Robert L Duda

List of Publications by Year
in descending order

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50 papers	3,325 citations	185998 28 h-index	197535 49 g-index
52 all docs	52 docs citations	52 times ranked	2253 citing authors

#	Article	IF	Citations
1	Tailed Double-Stranded DNA Phages. , 2021, , 45-52.		1
2	Mobile Loops and Electrostatic Interactions Maintain the Flexible Tail Tube of Bacteriophage Lambda. Journal of Molecular Biology, 2020, 432, 384-395.	2.0	18
3	Capsids and Portals Influence Each Otherâ€™s Conformation During Assembly and Maturation. Journal of Molecular Biology, 2020, 432, 2015-2029.	2.0	5
4	Capsid expansion of bacteriophage T5 revealed by high resolution cryoelectron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21037-21046.	3.3	27
5	The amazing HK97 fold: versatile results of modest differences. Current Opinion in Virology, 2019, 36, 9-16.	2.6	80
6	On the catalytic mechanism of bacteriophage HK97 capsid crosslinking. Virology, 2017, 506, 84-91.	1.1	7
7	Capsids and Genomes of Jumbo-Sized Bacteriophages Reveal the Evolutionary Reach of the HK97 Fold. MBio, 2017, 8, .	1.8	65
8	Flexible Connectors between Capsomer Subunits that Regulate Capsid Assembly. Journal of Molecular Biology, 2017, 429, 2474-2489.	2.0	9
9	Correct Assembly of the Bacteriophage T5 Procapsid Requires Both the Maturation Protease and the Portal Complex. Journal of Molecular Biology, 2016, 428, 165-181.	2.0	18
10	Metastable Intermediates as Stepping Stones on the Maturation Pathways of Viral Capsids. MBio, 2014, 5, e02067.	1.8	13
11	Chaperoneâ€“Protein Interactions That Mediate Assembly of the Bacteriophage Lambda Tail to the Correct Length. Journal of Molecular Biology, 2014, 426, 1004-1018.	2.0	59
12	Transient Contacts on the Exterior of the HK97 Procapsid That Are Essential for Capsid Assembly. Journal of Molecular Biology, 2014, 426, 2112-2129.	2.0	24
13	The delta domain of the HK97 major capsid protein is essential for assembly. Virology, 2014, 456-457, 171-178.	1.1	29
14	Functional Domains of the HK97 Capsid Maturation Protease and the Mechanisms of Protein Encapsidation. Journal of Molecular Biology, 2013, 425, 2765-2781.	2.0	33
15	A Balanced Ratio of Proteins from Gene G and Frameshift-Extended Gene GT Is Required for Phage Lambda Tail Assembly. Journal of Molecular Biology, 2013, 425, 3476-3487.	2.0	26
16	The Prohead-I Structure of Bacteriophage HK97: Implications for Scaffold-Mediated Control of Particle Assembly and Maturation. Journal of Molecular Biology, 2011, 408, 541-554.	2.0	58
17	Mutational Analysis of a Conserved Glutamic Acid Required for Self-Catalyzed Cross-Linking of Bacteriophage HK97 Capsids. Journal of Virology, 2009, 83, 2088-2098.	1.5	18
18	An unexpected twist in viral capsid maturation. Nature, 2009, 458, 646-650.	13.7	120

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19	Structure and Energetics of Encapsidated DNA in Bacteriophage HK97 Studied by Scanning Calorimetry and Cryo-electron Microscopy. Journal of Molecular Biology, 2009, 391, 471-483.	2.0	52
20	Asymmetric EM Reveals New Twists in Phage Ï•29 Biology. Structure, 2008, 16, 831-832.	1.6	3
21	Virus Capsid Expansion Driven by the Capture of Mobile Surface Loops. Structure, 2008, 16, 1491-1502.	1.6	33
22	A thermally induced phase transition in a viral capsid transforms the hexamers, leaving the pentamers unchanged. Journal of Structural Biology, 2007, 158, 224-232.	1.3	36
23	A Free Energy Cascade with Locks Drives Assembly and Maturation of Bacteriophage HK97 Capsid. Journal of Molecular Biology, 2006, 364, 512-525.	2.0	45
24	Time-resolved molecular dynamics of bacteriophage HK97 capsid maturation interpreted by electron cryo-microscopy and X-ray crystallography. Journal of Structural Biology, 2006, 153, 300-306.	1.3	54
25	Shared architecture of bacteriophage SPO1 and herpesvirus capsids. Current Biology, 2006, 16, R11-R13.	1.8	37
26	Shared architecture of bacteriophage SPO1 and herpesvirus capsids. Current Biology, 2006, 16, 440.	1.8	2
27	Capsid Conformational Sampling in HK97 Maturation Visualized by X-Ray Crystallography and Cryo-EM. Structure, 2006, 14, 1655-1665.	1.6	58
28	Crosslinking renders bacteriophage HK97 capsid maturation irreversible and effects an essential stabilization. EMBO Journal, 2005, 24, 1352-1363.	3.5	60
29	Control of Virus Assembly: HK97 â€œWhiffleballâ€•Mutant Capsids Without Pentons. Journal of Molecular Biology, 2005, 348, 167-182.	2.0	33
30	Cooperative Reorganization of a 420 Subunit Virus Capsid. Journal of Molecular Biology, 2005, 352, 723-735.	2.0	28
31	Domain Structures and Roles in Bacteriophage HK97 Capsid Assembly and Maturationâ€. Biochemistry, 2004, 43, 5428-5436.	1.2	28
32	Control of Crosslinking by Quaternary Structure Changes during Bacteriophage HK97 Maturation. Molecular Cell, 2004, 14, 559-569.	4.5	47
33	Conserved Translational Frameshift in dsDNA Bacteriophage Tail Assembly Genes. Molecular Cell, 2004, 16, 11-21.	4.5	201
34	Evidence that a Local Refolding Event Triggers Maturation of HK97 Bacteriophage Capsid. Journal of Molecular Biology, 2004, 340, 419-433.	2.0	36
35	Crystallization and preliminary analysis of a dsDNA bacteriophage capsid intermediate: Prohead II of HK97. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 2060-2064.	2.5	4
36	The Refined Structure of a Protein Catenane: The HK97 Bacteriophage Capsid at 3.44 Ã… Resolution. Journal of Molecular Biology, 2003, 334, 885-899.	2.0	162

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37	Genome organization and characterization of mycobacteriophage Bxb1. Molecular Microbiology, 2002, 38, 955-970.	1.2	81
38	Genomic sequences of bacteriophages HK97 and HK022: pervasive genetic mosaicism in the lambdoid bacteriophages 1 1Edited by M. Gottesman. Journal of Molecular Biology, 2000, 299, 27-51.	2.0	417
39	Maturation Dynamics of a Viral Capsid. Cell, 2000, 100, 253-263.	13.5	136
40	Topologically Linked Protein Rings in the Bacteriophage HK97 Capsid. Science, 2000, 289, 2129-2133.	6.0	639
41	Crystallographic analysis of the dsDNA bacteriophage HK97 mature empty capsid. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 763-771.	2.5	13
42	Crystallization and Preliminary X-Ray Analysis of the dsDNA Bacteriophage HK97 Mature Empty Capsid. Virology, 1998, 243, 113-118.	1.1	21
43	Protein Chainmail. Cell, 1998, 94, 55-60.	13.5	138
44	Bacteriophage HK97 Head Assembly: A Protein Ballet. Advances in Virus Research, 1998, 50, 235-288.	0.9	74
45	Bacteriophage HK97 head assembly. FEMS Microbiology Reviews, 1995, 17, 41-46.	3.9	36
46	Complexes between Chaperonin GroEL and the Capsid Protein of Bacteriophage HK97. Biochemistry, 1995, 34, 14918-14931.	1.2	21
47	Structural transitions during bacteriophage HK97 head assembly. Journal of Molecular Biology, 1995, 247, 618-635.	2.0	110
48	Genetic basis of bacteriophage HK97 prohead assembly. Journal of Molecular Biology, 1995, 247, 636-647.	2.0	87
49	Expression of plasmid-encoded structural proteins permits engineering of bacteriophage T4 assembly. Virology, 1990, 179, 728-737.	1.1	3
50	Potential length determiner and dna injection protein is extruded from bacteriophage T4 tail tubes in vitro. Virology, 1986, 151, 296-314.	1.1	20