, 141, 6247-6253.	6.6	23
77	Reconsidering the Structure of Serlyticin-A. Journal of Natural Products, 2019, 82, 3464-3468.	1.5	9
78	Correction to â€œPost-transition state bifurcations gain momentum â€“ current state of the fieldâ€• Pure and Applied Chemistry, 2019, 91, 159-159.	0.9	0
79	A problem in the structure assignment of acremolin C, which is most probably identical with acremolin B. Natural Product Research, 2019, 33, 3011-3015.	1.0	5
80	Diterpene Synthaseâ€Catalyzed Biosynthesis of Distinct Clerodane Stereoisomers. ChemBioChem, 2019, 20, 111-117.	1.3	13
81	Designing Reactions with Post-Transition-State Bifurcations: Asynchronous Nitrene Insertions into Câ€“C Ïƒ Bonds. CheM, 2019, 5, 227-236.	5.8	28
82	Wiggling and Jiggling. American Scientist, 2019, 107, 22.	0.1	5
83	Changing Face: A Key Residue for the Addition of Water by Sclareol Synthase. ACS Catalysis, 2018, 8, 3133-3137.	5.5	14
84	Predicting Productive Binding Modes for Substrates and Carbocation Intermediates in Terpene Synthasesâ€”Bornyl Diphosphate Synthase As a Representative Case. ACS Catalysis, 2018, 8, 3322-3330.	5.5	34
85	Prediction of ¹⁹F NMR Chemical Shifts for Fluorinated Aromatic Compounds. Journal of Organic Chemistry, 2018, 83, 3220-3225.	1.7	31
86	A Maze of Dyotropic Rearrangements and Triple Shifts: Carbocation Rearrangements Connecting Stemarene, Stemodene, Betaerdene, Aphidicolene, and Scopadulanol. Journal of Organic Chemistry, 2018, 83, 3780-3793.	1.7	16
87	Biosynthesis and Conformational Properties of the Irregular Sesquiterpenoids Isothapsadiene and Î²-Isothapsenol. Journal of Organic Chemistry, 2018, 83, 5724-5730.	1.7	2
88	Premutilin Synthase: Ring Rearrangement by a Class II Diterpene Cyclase. Organic Letters, 2018, 20, 1200-1202.	2.4	21
89	ACS Omega 2017: A Year-End Expression of Appreciation for the Fundamental Contributions of Our Reviewers. ACS Omega, 2018, 3, 595-607.	1.6	2
90	Synthesis and Structure Revision of Dichrocephonesâ€…A and B. Angewandte Chemie - International Edition, 2018, 57, 2419-2422.	7.2	34

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91	Synthesis and Structure Revision of Dichrocephonesâ€…A and B. Angewandte Chemie, 2018, 130, 2443-2446.	1.6	8
92	Coupled Electrocyclization/Prototropic Shift in the Biosynthesis of Crotinsulidane Diterpenoids. Journal of Organic Chemistry, 2018, 83, 1073-1076.	1.7	4
93	Using ¹H and ¹³C NMR chemical shifts to determine cyclic peptide conformations: a combined molecular dynamics and quantum mechanics approach. Physical Chemistry Chemical Physics, 2018, 20, 14003-14012.	1.3	30
94	Modeling Organic Reactions â€" General Approaches, Caveats, and Concerns. , 2018, , 1-29.		3
95	Diverged Plant Terpene Synthases Reroute the Carbocation Cyclization Path towards the Formation of Unprecedented 6/11/5 and 6/6/7/5 Sesterterpene Scaffolds. Angewandte Chemie - International Edition, 2018, 57, 1291-1295.	7.2	55
96	Diverged Plant Terpene Synthases Reroute the Carbocation Cyclization Path towards the Formation of Unprecedented 6/11/5 and 6/6/7/5 Sesterterpene Scaffolds. Angewandte Chemie, 2018, 130, 1305-1309.	1.6	19
97	The mechanism of the reaction between an aziridine and carbon dioxide with no added catalyst. Journal of Physical Organic Chemistry, 2018, 31, e3735.	0.9	14
98	Post-transition state bifurcations induce dynamical detours in Pummerer-like reactions. Chemical Science, 2018, 9, 8937-8945.	3.7	45
99	Dynamic Effects on Organic Reactions. , 2018, , .		1
100	Secondary Carbocations in the Biosynthesis of Pupukeanane Sesquiterpenes. Journal of Physical Chemistry A, 2018, 122, 8058-8061.	1.1	8
101	Rearrangement of Hydroxylated Pinene Derivatives to Fenchone-Type Frameworks: Computational Evidence for Dynamically-Controlled Selectivity. Journal of the American Chemical Society, 2018, 140, 9291-9298.	6.6	22
102	Nâ€"N Bond Formation between Primary Amines and Nitrosos: Direct Synthesis of 2-Substituted Indazolones with Mechanistic Insights. Organic Letters, 2018, 20, 4736-4739.	2.4	28
103	Oxidopyrylium-Alkene [5 + 2] Cycloaddition Conjugate Addition Cascade (C³) Sequences: Scope, Limitation, and Computational Investigations. Journal of Organic Chemistry, 2018, 83, 9818-9838.	1.7	19
104	Questions in natural products synthesis research that can (and cannot) be answered using computational chemistry. Chemical Society Reviews, 2018, 47, 7845-7850.	18.7	28
105	Biosynthesis of the microtubule-destabilizing diterpene pseudolaric acid B from golden larch involves an unusual diterpene synthase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 974-979.	3.3	21
106	Is a 1,4-Alkyl Shift Involved in the Biosynthesis of Ledol and Viridiflorol?. Journal of Organic Chemistry, 2017, 82, 3957-3959.	1.7	10
107	Bedeutung der inhÃrenten SubstratreaktivitÃt bei enzymvermittelten Cyclisierungen/Umlagerungen von Carbokationen. Angewandte Chemie, 2017, 129, 10172-10178.	1.6	33
108	Navigating Past a Fork in the Road: Carbocationâ^Ï€ Interactions Can Manipulate Dynamic Behavior of Reactions Facing Post-Transition-State Bifurcations. Journal of the American Chemical Society, 2017, 139, 7485-7493.	6.6	51

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109	Diastereoselective Base-Catalyzed Formal [4 + 2] Cycloadditions of N-Sulfonyl Imines and Cyclic Anhydrides. Organic Letters, 2017, 19, 2466-2469.	2.4	18
110	Synthesis of Benzodihydrofurans by Asymmetric Câ^'H Insertion Reactions of Donor/Donor Rhodium Carbenes. Chemistry - A European Journal, 2017, 23, 11843-11855.	1.7	43
111	Post-transition state bifurcations gain momentum â€“ current state of the field. Pure and Applied Chemistry, 2017, 89, 679-698.	0.9	127
112	Importance of Inherent Substrate Reactivity in Enzymeâ€Promoted Carbocation Cyclization/Rearrangements. Angewandte Chemie - International Edition, 2017, 56, 10040-10045.	7.2	124
113	Enantioselective Diels-Alder-lactamization organocascades employing a furan-based diene. Organic and Biomolecular Chemistry, 2017, 15, 3179-3183.	1.5	17
114	The Variediene-Forming Carbocation Cyclization/Rearrangement Cascade. Australian Journal of Chemistry, 2017, 70, 362.	0.5	18
115	Traversing Biosynthetic Carbocation Landscapes in the Total Synthesis of Andrastin and Terretonin Meroterpenes. Angewandte Chemie, 2017, 129, 12672-12676.	1.6	15
116	Bioinspired synthesis of pentacyclic onocerane triterpenoids. Chemical Science, 2017, 8, 8285-8290.	3.7	12
117	Elucidating Substrate Promiscuity within the FabI Enzyme Family. ACS Chemical Biology, 2017, 12, 2465-2473.	1.6	17
118	Diverting Reactive Intermediates Toward Unusual Chemistry: Unexpected Anthranil Products from Davisâ€“Beirut Reaction. Journal of Organic Chemistry, 2017, 82, 10875-10882.	1.7	11
119	Biomimetic Platinum-Promoted Polyene Polycyclizations: Influence of Alkene Substitution and Pre-cyclization Conformations. Journal of the American Chemical Society, 2017, 139, 11158-11164.	6.6	16
120	Pericyclic or Pseudopericyclic? The Case of an Allylic Transposition in the Synthesis of a Saccharin Derivative. Journal of Chemical Education, 2017, 94, 988-993.	1.1	7
121	Cyclols Revisited: Facile Synthesis of Mediumâ€Sized Cyclic Peptides. Chemistry - A European Journal, 2017, 23, 13319-13322.	1.7	46
122	Traversing Biosynthetic Carbocation Landscapes in the Total Synthesis of Andrastin and Terretonin Meroterpenes. Angewandte Chemie - International Edition, 2017, 56, 12498-12502.	7.2	69
123	Synthesis of Highly Stereodefined Tetrasubstituted Acyclic All-Carbon Olefins via a Syn-Elimination Approach. Organic Letters, 2017, 19, 6212-6215.	2.4	21
124	Systematic Functional Analysis of Active-Site Residues in <scp>l</scp>-Threonine Dehydrogenase from Thermoplasma volcanium. ACS Omega, 2017, 2, 3308-3314.	1.6	3
125	Unearthing a sesterterpene biosynthetic repertoire in the Brassicaceae through genome mining reveals convergent evolution. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6005-E6014.	3.3	102
126	Intramolecular Chirality Transfer [2 + 2] Cycloadditions of Allenoates and Alkenes. Organic Letters, 2017, 19, 3703-3706.	2.4	31

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127	Mechanism of a No-Metal-Added Heterocycloisomerization of Alkynylcyclopropylhydrazones: Synthesis of Cycloheptane-Fused Aminopyrroles Facilitated by Copper Salts at Trace Loadings. Journal of the American Chemical Society, 2017, 139, 10569-10577.	6.6	13
128	Putative biosynthetic cycloadditions en route to the diterpenoid (+)-chatancin. Tetrahedron, 2017, 73, 4227-4232.	1.0	6
129	Stereodivergent, Dielsâ€“Alder-initiated organocascades employing Î±,Î²-unsaturated acylammonium salts: scope, mechanism, and application. Chemical Science, 2017, 8, 1511-1524.	3.7	39
130	Cryptic post-transition state bifurcations that reduce the efficiency of lactone-forming Rh-carbenoid Câ€“H insertions. Chemical Science, 2017, 8, 1442-1449.	3.7	69
131	Viability of dodecahedrane-forming radical polycyclizations. Organic and Biomolecular Chemistry, 2017, 15, 1976-1979.	1.5	4
132	Application of Computational Chemical Shift Prediction Techniques to the Cereoanhydride Structure Problemâ€”Carboxylate Complications. Marine Drugs, 2017, 15, 171.	2.2	8
133	Dynamic behavior of rearranging carbocations â€“ implications for terpene biosynthesis. Beilstein Journal of Organic Chemistry, 2016, 12, 377-390.	1.3	79
134	Blocking Deprotonation with Retention of Aromaticity in a Plant entâ€Copalyl Diphosphate Synthase Leads to Product Rearrangement. Angewandte Chemie - International Edition, 2016, 55, 634-638.	7.2	61
135	Synthesis and Utility of Dihydropyridine Boronic Esters. Angewandte Chemie - International Edition, 2016, 55, 2205-2209.	7.2	54
136	Synthesis and Utility of Dihydropyridine Boronic Esters. Angewandte Chemie, 2016, 128, 2245-2249.	1.6	18
137	Using quantum chemical computations of NMR chemical shifts to assign relative configurations of terpenes from an engineered Streptomyces host. Journal of Antibiotics, 2016, 69, 534-540.	1.0	9
138	Speeding Up Sigmatropic Shiftsâ€”To Halve or to Hold. Accounts of Chemical Research, 2016, 49, 741-749.	7.6	33
139	The Importance of Methyl Positioning and Tautomeric Equilibria for Imidazole Nucleophilicity. Chemistry - A European Journal, 2016, 22, 15521-15528.	1.7	11
140	The chemical biology of the persulfide (RSSH)/perthiyl (RSSÂ·) redox couple and possible role in biological redox signaling. Free Radical Biology and Medicine, 2016, 101, 20-31.	1.3	89
141	Decarboxylation Facilitated by Carbocation Formation and Rearrangement during Steam Distillation of Vetiver Oil. Journal of Natural Products, 2016, 79, 2744-2748.	1.5	4
142	Does Nature Know Best? Pericyclic Reactions in the Daphniphyllum Alkaloid-Forming Cation Cascade. Organic Letters, 2016, 18, 4482-4484.	2.4	16
143	The catalytic effect of the <scp>NH</scp>₃ base on the chemical events in the caryoleneâ€forming carbocation cascade. Journal of Computational Chemistry, 2016, 37, 1068-1081.	1.5	8
144	Faster, Catalyst! React! React! Exploiting Computational Chemistry for Catalyst Development and Design. Accounts of Chemical Research, 2016, 49, 1079-1079.	7.6	29

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145	When To Let Goâ€"Diradical Intermediates from Zwitterionic Transition State Structures?. Journal of Organic Chemistry, 2016, 81, 5295-5302.	1.7	12
146	Toward Structural Correctness: Aquatolide and the Importance of 1D Proton NMR FID Archiving. Journal of Organic Chemistry, 2016, 81, 878-889.	1.7	36
147	Studies toward Australifungin. A Synthesis Dilemma of Regioselective Ketoâ€"Enol Tautomerization. Organic Letters, 2016, 18, 424-427.	2.4	8
148	Product Rearrangement from Altering a Single Residue in the Rice syn-Copalyl Diphosphate Synthase. Organic Letters, 2016, 18, 1060-1063.	2.4	40
149	Mechanism of Rh₂(II)-Catalyzed Indole Formation: The Catalyst Does Not Control Product Selectivity. Journal of the American Chemical Society, 2016, 138, 487-490.	6.6	53
150	The value of safety and practicality: Recommendations for training disabled students in the sciences with a focus on blind and visually impaired students in chemistry laboratories. Journal of Chemical Health and Safety, 2016, 23, 5-11.	1.1	18
151	A Fluorescent Adenosine Analogue as a Substrate for an Aâ€toâ€I RNA Editing Enzyme. Angewandte Chemie - International Edition, 2015, 54, 8713-8716.	7.2	30
152	Carbocations and the Complex Flavor and Bouquet of Wine: Mechanistic Aspects of Terpene Biosynthesis in Wine Grapes. Molecules, 2015, 20, 10781-10792.	1.7	54
153	The chemical biology of hydropersulfides (RSSH): Chemical stability, reactivity and redox roles. Archives of Biochemistry and Biophysics, 2015, 588, 15-24.	1.4	65
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