Ophelia K C Tsui

List of Publications by Year
in descending order

48 papers	2,091 citations	257450 24 h-index	223800 46 g-index
51 all docs	51 docs citations	51 times ranked	2080 citing authors

#	Article	IF	Citations
1	Strain Rate and Thickness Dependences of Elastic Modulus of Free-Standing Polymer Nanometer Films. ACS Macro Letters, 2020, 9, 1521-1526.	4.8	22
2	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	2.2	69
3	Effective Viscosity of Unentangled Random Copolymer Films of Styrene and 4-Methoxystyrene with Different Copolymer Compositions. Macromolecules, 2020, 53, 7430-7438.	4.8	7
4	Mechanical Responses of Breast Cancer Cells to Substrates of Varying Stiffness Revealed by Single-Cell Measurements. Journal of Physical Chemistry Letters, 2020, 11, 7643-7649.	4.6	15
5	Glass transition temperature of single-chain polystyrene particles end-grafted to oxide-coated silicon. Journal of Chemical Physics, 2020, 152, 064904.	3.0	12
6	T_g Confinement Effect of Random Copolymers of 4-tert-Butylstyrene and 4-Acetoxystyrene with Different Compositions. ACS Macro Letters, 2019, 8, 1280-1284.	4.8	14
7	Thermal-induced slippage of soft solid films. Physical Review E, 2019, 99, 010501.	2.1	1
8	Tuning the Effective Viscosity of Polymer Films by Chemical Modifications. Macromolecules, 2019, 52, 3499-3505.	4.8	7
9	Conformation-Sensitive Surface Dynamics in Thin Poly(ethylene terephthalate) Film. Macromolecules, 2019, 52, 2580-2588.	4.8	23
10	Effective Viscosity of Lightly UVO-Treated Polystyrene Films on Silicon with Different Molecular Weights. Macromolecules, 2019, 52, 877-885.	4.8	10
11	Thickness of the Surface Mobile Layer with Accelerated Crystallization Kinetics in Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	4.8	19
12	Polymer Characterization and Morphology. Macromolecular Chemistry and Physics, 2018, 219, 1800001.	2.2	1
13	Conflicting Confinement Effects on the T_g, Diffusivity, and Effective Viscosity of Polymer Films: A Case Study with Poly(isobutyl methacrylate) on Silica and Possible Resolution. Macromolecules, 2017, 50, 609-617.	4.8	31
14	Unexpected thermal annealing effects on the viscosity of polymer nanocomposites. Soft Matter, 2017, 13, 5341-5354.	2.7	16
15	Flexible supercapacitors based on a polyaniline nanowire-infilled 10 nm-diameter carbon nanotube porous membrane by in situ electrochemical polymerization. Journal of Materials Chemistry A, 2016, 4, 12602-12608.	10.3	41
16	Effects of Polymer Tacticity and Molecular Weight on the Glass Transition Temperature of Poly(methyl methacrylate) Films on Silica. Macromolecules, 2016, 49, 2671-2678.	4.8	59
17	Viscosity and Surface-Promoted Slippage of Thin Polymer Films Supported by a Solid Substrate. Macromolecules, 2015, 48, 5034-5039.	4.8	38
18	Declined ionic flux through the nano-pores of vertically aligned carbon nanotubes filled with PNIPAm hydrogel. Journal of Materials Chemistry A, 2015, 3, 11111-11116.	10.3	13

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19	Equilibrium Pathway of Ultrathin Polymer Films as Revealed by Their Surface Dynamics. Soft and Biological Matter, 2015, , 25-46.	0.3	3
20	The Surface Mobility of Glasses. Science, 2014, 343, 975-976.	12.6	36
21	Enhanced water flux in vertically aligned carbon nanotube arrays and polyethersulfone composite membranes. Journal of Materials Chemistry A, 2014, 2, 12171-12176.	10.3	69
22	Two-layer model description of polymer thin film dynamics. Chinese Journal of Polymer Science (English Edition), 2013, 31, 12-20.	3.8	8
23	Viscosity of PMMA on Silica: Epitome of Systems with Strong Polymerâ€“Substrate Interactions. Macromolecules, 2013, 46, 7889-7893.	4.8	52
24	Power Spectral Density of Free-Standing Viscoelastic Films by Adiabatic Approximation. Langmuir, 2013, 29, 4283-4289.	3.5	1
25	Crossover to surface flow in supercooled unentangled polymer films. Physical Review E, 2013, 88, 042604.	2.1	18
26	Surface Dynamics of Noisy Viscoelastic Films by Adiabatic Approximation. Langmuir, 2012, 28, 10217-10222.	3.5	14
27	Equilibration of Polymer Films Cast from Solutions with Different Solvent Qualities. Macromolecules, 2012, 45, 1085-1089.	4.8	35
28	Swelling with a Near-Î˜ Solvent as a Means to Modify the Properties of Polymer Thin Films. Macromolecules, 2012, 45, 6196-6200.	4.8	14
29	Glass Transition Temperature of Polymer Films That Slip. Macromolecules, 2011, 44, 1649-1653.	4.8	53
30	Glass Transition Dynamics and Surface Mobility of Entangled Polystyrene Films at Equilibrium. Macromolecules, 2011, 44, 8294-8300.	4.8	55
31	Method To Measure the Viscoelastic Properties of Nanometer Entangled Polymer Films. Macromolecules, 2011, 44, 7460-7464.	4.8	15
32	Shear Modulus of a Polymer Brush. Macromolecules, 2010, 43, 4310-4313.	4.8	10
33	Glass Transition Dynamics and Surface Layer Mobility in Unentangled Polystyrene Films. Science, 2010, 328, 1676-1679.	12.6	429
34	Method to measure the viscosity of nanometer liquid films from the surface fluctuations. Applied Physics Letters, 2009, 94, .	3.3	24
35	Affinity of Polystyrene Films to Hydrogen-Passivated Silicon and Its Relevance to the T_g of the Films. Macromolecules, 2009, 42, 7418-7422.	4.8	144
36	Equilibrium Pathway of Spin-Coated Polymer Films. Macromolecules, 2008, 41, 1465-1468.	4.8	42

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37	Wettability of End-Grafted Polymer Brush by Chemically Identical Polymer Films. Macromolecules, 2008, 41, 8148-8151.	4.8	34
38	ANOMALOUS DYNAMICS OF POLYMER FILMS. Series in Sof Condensed Matter, 2008, , 267-294.	0.1	29
39	Unconventional Spinodal Surface Fluctuations on Polymer Films. Langmuir, 2006, 22, 1959-1963.	3.5	17
40	Polarization-independent liquid crystal grating on azo-dye film fabricated through intensity holography. Applied Physics Letters, 2006, 89, 203507.	3.3	6
41	Dewetting Induced by Complete versus Nonretarded van der Waals Forces. Langmuir, 2005, 21, 5817-5824.	3.5	36
42	First-order liquid crystal orientation transition on inhomogeneous substrates. Physical Review E, 2004, 69, 021704.	2.1	24
43	Effect of Polymer-Substrate Interactions on the Glass Transition of Polymer Thin Films. AIP Conference Proceedings, 2004, , .	0.4	1
44	Effect of Low Surface Energy Chain Ends on the Glass Transition Temperature of Polymer Thin Films. Macromolecules, 2002, 35, 1491-1492.	4.8	67
45	Effects of Chain Ends and Chain Entanglement on the Glass Transition Temperature of Polymer Thin Films. Macromolecules, 2001, 34, 9139-9142.	4.8	185
46	Study of Elastic Modulus and Yield Strength of Polymer Thin Films Using Atomic Force Microscopy. Langmuir, 2001, 17, 3286-3291.	3.5	145
47	Observation of Inverted Phases in Poly(styrene-b-butadiene-b-styrene) Triblock Copolymer by Solvent-Induced Orderâ'Disorder Phase Transition. Macromolecules, 2000, 33, 9561-9567.	4.8	101
48	Nanostructure and Mechanical Measurement of Highly Oriented Lamellae of Melt-Drawn HDPE by Scanning Probe Microscopy. Macromolecules, 2000, 33, 7521-7528.	4.8	24