

Anton Zilman

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,124
citations

361413

20
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

4832
citing authors

#	ARTICLE	IF	CITATIONS
1	The entry of nanoparticles into solid tumours. <i>Nature Materials</i> , 2020, 19, 566-575.	27.5	1,036
2	Mechanism of hard-nanomaterial clearance by the liver. <i>Nature Materials</i> , 2016, 15, 1212-1221.	27.5	686
3	Artificial nanopores that mimic the transport selectivity of the nuclear pore complex. <i>Nature</i> , 2009, 457, 1023-1027.	27.8	264
4	Phenotype Determines Nanoparticle Uptake by Human Macrophages from Liver and Blood. <i>ACS Nano</i> , 2017, 11, 2428-2443.	14.6	180
5	Efficiency, Selectivity, and Robustness of Nucleocytoplasmic Transport. <i>PLoS Computational Biology</i> , 2007, 3, e125.	3.2	95
6	Large cargo transport by nuclear pores: implications for the spatial organization of FG-nucleoporins. <i>EMBO Journal</i> , 2013, 32, 3220-3230.	7.8	80
7	Simple biophysics underpins collective conformations of the intrinsically disordered proteins of the Nuclear Pore Complex. <i>ELife</i> , 2016, 5, .	6.0	69
8	Protein Transport by the Nuclear Pore Complex: Simple Biophysics of a Complex Biomachine. <i>Biophysical Journal</i> , 2017, 113, 6-14.	0.5	62
9	Effects of Multiple Occupancy and Interparticle Interactions on Selective Transport through Narrow Channels: Theory versus Experiment. <i>Biophysical Journal</i> , 2009, 96, 1235-1248.	0.5	57
10	Enhancement of Transport Selectivity through Nano-Channels by Non-Specific Competition. <i>PLoS Computational Biology</i> , 2010, 6, e1000804.	3.2	57
11	Stochastic Models of Lymphocyte Proliferation and Death. <i>PLoS ONE</i> , 2010, 5, e12775.	2.5	52
12	Physics of the nuclear pore complex: Theory, modeling and experiment. <i>Physics Reports</i> , 2021, 921, 1-53.	25.6	44
13	Morphological control of grafted polymer films via attraction to small nanoparticle inclusions. <i>Physical Review E</i> , 2012, 86, 031806.	2.1	42
14	Morphology of Polymer Brushes Infiltrated by Attractive Nano-inclusions of Various Sizes. <i>Langmuir</i> , 2013, 29, 8584-8591.	3.5	39
15	Effects of Jamming on Nonequilibrium Transport Times in Nanochannels. <i>Physical Review Letters</i> , 2009, 103, 128103.	7.8	34
16	Molecular determinants of large cargo transport into the nucleus. <i>ELife</i> , 2020, 9, .	6.0	31
17	A Polymer-Brush-Based Nanovalve Controlled by Nanoparticle Additives: Design Principles. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11858-11866.	2.6	26
18	Molecular Counting with Localization Microscopy: A Bayesian Estimate Based on Fluorophore Statistics. <i>Biophysical Journal</i> , 2017, 112, 1777-1785.	0.5	26

#	ARTICLE	IF	CITATIONS
19	Aggregation, Phase Separation and Spatial Morphologies of the Assemblies of FG Nucleoporins. <i>Journal of Molecular Biology</i> , 2018, 430, 4730-4740.	4.2	25
20	Free Energy of Nanoparticle Binding to Multivalent Polymeric Substrates. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6425-6435.	2.6	21
21	Karyopherin enrichment and compensation fortifies the nuclear pore complex against nucleocytoplasmic leakage. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	19
22	Precise control of polymer coated nanopores by nanoparticle additives: Insights from computational modeling. <i>Journal of Chemical Physics</i> , 2016, 145, .	3.0	17
23	The Role of Cohesiveness in the Permeability of the Spatial Assemblies of FG Nucleoporins. <i>Biophysical Journal</i> , 2019, 116, 1204-1215.	0.5	17
24	Crowding effects in non-equilibrium transport through nano-channels. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 454130.	1.8	14
25	Physical modeling of multivalent interactions in the nuclear pore complex. <i>Biophysical Journal</i> , 2021, 120, 1565-1577.	0.5	14
26	Investigating molecular crowding within nuclear pores using polarization-PALM. <i>ELife</i> , 2017, 6, .	6.0	14
27	Effects of cross-linking on partitioning of nanoparticles into a polymer brush: Coarse-grained simulations test simple approximate theories. <i>Journal of Chemical Physics</i> , 2018, 148, 024902.	3.0	11
28	Effects of niche overlap on coexistence, fixation and invasion in a population of two interacting species. <i>Royal Society Open Science</i> , 2020, 7, 192181.	2.4	11
29	Roles of phenotypic heterogeneity and microenvironment feedback in early tumor development. <i>Physical Review E</i> , 2021, 103, 032407.	2.1	9
30	Physical approaches to receptor sensing and ligand discrimination. <i>Current Opinion in Systems Biology</i> , 2019, 18, 111-121.	2.6	6
31	Pleiotropy enables specific and accurate signaling in the presence of ligand cross talk. <i>Physical Review E</i> , 2021, 103, 042401.	2.1	6
32	Anomalous viscosity-time behavior of polysaccharide dispersions. <i>Journal of Chemical Physics</i> , 2018, 149, 163320.	3.0	4
33	Determinants of Ligand Specificity and Functional Plasticity in Type I Interferon Signaling. <i>Frontiers in Immunology</i> , 2021, 12, 748423.	4.8	4
34	Different time scales in dynamic systems with multiple outcomes. <i>Journal of Chemical Physics</i> , 2020, 153, 054107.	3.0	3