

Adrian Romero-Rivera

List of Publications by Year in descending order

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1102
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#	ARTICLE	IF	CITATIONS
1	Complex Loop Dynamics Underpin Activity, Specificity, and Evolvability in the (Î²Î±) ₈ Barrel Enzymes of Histidine and Tryptophan Biosynthesis. <i>Jacs Au</i> , 2022, 2, 943-960.	3.6	10
2	Heme-binding enables allosteric modulation in an ancient TIM-barrel glycosidase. <i>Nature Communications</i> , 2021, 12, 380.	5.8	20
3	Computational NMR Spectra of β -Benzynes and Stable Guests and Their Hemiacarceplexes. <i>Chemistry - A European Journal</i> , 2020, 26, 2626-2634.	1.7	4
4	Modeling the Role of a Flexible Loop and Active Site Side Chains in Hydride Transfer Catalyzed by Glycerol-3-phosphate Dehydrogenase. <i>ACS Catalysis</i> , 2020, 10, 11253-11267.	5.5	14
5	Enhancing a <i>de novo</i> enzyme activity by computationally-focused ultra-low-throughput screening. <i>Chemical Science</i> , 2020, 11, 6134-6148.	3.7	24
6	Regioselective Synthesis and Characterization of Tris- and Tetra-Prato Adducts of M ₃ N@C ₈₀ (M = Y, Tj ETQq0 0 0 rgBT /Overlock 10 Tf	6.6	14
7	Intrinsic enzymatic properties modulate the self-propulsion of micromotors. <i>Nature Communications</i> , 2019, 10, 2826.	5.8	126
8	Structures of Gd ₃ N@C ₈₀ Prato Bis-Adducts: Crystal Structure, Thermal Isomerization, and Computational Study. <i>Journal of the American Chemical Society</i> , 2019, 141, 10988-10993.	6.6	16
9	Site-Selectivity of Prato Additions to C ₇₀ : Experimental and Theoretical Studies of a New Thermodynamic Product at the <i>dd</i> -[5,6]-Junction. <i>Organic Letters</i> , 2019, 21, 5162-5166.	2.4	13
10	Improved Electro- and Photocatalytic Water Reduction by Confined Cobalt Catalysts in Streptavidin. <i>ACS Catalysis</i> , 2019, 9, 5837-5846.	5.5	28
11	Exploring the Conversion of a <i>d</i> -Sialic Acid Aldolase into a <i>l</i> -KDO Aldolase. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2603-2608.	1.2	4
12	Role of conformational dynamics in the evolution of novel enzyme function. <i>Chemical Communications</i> , 2018, 54, 6622-6634.	2.2	123
13	Exploring the reversal of enantioselectivity on a zinc-dependent alcohol dehydrogenase. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4122-4129.	1.5	36
14	Inducing high activity of a thermophilic enzyme at ambient temperatures by directed evolution. <i>Chemical Communications</i> , 2017, 53, 9454-9457.	2.2	41
15	Role of Conformational Dynamics in the Evolution of Retro-Aldolase Activity. <i>ACS Catalysis</i> , 2017, 7, 8524-8532.	5.5	103
16	Computational tools for the evaluation of laboratory-engineered biocatalysts. <i>Chemical Communications</i> , 2017, 53, 284-297.	2.2	84
17	Reactivity of an Fe ^{IV} -Oxo Complex with Protons and Oxidants. <i>Journal of the American Chemical Society</i> , 2016, 138, 13143-13146.	6.6	45
18	The Frozen Cage Model: A Computationally Low-Cost Tool for Predicting the Exohedral Regioselectivity of Cycloaddition Reactions Involving Endohedral Metallofullerenes. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1671-1683.	2.3	18