

Richard J Bingham

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

778
citations

623188

14
h-index

752256

20
g-index

26
all docs

26
docs citations

26
times ranked

1034
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structures of fibronectin-binding sites from <i>Staphylococcus aureus</i> FnBPA in complex with fibronectin domains. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12254-12258.	3.3	116
2	A multiscale model of virus pandemic: Heterogeneous interactive entities in a globally connected world. Mathematical Models and Methods in Applied Sciences, 2020, 30, 1591-1651.	1.7	105
3	Computational Study of Room-Temperature Ionic Liquids Interacting with a POPC Phospholipid Bilayer. Journal of Physical Chemistry B, 2012, 116, 11205-11216.	1.2	75
4	HBV RNA pre-genome encodes specific motifs that mediate interactions with the viral core protein that promote nucleocapsid assembly. Nature Microbiology, 2017, 2, 17098.	5.9	69
5	A modelling paradigm for RNA virus assembly. Current Opinion in Virology, 2018, 31, 74-81.	2.6	62
6	Structure and dynamics of POPC bilayers in water solutions of room temperature ionic liquids. Journal of Chemical Physics, 2015, 142, 124706.	1.2	59
7	Evolution of a virus-like architecture and packaging mechanism in a repurposed bacterial protein. Science, 2021, 372, 1220-1224.	6.0	53
8	Bacteriophage MS2 genomic RNA encodes an assembly instruction manual for its capsid. Bacteriophage, 2016, 6, e1157666.	1.9	38
9	Structural and Functional Analysis of the Tandem $\hat{\nu}^2$ -Zipper Interaction of a Streptococcal Protein with Human Fibronectin. Journal of Biological Chemistry, 2011, 286, 38311-38320.	1.6	32
10	Assembly of infectious enteroviruses depends on multiple, conserved genomic RNA-coat protein contacts. PLoS Pathogens, 2020, 16, e1009146.	2.1	31
11	Dynamics of an asymmetric bilayer lipid membrane in a viscous solvent. Europhysics Letters, 2015, 111, 18004.	0.7	26
12	Undulation instability in a bilayer lipid membrane due to electric field interaction with lipid dipoles. Physical Review E, 2010, 81, 051909.	0.8	21
13	RNA Virus Evolution via a Quasispecies-Based Model Reveals a Drug Target with a High Barrier to Resistance. Viruses, 2017, 9, 347.	1.5	20
14	Comparing antiviral strategies against COVID-19 via multiscale within-host modelling. Royal Society Open Science, 2021, 8, 210082.	1.1	17
15	Communication: Non-monotonic supersaturation dependence of the nucleus size of crystals with anisotropically interacting molecules. Journal of Chemical Physics, 2013, 139, 241101.	1.2	13
16	An Intracellular Model of Hepatitis B Viral Infection: An In Silico Platform for Comparing Therapeutic Strategies. Viruses, 2021, 13, 11.	1.5	13
17	Dynamic network approach for the modelling of genomic sub-complexes in multi-segmented viruses. Nucleic Acids Research, 2018, 46, 12087-12098.	6.5	11
18	An age-structured model of hepatitis B viral infection highlights the potential of different therapeutic strategies. Scientific Reports, 2022, 12, 1252.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Energy, structure and vibrational modes of small water clusters by a simple many-body potential mimicking polarisation effects. <i>Molecular Physics</i> , 2013, 111, 3502-3514.	0.8	3
20	Therapeutic interfering particles exploiting viral replication and assembly mechanisms show promising performance: a modelling study. <i>Scientific Reports</i> , 2021, 11, 23847.	1.6	1
21	Viral Genome Conformations and Contacts across Different Lifecycle Stages. <i>Proceedings (mdpi)</i> , 2020, 50, .	0.2	0
22	Conservation of Genetically-Embedded Virus Assembly Instructions: A Novel Route to Antiviral Therapy. <i>Proceedings (mdpi)</i> , 2020, 50, 87.	0.2	0
23	Genome Packaging. , 2021, , 488-494.		0
24	Structural characterization of genomic RNA-coat protein contacts in single-stranded RNA viruses by high-resolution cryo-EM. <i>Access Microbiology</i> , 2020, 2, .	0.2	0