

# Davide Mercadante

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,345  
citations

471509

17  
h-index

552781

26  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2098  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasticity of an Ultrafast Interaction between Nucleoporins and Nuclear Transport Receptors. <i>Cell</i> , 2015, 163, 734-745.	28.9	255
2	Decoupling of size and shape fluctuations in heteropolymeric sequences reconciles discrepancies in SAXS vs. FRET measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6342-E6351.	7.1	195
3	Bovine $\beta$ -Lactoglobulin Is Dimeric Under Imitative Physiological Conditions: Dissociation Equilibrium and Rate Constants over the pH Range of 2.5–7.5. <i>Biophysical Journal</i> , 2012, 103, 303-312.	0.5	138
4	Structural and mechanistic insights into mechanoactivation of focal adhesion kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6766-6774.	7.1	90
5	CONAN: A Tool to Decode Dynamical Information from Molecular Interaction Maps. <i>Biophysical Journal</i> , 2018, 114, 1267-1273.	0.5	82
6	A proline switch explains kinetic heterogeneity in a coupled folding and binding reaction. <i>Nature Communications</i> , 2018, 9, 3332.	12.8	81
7	Kirkwood's Buff Approach Rescues Overcollapse of a Disordered Protein in Canonical Protein Force Fields. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7975-7984.	2.6	70
8	Combined Experimental and Computational Approaches Reveal Distinct pH Dependence of Pectin Methylesterase Inhibitors. <i>Plant Physiology</i> , 2017, 173, 1075-1093.	4.8	48
9	Origin of Orthogonality of Strain-Promoted Click Reactions. <i>Chemistry - A European Journal</i> , 2015, 21, 12431-12435.	3.3	44
10	Two Differential Binding Mechanisms of FG-Nucleoporins and Nuclear Transport Receptors. <i>Cell Reports</i> , 2018, 22, 3660-3671.	6.4	41
11	Release of linker histone from the nucleosome driven by polyelectrolyte competition with a disordered protein. <i>Nature Chemistry</i> , 2022, 14, 224-231.	13.6	37
12	A fast recoiling silk-like elastomer facilitates nanosecond nematocyst discharge. <i>BMC Biology</i> , 2015, 13, 3.	3.8	34
13	Structure and Properties of a Non-processive, Salt-requiring, and Acidophilic Pectin Methylesterase from <i>Aspergillus niger</i> Provide Insights into the Key Determinants of Processivity Control. <i>Journal of Biological Chemistry</i> , 2016, 291, 1289-1306.	3.4	33
14	Substrate Dynamics in Enzyme Action: Rotations of Monosaccharide Subunits in the Binding Groove are Essential for Pectin Methylesterase Processivity. <i>Biophysical Journal</i> , 2013, 104, 1731-1739.	0.5	27
15	Probing the Paradigm of Promiscuity for $N$ -Heterocyclic Carbene Complexes and their Protein Adduct Formation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19928-19932.	13.8	24
16	Sampling Long- versus Short-Range Interactions Defines the Ability of Force Fields To Reproduce the Dynamics of Intrinsically Disordered Proteins. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3964-3974.	5.3	22
17	Processive Pectin Methylesterases: The Role of Electrostatic Potential, Breathing Motions and Bond Cleavage in the Rectification of Brownian Motions. <i>PLoS ONE</i> , 2014, 9, e87581.	2.5	21
18	Structural and dynamical characterization of the pH-dependence of the pectin methylesterase-pectin methylesterase inhibitor complex. <i>Journal of Biological Chemistry</i> , 2017, 292, 21538-21547.	3.4	19

#	ARTICLE	IF	CITATIONS
19	Minicollagen cysteine-rich domains encode distinct modes of polymerization to form stable nematocyst capsules. <i>Scientific Reports</i> , 2016, 6, 25709.	3.3	18
20	New insights into the specificity and processivity of two novel pectinases from <i>Verticillium dahliae</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 176, 165-176.	7.5	15
21	Î±-Synuclein plasma membrane localization correlates with cellular phosphatidylinositol polyphosphate levels. <i>ELife</i> , 2021, 10, .	6.0	14
22	Molecular Dynamics Simulations Illuminate the Role of Counterion Condensation in the Electrophoretic Transport of Homogalacturonans. <i>Biomacromolecules</i> , 2017, 18, 505-516.	5.4	13
23	The Cell Wall Arabinose-Deficient <i>Arabidopsis thaliana</i> Mutant <i>mur5</i> Encodes a Defective Allele of <i>REVERSIBLY GLYCOSYLATED POLYPEPTIDE2</i> . <i>Plant Physiology</i> , 2016, 171, 1905-1920.	4.8	5
24	Mechanical force can enhance c-Src kinase activity by impairing autoinhibition. <i>Biophysical Journal</i> , 2022, 121, 684-691.	0.5	5
25	On the electrophoretic mobilities of partially charged oligosaccharides as a function of charge patterning and degree of polymerization. <i>Electrophoresis</i> , 2018, 39, 1497-1503.	2.4	2
26	Probing the Paradigm of Promiscuity for Nâ€Heterocyclic Carbene Complexes and their Protein Adduct Formation. <i>Angewandte Chemie</i> , 2021, 133, 20081-20085.	2.0	1
27	Rescuing the Over-Collapse of Intrinsically Disordered Proteins using a Force Field Derived by a New Paradigm. <i>Biophysical Journal</i> , 2016, 110, 556a.	0.5	0
28	Advancements in the Understanding of Pectin Methyltransferase Enzymes and Their Inhibitors for Use in Food Science Applications. , 2019, , 202-208.		0
29	Intrinsically Disordered Proteins: Polymers Without Structure but With Great Potential for Applications in Food Science. , 2019, , 134-140.		0