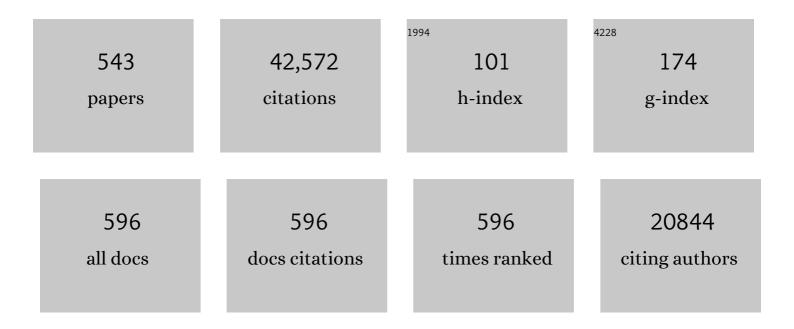
Gregory A Voth

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Key Factors Governing Initial Stages of Lipid Droplet Formation. Journal of Physical Chemistry B, 2022, 126, 453-462. | 2.6 | 15 |
| 2 | Using Machine Learning to Greatly Accelerate Path Integral <i>Ab Initio</i> Molecular Dynamics. Journal of Chemical Theory and Computation, 2022, 18, 599-604. | 5.3 | 11 |
| 3 | Multiscale Simulation of an Influenza A M2 Channel Mutant Reveals Key Features of Its Markedly Different Proton Transport Behavior. Journal of the American Chemical Society, 2022, 144, 769-776. | 13.7 | 6 |
| 4 | Ion permeation, selectivity, and electronic polarization in fluoride channels. Biophysical Journal, 2022, 121, 1336-1347. | 0.5 | 12 |
| 5 | Multiscale simulations of viruses. Biophysical Journal, 2022, 121, 330a. | 0.5 | 0 |
| 6 | Cooperative multivalent receptor binding promotes exposure of the SARS-CoV-2 fusion machinery core. Nature Communications, 2022, 13, 1002. | 12.8 | 30 |
| 7 | Strain and rupture of HIV-1 capsids during uncoating. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117781119. | 7.1 | 21 |
| 8 | Computational Studies of Lipid Droplets. Journal of Physical Chemistry B, 2022, 126, 2145-2154. | 2.6 | 19 |
| 9 | Static and Dynamic Correlations in Water: Comparison of Classical Ab Initio Molecular Dynamics at Elevated Temperature with Path Integral Simulations at Ambient Temperature. Journal of Chemical Theory and Computation, 2022, 18, 2124-2131. | 5.3 | 16 |
| 10 | Seipin transmembrane segments critically function in triglyceride nucleation and lipid droplet budding from the membrane. ELife, 2022, 11, . | 6.0 | 22 |
| 11 | Proton coupling and the multiscale kinetic mechanism of a peptide transporter. Biophysical Journal, 2022, 121, 2266-2278. | 0.5 | 9 |
| 12 | Inositol Hexakisphosphate (IP6) Accelerates Immature HIV-1 Gag Protein Assembly toward Kinetically Trapped Morphologies. Journal of the American Chemical Society, 2022, 144, 10417-10428. | 13.7 | 12 |
| 13 | A multiscale coarse-grained model of the SARS-CoV-2 virion. Biophysical Journal, 2021, 120, 1097-1104. | 0.5 | 139 |
| 14 | Immature HIV-1 assembles from Gag dimers leaving partial hexamers at lattice edges as potential substrates for proteolytic maturation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 40 |
| 15 | Coarse-Grained Force Fields from the Perspective of Statistical Mechanics: Better Understanding of the Origins of a MARTINI Hangover. Journal of Chemical Theory and Computation, 2021, 17, 1170-1180. | 5.3 | 46 |
| 16 | Molecular interactions of theÂM and E integral membrane proteins of SARS-CoV-2. Faraday Discussions, 2021, 232, 49-67. | 3.2 | 19 |
| 17 | Structural basis of fast- and slow-severing actin–cofilactin boundaries. Journal of Biological Chemistry, 2021, 296, 100337. | 3.4 | 15 |
| 18 | A new one-site coarse-grained model for water: Bottom-up many-body projected water (BUMPer). II. Temperature transferability and structural properties at low temperature. Journal of Chemical Physics, 2021, 154, 044105. | 3.0 | 17 |

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| 19 | Lipid-Composition-Mediated Forces Can Stabilize Tubular Assemblies of I-BAR Proteins. Biophysical Journal, 2021, 120, 46-54. | 0.5 | 18 |
| 20 | A new one-site coarse-grained model for water: Bottom-up many-body projected water (BUMPer). I. General theory and model. Journal of Chemical Physics, 2021, 154, 044104. | 3.0 | 21 |
| 21 | Constructing many-body dissipative particle dynamics models of fluids from bottom-up coarse-graining. Journal of Chemical Physics, 2021, 154, 084122. | 3.0 | 23 |
| 22 | Compressive and Tensile Deformations Alter ATP Hydrolysis and Phosphate Release Rates in Actin Filaments. Journal of Chemical Theory and Computation, 2021, 17, 1900-1913. | 5.3 | 14 |
| 23 | Modeling Protein-Lipid Interactions during Viral Assembly of SARS-CoV-2. Biophysical Journal, 2021, 120, 49a. | 0.5 | 0 |
| 24 | Synthesis, Characterization, and Simulation of Four-Armed Megamolecules. Biomacromolecules, 2021, 22, 2363-2372. | 5.4 | 4 |
| 25 | The hopping mechanism of the hydrated excess proton and its contribution to proton diffusion in water. Journal of Chemical Physics, 2021, 154, 194506. | 3.0 | 12 |
| 26 | Physical Characterization of Triolein and Implications for Its Role in Lipid Droplet Biogenesis. Journal of Physical Chemistry B, 2021, 125, 6874-6888. | 2.6 | 13 |
| 27 | Key computational findings reveal proton transfer as driving the functional cycle in the phosphate transporter PiPT. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 10 |
| 28 | Structural Characterization of Protonated Water Clusters Confined in HZSM-5 Zeolites. Journal of the American Chemical Society, 2021, 143, 10203-10213. | 13.7 | 35 |
| 29 | Advanced Materials for Energy-Water Systems: The Central Role of Water/Solid Interfaces in Adsorption, Reactivity, and Transport. Chemical Reviews, 2021, 121, 9450-9501. | 47.7 | 43 |
| 30 | Formin Cdc12's specific actin assembly properties are tailored for cytokinesis in fission yeast. Biophysical Journal, 2021, 120, 2984-2997. | 0.5 | 6 |
| 31 | Using Constrained Density Functional Theory to Track Proton Transfers and to Sample Their Associated Free Energy Surface. Journal of Chemical Theory and Computation, 2021, 17, 5759-5765. | 5.3 | 9 |
| 32 | Accurate and Transferable Reactive Molecular Dynamics Models from Constrained Density Functional Theory. Journal of Physical Chemistry B, 2021, 125, 10471-10480. | 2.6 | 11 |
| 33 | Integrin-based mechanosensing through conformational deformation. Biophysical Journal, 2021, 120, 4349-4359. | 0.5 | 10 |
| 34 | Resolving the Structural Debate for the Hydrated Excess Proton in Water. Journal of the American Chemical Society, 2021, 143, 18672-18683. | 13.7 | 31 |
| 35 | Preservation of HIV-1 Gag Helical Bundle Symmetry by Bevirimat Is Central to Maturation Inhibition. Journal of the American Chemical Society, 2021, 143, 19137-19148. | 13.7 | 12 |
| 36 | A quantitative paradigm for water-assisted proton transport through proteins and other confined spaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 16 |

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| 37 | Local conformational dynamics regulating transport properties of a Cl â^' /H + antiporter. Journal of Computational Chemistry, 2020, 41, 513-519. | 3.3 | 9 |
| 38 | Temperature and Phase Transferable Bottom-up Coarse-Grained Models. Journal of Chemical Theory and Computation, 2020, 16, 6823-6842. | 5.3 | 36 |
| 39 | Molecular Origins of the Barriers to Proton Transport in Acidic Aqueous Solutions. Journal of Physical Chemistry B, 2020, 124, 8868-8876. | 2.6 | 12 |
| 40 | Multiscale Simulation Reveals Passive Proton Transport Through SERCA on the Microsecond Timescale. Biophysical Journal, 2020, 119, 1033-1040. | 0.5 | 11 |
| 41 | Structural basis for polarized elongation of actin filaments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30458-30464. | 7.1 | 27 |
| 42 | Minimal Experimental Bias on the Hydrogen Bond Greatly Improves Ab Initio Molecular Dynamics Simulations of Water. Journal of Chemical Theory and Computation, 2020, 16, 5675-5684. | 5.3 | 9 |
| 43 | Density Functional Theory-Based Quantum Mechanics/Coarse-Grained Molecular Mechanics: Theory and Implementation. Journal of Chemical Theory and Computation, 2020, 16, 6329-6342. | 5.3 | 9 |
| 44 | Atomic-scale characterization of mature HIV-1 capsid stabilization by inositol hexakisphosphate (IP) Tj ETQq0 0 | 0 rgBT/Ov | erlock 10 Tf 5 |
| 45 | Influenza A M2 Inhibitor Binding Understood through Mechanisms of Excess Proton Stabilization and Channel Dynamics. Journal of the American Chemical Society, 2020, 142, 17425-17433. | 13.7 | 19 |
| 46 | Microtubule Simulations Provide Insight into the Molecular Mechanism Underlying Dynamic Instability. Biophysical Journal, 2020, 118, 2938-2951. | 0.5 | 22 |
| 47 | A helical assembly of human ESCRT-I scaffolds reverse-topology membrane scission. Nature Structural and Molecular Biology, 2020, 27, 570-580. | 8.2 | 44 |
| 48 | What Coordinate Best Describes the Affinity of the Hydrated Excess Proton for the Air–Water Interface?. Journal of Physical Chemistry B, 2020, 124, 5039-5046. | 2.6 | 9 |
| 49 | Interfacial solvation and slow transport of hydrated excess protons in non-ionic reverse micelles. Physical Chemistry Chemical Physics, 2020, 22, 10753-10763. | 2.8 | 4 |
| 50 | TRIM5α self-assembly and compartmentalization of the HIV-1 viral capsid. Nature Communications, 2020, 11, 1307. | 12.8 | 51 |
| 51 | Water-Assisted Proton Transport in Confined Nanochannels. Journal of Physical Chemistry C, 2020, 124, 16186-16201. | 3.1 | 12 |
| 52 | Cholesterol Alters the Orientation and Activity of the Influenza Virus M2 Amphipathic Helix in the Membrane. Journal of Physical Chemistry B, 2020, 124, 6738-6747. | 2.6 | 22 |
| 53 | Reactive Coarse-Grained Molecular Dynamics. Journal of Chemical Theory and Computation, 2020, 16, 2541-2549. | 5.3 | 11 |
| 54 | Modeling Synthesized Protein Megamolecules: Structure, Dynamics, and Functions. Biophysical Journal, 2020, 118, 517a. | 0.5 | 0 |

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| 55 | Anisotropic Motions of Fibrils Dictated by Their Orientations in the Lamella: A Coarse-Grained Model of a Plant Cell Wall. Journal of Physical Chemistry B, 2020, 124, 3527-3539. | 2.6 | 9 |
| 56 | Binding mechanism of the matrix domain of HIV-1 gag on lipid membranes. ELife, 2020, 9, . | 6.0 | 21 |
| 57 | Dynamic Protonation Dramatically Affects the Membrane Permeability of Drug-like Molecules. Journal of the American Chemical Society, 2019, 141, 13421-13433. | 13.7 | 56 |
| 58 | Plastic Deformation and Fragmentation of Strained Actin Filaments. Biophysical Journal, 2019, 117, 453-463. | 0.5 | 19 |
| 59 | Understanding Missing Entropy in Coarse-Grained Systems: Addressing Issues of Representability and Transferability. Journal of Physical Chemistry Letters, 2019, 10, 4549-4557. | 4.6 | 51 |
| 60 | Mechanical and kinetic factors drive sorting of F-actin cross-linkers on bundles. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16192-16197. | 7.1 | 43 |
| 61 | Unusual Organization of I-BAR Proteins on Tubular and Vesicular Membranes. Biophysical Journal, 2019, 117, 553-562. | 0.5 | 27 |
| 62 | Proton-Induced Conformational and Hydration Dynamics in the Influenza A M2 Channel. Journal of the American Chemical Society, 2019, 141, 11667-11676. | 13.7 | 28 |
| 63 | Compatible observable decompositions for coarse-grained representations of real molecular systems. Journal of Chemical Physics, 2019, 151, 134115. | 3.0 | 16 |
| 64 | Adversarial-residual-coarse-graining: Applying machine learning theory to systematic molecular coarse-graining. Journal of Chemical Physics, 2019, 151, 124110. | 3.0 | 30 |
| 65 | Systematic Coarse-Grained Lipid Force Fields with Semiexplicit Solvation via Virtual Sites. Journal of Chemical Theory and Computation, 2019, 15, 2087-2100. | 5.3 | 26 |
| 66 | Coarse-graining of many-body path integrals: Theory and numerical approximations. Journal of Chemical Physics, 2019, 150, 244103. | 3.0 | 2 |
| 67 | Off-Pathway Assembly: A Broad-Spectrum Mechanism of Action for Drugs That Undermine Controlled HIV-1 Viral Capsid Formation. Journal of the American Chemical Society, 2019, 141, 10214-10224. | 13.7 | 38 |
| 68 | Multiscale model of integrin adhesion assembly. PLoS Computational Biology, 2019, 15, e1007077. | 3.2 | 34 |
| 69 | Coarse-graining involving virtual sites: Centers of symmetry coarse-graining. Journal of Chemical Physics, 2019, 150, 154103. | 3.0 | 16 |
| 70 | Multiconfigurational Coarse-Grained Molecular Dynamics. Journal of Chemical Theory and Computation, 2019, 15, 3306-3315. | 5.3 | 22 |
| 71 | Coarse-Grained Simulation of Full-Length Integrin Activation. Biophysical Journal, 2019, 116, 1000-1010. | 0.5 | 22 |
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| 74 | Quantum mechanics/coarse-grained molecular mechanics (QM/CG-MM). Journal of Chemical Physics, 2018, 148, 014102. | 3.0 | 11 |
| 75 | Multiscale Kinetic Modeling Reveals an Ensemble of Cl [–] /H ⁺ Exchange Pathways in ClC-ec1 Antiporter. Journal of the American Chemical Society, 2018, 140, 1793-1804. | 13.7 | 39 |
| 76 | Quantum theory of multiscale coarse-graining. Journal of Chemical Physics, 2018, 148, 102335. | 3.0 | 13 |
| 77 | Mechanism and Determinants of Amphipathic Helix-Containing Protein Targeting to Lipid Droplets. Developmental Cell, 2018, 44, 73-86.e4. | 7.0 | 175 |
| 78 | Organizing membrane-curving proteins: the emerging dynamical picture. Current Opinion in Structural Biology, 2018, 51, 99-105. | 5.7 | 34 |
| 79 | Ultra-Coarse-Grained Models Allow for an Accurate and Transferable Treatment of Interfacial Systems. Journal of Chemical Theory and Computation, 2018, 14, 2180-2197. | 5.3 | 52 |
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| 82 | Advances in coarse-grained modeling of macromolecular complexes. Current Opinion in Structural Biology, 2018, 52, 119-126. | 5.7 | 100 |
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| 84 | Multiscale simulation of actin filaments and actin-associated proteins. Biophysical Reviews, 2018, 10, 1521-1535. | 3.2 | 7 |
| 85 | Insights into the Cooperative Nature of ATP Hydrolysis in Actin Filaments. Biophysical Journal, 2018, 115, 1589-1602. | O.5 | 29 |
| 86 | Mesoscopic coarse-grained representations of fluids rigorously derived from atomistic models. Journal of Chemical Physics, 2018, 149, 044104. | 3.0 | 23 |
| 87 | The 2018 biomembrane curvature and remodeling roadmap. Journal Physics D: Applied Physics, 2018, 51, 343001. | 2.8 | 212 |
| 88 | Entropic forces drive clustering and spatial localization of influenza A M2 during viral budding. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8595-E8603. | 7.1 | 47 |
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| 90 | Gating mechanisms during actin filament elongation by formins. ELife, 2018, 7, . | 6.0 | 25 |

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| 91 | Simulations of N-BAR Protein Interactions with Membranes. Journal Physics D: Applied Physics, 2018, 51, 35-36. | 2.8 | 0 |
| 92 | The Theory of Ultra-Coarse-Graining. 3. Coarse-Grained Sites with Rapid Local Equilibrium of Internal States. Journal of Chemical Theory and Computation, 2017, 13, 1010-1022. | 5.3 | 54 |
| 93 | Highly Coarse-Grained Representations of Transmembrane Proteins. Journal of Chemical Theory and Computation, 2017, 13, 935-944. | 5.3 | 17 |
| 94 | Communication: Improved <i>ab initio</i> molecular dynamics by minimally biasing with experimental data. Journal of Chemical Physics, 2017, 146, 041102. | 3.0 | 20 |
| 95 | IR spectral assignments for the hydrated excess proton in liquid water. Journal of Chemical Physics, 2017, 146, 154507. | 3.0 | 61 |
| 96 | Reactive molecular dynamics models from ab initio molecular dynamics data using relative entropy minimization. Chemical Physics Letters, 2017, 683, 573-578. | 2.6 | 4 |
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| 98 | Friction Mediates Scission of Tubular Membranes Scaffolded by BAR Proteins. Cell, 2017, 170, 172-184.e11. | 28.9 | 171 |
| 99 | Role of solvation structure in the shuttling of the hydrated excess proton. Journal of Chemical Sciences, 2017, 129, 1045-1051. | 1.5 | 4 |
| 100 | Understanding the essential proton-pumping kinetic gates and decoupling mutations in cytochrome <i>c</i> oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5924-5929. | 7.1 | 40 |
| 101 | The Origin of Coupled Chloride and Proton Transport in a Cl - /H + Antiporter. Biophysical Journal, 2017, 112, 254a-255a. | 0.5 | 0 |
| 102 | Simulating Protein Mediated Hydrolysis of ATP and Other Nucleoside Triphosphates by Combining QM/MM Molecular Dynamics with Advances in Metadynamics. Journal of Chemical Theory and Computation, 2017, 13, 2332-2341. | 5.3 | 40 |
| 103 | A Multiscale Description of Biomolecular Active Matter: The Chemistry Underlying Many Life Processes. Accounts of Chemical Research, 2017, 50, 594-598. | 15.6 | 18 |
| 104 | Mechanoregulated inhibition of formin facilitates contractile actomyosin ring assembly. Nature Communications, 2017, 8, 703. | 12.8 | 66 |
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| 109 | Extending the range and physical accuracy of coarse-grained models: Order parameter dependent interactions. Journal of Chemical Physics, 2017, 147, 044113. | 3.0 | 53 |
| 110 | Coarse-Grained Directed Simulation. Journal of Chemical Theory and Computation, 2017, 13, 4593-4603. | 5.3 | 11 |
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| 113 | Proton movement and coupling in the POT family of peptide transporters. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13182-13187. | 7.1 | 81 |
| 114 | Immature HIV-1 lattice assembly dynamics are regulated by scaffolding from nucleic acid and the plasma membrane. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10056-E10065. | 7.1 | 86 |
| 115 | Competition between Tropomyosin, Fimbrin, and ADF/Cofilin drives their sorting to distinct actin filament networks. ELife, 2017, 6, . | 6.0 | 76 |
| 116 | Molecular modeling and assignment of IR spectra of the hydrated excess proton in isotopically dilute water. Journal of Chemical Physics, 2016, 145, 154504. | 3.0 | 19 |
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| 120 | Multiscale Simulations Reveal Key Aspects of the Proton Transport Mechanism in the ClC-ec1 Antiporter. Biophysical Journal, 2016, 110, 1334-1345. | 0.5 | 55 |
| 121 | Coupling Protein Dynamics with Proton Transport in Human Carbonic Anhydrase II. Journal of Physical Chemistry B, 2016, 120, 8389-8404. | 2.6 | 27 |
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| 123 | Transition-Tempered Metadynamics Is a Promising Tool for Studying the Permeation of Drug-like Molecules through Membranes. Journal of Chemical Theory and Computation, 2016, 12, 5157-5169. | 5.3 | 54 |
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| 125 | How curvature-generating proteins build scaffolds on membrane nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11226-11231. | 7.1 | 120 |
| 126 | Acid activation mechanism of the influenza A M2 proton channel. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6955-E6964. | 7.1 | 81 |

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| 127 | The Origin of Coupled Chloride and Proton Transport in a Cl [–] /H ⁺ Antiporter. Journal of the American Chemical Society, 2016, 138, 14923-14930. | 13.7 | 41 |
| 128 | Coarse-grained simulation reveals key features of HIV-1 capsid self-assembly. Nature Communications, 2016, 7, 11568. | 12.8 | 134 |
| 129 | Multiscale simulations reveal key features of the proton-pumping mechanism in cytochrome <i>c</i> oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7420-7425. | 7.1 | 60 |
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| 131 | Selective Targeting of Lipid Droplets by Proteins. Biophysical Journal, 2016, 110, 574a. | 0.5 | 0 |
| 132 | The F-actin bundler α-actinin Ain1 is tailored for ring assembly and constriction during cytokinesis in fission yeast. Molecular Biology of the Cell, 2016, 27, 1821-1833. | 2.1 | 47 |
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| 134 | Cations Stiffen Actin Filaments by Adhering a Key Structural Element to Adjacent Subunits. Journal of Physical Chemistry B, 2016, 120, 4558-4567. | 2.6 | 39 |
| 135 | Hydroxide Solvation and Transport in Anion Exchange Membranes. Journal of the American Chemical Society, 2016, 138, 991-1000. | 13.7 | 208 |
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| 151 | Exploring Valleys without Climbing Every Peak: More Efficient and Forgiving Metabasin Metadynamics via Robust On-the-Fly Bias Domain Restriction. Journal of Chemical Theory and Computation, 2015, 11, 5638-5650. | 5.3 | 31 |
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| 157 | The Theory of Ultra-Coarse-Graining. 2. Numerical Implementation. Journal of Chemical Theory and Computation, 2014, 10, 5265-5275. | 5.3 | 60 |
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| 159 | Persistent Subdiffusive Proton Transport in Perfluorosulfonic Acid Membranes. Journal of Physical Chemistry Letters, 2014, 5, 3037-3042. | 4.6 | 33 |
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