

# Roya Zandi

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,391  
citations

393982

19  
h-index

377514

34  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1022  
citing authors

#	ARTICLE	IF	CITATIONS
1	Packaging of a Polymer by a Viral Capsid: The Interplay between Polymer Length and Capsid Size. <i>Biophysical Journal</i> , 2008, 94, 1428-1436.	0.2	192
2	Classical Nucleation Theory of Virus Capsids. <i>Biophysical Journal</i> , 2006, 90, 1939-1948.	0.2	169
3	On virus growth and form. <i>Physics Reports</i> , 2020, 847, 1-102.	10.3	104
4	Recent advances in coarse-grained modeling of virus assembly. <i>Current Opinion in Virology</i> , 2016, 18, 36-43.	2.6	94
5	Why large icosahedral viruses need scaffolding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10971-10976.	3.3	72
6	Size Regulation of ss-RNA Viruses. <i>Biophysical Journal</i> , 2009, 96, 9-20.	0.2	71
7	Nonequilibrium Assembly, Retroviruses, and Conical Structures. <i>Physical Review Letters</i> , 2009, 102, 198102.	2.9	52
8	The Robust Assembly of Small Symmetric Nanoshells. <i>Biophysical Journal</i> , 2015, 109, 956-965.	0.2	52
9	Thinning of superfluid films below the critical point. <i>Physical Review E</i> , 2007, 76, 030601.	0.8	51
10	RNA topology remodels electrostatic stabilization of viruses. <i>Physical Review E</i> , 2014, 89, 032707.	0.8	50
11	Quantum and thermal Casimir interaction between a sphere and a plate: Comparison of Drude and plasma models. <i>Physical Review B</i> , 2010, 81, .	1.1	45
12	How a Virus Circumvents Energy Barriers to Form Symmetric Shells. <i>ACS Nano</i> , 2020, 14, 3170-3180.	7.3	45
13	In vitro protease cleavage and computer simulations reveal the HIV-1 capsid maturation pathway. <i>Nature Communications</i> , 2016, 7, 13689.	5.8	43
14	The equilibrium structure of self-assembled protein nano-cages. <i>Nanoscale</i> , 2018, 10, 22802-22809.	2.8	39
15	Contact Mechanics of a Small Icosahedral Virus. <i>Physical Review Letters</i> , 2017, 119, 038102.	2.9	37
16	Effects of RNA branching on the electrostatic stabilization of viruses. <i>Physical Review E</i> , 2016, 94, 022408.	0.8	36
17	Energetically favoured defects in dense packings of particles on spherical surfaces. <i>Soft Matter</i> , 2016, 12, 5708-5717.	1.2	28
18	Ground States of Crystalline Caps: Generalized Jellium on Curved Space. <i>Physical Review Letters</i> , 2019, 123, 145501.	2.9	28

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19	De novo endocytic clathrin coats develop curvature at early stages of their formation. <i>Developmental Cell</i> , 2021, 56, 3146-3159.e5.	3.1	28
20	Impact of a nonuniform charge distribution on virus assembly. <i>Physical Review E</i> , 2017, 96, 022401.	0.8	27
21	Functional analysis of the N-terminal basic motif of a eukaryotic satellite RNA virus capsid protein in replication and packaging. <i>Scientific Reports</i> , 2016, 6, 26328.	1.6	16
22	RNA Base Pairing Determines the Conformations of RNA Inside Spherical Viruses. <i>Physical Review Letters</i> , 2017, 119, 188102.	2.9	14
23	The effect of RNA stiffness on the self-assembly of virus particles. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 044002.	0.7	14
24	Virus Assembly Pathways Inside a Host Cell. <i>ACS Nano</i> , 2022, 16, 317-327.	7.3	14
25	The Dynamics of Viruslike Capsid Assembly and Disassembly. <i>Journal of the American Chemical Society</i> , 2022, 144, 12608-12612.	6.6	13
26	Elasticity in curved topographies: Exact theories and linear approximations. <i>Physical Review E</i> , 2019, 99, 063005.	0.8	10
27	Virus Mechanics under Molecular Crowding. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1790-1798.	1.2	10
28	Role of Genome in the Formation of Conical Retroviral Shells. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6298-6305.	1.2	8
29	Effect of the charge distribution of virus coat proteins on the length of packaged RNAs. <i>Physical Review E</i> , 2020, 102, 062423.	0.8	7
30	Relationships between RNA topology and nucleocapsid structure in a model icosahedral virus. <i>Biophysical Journal</i> , 2021, 120, 3925-3936.	0.2	6
31	Electromechanical stiffening of rods and tubes. <i>Applied Physics Letters</i> , 2004, 84, 5467-5469.	1.5	5
32	Effect of electric fields on the director field and shape of nematic tactoids. <i>Physical Review E</i> , 2021, 103, 062703.	0.8	5
33	The different faces of mass action in virus assembly. <i>Journal of Biological Physics</i> , 2018, 44, 163-179.	0.7	3
34	Investigation of HIV-1 Gag binding with RNAs and lipids using Atomic Force Microscopy. <i>PLoS ONE</i> , 2020, 15, e0228036.	1.1	3
35	Foreword. <i>Journal of Biological Physics</i> , 2018, 44, 117-117.	0.7	0
36	Investigation of HIV-1 Gag binding with RNAs and lipids using Atomic Force Microscopy. , 2020, 15, e0228036.		0

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37	Investigation of HIV-1 Gag binding with RNAs and lipids using Atomic Force Microscopy. , 2020, 15, e0228036.		0
38	Investigation of HIV-1 Gag binding with RNAs and lipids using Atomic Force Microscopy. , 2020, 15, e0228036.		0
39	Investigation of HIV-1 Gag binding with RNAs and lipids using Atomic Force Microscopy. , 2020, 15, e0228036.		0