

Albert J Markvoort

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

4,119
citations

126907

33
h-index

114465

63
g-index

80
all docs

80
docs citations

80
times ranked

4386
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathway complexity in supramolecular polymerization. <i>Nature</i> , 2012, 481, 492-496.	27.8	812
2	Non-equilibrium supramolecular polymerization. <i>Chemical Society Reviews</i> , 2017, 46, 5476-5490.	38.1	429
3	Mechanism and microkinetics of the Fischer-Tropsch reaction. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17038.	2.8	233
4	Theoretical models of nonlinear effects in two-component cooperative supramolecular copolymerizations. <i>Nature Communications</i> , 2011, 2, 509.	12.8	184
5	An Equilibrium Model for Chiral Amplification in Supramolecular Polymers. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5291-5301.	2.6	175
6	Programmable chemical reaction networks: emulating regulatory functions in living cells using a bottom-up approach. <i>Chemical Society Reviews</i> , 2015, 44, 7465-7483.	38.1	123
7	Competing Interactions in Hierarchical Porphyrin Self-Assembly Introduce Robustness in Pathway Complexity. <i>Journal of the American Chemical Society</i> , 2018, 140, 7810-7819.	13.7	123
8	Supramolecular Block Copolymers under Thermodynamic Control. <i>Journal of the American Chemical Society</i> , 2018, 140, 7168-7175.	13.7	119
9	A Detailed Look at Vesicle Fusion. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13212-13219.	2.6	103
10	Kinetic Analysis as a Tool to Distinguish Pathway Complexity in Molecular Assembly: An Unexpected Outcome of Structures in Competition. <i>Journal of the American Chemical Society</i> , 2015, 137, 12677-12688.	13.7	92
11	Unexpectedly Strong Chiral Amplification of Chiral/Achiral and Chiral/Chiral Copolymers of Biphenylacetylenes and Further Enhancement/Inversion and Memory of the Macromolecular Helicity. <i>Journal of the American Chemical Society</i> , 2019, 141, 7605-7614.	13.7	92
12	Molecular dynamics study of the influence of wall-gas interactions on heat flow in nanochannels. <i>Physical Review E</i> , 2005, 71, 066702.	2.1	82
13	The Bilayer-Vesicle Transition Is Entropy Driven. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22649-22654.	2.6	80
14	Computation of accommodation coefficients and the use of velocity correlation profiles in molecular dynamics simulations. <i>Physical Review E</i> , 2010, 81, 011203.	2.1	72
15	Supramolecular Copolymers: Structure and Composition Revealed by Theoretical Modeling. <i>Journal of the American Chemical Society</i> , 2017, 139, 7036-7044.	13.7	64
16	Vesicle Shapes from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22780-22785.	2.6	62
17	Proximity-induced caspase-9 activation on a DNA origami-based synthetic apoptosome. <i>Nature Catalysis</i> , 2020, 3, 295-306.	34.4	62
18	Lipid Acrobatics in the Membrane Fusion Arena. <i>Current Topics in Membranes</i> , 2011, 68, 259-294.	0.9	60

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19	Model-driven optimization of multicomponent self-assembly processes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17205-17210.	7.1	57
20	Kinetics of the Fischer-Tropsch Reaction. Angewandte Chemie - International Edition, 2012, 51, 9015-9019.	13.8	55
21	Monomer Formation Model versus Chain Growth Model of the Fischer-Tropsch Reaction. Journal of Physical Chemistry C, 2013, 117, 4488-4504.	3.1	55
22	Lipid-Based Mechanisms for Vesicle Fission. Journal of Physical Chemistry B, 2007, 111, 5719-5725.	2.6	54
23	Tuning the Length of Cooperative Supramolecular Polymers under Thermodynamic Control. Journal of the American Chemical Society, 2019, 141, 18278-18285.	13.7	52
24	Elucidation of the origin of chiral amplification in discrete molecular polyhedra. Nature Communications, 2018, 9, 488.	12.8	51
25	Self-Reproduction of Fatty Acid Vesicles: A Combined Experimental and Simulation Study. Biophysical Journal, 2010, 99, 1520-1528.	0.5	50
26	Photodynamic Control of the Chain Length in Supramolecular Polymers: Switching an Intercalator into a Chain Capper. Journal of the American Chemical Society, 2020, 142, 6295-6303.	13.7	47
27	Threshold Sensing through a Synthetic Enzymatic Reaction-Diffusion Network. Angewandte Chemie - International Edition, 2014, 53, 8066-8069.	13.8	46
28	Counterion-Dependent Mechanisms of DNA Origami Nanostructure Stabilization Revealed by Atomistic Molecular Simulation. ACS Nano, 2019, 13, 10798-10809.	14.6	44
29	Vesicle Deformation by Draining: Geometrical and Topological Shape Changes. Journal of Physical Chemistry B, 2009, 113, 8731-8737.	2.6	41
30	Allosterically Controlled Threading of Polymers through Macrocyclic Dimers. Journal of the American Chemical Society, 2015, 137, 3915-3923.	13.7	40
31	Chain Growth by CO Insertion in the Fischer-Tropsch Reaction. ChemCatChem, 2013, 5, 3384-3397.	3.7	37
32	Equilibrium Model for Supramolecular Copolymerizations. Journal of Physical Chemistry B, 2019, 123, 6627-6642.	2.6	36
33	Consequences of Cooperativity in Racemizing Supramolecular Systems. Angewandte Chemie - International Edition, 2012, 51, 6426-6431.	13.8	35
34	Fragmentation and Coagulation in Supramolecular (Co)polymerization Kinetics. ACS Central Science, 2016, 2, 232-241.	11.3	35
35	Coarse-Grained Transmembrane Proteins: Hydrophobic Matching, Aggregation, and Their Effect on Fusion. Journal of Physical Chemistry B, 2006, 110, 13614-13623.	2.6	32
36	Conformational Analysis of Chiral Supramolecular Aggregates: Modeling the Subtle Difference between Hydrogen and Deuterium. Journal of the American Chemical Society, 2013, 135, 16497-16506.	13.7	31

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37	Coarse Grained Molecular Dynamics Simulations of Transmembrane Protein-Lipid Systems. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2393-2420.	4.1	25
38	Ultrasensitivity by Molecular Titration in Spatially Propagating Enzymatic Reactions. <i>Biophysical Journal</i> , 2013, 105, 1057-1066.	0.5	25
39	Detailed Approach to Investigate Thermodynamically Controlled Supramolecular Copolymerizations. <i>Macromolecules</i> , 2019, 52, 7430-7438.	4.8	25
40	Pathway Complexity in the Stacking of Imine-Linked Macrocycles Related to Two-Dimensional Covalent Organic Frameworks. <i>Chemistry of Materials</i> , 2019, 31, 7104-7111.	6.7	22
41	The CUMULUS Coarse Graining Method: Transferable Potentials for Water and Solutes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10001-10012.	2.6	20
42	Proteomic Analysis in Type 2 Diabetes Patients before and after a Very Low Calorie Diet Reveals Potential Disease State and Intervention Specific Biomarkers. <i>PLoS ONE</i> , 2014, 9, e112835.	2.5	19
43	Computer simulations of cellular group selection reveal mechanism for sustaining cooperation. <i>Journal of Theoretical Biology</i> , 2014, 357, 123-133.	1.7	17
44	Directional interactions in semiflexible single-chain polymer folding. <i>Soft Matter</i> , 2012, 8, 7610.	2.7	16
45	Evaporative self-assembly of single-chain, polymeric nanoparticles. <i>Chemical Communications</i> , 2013, 49, 3122.	4.1	16
46	Catalyst nano-particle size dependence of the Fischer-Tropsch reaction. <i>Faraday Discussions</i> , 2013, 162, 267.	3.2	16
47	Molecular Simulation of Protein Encapsulation in Vesicle Formation. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3346-3354.	2.6	16
48	On Protein Crowding and Bilayer Bulging in Spontaneous Vesicle Formation. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12677-12683.	2.6	12
49	Mass-Balance Models for Scrutinizing Supramolecular (Co)polymerizations in Thermodynamic Equilibrium. <i>Accounts of Chemical Research</i> , 2019, 52, 3465-3474.	15.6	12
50	Density distribution for a dense hard-sphere gas in micro/nano-channels: Analytical and simulation results. <i>Journal of Computational Physics</i> , 2006, 219, 532-552.	3.8	11
51	Coarse-grained modelling of urea-adamantyl functionalised poly(propylene imine) dendrimers. <i>Molecular Simulation</i> , 2016, 42, 882-895.	2.0	11
52	Photoisomerization induced scission of rod-like micelles unravelled with multiscale modeling. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 357-367.	9.4	11
53	Local Thomas-Fermi approximation for modeling the electronic structure of planar devices. <i>Physica B: Condensed Matter</i> , 2003, 325, 149-156.	2.7	9
54	Designed Asymmetric Protein Assembly on a Symmetric Scaffold. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12113-12121.	13.8	8

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55	Velocity Correlations and Accommodation Coefficients for Gas-Wall Interactions in Nanochannels. , 2008, , .		5
56	Methods for Multiscale Modeling of Membranes. Behavior Research Methods, 2012, 15, 139-170.	4.0	4
57	Multivalency in a Dendritic Host-Guest System. Macromolecules, 2019, 52, 2778-2788.	4.8	4
58	Laterally coupled jellium-like two-dimensional quantum dots. Journal of Physics Condensed Matter, 2003, 15, 6977-6984.	1.8	3
59	Fully local orbital-free calculation of electronic structure using pseudopotentials. Physica B: Condensed Matter, 2003, 339, 119-129.	2.7	2
60	A novel Method for Coarse Graining of Atomistic Simulations Using Boltzmann Inversion. Biophysical Journal, 2011, 100, 309a.	0.5	2
61	Designed Asymmetric Protein Assembly on a Symmetric Scaffold. Angewandte Chemie, 2020, 132, 12211-12219.	2.0	2
62	Local functional derivative of the total energy and the shell structure in atoms and molecules. Computational and Theoretical Chemistry, 2003, 638, 91-98.	1.5	1
63	Velocity Correlations Between Impinging and Reflecting Particles Using MD Simulations and Different Wall Models. , 2008, , .		1
64	Reflection of finite-width edge channels. Physical Review B, 1996, 54, 2806-2812.	3.2	0
65	New Derivation of a Particle Wall Boundary Condition in Molecular Dynamics. , 2007, , 767.		0
66	A Coarse Grained Molecular Dynamics Study of Self-Reproduction of Fatty Acid Vesicles. Biophysical Journal, 2010, 98, 272a.	0.5	0
67	Reproduction of Fatty Acid Vesicles. Biophysical Journal, 2010, 98, 272a.	0.5	0
68	Reproduction of Vesicles upon Fatty Acid Addition. Biophysical Journal, 2011, 100, 330a.	0.5	0
69	Protonation and the Matrix Effect of Oleate Vesicles, a Coarse Grained Molecular Dynamics Study. Biophysical Journal, 2012, 102, 397a.	0.5	0