

AnÄ¾e LoÄ¾dorfer BoÄ¾iÄ¾

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

827
citations

687363

13
h-index

501196

28
g-index

36
all docs

36
docs citations

36
times ranked

908
citing authors

#	ARTICLE	IF	CITATIONS
1	Energies and pressures in viruses: contribution of nonspecific electrostatic interactions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3746-3765.	2.8	120
2	Serum microRNAs in patients with genetic amyotrophic lateral sclerosis and pre-manifest mutation carriers. <i>Brain</i> , 2014, 137, 2938-2950.	7.6	91
3	The Role of Solution Conditions in the Bacteriophage PP7 Capsid Charge Regulation. <i>Biophysical Journal</i> , 2014, 107, 1970-1979.	0.5	79
4	Relative humidity in droplet and airborne transmission of disease. <i>Journal of Biological Physics</i> , 2021, 47, 1-29.	1.5	73
5	How simple can a model of an empty viral capsid be? Charge distributions in viral capsids. <i>Journal of Biological Physics</i> , 2012, 38, 657-671.	1.5	53
6	pH Dependence of Charge Multipole Moments in Proteins. <i>Biophysical Journal</i> , 2017, 113, 1454-1465.	0.5	46
7	Quantitative nanoscale electrostatics of viruses. <i>Nanoscale</i> , 2015, 7, 17289-17298.	5.6	45
8	Synonymous Mutations Reduce Genome Compactness in Icosahedral ssRNA Viruses. <i>Biophysical Journal</i> , 2015, 108, 194-202.	0.5	39
9	Statistical analysis of sizes and shapes of virus capsids and their resulting elastic properties. <i>Journal of Biological Physics</i> , 2013, 39, 215-228.	1.5	35
10	Symmetry effects in electrostatic interactions between two arbitrarily charged spherical shells in the Debye-Hückel approximation. <i>Journal of Chemical Physics</i> , 2013, 138, 074902.	3.0	34
11	Electrostatic interactions between the SARS-CoV-2 virus and a charged electret fibre. <i>Soft Matter</i> , 2021, 17, 4296-4303.	2.7	33
12	Multivalent ion effects on electrostatic stability of virus-like nano-shells. <i>Journal of Chemical Physics</i> , 2013, 139, 154709.	3.0	21
13	Mechanical design of apertures and the infolding of pollen grain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26600-26607.	7.1	18
14	Anomalous multipole expansion: Charge regulation of patchy inhomogeneously charged spherical particles. <i>Journal of Chemical Physics</i> , 2018, 149, 163307.	3.0	17
15	Electrostatics-Driven Inflation of Elastic Icosahedral Shells as a Model for Swelling of Viruses. <i>Biophysical Journal</i> , 2018, 115, 822-829.	0.5	12
16	Hidden symmetry of the anomalous bluetongue virus capsid and its role in the infection process. <i>Soft Matter</i> , 2019, 15, 7663-7671.	2.7	12
17	Spherical structure factor and classification of hyperuniformity on the sphere. <i>Physical Review E</i> , 2019, 99, 032601.	2.1	12
18	pH-induced morphological changes of proteinaceous viral shells. <i>Scientific Reports</i> , 2019, 9, 5341.	3.3	12

#	ARTICLE	IF	CITATIONS
19	Effects of long-range interactions on curvature energies of viral shells. <i>Physical Review E</i> , 2016, 93, 052415.	2.1	10
20	Varieties of charge distributions in coat proteins of ssRNA+â€™%â€™viruses. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 024001.	1.8	10
21	Electrostatic self-energy of a partially formed spherical shell in salt solution: Application to stability of tethered and fluid shells as models for viruses and vesicles. <i>Physical Review E</i> , 2011, 83, 041916.	2.1	7
22	Compactness of viral genomes: effect of disperse and localized random mutations. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 084006.	1.8	7
23	From discrete to continuous description of spherical surface charge distributions. <i>Soft Matter</i> , 2018, 14, 1149-1161.	2.7	7
24	Role of metallic core for the stability of virus-like particles in strongly coupled electrostatics. <i>Scientific Reports</i> , 2019, 9, 3884.	3.3	7
25	RNA Secondary Structures Regulate Adsorption of Fragments onto Flat Substrates. <i>ACS Omega</i> , 2021, 6, 32823-32831.	3.5	7
26	Mechanics of inactive swelling and bursting of porate pollen grains. <i>Biophysical Journal</i> , 2022, 121, 782-792.	0.5	7
27	Electrostatic stability and encapsidation of charged nano-droplets. <i>Soft Matter</i> , 2013, 9, 11357.	2.7	6
28	Site Correlations, Capacitance, and Polarizability From Protein Protonation Fluctuations. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12902-12908.	2.6	4
29	Symmetry breaking of dipole orientations on Caspar-Klug lattices. <i>Physical Review Research</i> , 2020, 2, .	3.6	2
30	Global order parameters for particle distributions on the sphere. <i>Physics of Fluids</i> , 2021, 33, 047109.	4.0	1
31	Measure of overlap between two arbitrary ellipses on a sphere. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, .	2.1	0