

# Javier Iglesias-Fernandez

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,229  
citations

471371

17  
h-index

395590

33  
g-index

37  
all docs

37  
docs citations

37  
times ranked

2335  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the molecular determinants of thermal stability in halohydrin dehalogenase HheD2. FEBS Journal, 2021, 288, 4683-4701.	2.2	5
2	<i>In Silico</i> Identification and Experimental Validation of Distal Activity-Enhancing Mutations in Tryptophan Synthase. ACS Catalysis, 2021, 11, 13733-13743.	5.5	30
3	Mutational Analysis of Linalool Dehydratase Isomerase Suggests That Alcohol and Alkene Transformations Are Catalyzed Using Noncovalent Mechanisms. ACS Catalysis, 2020, 10, 11136-11146.	5.5	4
4	Conformational Landscapes of Halohydrin Dehalogenases and Their Accessible Active Site Tunnels. Catalysts, 2020, 10, 1403.	1.6	9
5	Deciphering the Allosterically Driven Conformational Ensemble in Tryptophan Synthase Evolution. Journal of the American Chemical Society, 2019, 141, 13049-13056.	6.6	49
6	Multivalent Ligands with Tailor-Made Anion Binding Motif as Stabilizers of Protein-Protein Interactions. ChemBioChem, 2019, 20, 2921-2926.	1.3	13
7	Hidden Conformations in <i>Aspergillus niger</i> Monoamine Oxidase are Key for Catalytic Efficiency. Angewandte Chemie - International Edition, 2019, 58, 3097-3101.	7.2	18
8	Hidden Conformations in <i>Aspergillus niger</i> Monoamine Oxidase are Key for Catalytic Efficiency. Angewandte Chemie, 2019, 131, 3129-3133.	1.6	0
9	Exploring the Conversion of a Sialic Acid Aldolase into a KDO Aldolase. European Journal of Organic Chemistry, 2018, 2018, 2603-2608.	1.2	4
10	A Multiperspective Approach to Solvent Regulation of Enzymatic Activity: HMG-CoA Reductase. ChemBioChem, 2018, 19, 153-158.	1.3	3
11	Palladium-mediated enzyme activation suggests multiphase initiation of glycogenesis. Nature, 2018, 563, 235-240.	13.7	42
12	Role of conformational dynamics in the evolution of novel enzyme function. Chemical Communications, 2018, 54, 6622-6634.	2.2	123
13	A front-face 'S <sub>N</sub> I synthase' engineered from a retaining 'double-S <sub>N</sub> 2' hydrolase. Nature Chemical Biology, 2017, 13, 874-881.	3.9	22
14	Membrane Phase-Dependent Occlusion of Intramolecular GLUT1 Cavities Demonstrated by Simulations. Biophysical Journal, 2017, 112, 1176-1184.	0.2	12
15	The reaction mechanism of retaining glycosyltransferases. Biochemical Society Transactions, 2016, 44, 51-60.	1.6	45
16	Evidence for a Boat Conformation at the Transition State of GH76 $\alpha$ -1,6-Mannanases: Key Enzymes in Bacterial and Fungal Mannoprotein Metabolism. Angewandte Chemie - International Edition, 2015, 54, 5378-5382.	7.2	40
17	The complete conformational free energy landscape of $\beta$ -xylose reveals a two-fold catalytic itinerary for $\beta$ -xylosyltransferases. Chemical Science, 2015, 6, 1167-1177.	3.7	44
18	Dynamic interplay between catalytic and lectin domains of GalNAc-transferases modulates protein O-glycosylation. Nature Communications, 2015, 6, 6937.	5.8	77

#	ARTICLE	IF	CITATIONS
19	Binding of azole drugs to heme: A combined MS/MS and computational approach. <i>Polyhedron</i> , 2015, 90, 245-251.	1.0	7
20	Molecular Dynamics Simulations and Neutron Reflectivity as an Effective Approach To Characterize Biological Membranes and Related Macromolecular Assemblies. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4875-4884.	2.3	22
21	Surfactin at the Water/Air Interface and in Solution. <i>Langmuir</i> , 2015, 31, 11097-11104.	1.6	16
22	Privateer: software for the conformational validation of carbohydrate structures. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 833-834.	3.6	301
23	A Single Glycosidase Harnesses Different Pyranoside Ring Transition State Conformations for Hydrolysis of Mannosides and Glucosides. <i>ACS Catalysis</i> , 2015, 5, 6041-6051.	5.5	22
24	Substrate-Guided Front-Face Reaction Revealed by Combined Structural Snapshots and Metadynamics for the Polypeptide <i>N</i> -Acetylgalactosaminyltransferase...2. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8206-8210.	7.2	80
25	Combined Inhibitor Free-Energy Landscape and Structural Analysis Reports on the Mannosidase Conformational Coordinate. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1087-1091.	7.2	39
26	Enantioselective Preparation of $\gamma$ -Valerolactones with Horse Liver Alcohol Dehydrogenase. <i>ChemCatChem</i> , 2014, 6, 977-980.	1.8	15
27	Structural analysis and insights into the glycon specificity of the rice GH1 Os7BGlu26 $\beta$ -D-mannosidase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 2124-2135.	2.5	11
28	Innen- und Titelbild: The Reaction Coordinate of a Bacterial GH47 $\beta$ -Mannosidase: A Combined Quantum Mechanical and Structural Approach ( <i>Angew. Chem.</i> 44/2012). <i>Angewandte Chemie</i> , 2012, 124, 11333-11333.	1.6	0
29	The Reaction Coordinate of a Bacterial GH47 $\beta$ -Mannosidase: A Combined Quantum Mechanical and Structural Approach. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10997-11001.	7.2	57
30	Catalytic Itinerary in 1,3-1,4- $\beta$ -Glucanase Unraveled by QM/MM Metadynamics. Charge Is Not Yet Fully Developed at the Oxocarbenium Ion-like Transition State. <i>Journal of the American Chemical Society</i> , 2011, 133, 20301-20309.	6.6	86