

# Eric C Dykeman

## List of Publications by Year in descending order

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27  
papers

976  
citations

471061

17  
h-index

500791

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

772  
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of local assembly rules on RNA packaging in a T = 1 satellite plant virus. PLoS Computational Biology, 2021, 17, e1009306.	1.5	4
2	An Intracellular Model of Hepatitis B Viral Infection: An In Silico Platform for Comparing Therapeutic Strategies. Viruses, 2021, 13, 11.	1.5	13
3	Assembly of infectious enteroviruses depends on multiple, conserved genomic RNA-coat protein contacts. PLoS Pathogens, 2020, 16, e1009146.	2.1	31
4	A modelling paradigm for RNA virus assembly. Current Opinion in Virology, 2018, 31, 74-81.	2.6	62
5	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
6	Genomic RNA folding mediates assembly of human parechovirus. Nature Communications, 2017, 8, 5.	5.8	67
7	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
8	A group theoretical approach to structural transitions of icosahedral quasicrystals and point arrays. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 175203.	0.7	8
9	An implementation of the Gillespie algorithm for RNA kinetics with logarithmic time update. Nucleic Acids Research, 2015, 43, 5708-5715.	6.5	12
10	Revealing the density of encoded functions in a viral RNA. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2227-2232.	3.3	64
11	Asymmetric Genome Organization in an RNA Virus Revealed via Graph-Theoretical Analysis of Tomographic Data. PLoS Computational Biology, 2015, 11, e1004146.	1.5	12
12	On the subgroup structure of the hyperoctahedral group in six dimensions. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 417-428.	0.0	6
13	Solving a Levinthal's paradox for virus assembly identifies a unique antiviral strategy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5361-5366.	3.3	102
14	Packaging Signals in Two Single-Stranded RNA Viruses Imply a Conserved Assembly Mechanism and Geometry of the Packaged Genome. Journal of Molecular Biology, 2013, 425, 3235-3249.	2.0	80
15	Building a viral capsid in the presence of genomic RNA. Physical Review E, 2013, 87, 022717.	0.8	45
16	Degenerate RNA Packaging Signals in the Genome of Satellite Tobacco Necrosis Virus: Implications for the Assembly of a T= 1 Capsid. Journal of Molecular Biology, 2011, 413, 51-65.	2.0	65
17	Atomistic modeling of the low-frequency mechanical modes and Raman spectra of icosahedral virus capsids. Physical Review E, 2010, 81, 021918.	0.8	23
18	All-atom normal-mode analysis reveals an RNA-induced allostery in a bacteriophage coat protein. Physical Review E, 2010, 81, 031908.	0.8	27

#	ARTICLE	IF	CITATIONS
19	Normal mode analysis and applications in biological physics. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 423202.	0.7	71
20	The Impact of Viral RNA on Assembly Pathway Selection. <i>Journal of Molecular Biology</i> , 2010, 401, 298-308.	2.0	64
21	Simulations of impulsive laser scattering of biological protein assemblies: Application to M13 bacteriophage. <i>Physical Review E</i> , 2009, 80, 041909.	0.8	5
22	Vibrational energy funneling in viruses—simulations of impulsive stimulated Raman scattering in M13 bacteriophage. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 505102.	0.7	11
23	Theory of the low frequency mechanical modes and Raman spectra of the M13 bacteriophage capsid with atomic detail. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 035116.	0.7	9
24	Low Frequency Mechanical Modes of Viral Capsids: An Atomistic Approach. <i>Physical Review Letters</i> , 2008, 100, 028101.	2.9	43
25	Raman intensity and spectra predictions for cylindrical viruses. <i>Physical Review E</i> , 2007, 76, 011906.	0.8	15
26	Observation of the low frequency vibrational modes of bacteriophage M13 in water by Raman spectroscopy. <i>Virology Journal</i> , 2006, 3, 79.	1.4	22
27	Raman scattering studies of the low-frequency vibrational modes of bacteriophage M13 in water—observation of an axial torsion mode. <i>Nanotechnology</i> , 2006, 17, 5474-5479.	1.3	21