Gregory L Dignon

List of Publications by Year
in descending order

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19	3,636	471509	794594
papers	citations	17 h-index	19 g-index

26	26	26	2347
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Accelerating Protein Folding Molecular Dynamics Using Inter-Residue Distances from Machine Learning Servers. Journal of Chemical Theory and Computation, 2022, 18, 1929-1935.	5.3	8
2	A predictive coarse-grained model for position-specific effects of post-translational modifications. Biophysical Journal, 2021, 120, 1187-1197.	0.5	56
3	The Protein Folding Problem: The Role of Theory. Journal of Molecular Biology, 2021, 433, 167126.	4.2	52
4	Tyrosine phosphorylation regulates hnRNPA2 granule protein partitioning and reduces neurodegeneration. EMBO Journal, 2021, 40, e105001.	7.8	44
5	Sequence dependent phase separation of protein-polynucleotide mixtures elucidated using molecular simulations. Nucleic Acids Research, 2020, 48, 12593-12603.	14.5	83
6	Molecular Details of Protein Condensates Probed by Microsecond Long Atomistic Simulations. Journal of Physical Chemistry B, 2020, 124, 11671-11679.	2.6	127
7	Identifying sequence perturbations to an intrinsically disordered protein that determine its phase-separation behavior. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11421-11431.	7.1	202
8	TDP-43 Î±-helical structure tunes liquidâ€“liquid phase separation and function. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5883-5894.	7.1	258
9	Hydropathy Patterning Complements Charge Patterning to Describe Conformational Preferences of Disordered Proteins. Journal of Physical Chemistry Letters, 2020, 11, 3408-3415.	4.6	70
10	Biomolecular Phase Separation: From Molecular Driving Forces to Macroscopic Properties. Annual Review of Physical Chemistry, 2020, 71, 53-75.	10.8	368
11	Molecular interactions underlying liquidâ^liquid phase separation of the FUS low-complexity domain. Nature Structural and Molecular Biology, 2019, 26, 637-648.	8.2	463
12	Temperature-Controlled Liquidâ€“Liquid Phase Separation of Disordered Proteins. ACS Central Science, 2019, 5, 821-830.	11.3	199
13	Simulation methods for liquidâ€“liquid phase separation of disordered proteins. Current Opinion in Chemical Engineering, 2019, 23, 92-98.	7.8	89
14	A High-Throughput Approach to Phase Separation of Disordered Proteins. Biophysical Journal, 2019, 116, 350a.	0.5	1
15	Mechanistic View of hnRNPA2 Low-Complexity Domain Structure, Interactions, and Phase Separation Altered by Mutation and Arginine Methylation. Molecular Cell, 2018, 69, 465-479.e7.	9.7	312
16	Relation between single-molecule properties and phase behavior of intrinsically disordered proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9929-9934.	7.1	283
17	Sequence determinants of protein phase behavior from a coarse-grained model. PLoS Computational Biology, 2018, 14, e1005941.	3.2	427
18	Interplay Between Membrane Composition and Structural Stability of Membrane-Bound hIAPP. Journal of Physical Chemistry B, 2017, 121, 8661-8668.	2.6	25

#	Article	IF	Citations
19	Phosphorylation of the <scp>FUS</scp> lowâ€complexity domain disrupts phase separation, aggregation, and toxicity. EMBO Journal, 2017, 36, 2951-2967.	7.8	544