

Eric Charles Dykeman

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,037
citations

566801

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h-index

580395

25
g-index

34
all docs

34
docs citations

34
times ranked

879
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing antiviral strategies against COVID-19 via multiscale within-host modelling. Royal Society Open Science, 2021, 8, 210082.	1.1	17
2	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
3	An Intracellular Model of Hepatitis B Viral Infection: An In Silico Platform for Comparing Therapeutic Strategies. Viruses, 2021, 13, 11.	1.5	13
4	Conservation of Genetically-Embedded Virus Assembly Instructions: A Novel Route to Antiviral Therapy. Proceedings (mdpi), 2020, 50, 87.	0.2	0
5	A stochastic model for simulating ribosome kinetics in vivo. PLoS Computational Biology, 2020, 16, e1007618.	1.5	15
6	Assembly of infectious enteroviruses depends on multiple, conserved genomic RNA-coat protein contacts. PLoS Pathogens, 2020, 16, e1009146.	2.1	31
7	Structural characterization of genomic RNA-coat protein contacts in single-stranded RNA viruses by high-resolution cryo-EM. Access Microbiology, 2020, 2, .	0.2	0
8	A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.		0
9	A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.		0
10	A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.		0
11	A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.		0
12	A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.		0
13	A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.		0
14	Cryo-EM structure and in vitro DNA packaging of a thermophilic virus with supersized T=7 capsids. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3556-3561.	3.3	54
15	A modelling paradigm for RNA virus assembly. Current Opinion in Virology, 2018, 31, 74-81.	2.6	62
16	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
17	Genomic RNA folding mediates assembly of human parechovirus. Nature Communications, 2017, 8, 5.	5.8	67
18	A Model for Viral Assembly around an Explicit RNA Sequence Generates an Implicit Fitness Landscape. Biophysical Journal, 2017, 113, 506-516.	0.2	6

#	ARTICLE	IF	CITATIONS
19	Protein-mediated RNA folding governs sequence-specific interactions between rotavirus genome segments. <i>ELife</i> , 2017, 6, .	2.8	70
20	Direct Evidence for Packaging Signal-Mediated Assembly of Bacteriophage MS2. <i>Journal of Molecular Biology</i> , 2016, 428, 431-448.	2.0	80
21	Bacteriophage MS2 genomic RNA encodes an assembly instruction manual for its capsid. <i>Bacteriophage</i> , 2016, 6, e1157666.	1.9	38
22	An implementation of the Gillespie algorithm for RNA kinetics with logarithmic time update. <i>Nucleic Acids Research</i> , 2015, 43, 5708-5715.	6.5	12
23	Revealing the density of encoded functions in a viral RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2227-2232.	3.3	64
24	Asymmetric Genome Organization in an RNA Virus Revealed via Graph-Theoretical Analysis of Tomographic Data. <i>PLoS Computational Biology</i> , 2015, 11, e1004146.	1.5	12
25	On the subgroup structure of the hyperoctahedral group in six dimensions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, 417-428.	0.0	6
26	Solving a Levinthal's paradox for virus assembly identifies a unique antiviral strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5361-5366.	3.3	102
27	Packaging signals in single-stranded RNA viruses: nature's alternative to a purely electrostatic assembly mechanism. <i>Journal of Biological Physics</i> , 2013, 39, 277-287.	0.7	86
28	Packaging Signals in Two Single-Stranded RNA Viruses Imply a Conserved Assembly Mechanism and Geometry of the Packaged Genome. <i>Journal of Molecular Biology</i> , 2013, 425, 3235-3249.	2.0	80
29	Building a viral capsid in the presence of genomic RNA. <i>Physical Review E</i> , 2013, 87, 022717.	0.8	45
30	Degenerate RNA Packaging Signals in the Genome of Satellite Tobacco Necrosis Virus: Implications for the Assembly of a T= 1 Capsid. <i>Journal of Molecular Biology</i> , 2011, 413, 51-65.	2.0	65
31	All-atom normal-mode analysis reveals an RNA-induced allostery in a bacteriophage coat protein. <i>Physical Review E</i> , 2010, 81, 031908.	0.8	27
32	Vibrational energy funneling in viruses's simulations of impulsive stimulated Raman scattering in M13 bacteriophage. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 505102.	0.7	11