

Charles M Knobler

List of Publications by Year in descending order

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41
papers

1,435
citations

331670

21
h-index

330143

37
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42
all docs

42
docs citations

42
times ranked

1253
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly of Viral Capsid Protein and RNA Molecules of Different Sizes: Requirement for a Specific High Protein/RNA Mass Ratio. <i>Journal of Virology</i> , 2012, 86, 3318-3326.	3.4	151
2	Frustrationâ€limited clusters in liquids. <i>Journal of Chemical Physics</i> , 1994, 101, 2391-2397.	3.0	137
3	Statistics of shear-induced rearrangements in a two-dimensional model foam. <i>Physical Review E</i> , 1999, 60, 4385-4396.	2.1	95
4	The Assembly Pathway of an Icosahedral Single-Stranded RNA Virus Depends on the Strength of Inter-Subunit Attractions. <i>Journal of Molecular Biology</i> , 2014, 426, 1050-1060.	4.2	94
5	Role of Electrostatics in the Assembly Pathway of a Single-Stranded RNA Virus. <i>Journal of Virology</i> , 2014, 88, 10472-10479.	3.4	79
6	Physical Chemistry of DNA Viruses. <i>Annual Review of Physical Chemistry</i> , 2009, 60, 367-383.	10.8	78
7	Measuring the Force Ejecting DNA from Phage. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6838-6843.	2.6	76
8	Phase-Separated Two-Component Self-Assembled Organosilane Monolayers and Their Use in Selective Adsorption of a Protein. <i>Langmuir</i> , 1996, 12, 1368-1374.	3.5	73
9	Domain morphology in a twoâ€dimensional anisotropic mesophase: Cusps and boojum textures in a Langmuir monolayer. <i>Journal of Chemical Physics</i> , 1994, 101, 8258-8261.	3.0	53
10	Optical measurements of the phase diagram of Langmuir monolayers of fatty acidâ€alcohol mixtures. <i>Journal of Chemical Physics</i> , 1995, 103, 2365-2368.	3.0	48
11	Visualizing the global secondary structure of a viral RNA genome with cryo-electron microscopy. <i>Rna</i> , 2015, 21, 877-886.	3.5	45
12	Characterization of Viral Capsid Protein Self-Assembly around Short Single-Stranded RNA. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7510-7519.	2.6	42
13	Delivery of self-amplifying RNA vaccines in in vitro reconstituted virus-like particles. <i>PLoS ONE</i> , 2019, 14, e0215031.	2.5	42
14	Viral RNAs Are Unusually Compact. <i>PLoS ONE</i> , 2014, 9, e105875.	2.5	41
15	Tricritical phenomena in quasiâ€binary mixtures. IV. Ternary ethane systems. <i>Journal of Chemical Physics</i> , 1987, 86, 4120-4132.	3.0	38
16	A Simple RNA-DNA Scaffold Templates the Assembly of Monofunctional Virus-Like Particles. <i>Journal of the American Chemical Society</i> , 2015, 137, 7584-7587.	13.7	34
17	Bacteriophage P22 ejects all of its internal proteins before its genome. <i>Virology</i> , 2015, 485, 128-134.	2.4	34
18	Genome organization and interaction with capsid protein in a multipartite RNA virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10673-10680.	7.1	31

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19	The Effect of RNA Secondary Structure on the Self-Assembly of Viral Capsids. <i>Biophysical Journal</i> , 2017, 113, 339-347.	0.5	30
20	Relating the Organization of the Molecular Tilt Azimuth to Lateral-Force Images in Monolayers Transferred to Solid Substrates. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2614-2617.	2.6	26
21	The effect of macromolecular crowding on single-round transcription by <i>Escherichia coli</i> RNA polymerase. <i>Nucleic Acids Research</i> , 2019, 47, 1440-1450.	14.5	26
22	Role of RNA Branchedness in the Competition for Viral Capsid Proteins. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13991-14002.	2.6	24
23	Tricritical phenomena in quasi-binary mixtures. V. New measurements on ternary methane systems. <i>Journal of Chemical Physics</i> , 1987, 86, 4133-4137.	3.0	19
24	Tricritical phenomena in quasibinary mixtures. VIII. Calculations from the van der Waals equation for binary mixtures. <i>Journal of Chemical Physics</i> , 1990, 92, 5442-5453.	3.0	17
25	Tricritical phenomena in quasi-binary mixtures. VI. The binary system ethane + n-eicosane and some revised scaling parameters. <i>Journal of Chemical Physics</i> , 1988, 89, 2281-2285.	3.0	15
26	A compact Brewster-angle microscope for use in Langmuir-Blodgett deposition. <i>Review of Scientific Instruments</i> , 1998, 69, 3699-3700.	1.3	15
27	A microstamp of approval. <i>Nature</i> , 1994, 369, 15-16.	27.8	14
28	Friction Anisotropy and Asymmetry Related to the Molecular Tilt Azimuth in a Monolayer of 1-Monopalmytoyl-rac-glycerol. <i>Langmuir</i> , 2000, 16, 9390-9395.	3.5	13
29	Tricritical phenomena in quasi-binary systems. VII. Light scattering from ternary ethane systems. <i>Journal of Chemical Physics</i> , 1988, 89, 3760-3771.	3.0	7
30	Domain Structures and Phase Transitions in Langmuir Monolayers. <i>Materials Research Society Symposia Proceedings</i> , 1991, 237, 263.	0.1	7
31	Two-Stage Dynamics of <i>In Vivo</i> Bacteriophage Genome Ejection. <i>Physical Review X</i> , 2018, 8, .	8.9	7
32	RNA Homopolymers Form Higher-Curvature Virus-like Particles Than Do Normal-Composition RNAs. <i>Biophysical Journal</i> , 2019, 117, 1331-1341.	0.5	7
33	Langmuir Monolayers and Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 364, 133-140.	0.3	5
34	Controlling the extent of viral genome release by a combination of osmotic stress and polyvalent cations. <i>Physical Review E</i> , 2015, 92, 022708.	2.1	4
35	Monolayer phases of the fatty acids and their ethyl esters. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991, 46, 55-64.	0.6	3
36	Protocol for Efficient Cell-Free Synthesis of Cowpea Chlorotic Mottle Virus-Like Particles Containing Heterologous RNAs. <i>Methods in Molecular Biology</i> , 2018, 1776, 249-265.	0.9	2

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37	How and why RNA genomes are (partially) ordered in viral capsids. <i>Current Opinion in Virology</i> , 2022, 52, 203-210.	5.4	2
38	The non-monotonic dose dependence of protein expression in cells transfected with self-amplifying RNA. <i>Journal of Virological Methods</i> , 2021, , 114386.	2.1	1
39	Coaxing a Viral RNA Out Of Its Shell: How Does a Viral RNA Genome Initiate Contact With Its Host?. <i>FASEB Journal</i> , 2016, 30, 599.3.	0.5	0
40	Enzymatic Synthesis and Fractionation of Fluorescent PolyU RNAs. <i>Bio-protocol</i> , 2018, 8, e2988.	0.4	0
41	The Nonmonotonic Dose Dependence of Protein Expression in Cells Transfected with Self-Amplifying RNA. <i>Journal of Virology</i> , 2022, , e0185821.	3.4	0