

Ophelia K C Tsui

List of Publications by Year in descending order

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48
papers

2,091
citations

257450

24
h-index

223800

46
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51
all docs

51
docs citations

51
times ranked

2080
citing authors

#	ARTICLE	IF	CITATIONS
1	Class Transition Dynamics and Surface Layer Mobility in Unentangled Polystyrene Films. <i>Science</i> , 2010, 328, 1676-1679.	12.6	429
2	Effects of Chain Ends and Chain Entanglement on the Glass Transition Temperature of Polymer Thin Films. <i>Macromolecules</i> , 2001, 34, 9139-9142.	4.8	185
3	Study of Elastic Modulus and Yield Strength of Polymer Thin Films Using Atomic Force Microscopy. <i>Langmuir</i> , 2001, 17, 3286-3291.	3.5	145
4	Affinity of Polystyrene Films to Hydrogen-Passivated Silicon and Its Relevance to the T_g of the Films. <i>Macromolecules</i> , 2009, 42, 7418-7422.	4.8	144
5	Observation of Inverted Phases in Poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene) Triblock Copolymer by Solvent-Induced Order-Disorder Phase Transition. <i>Macromolecules</i> , 2000, 33, 9561-9567.	4.8	101
6	Enhanced water flux in vertically aligned carbon nanotube arrays and polyethersulfone composite membranes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12171-12176.	10.3	69
7	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000216.	2.2	69
8	Effect of Low Surface Energy Chain Ends on the Glass Transition Temperature of Polymer Thin Films. <i>Macromolecules</i> , 2002, 35, 1491-1492.	4.8	67
9	Effects of Polymer Tacticity and Molecular Weight on the Glass Transition Temperature of Poly(methyl methacrylate) Films on Silica. <i>Macromolecules</i> , 2016, 49, 2671-2678.	4.8	59
10	Glass Transition Dynamics and Surface Mobility of Entangled Polystyrene Films at Equilibrium. <i>Macromolecules</i> , 2011, 44, 8294-8300.	4.8	55
11	Glass Transition Temperature of Polymer Films That Slip. <i>Macromolecules</i> , 2011, 44, 1649-1653.	4.8	53
12	Viscosity of PMMA on Silica: Epitome of Systems with Strong Polymer-Substrate Interactions. <i>Macromolecules</i> , 2013, 46, 7889-7893.	4.8	52
13	Equilibrium Pathway of Spin-Coated Polymer Films. <i>Macromolecules</i> , 2008, 41, 1465-1468.	4.8	42
14	Flexible supercapacitors based on a polyaniline nanowire-infilled 10 nm-diameter carbon nanotube porous membrane by in situ electrochemical polymerization. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12602-12608.	10.3	41
15	Viscosity and Surface-Promoted Slippage of Thin Polymer Films Supported by a Solid Substrate. <i>Macromolecules</i> , 2015, 48, 5034-5039.	4.8	38
16	Dewetting Induced by Complete versus Nonretarded van der Waals Forces. <i>Langmuir</i> , 2005, 21, 5817-5824.	3.5	36
17	The Surface Mobility of Glasses. <i>Science</i> , 2014, 343, 975-976.	12.6	36
18	Equilibration of Polymer Films Cast from Solutions with Different Solvent Qualities. <i>Macromolecules</i> , 2012, 45, 1085-1089.	4.8	35

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19	Wettability of End-Grafted Polymer Brush by Chemically Identical Polymer Films. <i>Macromolecules</i> , 2008, 41, 8148-8151.	4.8	34
20	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. <i>Macromolecules</i> , 2017, 50, 609-617.	4.8	31
21	ANOMALOUS DYNAMICS OF POLYMER FILMS. <i>Series in Soft Condensed Matter</i> , 2008, , 267-294.	0.1	29
22	Nanostructure and Mechanical Measurement of Highly Oriented Lamellae of Melt-Drawn HDPE by Scanning Probe Microscopy. <i>Macromolecules</i> , 2000, 33, 7521-7528.	4.8	24
23	First-order liquid crystal orientation transition on inhomogeneous substrates. <i>Physical Review E</i> , 2004, 69, 021704.	2.1	24
24	Method to measure the viscosity of nanometer liquid films from the surface fluctuations. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	24
25	Conformation-Sensitive Surface Dynamics in Thin Poly(ethylene terephthalate) Film. <i>Macromolecules</i> , 2019, 52, 2580-2588.	4.8	23
26	Strain Rate and Thickness Dependences of Elastic Modulus of Free-Standing Polymer Nanometer Films. <i>ACS Macro Letters</i> , 2020, 9, 1521-1526.	4.8	22
27	Thickness of the Surface Mobile Layer with Accelerated Crystallization Kinetics in Poly(ethylene Terephthalate) Nanometer Films. <i>ACS Macro Letters</i> , 2019, 10, 1280-1284.	4.8	19
28	Crossover to surface flow in supercooled unentangled polymer films. <i>Physical Review E</i> , 2013, 88, 042604.	2.1	18
29	Unconventional Spinodal Surface Fluctuations on Polymer Films. <i>Langmuir</i> , 2006, 22, 1959-1963.	3.5	17
30	Unexpected thermal annealing effects on the viscosity of polymer nanocomposites. <i>Soft Matter</i> , 2017, 13, 5341-5354.	2.7	16
31	Method To Measure the Viscoelastic Properties of Nanometer Entangled Polymer Films. <i>Macromolecules</i> , 2011, 44, 7460-7464.	4.8	15
32	Mechanical Responses of Breast Cancer Cells to Substrates of Varying Stiffness Revealed by Single-Cell Measurements. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7643-7649.	4.6	15
33	Surface Dynamics of Noisy Viscoelastic Films by Adiabatic Approximation. <i>Langmuir</i> , 2012, 28, 10217-10222.	3.5	14
34	Swelling with a Near- T_g Solvent as a Means to Modify the Properties of Polymer Thin Films. <i>Macromolecules</i> , 2012, 45, 6196-6200.	4.8	14
35	T_g Confinement Effect of Random Copolymers of 4- <i>tert</i> -Butylstyrene and 4-Acetoxytyrene with Different Compositions. <i>ACS Macro Letters</i> , 2019, 8, 1280-1284.	4.8	14
36	Declined ionic flux through the nano-pores of vertically aligned carbon nanotubes filled with PNIPAm hydrogel. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11111-11116.	10.3	13

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37	Glass transition temperature of single-chain polystyrene particles end-grafted to oxide-coated silicon. <i>Journal of Chemical Physics</i> , 2020, 152, 064904.	3.0	12
38	Shear Modulus of a Polymer Brush. <i>Macromolecules</i> , 2010, 43, 4310-4313.	4.8	10
39	Effective Viscosity of Lightly LIVO-Treated Polystyrene Films on Silicon with Different Molecular Weights. <i>Macromolecules</i> , 2019, 52, 877-885.	4.8	10
40	Two-layer model description of polymer thin film dynamics. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 12-20.	3.8	8
41	Tuning the Effective Viscosity of Polymer Films by Chemical Modifications. <i>Macromolecules</i> , 2019, 52, 3499-3505.	4.8	7
42	Effective Viscosity of Unentangled Random Copolymer Films of Styrene and 4-Methoxystyrene with Different Copolymer Compositions. <i>Macromolecules</i> , 2020, 53, 7430-7438.	4.8	7
43	Polarization-independent liquid crystal grating on azo-dye film fabricated through intensity holography. <i>Applied Physics Letters</i> , 2006, 89, 203507.	3.3	6
44	Equilibrium Pathway of Ultrathin Polymer Films as Revealed by Their Surface Dynamics. <i>Soft and Biological Matter</i> , 2015, , 25-46.	0.3	3
45	Effect of Polymer-Substrate Interactions on the Glass Transition of Polymer Thin Films. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	1
46	Power Spectral Density of Free-Standing Viscoelastic Films by Adiabatic Approximation. <i>Langmuir</i> , 2013, 29, 4283-4289.	3.5	1
47	Polymer Characterization and Morphology. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800001.	2.2	1
48	Thermal-induced slippage of soft solid films. <i>Physical Review E</i> , 2019, 99, 010501.	2.1	1