

Giulia Palermo

List of Publications by Year in descending order

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69
papers

2,718
citations

172457

29
h-index

197818

49
g-index

75
all docs

75
docs citations

75
times ranked

2886
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and dynamic insights into the HNH nuclease of divergent Cas9 species. <i>Journal of Structural Biology</i> , 2022, 214, 107814.	2.8	8
2	Multi-microsecond molecular dynamics unveils the mechanism of DNA traversal within CRISPR-Cas12a. <i>Biophysical Journal</i> , 2022, 121, 322a.	0.5	0
3	Emerging Methods and Applications to Decrypt Allosteric in Proteins and Nucleic Acids. <i>Journal of Molecular Biology</i> , 2022, 434, 167518.	4.2	18
4	Structural Basis for Reduced Dynamics of Three Engineered HNH Endonuclease Lys-to-Ala Mutants for the Clustered Regularly Interspaced Short Palindromic Repeat (CRISPR)-Associated 9 (CRISPR/Cas9) Enzyme. <i>Biochemistry</i> , 2022, 61, 785-794.	2.5	12
5	Celebrating Women of Color in Computational Chemistry. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 3133-3134.	5.4	0
6	Enhancement of CRISPR/Cas12a <i>trans</i> -cleavage activity using hairpin DNA reporters. <i>Nucleic Acids Research</i> , 2022, 50, 8377-8391.	14.5	41
7	Dynamics and mechanisms of CRISPR-Cas9 through the lens of computational methods. <i>Current Opinion in Structural Biology</i> , 2022, 75, 102400.	5.7	14
8	Establishing the allosteric mechanism in <i>CRISPR-Cas9</i> . <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, e1503.	14.6	35
9	Folding upon Repair DNA Nanoswitches for Monitoring the Activity of DNA Repair Enzymes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7283-7289.	13.8	27
10	Cooperative Dynamics of REC-Nuc Lobes Prime Cas12a for DNA Processing. <i>Biophysical Journal</i> , 2021, 120, 16a-17a.	0.5	0
11	Folding upon Repair DNA Nanoswitches for Monitoring the Activity of DNA Repair Enzymes. <i>Angewandte Chemie</i> , 2021, 133, 7359-7365.	2.0	10
12	Role of Electrostatic Hotspots in the Selectivity of Complement Control Proteins Toward Human and Bovine Complement Inhibition. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 618068.	3.5	1
13	Gaussian accelerated molecular dynamics: Principles and applications. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, e1521.	14.6	127
14	Systems Biology Modeling of the Complement System Under Immune Susceptible Pathogens. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	4
15	Cover Image, Volume 11, Issue 3. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, e1532.	14.6	0
16	Molecular Dynamics to Predict Cryo-EM: Capturing Transitions and Short-Lived Conformational States of Biomolecules. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 641208.	3.5	18
17	Controlled Trafficking of Multiple and Diverse Cations Prompts Nucleic Acid Hydrolysis. <i>ACS Catalysis</i> , 2021, 11, 8786-8797.	11.2	8
18	Frontiers of metal-coordinating drug design. <i>Expert Opinion on Drug Discovery</i> , 2021, 16, 497-511.	5.0	28

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19	Enhanced specificity mutations perturb allosteric signaling in CRISPR-Cas9. <i>ELife</i> , 2021, 10, .	6.0	27
20	Allosteric Motions of the CRISPR-Cas9 HNH Nuclease Probed by NMR and Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2020, 142, 1348-1358.	13.7	78
21	NMR and computational methods for molecular resolution of allosteric pathways in enzyme complexes. <i>Biophysical Reviews</i> , 2020, 12, 155-174.	3.2	35
22	Fighting COVID-19 Using Molecular Dynamics Simulations. <i>ACS Central Science</i> , 2020, 6, 1654-1656.	11.3	50
23	Editorial: Multiscale Modeling From Macromolecules to Cell: Opportunities and Challenges of Biomolecular Simulations. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 194.	3.5	8
24	Catalytic Mechanism of Non-Target DNA Cleavage in CRISPR-Cas9 Revealed by <i>Ab Initio</i> Molecular Dynamics. <i>ACS Catalysis</i> , 2020, 10, 13596-13605.	11.2	63
25	Molecular Dynamics Reveals a DNA-Induced Dynamic Switch Triggering Activation of CRISPR-Cas12a. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 6427-6437.	5.4	43
26	Mapping the Structural and Dynamic Determinants of pH-Sensitive Heparin Binding to Granulocyte Macrophage Colony Stimulating Factor. <i>Biochemistry</i> , 2020, 59, 3541-3553.	2.5	4
27	Spontaneous Embedding of DNA Mismatches Within the RNA:DNA Hybrid of CRISPR-Cas9. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 39.	3.5	32
28	Faces of Contemporary CryoEM Information and Modeling. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2407-2409.	5.4	1
29	Factor H-Inspired Design of Peptide Biomarkers of the Complement C3d Protein. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 1054-1059.	2.8	3
30	Structure and Dynamics of the Acyl Chains in the Membrane Trafficking and Enzymatic Processing of Lipids. <i>Accounts of Chemical Research</i> , 2019, 52, 3087-3096.	15.6	35
31	Dissecting Structure and Function of DNA-RNA Hybrids. <i>CheM</i> , 2019, 5, 1364-1366.	11.7	5
32	Disclosing the Impact of Carcinogenic SF3b Mutations on Pre-mRNA Recognition Via All-Atom Simulations. <i>Biomolecules</i> , 2019, 9, 633.	4.0	23
33	Women Make COMP: Mentoring the Next Generation of Women in Computational Chemistry. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4061-4062.	5.4	3
34	Frontiers in CryoEM Modeling. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3091-3093.	5.4	2
35	Deciphering Off-Target Effects in CRISPR-Cas9 through Accelerated Molecular Dynamics. <i>ACS Central Science</i> , 2019, 5, 651-662.	11.3	99
36	Understanding the mechanistic basis of non-coding RNA through molecular dynamics simulations. <i>Journal of Structural Biology</i> , 2019, 206, 267-279.	2.8	37

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37	The invisible dance of CRISPR-Cas9. <i>Physics Today</i> , 2019, 72, 30-36.	0.3	10
38	Allostery in Its Many Disguises: From Theory to Applications. <i>Structure</i> , 2019, 27, 566-578.	3.3	285
39	Structure and Dynamics of the CRISPR-Cas9 Catalytic Complex. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 2394-2406.	5.4	59
40	Key role of the REC lobe during CRISPR-Cas9 activation by "sensing", "regulating", and "locking" the catalytic HNH domain. <i>Quarterly Reviews of Biophysics</i> , 2018, 51, .	5.7	79
41	A PAM-Induced Signalling Activates the Communication between HNH and RUVF in CRISPR-Cas9. <i>Biophysical Journal</i> , 2018, 114, 250a.	0.5	0
42	All-atom simulations disentangle the functional dynamics underlying gene maturation in the intron lariat spliceosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6584-6589.	7.1	59
43	Allosteric cross-talk in chromatin can mediate drug-drug synergy. <i>Nature Communications</i> , 2017, 8, 14860.	12.8	61
44	CRISPR-Cas9: Computational Insights Toward Improved Genome Editing. <i>Biophysical Journal</i> , 2017, 112, 72a.	0.5	0
45	Development of Site-Specific Mg ²⁺ -RNA Force Field Parameters: A Dream or Reality? Guidelines from Combined Molecular Dynamics and Quantum Mechanics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 340-352.	5.3	51
46	Computational Characterization of the Dependence of Halide Perovskite Effective Masses on Chemical Composition and Structure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23886-23895.	3.1	38
47	Protospacer Adjacent Motif-Induced Allostery Activates CRISPR-Cas9. <i>Journal of the American Chemical Society</i> , 2017, 139, 16028-16031.	13.7	104
48	CRISPR-Cas9 conformational activation as elucidated from enhanced molecular simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7260-7265.	7.1	133
49	An Organometallic Compound which Exhibits a DNA Topology-Dependent One-Stranded Intercalation Mode. <i>Angewandte Chemie</i> , 2016, 128, 7567-7570.	2.0	0
50	Molecular Mechanism of Chromatin Targeting by a Potent Anticancer Agent Acting at the Nucleosome Core Particle. <i>Biophysical Journal</i> , 2016, 110, 68a-69a.	0.5	0
51	The Molecular Basis for Dual Fatty Acid Amide Hydrolase (FAAH)/Cyclooxygenase (COX) Inhibition. <i>ChemMedChem</i> , 2016, 11, 1252-1258.	3.2	33
52	Fighting Cancer with Transition Metal Complexes: From Naked DNA to Protein and Chromatin Targeting Strategies. <i>ChemMedChem</i> , 2016, 11, 1199-1210.	3.2	104
53	Valence and conduction band tuning in halide perovskites for solar cell applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15997-16002.	10.3	132
54	Striking Plasticity of CRISPR-Cas9 and Key Role of Non-target DNA, as Revealed by Molecular Simulations. <i>ACS Central Science</i> , 2016, 2, 756-763.	11.3	103

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55	Who Activates the Nucleophile in Ribozyme Catalysis? An Answer from the Splicing Mechanism of Group II Introns. <i>Journal of the American Chemical Society</i> , 2016, 138, 10374-10377.	13.7	79
56	An Organometallic Compound which Exhibits a DNA Topology-Dependent One-Stranded Intercalation Mode. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7441-7444.	13.8	21
57	Computational Chemistry for Drug Discovery. , 2016, , 611-625.		1
58	Anandamide Hydrolysis in FAAH Reveals a Dual Strategy for Efficient Enzyme-Assisted Amide Bond Cleavage via Nitrogen Inversion. <i>Journal of Physical Chemistry B</i> , 2015, 119, 789-801.	2.6	36
59	Catalytic Metal Ions and Enzymatic Processing of DNA and RNA. <i>Accounts of Chemical Research</i> , 2015, 48, 220-228.	15.6	130
60	An optimized polyamine moiety boosts the potency of human type II topoisomerase poisons as quantified by comparative analysis centered on the clinical candidate F14512. <i>Chemical Communications</i> , 2015, 51, 14310-14313.	4.1	32
61	Molecular Mechanism of Ruthenium and Gold Anticancer Agents in the Allosteric Regulation of the Histone Proteins of Chromatin. <i>Biophysical Journal</i> , 2015, 108, 59a.	0.5	1
62	Computational insights into function and inhibition of fatty acid amide hydrolase. <i>European Journal of Medicinal Chemistry</i> , 2015, 91, 15-26.	5.5	40
63	Computational Chemistry for Drug Discovery. , 2015, , 1-15.		8
64	Keys to Lipid Selection in Fatty Acid Amide Hydrolase Catalysis: Structural Flexibility, Gating Residues and Multiple Binding Pockets. <i>PLoS Computational Biology</i> , 2015, 11, e1004231.	3.2	31
65	Wagging the Tail: Essential Role of Substrate Flexibility in FAAH Catalysis. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1202-1213.	5.3	24
66	Molecular Simulations Highlight the Role of Metals in Catalysis and Inhibition of Type II Topoisomerase. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 857-862.	5.3	45
67	Covalent Inhibitors of Fatty Acid Amide Hydrolase: A Rationale for the Activity of Piperidine and Piperazine Aryl Ureas. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 6612-6623.	6.4	43
68	Pushing the Frontiers of First-Principles Based Computer Simulations of Chemical and Biological Systems. <i>Chimia</i> , 2011, 65, 667.	0.6	22
69	Effect of Electronegative Substituents and Angular Dependence on the Heteronuclear Spin-Spin Coupling Constant J_{H} : An Empirical Prediction Equation Derived by Density Functional Theory Calculations. <i>Journal of Organic Chemistry</i> , 2010, 75, 1982-1991.	3.2	50