

Scott T Milner

List of Publications by Year in descending order

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78
papers

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186209

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docs citations

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times ranked

2444
citing authors

#	ARTICLE	IF	CITATIONS
1	Insertion free energy of PAP[5] water channels into block copolymer membranes. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 273-284.	1.7	4
2	Closed-Loop Phase Behavior of Nonstoichiometric Coacervates in Coarse-Grained Simulations. <i>Macromolecules</i> , 2022, 55, 511-516.	2.2	5
3	Hydration shell stripping governs ion rejection in PAP[5] water channels. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 809-819.	1.7	7
4	A simple simulation model for complex coacervates. <i>Soft Matter</i> , 2021, 17, 9181-9188.	1.2	6
5	Simulated Osmotic Equation of State for Poly(ethylene Oxide) Solutions Predicts Tension-Induced Phase Separation. <i>Macromolecules</i> , 2021, 54, 3613-3619.	2.2	6
6	Molecular dynamics simulation based design of biomimetic membrane with artificial water channels. <i>Journal of Membrane Science</i> , 2021, 630, 119279.	4.1	11
7	Measuring packing length in simulations for different polymer architectures. <i>Journal of Rheology</i> , 2021, 65, 1245-1253.	1.3	3
8	Predicting ζ of Polymer Blends Using Atomistic Morphing Simulations. <i>Macromolecules</i> , 2021, 54, 10447-10455.	2.2	7
9	Using osmotic pressure simulations to test potentials for ions. <i>Soft Matter</i> , 2020, 16, 9816-9821.	1.2	10
10	Chain tension reduces monomer friction in simulated polymer melts. <i>Journal of Rheology</i> , 2020, 64, 1373-1378.	1.3	15
11	Tight binding models accurately predict band structures for copolymer semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19659-19671.	1.3	8
12	Morphing Simulations Reveal Architecture Effects on Polymer Miscibility. <i>Macromolecules</i> , 2020, 53, 9386-9396.	2.2	7
13	Polaron hopping barriers and rates in semiconducting polymers. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4032-4042.	1.3	7
14	Unified Entanglement Scaling for Flexible, Semiflexible, and Stiff Polymer Melts and Solutions. <i>Macromolecules</i> , 2020, 53, 1314-1325.	2.2	24
15	Simulation Study of Entanglement in Semiflexible Polymer Melts and Solutions. <i>Macromolecules</i> , 2020, 53, 3861-3872.	2.2	15
16	Energetics of exciton binding and dissociation in polythiophenes: a tight binding approach. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11999-12011.	1.3	7
17	Thermal Fluctuations Lead to Cumulative Disorder and Enhance Charge Transport in Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900134.	2.0	8
18	Anisotropic Growth of Silver Nanoparticles Is Kinetically Controlled by Polyvinylpyrrolidone Binding. <i>Journal of the American Chemical Society</i> , 2019, 141, 4328-4337.	6.6	77

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19	Nematic Coupling in Polybutadiene from MD Simulations. <i>Macromolecules</i> , 2019, 52, 528-534.	2.2	4
20	Nematic Order Imposes Molecular Weight Effect on Charge Transport in Conjugated Polymers. <i>ACS Central Science</i> , 2018, 4, 413-421.	5.3	16
21	Molecular dynamics study of correlations between $\langle \text{scp} \rangle$ peak position and bond parameters of silica and silicate glasses: Effects of temperature and stress. <i>Journal of the American Ceramic Society</i> , 2018, 101, 178-188.	1.9	41
22	Effects of Anisotropy and Disorder on Crystal-Melt Tensions in Polyolefins. <i>Macromolecules</i> , 2018, 51, 7121-7133.	2.2	1
23	Side chain length affects backbone dynamics in poly(alkylthiophene)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1193-1202.	2.4	31
24	Average and Local $\langle T \rangle_g$ Shifts of Plasticized PVC from Simulations. <i>Macromolecules</i> , 2018, 51, 3865-3873.	2.2	18
25	A geometrical criterion for glass transition in soft-sphere fluids. <i>Soft Matter</i> , 2018, 14, 7075-7082.	1.2	5
26	Two Distinct Morphologies for Semicrystalline Isotactic Polypropylene Crystallized after Shear Flow. <i>Macromolecules</i> , 2018, 51, 4750-4761.	2.2	27
27	Polaron formation mechanisms in conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 317-331.	1.3	33
28	Depletion attraction of sheet-like ion aggregates in low-dielectric ionomer melts. <i>Journal of Chemical Physics</i> , 2017, 146, 064901.	1.2	3
29	Extended Ensemble Approach to Transferable Potentials for Low-Resolution Coarse-Grained Models of Ionomers. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2185-2201.	2.3	13
30	Plunger Method for Simulating Crystal-Melt Interfacial Free Energies. <i>Macromolecules</i> , 2017, 50, 4797-4806.	2.2	7
31	Predicting Raman Spectra of Condensed Polymer Phases from MD Simulations. <i>Macromolecules</i> , 2017, 50, 9773-9787.	2.2	2
32	Short-Time Dynamics Reveals $\langle T \rangle_g$ Suppression in Simulated Polystyrene Thin Films. <i>Macromolecules</i> , 2017, 50, 5599-5610.	2.2	46
33	Predicting Flory-Huggins χ from Simulations. <i>Physical Review Letters</i> , 2017, 119, 017801.	2.9	44
34	Predicting the Flory-Huggins χ Parameter for Polymers with Stiffness Mismatch from Molecular Dynamics Simulations. <i>Polymers</i> , 2016, 8, 241.	2.0	57
35	Tight binding model of conformational disorder effects on the optical absorption spectrum of polythiophenes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12521-12533.	1.3	27
36	Ion-mediated charge transport in ionic electrolytes. <i>Soft Matter</i> , 2016, 12, 3943-3954.	1.2	21

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37	Structural entropy of glassy systems from graph isomorphism. <i>Soft Matter</i> , 2016, 12, 7281-7288.	1.2	3
38	Transition in Crystal Morphology for Flow-Induced Crystallization of Isotactic Polypropylene. <i>Macromolecules</i> , 2016, 49, 5561-5575.	2.2	30
39	Using surface-induced ordering to probe the isotropic-to-nematic transition for semiflexible polymers. <i>Soft Matter</i> , 2016, 12, 6141-6147.	1.2	15
40	Surfactant Binding to Polymer-Water Interfaces in Atomistic Simulations. <i>Langmuir</i> , 2016, 32, 7519-7529.	1.6	12
41	Surface-Induced Chain Alignment of Semiflexible Polymers. <i>Macromolecules</i> , 2016, 49, 963-971.	2.2	29
42	Atomistic Molecular Dynamics Simulations of Charged Latex Particle Surfaces in Aqueous Solution. <i>Langmuir</i> , 2016, 32, 428-441.	1.6	23
43	Static lengths in glass-forming monodisperse hard-sphere fluids from periodic array pinning. <i>Soft Matter</i> , 2016, 12, 402-407.	1.2	6
44	Tube Dynamics Works for Randomly Entangled Rings. <i>Physical Review Letters</i> , 2016, 116, 068307.	2.9	17
45	Simulating Local T_g Reporting Layers in Glassy Thin Films. <i>Macromolecules</i> , 2016, 49, 1822-1833.	2.2	21
46	Onset of Flow-Induced Crystallization Kinetics of Highly Isotactic Polypropylene. <i>Macromolecules</i> , 2015, 48, 3725-3738.	2.2	74
47	Free Surfaces Overcome Superheating in Simulated Melting of Isotactic Polypropylene. <i>Macromolecules</i> , 2015, 48, 8885-8896.	2.2	13
48	Lifetime of Flow-Induced Precursors in Isotactic Polypropylene. <i>Macromolecules</i> , 2015, 48, 7286-7299.	2.2	57
49	T1 process and dynamics in glass-forming hard-sphere liquids. <i>Soft Matter</i> , 2015, 11, 2700-2705.	1.2	12
50	Predicting Nematic Phases of Semiflexible Polymers. <i>Macromolecules</i> , 2015, 48, 1454-1462.	2.2	43
51	Finding Entanglement Points in Simulated Polymer Melts. <i>Macromolecules</i> , 2015, 48, 99-110.	2.2	17
52	Scaling behavior and local structure of ion aggregates in single-ion conductors. <i>Soft Matter</i> , 2014, 10, 978-989.	1.2	33
53	Dynamics of correlated forces in lattice model of granular solids near jamming. <i>Soft Matter</i> , 2014, 10, 96-108.	1.2	0
54	Tubes, Topology, and Polymer Entanglement. <i>Macromolecules</i> , 2014, 47, 6077-6085.	2.2	44

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55	Predicting Chain Dimensions of Semiflexible Polymers from Dihedral Potentials. <i>Macromolecules</i> , 2014, 47, 6453-6461.	2.2	78
56	Molecular View of Polymer/Water Interfaces in Latex Paint. <i>Macromolecules</i> , 2014, 47, 6441-6452.	2.2	18
57	Calculated Interfacial Free Energies and Heterogeneous Nucleation of Isotactic Polypropylene. <i>Macromolecules</i> , 2013, 46, 6600-6612.	2.2	7
58	A Simple Model for Heterogeneous Nucleation of Isotactic Polypropylene. <i>Macromolecules</i> , 2013, 46, 6593-6599.	2.2	8
59	Lattice model of mobility at interfaces: free surfaces, substrates, and bilayers. <i>Soft Matter</i> , 2013, 9, 9403.	1.2	53
60	Lattice model of correlated forces in granular solids near jamming. <i>Physical Review E</i> , 2013, 87, 052203.	0.8	2
61	Lattice model of dynamic heterogeneity and kinetic arrest in glass-forming liquids. <i>Soft Matter</i> , 2013, 9, 3173.	1.2	35
62	Tube Diameter of Oriented and Stretched Polymer Melts. <i>Macromolecules</i> , 2013, 46, 1659-1672.	2.2	29
63	Ball-of-Yarn Conformation of a Linear Gradient Copolymer in a Homopolymer Melt. <i>Macromolecules</i> , 2012, 45, 7607-7620.	2.2	5
64	Chiral elasticity of DNA. <i>Soft Matter</i> , 2012, 8, 10090.	1.2	1
65	Polymer crystal-melt interfaces and nucleation in polyethylene. <i>Soft Matter</i> , 2011, 7, 2909.	1.2	44
66	Finding the Tube with Isoconfigurational Averaging. <i>Macromolecules</i> , 2011, 44, 8972-8980.	2.2	58
67	Counting polymer knots to find the entanglement length. <i>Soft Matter</i> , 2011, 7, 10676.	1.2	41
68	Twist solitons in ordered phases of n-alkanes. <i>Soft Matter</i> , 2011, 7, 7477.	1.2	21
69	Stress Relaxation in Entangled Melts of Unlinked Ring Polymers. <i>Physical Review Letters</i> , 2010, 105, 208302.	2.9	62
70	Local and Average Glass Transitions in Polymer Thin Films. <i>Macromolecules</i> , 2010, 43, 9874-9880.	2.2	60
71	Delayed Glassification Model for Free-Surface Suppression of T_g in Polymer Glasses. <i>Macromolecules</i> , 2010, 43, 9865-9873.	2.2	40
72	Crystal and rotator phases of n-alkanes: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2010, 132, 044901.	1.2	75

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73	Self-Assembly of Lamellar Microphases in Linear Gradient Copolymer Melts. <i>Macromolecules</i> , 2010, 43, 10612-10620.	2.2	28
74	Why ζ Is Seldom Zero for Polymer-Solvent Mixtures. <i>Macromolecules</i> , 2009, 42, 876-886.	2.2	46
75	Microscopic theory of linear, entangled polymer chains under rapid deformation including chain stretch and convective constraint release. <i>Journal of Rheology</i> , 2003, 47, 1171-1200.	1.3	430
76	Entangled Dynamics and Melt Flow of Branched Polymers. , 1999, , 195-256.		138
77	Relating the shear-thinning curve to the molecular weight distribution in linear polymer melts. <i>Journal of Rheology</i> , 1996, 40, 303-315.	1.3	94
78	Strain-Induced Nematic Phase Separation in Polymer Melts and Gels. <i>Macromolecules</i> , 1994, 27, 6648-6660.	2.2	21