Takashi Uneyama

List of Publications by Year
in descending order

55 papers	1,087 citations	471509 17 h-index	414414 32 g-index
55 all docs	55 docs citations	55 times ranked	769 citing authors

#	Article	IF	Citations
1	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
2	Application of projection operator method to coarse-grained dynamics with transient potential. Physical Review E, 2022, 105, 044117.	2.1	2
3	Plateau Moduli of Several Single-Chain Slip-Link and Slip-Spring Models. Macromolecules, 2021, 54, 1338-1353.	4.8	16
4	Linear Viscoelasticity of Dumbbells Interacting via Gaussian Soft-Core Potential. Nihon Reoroji Gakkaishi, 2021, 49, 61-71.	1.0	3
5	Rheological properties of linear and short-chain branched polyethylene with nearly monodispersed molecular weight distribution. Rheologica Acta, 2021, 60, 511-519.	2.4	4
6	Linear Rheological Properties of Poly(Propylene Carbonate) with Different Molecular Weights. Nihon Reoroji Gakkaishi, 2021, 49, 267-274.	1.0	4
7	Short-time dynamics of a tracer in an ideal gas. Physical Review E, 2020, 102, 032104.	2.1	2
8	Coarse-graining of microscopic dynamics into a mesoscopic transient potential model. Physical Review E, 2020, 101, 032106.	2.1	5
9	Primitive chain network simulations for the interrupted shear response of entangled polymeric liquids. Soft Matter, 2020, 16, 6654-6661.	2.7	4
10	Dissipation in Langevin Equation and Construction of Mobility Tensor from Dissipative Heat Flow. Nihon Reoroji Gakkaishi, 2020, 48, 65-78.	1.0	2
11	Entanglement Molecular Weight. Nihon Reoroji Gakkaishi, 2020, 48, 177-183.	1.0	13
12	Unveiling diffusive states from center-of-mass trajectories in glassy dynamics. Journal of Chemical Physics, 2019, 151, 034502.	3.0	9
13	Brownian motion with alternately fluctuating diffusivity: Stretched-exponential and power-law relaxation. Physical Review E, 2019, 100, 012116.	2.1	26
14	A transient bond model for dynamic constraints in meso-scale coarse-grained systems. Journal of Chemical Physics, 2019, 150, 024901.	3.0	6
15	Retardation of the reaction kinetics of polymers due to entanglement in the post-gel stage in multi-chain slip-spring simulations. Soft Matter, 2019, 15, 5109-5115.	2.7	18
16	Characterization of critical gel state of polyamides by viscoelastic, thermal, and IR measurements. Rheologica Acta, 2019, 58, 281-290.	2.4	2
17	Relaxation functions of the Ornstein-Uhlenbeck process with fluctuating diffusivity. Physical Review E, 2019, 99, 032127.	2.1	25
18	Multi-chain slip-spring simulations for polyisoprene melts. Korea Australia Rheology Journal, 2019, 31, 241-248.	1.7	7

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19	Effect of pore size distribution on compressive behavior of moderately expanded lowâ€density polyethylene foams. Polymer Engineering and Science, 2019, 59, 510-518.	3.1	4
20	Effect of Inertia on Linear Viscoelasticity of Harmonic Dumbbell Model. Nihon Reoroji Gakkaishi, 2019, 47, 143-154.	1.0	6
21	Comparison among Multi-Chain Simulations for Entangled Polymers under Fast Shear. ECS Transactions, 2018, 88, 161-167.	0.5	5
22	Comparison among multi-chain models for entangled polymer dynamics. Soft Matter, 2018, 14, 5986-5994.	2.7	33
23	Modeling Viscoelasticity By Mesoscopic Coarse-Grained Models with Transient Bonds. ECS Meeting Abstracts, 2018, , .	0.0	0
24	Orientational cross correlations between entangled branch polymers in primitive chain network simulations. Journal of Chemical Physics, 2017, 147, 184903.	3.0	10
25	Transparent Woody Film Made by Dissolution of Finely Divided Japanese Beech in Formic Acid at Room Temperature. ACS Sustainable Chemistry and Engineering, 2017, 5, 11536-11542.	6.7	19
26	Compressive Behavior of Moderately Expanded Low Density Polyethylene (LDPE) Foams. Nihon Reoroji Gakkaishi, 2016, 44, 29-38.	1.0	3
27	Fluctuation analysis of time-averaged mean-square displacement for the Langevin equation with time-dependent and fluctuating diffusivity. Physical Review E, 2015, 92, 032140.	2.1	63
28	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
29	Rheo-Dielectric Responses of Entangled cis-Polyisoprene under Uniform Steady Shear and LAOS. Macromolecules, 2014, 47, 246-255.	4.8	17
30	Linear viscoelasticity of unentangled corona blocks and star arms. Rheologica Acta, 2014, 53, 701-714.	2.4	3
31	Concentration Dependence of Nonlinear Rheological Properties of Hydrophobically Modified Ethoxylated Urethane Aqueous Solutions. Macromolecules, 2013, 46, 3497-3504.	4.8	56
32	Crossover time in relative fluctuations characterizes the longest relaxation time of entangled polymers. Journal of Chemical Physics, 2012, 137, 114903.	3.0	17
33	Multi-chain slip-spring model for entangled polymer dynamics. Journal of Chemical Physics, 2012, 137, 154902.	3.0	104
34	Nonlinear Rheology of Telechelic Associative Polymer Networks: Shear Thickening and Thinning Behavior of Hydrophobically Modified Ethoxylated Urethane (HEUR) in Aqueous Solution. Macromolecules, 2012, 45, 888-898.	4.8	95
35	Concentration dependence of rheological properties of telechelic associative polymer solutions. Physical Review E, 2012, 86, 031802.	2.1	64
36	Rheology of Aqueous Solution of Hydrophobically Modified Ethoxylated Urethane (HEUR) with Fluorescent Probes at Chain Ends: Thinning Mechanism. Nihon Reoroji Gakkaishi, 2012, 40, 31-36.	1.0	13

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37	A multiscale simulation of polymer processing using parameterâ€based bridging in melt rheology. Journal of Applied Polymer Science, 2012, 125, 2740-2747.	2.6	7
38	Soft-core Interaction Between Entanglement Segments for Primitive Chain Network Simulations. Nihon Reoroji Gakkaishi, 2012, 40, 21-30.	1.0	5
39	Anisotropic mobility model for polymers under shear and its linear response functions. Physical Review E, 2011, 83, 061802.	2.1	21
40	Equilibrium statistics of weakly slipâ€linked Gaussian polymer chains. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 966-977.	2.1	15
41	A Note for Kohlrausch-Williams-Watts Relaxation Function. Nihon Reoroji Gakkaishi, 2011, 39, 127-131.	1.0	20
42	Single Chain Slip-Spring Model for Fast Rheology Simulations of Entangled Polymers on GPU. Nihon Reoroji Gakkaishi, 2011, 39, 135-152.	1.0	25
43	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
44	Numerical study of chain conformation on shear banding using diffusive Rolie-Poly model. Rheologica Acta, 2011, 50, 753-766.	2.4	11
45	Detailed balance condition and effective free energy in the primitive chain network model. Journal of Chemical Physics, 2011, 135, 184904.	3.0	31
46	Structure of entangled polymer network from primitive chain network simulations. Journal of Chemical Physics, 2010, 132, 134902.	3.0	33
47	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
48	Formation of globules and aggregates of DNA chains in DNA/polyethylene glycol/monovalent salt aqueous solutions. Journal of Chemical Physics, 2009, 131, 094901.	3.0	13
49	Primitive chain network simulations for entangled DNA solutions. Journal of Chemical Physics, 2009, 131, 114906.	3.0	17
50	Wall boundary model for primitive chain network simulations. Journal of Chemical Physics, 2009, 130, 214907.	3.0	6
51	A theoretical analysis of rheodielectric response of typeâ€A polymer chains. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 1039-1057.	2.1	18
52	Coarse-Grained Brownian Dynamics Simulations for Symmetric Diblock Copolymer Melts Based on the Soft Dumbbell Model. Nihon Reoroji Gakkaishi, 2009, 37, 81-90.	1.0	7
53	Density functional simulation of spontaneous formation of vesicle in block copolymer solutions. Journal of Chemical Physics, 2007, 126, 114902.	3.0	88
54	Density Functional Theory for Block Copolymer Melts and Blends. Macromolecules, 2005, 38, 196-205.	4.8	60

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55	Calculation of the Micellar Structure of Polymer Surfactant on the Basis of the Density Functional Theory. Macromolecules, 2005, 38, 5817-5825.	4.8	42