Alvin Yu

List of Publications by Year
in descending order

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14 papers	489 citations	840776 11 h-index	1058476 14 g-index
18 all docs	18 docs citations	18 times ranked	572 citing authors

#	Article	IF	Citations
1	A multiscale coarse-grained model of the SARS-CoV-2 virion. Biophysical Journal, 2021, 120, 1097-1104.	0.5	139
2	TRIM5Î± self-assembly and compartmentalization of the HIV-1 viral capsid. Nature Communications, 2020, 11, 1307.	12.8	51
3	Glutamate and Glycine Binding to the NMDA Receptor. Structure, 2018, 26, 1035-1043.e2.	3.3	42
4	Off-Pathway Assembly: A Broad-Spectrum Mechanism of Action for Drugs That Undermine Controlled HIV-1 Viral Capsid Formation. Journal of the American Chemical Society, 2019, 141, 10214-10224.	13.7	38
5	Temperature and Phase Transferable Bottom-up Coarse-Grained Models. Journal of Chemical Theory and Computation, 2020, 16, 6823-6842.	5.3	36
6	Molecular lock regulates binding of glycine to a primitive NMDA receptor. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6786-E6795.	7.1	30
7	Atomic-scale characterization of mature HIV-1 capsid stabilization by inositol hexakisphosphate (IP) Tj ETQq1 1 0.784314 rgBT /Overlo	10.3	30
8	Cooperative multivalent receptor binding promotes exposure of the SARS-CoV-2 fusion machinery core. Nature Communications, 2022, 13, 1002.	12.8	30
9	Neurotransmitter Funneling Optimizes Glutamate Receptor Kinetics. Neuron, 2018, 97, 139-149.e4.	8.1	25
10	Strain and rupture of HIV-1 capsids during uncoating. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117781119.	7.1	21
11	Energetics of Glutamate Binding to an Ionotropic Glutamate Receptor. Journal of Physical Chemistry B, 2017, 121, 10436-10442.	2.6	18
12	Integrin-based mechanosensing through conformational deformation. Biophysical Journal, 2021, 120, 4349-4359.	0.5	10
13	Stability and molecular pathways to the formation of spin defects in silicon carbide. Nature Communications, 2021, 12, 6325.	12.8	9
14	Computing Conformational Free Energies of iGluR Ligand-Binding Domains. Neuromethods, 2016, , 119-132.	0.3	4