Osman N Yogurtcu

List of Publications by Year
in descending order

25	429	933447 10	940533 16
papers	citations	h-index	g-index

32	32	32	665
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Restricted Mobility of Conserved Residues in Protein-Protein Interfaces in Molecular Simulations. Biophysical Journal, 2008, 94, 3475-3485.	0.5	71
2	Collective cancer cell invasion induced by coordinated contractile stresses. Oncotarget, 2015, 6, 43438-43451.	1.8	70
3	Cytosolic proteins can exploit membrane localization to trigger functional assembly. PLoS Computational Biology, 2018, 14, e1006031.	3.2	48
4	A Mechanochemical Model of Actin Filaments. Biophysical Journal, 2012, 103, 719-727.	0.5	40
5	Theory of bi-molecular association dynamics in 2D for accurate model and experimental parameterization of binding rates. Journal of Chemical Physics, 2015, 143, 084117.	3.0	31
6	NERDSS: A Nonequilibrium Simulator for Multibody Self-Assembly at the Cellular Scale. Biophysical Journal, 2020, 118, 3026-3040.	0.5	28
7	Mechanical Response and Conformational Amplification in Î±-Helical Coiled Coils. Biophysical Journal, 2010, 99, 3895-3904.	0.5	23
8	Statistical thermodynamics of residue fluctuations in native proteins. Journal of Chemical Physics, 2009, 130, 095103.	3.0	18
9	A Systematic Review of the Efforts and Hindrances of Modeling and Simulation of CAR T-cell Therapy. AAPS Journal, 2021, 23, 52.	4.4	18
10	An implicit lipid model for efficient reaction-diffusion simulations of protein binding to surfaces of arbitrary topology. Journal of Chemical Physics, 2019, 151, 124115.	3.0	16
11	TCPro: an In Silico Risk Assessment Tool for Biotherapeutic Protein Immunogenicity. AAPS Journal, 2019, 21, 96.	4.4	13
12	Mathematical model of a personalized neoantigen cancer vaccine and the human immune system. PLoS Computational Biology, 2021, 17, e1009318.	3.2	7
13	SampPick: Selection of a Cohort of Subjects Matching a Population HLA Distribution. Frontiers in Immunology, 2019, 10, 2894.	4.8	6
14	Predictive model for Zika virus RNA minipool nucleic acid testing in outbreak scenarios. Transfusion, 2019, 59, 2211-2217.	1.6	3
15	Extracting Gene Regulation Information from Microarray Time-Series Data Using Hidden Markov Models. Lecture Notes in Computer Science, 2006, , 144-153.	1.3	2
16	A Two-State Eukaryotic Cell Migration Model. Biophysical Journal, 2012, 102, 347a.	0.5	1
17	Musical instrument recognition using reflection coefficients. , 0, , .		0
18	Analysis of Bundle Formation in Biofilaments. Biophysical Journal, 2011, 100, 388a.	0.5	0

#	Article	IF	Citations
19	Modeling the Mechanical Property of Single Actin Filament. Biophysical Journal, 2011, 100, 299a.	0.5	0
20	Investigation of Ht1080 Tumor Growth Dynamics and ECM Invasion inÂ3D. Biophysical Journal, 2013, 104, 322a.	0.5	0
21	Novel Single-Molecule Resolution Method for Spatio-Temporal Simulations of Protein Binding and Recruitment on the Membrane. Biophysical Journal, 2015, 108, 526a.	0.5	0
22	Governing Principles of Multiprotein Complex Formation on the Cell Membranes: An Investigation using Single-Molecule Resolution Spatio-Temporal Stochastic Computer Simulations and Analytical Calculations. Biophysical Journal, 2016, 110, 347a.	0.5	0
23	Membrane Recruitment can Increase the Number of Protein Assemblies by Many Folds: Insights from Theory and Reaction-Diffusion Simulation. Biophysical Journal, 2017, 112, 46a.	0.5	0
24	TCPRO: An In-Silico Risk Assessment Tool for Biotherapeutic Protein Immunogenicity. Biophysical Journal, 2019, 116, 563a.	0.5	0
25	Summary of a Public FDA Workshop: Model Informed Drug Development Approaches for Immunogenicity Assessments. Clinical Pharmacology and Therapeutics, 2023, 113, 221-225.	4.7	0