Julius B Kirkegaard

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7563536/publications.pdf

Version: 2024-02-01

21 papers	1,603 citations	759233 12 h-index	713466 21 g-index
25 all docs	25 docs citations	25 times ranked	2295 citing authors

#	Article	IF	Citations
1	Molecular mechanisms of protein aggregation from global fitting of kinetic models. Nature Protocols, 2016, 11, 252-272.	12.0	546
2	Differences in nucleation behavior underlie the contrasting aggregation kinetics of the AÎ²40 and AÎ²42 peptides. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9384-9389.	7.1	405
3	A natural product inhibits the initiation of Î±-synuclein aggregation and suppresses its toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1009-E1017.	7.1	231
4	Multistep Inhibition of Î±-Synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. ACS Chemical Biology, 2018, 13, 2308-2319.	3.4	86
5	Easyworm: an open-source software tool to determine the mechanical properties of worm-like chains. Source Code for Biology and Medicine, 2014, 9, 16.	1.7	73
6	Massively parallel C. elegans tracking provides multi-dimensional fingerprints for phenotypic discovery. Journal of Neuroscience Methods, 2018, 306, 57-67.	2.5	52
7	Motility of Colonial Choanoflagellates and the Statistics of Aggregate Random Walkers. Physical Review Letters, 2016, 116, 038102.	7.8	33
8	Fluctuations in the Kinetics of Linear Protein Self-Assembly. Physical Review Letters, 2016, 116, 258103.	7.8	32
9	Aerotaxis in the closest relatives of animals. ELife, 2016, 5, .	6.0	29
10	Filter-feeding, near-field flows, and the morphologies of colonial choanoflagellates. Physical Review E, 2016, 94, 052401.	2.1	27
11	The noisy basis of morphogenesis: Mechanisms and mechanics of cell sheet folding inferred from developmental variability. PLoS Biology, 2018, 16, e2005536.	5.6	22
12	Modelling electrolyte conductivity in a water electrolyzer cell. International Journal of Hydrogen Energy, 2012, 37, 7436-7441.	7.1	15
13	Comparative Studies in the A30P and A53T Î±-Synuclein C. elegans Strains to Investigate the Molecular Origins of Parkinson's Disease. Frontiers in Cell and Developmental Biology, 2021, 9, 552549.	3.7	12
14	Optimal Transport Flows for Distributed Production Networks. Physical Review Letters, 2020, 124, 208101.	7.8	11
15	Superspreading quantified from bursty epidemic trajectories. Scientific Reports, 2021, 11, 24124.	3.3	6
16	The role of tumbling frequency and persistence in optimal run-and-tumble chemotaxis. IMA Journal of Applied Mathematics, 2018, 83, 700-719.	1.6	5
17	Superspreading of airborne pathogens in a heterogeneous world. Scientific Reports, 2021, 11, 11191.	3.3	3
18	Intra-chain organisation of hydrophobic residues controls inter-chain aggregation rates of amphiphilic polymers. Journal of Chemical Physics, 2017, 146, 135102.	3.0	2

#	Article	IF	Citations
19	Self-assembly, buckling and density-invariant growth of three-dimensional vascular networks. Journal of the Royal Society Interface, 2019, 16, 20190517.	3.4	2
20	Simultant: simultaneous curve fitting of functions and differential equations using analytical gradient calculations. BMC Bioinformatics, 2022, 23, .	2.6	1
21	Curvature strains as a global orchestrator of morphogenesis. Physical Review Research, 2022, 4, .	3.6	1