

# 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  | Proximity-induced caspase-9 activation on a DNA origami-based synthetic apoptosome. <i>Nature Catalysis</i> , 2020, 3, 295-306.  | 34.4 | 62        |
| 2  | Designed Asymmetric Protein Assembly on a Symmetric Scaffold. <i>Angewandte Chemie</i> , 2020, 132, 12211-12219.   | 2.0  | 2         |
| 3  | Photodynamic Control of the Chain Length in Supramolecular Polymers: Switching an Intercalator into a Chain Capper. <i>Journal of the American Chemical Society</i> , 2020, 142, 6295-6303.  | 13.7 | 47        |
| 4  | Designed Asymmetric Protein Assembly on a Symmetric Scaffold. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12113-12121.  | 13.8 | 8         |
| 5  | 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        |
| 6  | Tuning the Length of Cooperative Supramolecular Polymers under Thermodynamic Control. <i>Journal of the American Chemical Society</i> , 2019, 141, 18278-18285.  | 13.7 | 52        |
| 7  | Counterion-Dependent Mechanisms of DNA Origami Nanostructure Stabilization Revealed by Atomistic Molecular Simulation. <i>ACS Nano</i> , 2019, 13, 10798-10809.  | 14.6 | 44        |
| 8  | Detailed Approach to Investigate Thermodynamically Controlled Supramolecular Copolymerizations. <i>Macromolecules</i> , 2019, 52, 7430-7438.   | 4.8  | 25        |
| 9  | Equilibrium Model for Supramolecular Copolymerizations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6627-6642.   | 2.6  | 36        |
| 10 | 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        |
| 11 | Multivalency in a Dendritic Host-Guest System. <i>Macromolecules</i> , 2019, 52, 2778-2788.  | 4.8  | 4         |
| 12 | Mass-Balance Models for Scrutinizing Supramolecular (Co)polymerizations in Thermodynamic Equilibrium. <i>Accounts of Chemical Research</i> , 2019, 52, 3465-3474.  | 15.6 | 12        |
| 13 | Elucidation of the origin of chiral amplification in discrete molecular polyhedra. <i>Nature Communications</i> , 2018, 9, 488.  | 12.8 | 51        |
| 14 | 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        |
| 15 | Supramolecular Block Copolymers under Thermodynamic Control. <i>Journal of the American Chemical Society</i> , 2018, 140, 7168-7175.   | 13.7 | 119       |
| 16 | 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       |
| 17 | Supramolecular Copolymers: Structure and Composition Revealed by Theoretical Modeling. <i>Journal of the American Chemical Society</i> , 2017, 139, 7036-7044.   | 13.7 | 64        |
| 18 | Non-equilibrium supramolecular polymerization. <i>Chemical Society Reviews</i> , 2017, 46, 5476-5490.  | 38.1 | 429       |

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|----|---|------|-----------|
| 19 | Fragmentation and Coagulation in Supramolecular (Co)polymerization Kinetics. ACS Central Science, 2016, 2, 232-241.   | 11.3 | 35        |
| 20 | Coarse-grained modelling of urea-adamantyl functionalised poly(propylene imine) dendrimers. Molecular Simulation, 2016, 42, 882-895.  | 2.0  | 11        |
| 21 | Allosterically Controlled Threading of Polymers through Macrocyclic Dimers. Journal of the American Chemical Society, 2015, 137, 3915-3923.   | 13.7 | 40        |
| 22 | Programmable chemical reaction networks: emulating regulatory functions in living cells using a bottom-up approach. Chemical Society Reviews, 2015, 44, 7465-7483.  | 38.1 | 123       |
| 23 | Kinetic Analysis as a Tool to Distinguish Pathway Complexity in Molecular Assembly: An Unexpected Outcome of Structures in Competition. Journal of the American Chemical Society, 2015, 137, 12677-12688. | 13.7 | 92        |
| 24 | Proteomic Analysis in Type 2 Diabetes Patients before and after a Very Low Calorie Diet Reveals Potential Disease State and Intervention Specific Biomarkers. PLoS ONE, 2014, 9, e112835.                 | 2.5  | 19        |
| 25 | Threshold Sensing through a Synthetic Enzymatic Reaction "Diffusion Network. Angewandte Chemie - International Edition, 2014, 53, 8066-8069.  | 13.8 | 46        |
| 26 | Molecular Simulation of Protein Encapsulation in Vesicle Formation. Journal of Physical Chemistry B, 2014, 118, 3346-3354.  | 2.6  | 16        |
| 27 | Computer simulations of cellular group selection reveal mechanism for sustaining cooperation. Journal of Theoretical Biology, 2014, 357, 123-133.   | 1.7  | 17        |
| 28 | 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        |
| 29 | Mechanism and microkinetics of the Fischer "Tropsch reaction. Physical Chemistry Chemical Physics, 2013, 15, 17038.   | 2.8  | 233       |
| 30 | Ultrasensitivity by Molecular Titration in Spatially Propagating Enzymatic Reactions. Biophysical Journal, 2013, 105, 1057-1066.  | 0.5  | 25        |
| 31 | Evaporative self-assembly of single-chain, polymeric nanoparticles. Chemical Communications, 2013, 49, 3122.  | 4.1  | 16        |
| 32 | Monomer Formation Model versus Chain Growth Model of the Fischer "Tropsch Reaction. Journal of Physical Chemistry C, 2013, 117, 4488-4504.  | 3.1  | 55        |
| 33 | Chain Growth by CO Insertion in the Fischer "Tropsch Reaction. ChemCatChem, 2013, 5, 3384-3397.   | 3.7  | 37        |
| 34 | Catalyst nano-particle size dependence of the Fischer "Tropsch reaction. Faraday Discussions, 2013, 162, 267.   | 3.2  | 16        |
| 35 | 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        |
| 36 | Methods for Multiscale Modeling of Membranes. Behavior Research Methods, 2012, 15, 139-170.   | 4.0  | 4         |

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|----|--|------|-----------|
| 37 | Directional interactions in semiflexible single-chain polymer folding. <i>Soft Matter</i> , 2012, 8, 7610.   | 2.7  | 16        |
| 38 | On Protein Crowding and Bilayer Bulging in Spontaneous Vesicle Formation. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12677-12683.                             | 2.6  | 12        |
| 39 | An Equilibrium Model for Chiral Amplification in Supramolecular Polymers. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5291-5301.                               | 2.6  | 175       |
| 40 | Protonation and the Matrix Effect of Oleate Vesicles, a Coarse Grained Molecular Dynamics Study. <i>Biophysical Journal</i> , 2012, 102, 397a.                         | 0.5  | 0         |
| 41 | Pathway complexity in supramolecular polymerization. <i>Nature</i> , 2012, 481, 492-496.   | 27.8 | 812       |
| 42 | Consequences of Cooperativity in Racemizing Supramolecular Systems. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6426-6431.                            | 13.8 | 35        |
| 43 | Kinetics of the Fischer-Tropsch Reaction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9015-9019.  | 13.8 | 55        |
| 44 | 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        |
| 45 | Reproduction of Vesicles upon Fatty Acid Addition. <i>Biophysical Journal</i> , 2011, 100, 330a.   | 0.5  | 0         |
| 46 | A novel Method for Coarse Graining of Atomistic Simulations Using Boltzmann Inversion. <i>Biophysical Journal</i> , 2011, 100, 309a.                                   | 0.5  | 2         |
| 47 | Theoretical models of nonlinear effects in two-component cooperative supramolecular copolymerizations. <i>Nature Communications</i> , 2011, 2, 509.                    | 12.8 | 184       |
| 48 | Lipid Acrobatics in the Membrane Fusion Arena. <i>Current Topics in Membranes</i> , 2011, 68, 259-294.   | 0.9  | 60        |
| 49 | Coarse Grained Molecular Dynamics Simulations of Transmembrane Protein-Lipid Systems. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2393-2420.        | 4.1  | 25        |
| 50 | A Coarse Grained Molecular Dynamics Study of Self-Reproduction of Fatty Acid Vesicles. <i>Biophysical Journal</i> , 2010, 98, 272a.                                    | 0.5  | 0         |
| 51 | Reproduction of Fatty Acid Vesicles. <i>Biophysical Journal</i> , 2010, 98, 272a.  | 0.5  | 0         |
| 52 | Self-Reproduction of Fatty Acid Vesicles: A Combined Experimental and Simulation Study. <i>Biophysical Journal</i> , 2010, 99, 1520-1528.                              | 0.5  | 50        |
| 53 | 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        |
| 54 | Vesicle Deformation by Draining: Geometrical and Topological Shape Changes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8731-8737.                             | 2.6  | 41        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Velocity Correlations Between Impinging and Reflecting Particles Using MD Simulations and Different Wall Models. , 2008, , .                                      |     | 1         |
| 56 | Velocity Correlations and Accommodation Coefficients for Gas-Wall Interactions in Nanochannels. , 2008, , .   |     | 5         |
| 57 | New Derivation of a Particle Wall Boundary Condition in Molecular Dynamics. , 2007, , 767.  |     | 0         |
| 58 | Lipid-Based Mechanisms for Vesicle Fission. Journal of Physical Chemistry B, 2007, 111, 5719-5725.  | 2.6 | 54        |
| 59 | Coarse-Grained Transmembrane Proteins: Hydrophobic Matching, Aggregation, and Their Effect on Fusion. Journal of Physical Chemistry B, 2006, 110, 13614-13623.    | 2.6 | 32        |
| 60 | Vesicle Shapes from Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2006, 110, 22780-22785.  | 2.6 | 62        |
| 61 | A Detailed Look at Vesicle Fusion. Journal of Physical Chemistry B, 2006, 110, 13212-13219.   | 2.6 | 103       |
| 62 | Density distribution for a dense hard-sphere gas in micro/nano-channels: Analytical and simulation results. Journal of Computational Physics, 2006, 219, 532-552. | 3.8 | 11        |
| 63 | Molecular dynamics study of the influence of wall-gas interactions on heat flow in nanochannels. Physical Review E, 2005, 71, 066702.                             | 2.1 | 82        |
| 64 | The Bilayer Vesicle Transition Is Entropy Driven. Journal of Physical Chemistry B, 2005, 109, 22649-22654.  | 2.6 | 80        |
| 65 | Fully local orbital-free calculation of electronic structure using pseudopotentials. Physica B: Condensed Matter, 2003, 339, 119-129.                             | 2.7 | 2         |
| 66 | 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         |
| 67 | Local Thomas-Fermi approximation for modeling the electronic structure of planar devices. Physica B: Condensed Matter, 2003, 325, 149-156.                        | 2.7 | 9         |
| 68 | Laterally coupled jellium-like two-dimensional quantum dots. Journal of Physics Condensed Matter, 2003, 15, 6977-6984.  | 1.8 | 3         |
| 69 | Reflection of finite-width edge channels. Physical Review B, 1996, 54, 2806-2812.   | 3.2 | 0         |