

Ashay Patel

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,048
citations

516710

16
h-index

454955

30
g-index

35
all docs

35
docs citations

35
times ranked

1190
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Dynamically Complex [6+4] and [4+2] Cycloadditions in the Biosynthesis of Spinosyn A. Journal of the American Chemical Society, 2016, 138, 3631-3634. | 13.7 | 116 |
| 2 | Mechanisms and Origins of Periselectivity of the Ambimodal [6 + 4] Cycloadditions of Tropone to Dimethylfulvene. Journal of the American Chemical Society, 2017, 139, 8251-8258. | 13.7 | 87 |
| 3 | Involvement of Lipocalin-like CghA in Decalin-Forming Stereoselective Intramolecular [4+2] Cycloaddition. ChemBioChem, 2015, 16, 2294-2298. | 2.6 | 80 |
| 4 | A carbonate-forming Baeyer-Villiger monooxygenase. Nature Chemical Biology, 2014, 10, 552-554. | 8.0 | 75 |
| 5 | Transannular [6 + 4] and Ambimodal Cycloaddition in the Biosynthesis of Heronamide A. Journal of the American Chemical Society, 2015, 137, 13518-13523. | 13.7 | 72 |
| 6 | A Torquoselective δ^6 Electrocyclization Approach to Reserpine Alkaloids. Organic Letters, 2012, 14, 5388-5391. | 4.6 | 66 |
| 7 | Influence of water and enzyme SpnF on the dynamics and energetics of the ambimodal [6+4]/[4+2] cycloaddition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E848-E855. | 7.1 | 57 |
| 8 | P450-Mediated Coupling of Indole Fragments To Forge Communesin and Unnatural Isomers. Journal of the American Chemical Society, 2016, 138, 4002-4005. | 13.7 | 51 |
| 9 | Stereoselective Synthesis of Dienyl-Carboxylate Building Blocks: Formal Synthesis of Inthomycin C. Organic Letters, 2013, 15, 3242-3245. | 4.6 | 49 |
| 10 | Does Nature Click? Theoretical Prediction of an Enzyme-Catalyzed Transannular 1,3-Dipolar Cycloaddition in the Biosynthesis of Lycojaponicumins A and B. Journal of the American Chemical Society, 2013, 135, 17638-17642. | 13.7 | 46 |
| 11 | Gating mechanism of elongating β^2 -ketoacyl-ACP synthases. Nature Communications, 2020, 11, 1727. | 12.8 | 44 |
| 12 | Structural and dynamical rationale for fatty acid unsaturation in <i>Escherichia coli</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6775-6783. | 7.1 | 41 |
| 13 | Interfacial plasticity facilitates high reaction rate of <i>E. coli</i> FAS malonyl-CoA:ACP transacylase, FabD. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24224-24233. | 7.1 | 31 |
| 14 | Synthesis of ent-ketorfanol via a C-H Alkenylation/Torquoselective δ^6 Electrocyclization Cascade. Angewandte Chemie - International Edition, 2015, 54, 12044-12048. | 13.8 | 30 |
| 15 | Elucidation of transient protein-protein interactions within carrier protein-dependent biosynthesis. Communications Biology, 2021, 4, 340. | 4.4 | 23 |
| 16 | Origins of 1,6-Stereoiduction in Torquoselective δ^6 Electrocyclizations. Journal of the American Chemical Society, 2013, 135, 4878-4883. | 13.7 | 20 |
| 17 | Terminal Substituent Effects on the Reactivity, Thermodynamics, and Stereoselectivity of the δ^6 Electrocyclization Cascades of 1,3,5,7-Tetraenes. Journal of Organic Chemistry, 2014, 79, 11370-11377. | 3.2 | 17 |
| 18 | Manipulating Protein-Protein Interactions in Nonribosomal Peptide Synthetase Type II Peptidyl Carrier Proteins. Biochemistry, 2017, 56, 5269-5273. | 2.5 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | An Unexpected Irelandâ€ˆClaisen Rearrangement Cascade During the Synthesis of the Tricyclic Core of Curcusone C: Mechanistic Elucidation by Trial-and-Error and Automatic Artificial Force-Induced Reaction (AFIR) Computations. <i>Journal of the American Chemical Society</i> , 2019, 141, 6995-7004. | 13.7 | 15 |
| 20 | Highly Torquoselective Electrocyclizations and Competing 1,7-Hydrogen Shifts of 1-Azatrienenes with Silyl Substitution at the Allylic Carbon. <i>Organic Letters</i> , 2015, 17, 2138-2141. | 4.6 | 14 |
| 21 | Modifying the Thioester Linkage Affects the Structure of the Acyl Carrier Protein. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10888-10892. | 13.8 | 14 |
| 22 | Structural Basis of Acyl-Carrier Protein Interactions in Fatty Acid and Polyketide Biosynthesis. , 2020, , 61-122. | | 14 |
| 23 | Mechanistic Probes for the Epimerization Domain of Nonribosomal Peptide Synthetases. <i>ChemBioChem</i> , 2019, 20, 147-152. | 2.6 | 12 |
| 24 | Transition State <i>Gauche</i> Effects Control the Torquoselectivities of the Electrocyclizations of Chiral 1-Azatrienenes. <i>Journal of Organic Chemistry</i> , 2015, 80, 11888-11894. | 3.2 | 11 |
| 25 | Distortion, Tether, and Entropy Effects on Transannular Dielsâ€ˆAlder Cycloaddition Reactions of 10â€ˆ18-Membered Rings. <i>Journal of Organic Chemistry</i> , 2015, 80, 11039-11047. | 3.2 | 9 |
| 26 | Effect of donor atom identity on metal-binding pharmacophore coordination. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 605-613. | 2.6 | 8 |
| 27 | Reactivity and Stereoselectivity of 6I€ and Nazarov Electrocyclizations of Bridged Bicyclic Trienes and Divinyl Ketones. <i>Journal of Organic Chemistry</i> , 2015, 80, 2790-2795. | 3.2 | 6 |
| 28 | Effect of heterocycle content on metal binding isostere coordination. <i>Chemical Science</i> , 2020, 11, 6907-6914. | 7.4 | 6 |
| 29 | Modifying the Thioester Linkage Affects the Structure of the Acyl Carrier Protein. <i>Angewandte Chemie</i> , 2019, 131, 11004-11008. | 2.0 | 3 |
| 30 | Daedal Facets of Splice Modulator Optimization. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 1070-1072. | 2.8 | 2 |