

Takashi Uneyama

List of Publications by Year in descending order

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55
papers

1,087
citations

471509

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docs citations

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times ranked

769
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-chain slip-spring model for entangled polymer dynamics. <i>Journal of Chemical Physics</i> , 2012, 137, 154902.	3.0	104
2	Nonlinear Rheology of Telechelic Associative Polymer Networks: Shear Thickening and Thinning Behavior of Hydrophobically Modified Ethoxylated Urethane (HEUR) in Aqueous Solution. <i>Macromolecules</i> , 2012, 45, 888-898.	4.8	95
3	Density functional simulation of spontaneous formation of vesicle in block copolymer solutions. <i>Journal of Chemical Physics</i> , 2007, 126, 114902.	3.0	88
4	Concentration dependence of rheological properties of telechelic associative polymer solutions. <i>Physical Review E</i> , 2012, 86, 031802.	2.1	64
5	Fluctuation analysis of time-averaged mean-square displacement for the Langevin equation with time-dependent and fluctuating diffusivity. <i>Physical Review E</i> , 2015, 92, 032140.	2.1	63
6	Density Functional Theory for Block Copolymer Melts and Blends. <i>Macromolecules</i> , 2005, 38, 196-205.	4.8	60
7	Concentration Dependence of Nonlinear Rheological Properties of Hydrophobically Modified Ethoxylated Urethane Aqueous Solutions. <i>Macromolecules</i> , 2013, 46, 3497-3504.	4.8	56
8	Calculation of the Micellar Structure of Polymer Surfactant on the Basis of the Density Functional Theory. <i>Macromolecules</i> , 2005, 38, 5817-5825.	4.8	42
9	Structure of entangled polymer network from primitive chain network simulations. <i>Journal of Chemical Physics</i> , 2010, 132, 134902.	3.0	33
10	Comparison among multi-chain models for entangled polymer dynamics. <i>Soft Matter</i> , 2018, 14, 5986-5994.	2.7	33
11	Detailed balance condition and effective free energy in the primitive chain network model. <i>Journal of Chemical Physics</i> , 2011, 135, 184904.	3.0	31
12	Brownian motion with alternately fluctuating diffusivity: Stretched-exponential and power-law relaxation. <i>Physical Review E</i> , 2019, 100, 012116.	2.1	26
13	Single Chain Slip-Spring Model for Fast Rheology Simulations of Entangled Polymers on GPU. <i>Nihon Reoroji Gakkaishi</i> , 2011, 39, 135-152.	1.0	25
14	Relaxation functions of the Ornstein-Uhlenbeck process with fluctuating diffusivity. <i>Physical Review E</i> , 2019, 99, 032127.	2.1	25
15	Anisotropic mobility model for polymers under shear and its linear response functions. <i>Physical Review E</i> , 2011, 83, 061802.	2.1	21
16	A Note for Kohlrausch-Williams-Watts Relaxation Function. <i>Nihon Reoroji Gakkaishi</i> , 2011, 39, 127-131.	1.0	20
17	Transparent Woody Film Made by Dissolution of Finely Divided Japanese Beech in Formic Acid at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11536-11542.	6.7	19
18	A theoretical analysis of rheodielectric response of type- α polymer chains. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1039-1057.	2.1	18

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19	Retardation of the reaction kinetics of polymers due to entanglement in the post-gel stage in multi-chain slip-spring simulations. <i>Soft Matter</i> , 2019, 15, 5109-5115.	2.7	18
20	Primitive chain network simulations for entangled DNA solutions. <i>Journal of Chemical Physics</i> , 2009, 131, 114906.	3.0	17
21	Crossover time in relative fluctuations characterizes the longest relaxation time of entangled polymers. <i>Journal of Chemical Physics</i> , 2012, 137, 114903.	3.0	17
22	Rheo-Dielectric Responses of Entangled <i>cis</i> -Polyisoprene under Uniform Steady Shear and LAOS. <i>Macromolecules</i> , 2014, 47, 246-255.	4.8	17
23	Plateau Moduli of Several Single-Chain Slip-Link and Slip-Spring Models. <i>Macromolecules</i> , 2021, 54, 1338-1353.	4.8	16
24	Equilibrium statistics of weakly slip-linked Gaussian polymer chains. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 966-977.	2.1	15
25	Formation of globules and aggregates of DNA chains in DNA/polyethylene glycol/monovalent salt aqueous solutions. <i>Journal of Chemical Physics</i> , 2009, 131, 094901.	3.0	13
26	Rheology of Aqueous Solution of Hydrophobically Modified Ethoxylated Urethane (HEUR) with Fluorescent Probes at Chain Ends: Thinning Mechanism. <i>Nihon Reoroji Gakkaishi</i> , 2012, 40, 31-36.	1.0	13
27	Entanglement Molecular Weight. <i>Nihon Reoroji Gakkaishi</i> , 2020, 48, 177-183.	1.0	13
28	Numerical study of chain conformation on shear banding using diffusive Rolie-Poly model. <i>Rheologica Acta</i> , 2011, 50, 753-766.	2.4	11
29	Orientational cross correlations between entangled branch polymers in primitive chain network simulations. <i>Journal of Chemical Physics</i> , 2017, 147, 184903.	3.0	10
30	Unveiling diffusive states from center-of-mass trajectories in glassy dynamics. <i>Journal of Chemical Physics</i> , 2019, 151, 034502.	3.0	9
31	A multiscale simulation of polymer processing using parameter-based bridging in melt rheology. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2740-2747.	2.6	7
32	Multi-chain slip-spring simulations for polyisoprene melts. <i>Korea Australia Rheology Journal</i> , 2019, 31, 241-248.	1.7	7
33	Coarse-Grained Brownian Dynamics Simulations for Symmetric Diblock Copolymer Melts Based on the Soft Dumbbell Model. <i>Nihon Reoroji Gakkaishi</i> , 2009, 37, 81-90.	1.0	7
34	Wall boundary model for primitive chain network simulations. <i>Journal of Chemical Physics</i> , 2009, 130, 214907.	3.0	6
35	A transient bond model for dynamic constraints in meso-scale coarse-grained systems. <i>Journal of Chemical Physics</i> , 2019, 150, 024901.	3.0	6
36	Effect of Inertia on Linear Viscoelasticity of Harmonic Dumbbell Model. <i>Nihon Reoroji Gakkaishi</i> , 2019, 47, 143-154.	1.0	6

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37	Comparison among Multi-Chain Simulations for Entangled Polymers under Fast Shear. ECS Transactions, 2018, 88, 161-167.	0.5	5
38	Coarse-graining of microscopic dynamics into a mesoscopic transient potential model. Physical Review E, 2020, 101, 032106.	2.1	5
39	Soft-core Interaction Between Entanglement Segments for Primitive Chain Network Simulations. Nihon Reoroji Gakkaishi, 2012, 40, 21-30.	1.0	5
40	Effect of pore size distribution on compressive behavior of moderately expanded low-density polyethylene foams. Polymer Engineering and Science, 2019, 59, 510-518.	3.1	4
41	Primitive chain network simulations for the interrupted shear response of entangled polymeric liquids. Soft Matter, 2020, 16, 6654-6661.	2.7	4
42	Rheological properties of linear and short-chain branched polyethylene with nearly monodispersed molecular weight distribution. Rheologica Acta, 2021, 60, 511-519.	2.4	4
43	Linear Rheological Properties of Poly(Propylene Carbonate) with Different Molecular Weights. Nihon Reoroji Gakkaishi, 2021, 49, 267-274.	1.0	4
44	Primitive Chain Network Simulations of Conformational Relaxation for Individual Molecules in the Entangled State. II. Retraction from Stretched States.. Nihon Reoroji Gakkaishi, 2009, 37, 65-68.	1.0	3
45	Linear viscoelasticity of unentangled corona blocks and star arms. Rheologica Acta, 2014, 53, 701-714.	2.4	3
46	Compressive Behavior of Moderately Expanded Low Density Polyethylene (LDPE) Foams. Nihon Reoroji Gakkaishi, 2016, 44, 29-38.	1.0	3
47	Linear Viscoelasticity of Dumbbells Interacting via Gaussian Soft-Core Potential. Nihon Reoroji Gakkaishi, 2021, 49, 61-71.	1.0	3
48	Effects of Slip-Spring Parameters and Rouse Bead Density on Polymer Dynamics in Multichain Slip-Spring Simulations. Journal of Physical Chemistry B, 2022, , .	2.6	3
49	Self-consistent field model simulations for statistics of amorphous polymer chains in crystalline lamellar structures. Journal of Chemical Physics, 2014, 141, 164906.	3.0	2
50	Characterization of critical gel state of polyamides by viscoelastic, thermal, and IR measurements. Rheologica Acta, 2019, 58, 281-290.	2.4	2
51	Short-time dynamics of a tracer in an ideal gas. Physical Review E, 2020, 102, 032104.	2.1	2
52	Dissipation in Langevin Equation and Construction of Mobility Tensor from Dissipative Heat Flow. Nihon Reoroji Gakkaishi, 2020, 48, 65-78.	1.0	2
53	Application of projection operator method to coarse-grained dynamics with transient potential. Physical Review E, 2022, 105, 044117.	2.1	2
54	Optimization of the Multishift QR Algorithm with Coprocessors for Non-Hermitian Eigenvalue Problems. East Asian Journal on Applied Mathematics, 2011, 1, 187-196.	0.9	0

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55	Modeling Viscoelasticity By Mesoscopic Coarse-Grained Models with Transient Bonds. ECS Meeting Abstracts, 2018, , .	0.0	0