

# Eric Charles Dykeman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6388629/publications.pdf>

Version: 2024-02-01

32  
papers

1,037  
citations

566801

15  
h-index

580395

25  
g-index

34  
all docs

34  
docs citations

34  
times ranked

879  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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       |
| 2  | Packaging signals in single-stranded RNA viruses: nature's alternative to a purely electrostatic assembly mechanism. Journal of Biological Physics, 2013, 39, 277-287.                                   | 0.7 | 86        |
| 3  | 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        |
| 4  | Direct Evidence for Packaging Signal-Mediated Assembly of Bacteriophage MS2. Journal of Molecular Biology, 2016, 428, 431-448.   | 2.0 | 80        |
| 5  | Protein-mediated RNA folding governs sequence-specific interactions between rotavirus genome segments. ELife, 2017, 6, .   | 2.8 | 70        |
| 6  | 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        |
| 7  | Genomic RNA folding mediates assembly of human parechovirus. Nature Communications, 2017, 8, 5.  | 5.8 | 67        |
| 8  | 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        |
| 9  | 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        |
| 10 | A modelling paradigm for RNA virus assembly. Current Opinion in Virology, 2018, 31, 74-81.   | 2.6 | 62        |
| 11 | 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        |
| 12 | Building a viral capsid in the presence of genomic RNA. Physical Review E, 2013, 87, 022717.   | 0.8 | 45        |
| 13 | Bacteriophage MS2 genomic RNA encodes an assembly instruction manual for its capsid. Bacteriophage, 2016, 6, e1157666.   | 1.9 | 38        |
| 14 | Assembly of infectious enteroviruses depends on multiple, conserved genomic RNA-coat protein contacts. PLoS Pathogens, 2020, 16, e1009146.   | 2.1 | 31        |
| 15 | All-atom normal-mode analysis reveals an RNA-induced allostery in a bacteriophage coat protein. Physical Review E, 2010, 81, 031908.   | 0.8 | 27        |
| 16 | Comparing antiviral strategies against COVID-19 via multiscale within-host modelling. Royal Society Open Science, 2021, 8, 210082.   | 1.1 | 17        |
| 17 | A stochastic model for simulating ribosome kinetics in vivo. PLoS Computational Biology, 2020, 16, e1007618.   | 1.5 | 15        |
| 18 | An Intracellular Model of Hepatitis B Viral Infection: An In Silico Platform for Comparing Therapeutic Strategies. Viruses, 2021, 13, 11.  | 1.5 | 13        |

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|----|---|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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        |
| 22 | 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         |
| 23 | A Model for Viral Assembly around an Explicit RNA Sequence Generates an Implicit Fitness Landscape. <i>Biophysical Journal</i> , 2017, 113, 506-516.                              | 0.2 | 6         |
| 24 | The impact of local assembly rules on RNA packaging in a T = 1 satellite plant virus. <i>PLoS Computational Biology</i> , 2021, 17, e1009306.                                     | 1.5 | 4         |
| 25 | Conservation of Genetically-Embedded Virus Assembly Instructions: A Novel Route to Antiviral Therapy. <i>Proceedings (mdpi)</i> , 2020, 50, 87.                                   | 0.2 | 0         |
| 26 | 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         |
| 27 | A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.  |     | 0         |
| 28 | A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.  |     | 0         |
| 29 | A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.  |     | 0         |
| 30 | A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.  |     | 0         |
| 31 | A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.  |     | 0         |
| 32 | A stochastic model for simulating ribosome kinetics in vivo. , 2020, 16, e1007618.  |     | 0         |