Joshua D Mcgraw

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9539059/publications.pdf

Version: 2024-02-01

567281 434195 34 952 15 31 citations h-index g-index papers 35 35 35 1271 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A Direct Quantitative Measure of Surface Mobility in a Glassy Polymer. Science, 2014, 343, 994-999.	12.6	192
2	Reduced Glass Transition Temperatures in Thin Polymer Films: Surface Effect or Artifact?. Physical Review Letters, 2012, 109, 055701.	7.8	151
3	Influence of slip on the Plateau–Rayleigh instability on a fibre. Nature Communications, 2015, 6, 7409.	12.8	76
4	Plateau-Rayleigh instability in a torus: formation and breakup of a polymer ring. Soft Matter, 2010, 6, 1258.	2.7	56
5	Self-Similarity and Energy Dissipation in Stepped Polymer Films. Physical Review Letters, 2012, 109, 128303.	7.8	47
6	Al-M (M=Cr,â€,Fe,â€,Mn,â€,Ni) Thin-Film Negative Electrode Materials. Journal of the Electrochemical Society, 2006, 153, A484.	2.9	41
7	Beyond Tanner's Law: Crossover between Spreading Regimes of a Viscous Droplet on an Identical Film. Physical Review Letters, 2012, 109, 154501.	7.8	34
8	Controlling Marangoni-induced instabilities in spin-cast polymer films: How to prepare uniform films. European Physical Journal E, 2016, 39, 90.	1.6	34
9	Capillary-driven flow induced by a stepped perturbation atop a viscous film. Physics of Fluids, 2012, 24,	4.0	30
10	Numerical solutions of thin-film equations for polymer flows. European Physical Journal E, 2012, 35, 114.	1.6	30
11	Capillary levelling as a probe of thin film polymer rheology. Soft Matter, 2011, 7, 7832.	2.7	28
12	Slip-mediated dewetting of polymer microdroplets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1168-1173.	7.1	24
13	Step Edges in Thin Films of Lamellar-Forming Diblock Copolymer. Macromolecules, 2012, 45, 9531-9538.	4.8	21
14	Relaxation of non-equilibrium entanglement networks in thin polymer films. European Physical Journal E, 2013, 36, 7.	1.6	19
15	Mössbauer effect and X-ray diffraction investigation of Si–Fe thin films. Philosophical Magazine, 2006, 86, 5017-5030.	1.6	16
16	Relaxation and intermediate asymptotics of a rectangular trench in a viscous film. Physical Review E, 2013, 88, 035001.	2.1	14
17	Nanofluidics of thin polymer films: Linking the slip boundary condition at solid–liquid interfaces to macroscopic pattern formation and microscopic interfacial properties. Advances in Colloid and Interface Science, 2014, 210, 13-20.	14.7	13
18	Multimodal Miniature Surface Forces Apparatus (\hat{l} /4SFA) for Interfacial Science Measurements. Langmuir, 2019, 35, 15500-15514.	3 . 5	12

#	Article	lF	CITATIONS
19	Capillary leveling of stepped films with inhomogeneous molecular mobility. Soft Matter, 2013, 9, 8297.	2.7	11
20	Adsorption-induced slip inhibition for polymer melts on ideal substrates. Nature Communications, 2018, 9, 1172.	12.8	11
21	Morphological evolution of microscopic dewetting droplets with slip. Journal of Fluid Mechanics, 2017, 828, 271-288.	3.4	9
22	Time dependence of advection-diffusion coupling for nanoparticle ensembles. Physical Review Fluids, 2021, 6, .	2.5	9
23	Swelling molecular entanglement networks in polymer glasses. Physical Review E, 2010, 82, 021802.	2.1	8
24	Interface-Sensitive Raman Microspectroscopy of Water via Confinement with a Multimodal Miniature Surface Forces Apparatus. Langmuir, 2019, 35, 15543-15551.	3 . 5	8
25	Self-Similar Relaxation of Confined Microfluidic Droplets. Physical Review Letters, 2019, 123, 024501.	7.8	8
26	Dynamics of interacting edge defects in copolymer lamellae. European Physical Journal E, 2011, 34, 1-7.	1.6	7
27	Short chains enhance slip of highly entangled polystyrenes during thin film dewetting. RSC Advances, 2016, 6, 91163-91170.	3.6	7
28	Nucleated dewetting in supported ultra-thin liquid films with hydrodynamic slip. Soft Matter, 2017, 13, 4756-4760.	2.7	7
29	Influence of outer-layer finite-size effects on the dewetting dynamics of a thin polymer film embedded in an immiscible matrix. Soft Matter, 2018, 14, 6256-6263.	2.7	7
30	Glass transition at interfaces. Europhysics News, 2017, 48, 24-28.	0.3	6
31	Contact Dependence and Velocity Crossover in Friction between Microscopic Solid/Solid Contacts. Nano Letters, 2017, 17, 6335-6339.	9.1	5
32	Influence of bidisperse self-assembled monolayer structure on the slip boundary condition of thin polymer films. Journal of Chemical Physics, 2017, 146, 203326.	3.0	4
33	Near-surface rheology and hydrodynamic boundary condition of semi-dilute polymer solutions. Soft Matter, 2021, 17, 3765-3774.	2.7	4
34	Sacrificial mica substrates influence the slip boundary condition of dewetting polymer films. Polymer, 2015, 78, 202-207.	3.8	3