Ashay Patel

List of Publications by Year
in descending order

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	Elucidation of transient protein-protein interactions within carrier protein-dependent biosynthesis. Communications Biology, 2021, 4, 340.	4.4	23
2	Interfacial plasticity facilitates high reaction rate of E. coli 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
3	Effect of heterocycle content on metal binding isostere coordination. Chemical Science, 2020, 11, 6907-6914.	7.4	6
4	Gating mechanism of elongating Î²-ketoacyl-ACP synthases. Nature Communications, 2020, 11, 1727.	12.8	44
5	Structural Basis of Acyl-Carrier Protein Interactions in Fatty Acid and Polyketide Biosynthesis. , 2020, , 61-122.		14
6	Modifying the Thioester Linkage Affects the Structure of the Acyl Carrier Protein. Angewandte Chemie, 2019, 131, 11004-11008.	2.0	3
7	Modifying the Thioester Linkage Affects the Structure of the Acyl Carrier Protein. Angewandte Chemie - International Edition, 2019, 58, 10888-10892.	13.8	14
8	An Unexpected Irelandâ€“Claisen 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. Journal of the American Chemical Society, 2019, 141, 6995-7004.	13.7	15
9	Structural and dynamical rationale for fatty acid unsaturation in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6775-6783.	7.1	41
10	Mechanistic Probes for the Epimerization Domain of Nonribosomal Peptide Synthetases. ChemBioChem, 2019, 20, 147-152.	2.6	12
11	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
12	Daedal Facets of Splice Modulator Optimization. ACS Medicinal Chemistry Letters, 2018, 9, 1070-1072.	2.8	2
13	Effect of donor atom identity on metal-binding pharmacophore coordination. Journal of Biological Inorganic Chemistry, 2017, 22, 605-613.	2.6	8
14	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
15	Manipulating Proteinâ€“Protein Interactions in Nonribosomal Peptide Synthetase Type II Peptidyl Carrier Proteins. Biochemistry, 2017, 56, 5269-5273.	2.5	16
16	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
17	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
18	Distortion, Tether, and Entropy Effects on Transannular Dielsâ€“Alder Cycloaddition Reactions of 10â€“18-Membered Rings. Journal of Organic Chemistry, 2015, 80, 11039-11047.	3.2	9

#	Article	IF	Citations
19	Synthesis of entâ€Ketorfanol via a Câ€“H Alkenylation/Torquoselective 6Ï€ Electrocyclization Cascade. Angewandte Chemie - International Edition, 2015, 54, 12044-12048.	13.8	30
20	Involvement of Lipocalinâ€like CghA in Decalinâ€Forming Stereoselective Intramolecular [4+2] Cycloaddition. ChemBioChem, 2015, 16, 2294-2298.	2.6	80
21	Transition State Gauche Effects Control the Torquoselectivities of the Electrocyclizations of Chiral 1-Azatrienes. Journal of Organic Chemistry, 2015, 80, 11888-11894.	3.2	11
22	Reactivity and Stereoselectivity of 6Ï€ and Nazarov Electrocyclizations of Bridged Bicyclic Trienes and Divinyl Ketones. Journal of Organic Chemistry, 2015, 80, 2790-2795.	3.2	6
23	Highly Torquoselective Electrocyclizations and Competing 1,7-Hydrogen Shifts of 1-Azatrienes with Silyl Substitution at the Allylic Carbon. Organic Letters, 2015, 17, 2138-2141.	4.6	14
24	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
25	Terminal Substituent Effects on the Reactivity, Thermodynamics, and Stereoselectivity of the 8Ï€â€“6Ï€ Electrocyclization Cascades of 1,3,5,7-Tetraenes. Journal of Organic Chemistry, 2014, 79, 11370-11377.	3.2	17
26	A carbonate-forming Baeyer-Villiger monooxygenase. Nature Chemical Biology, 2014, 10, 552-554.	8.0	75
27	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
28	Stereoselective Synthesis of Dienyl-Carboxylate Building Blocks: Formal Synthesis of Inthomycin C. Organic Letters, 2013, 15, 3242-3245.	4.6	49
29	Origins of 1,6-Stereoinduction in Torquoselective 6Ï€ Electrocyclizations. Journal of the American Chemical Society, 2013, 135, 4878-4883.	13.7	20
30	A Torquoselective 6Ï€ Electrocyclization Approach to Reserpine Alkaloids. Organic Letters, 2012, 14, 5388-5391.	4.6	66