# Lilianne LÃ©ger

List of Publications by Year
in descending order

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| 110 | 6,538 | 66343 | 62596 |
|---|---|---|---|
| papers | citations | 42 | 80 |
| | | h-index | g-index |

| 111 | 111 | 111 | 4696 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Slip and Friction Mechanisms at Polymer Semi-Dilute Solutions/Solid Interfaces. Macromolecules, 2021, 54, 4910-4917. | 4.8 | 1 |
| 2 | Viscoelasticity-Induced Onset of Slip at the Wall for Polymer Fluids. ACS Macro Letters, 2020, 9, 924-928. | 4.8 | 6 |
| 3 | Controlling interfacial instabilities in PP/EVOH coextruded multilayer films through the surface density of interfacial copolymers. Polymer Engineering and Science, 2020, 60, 1420-1429. | 3.1 | 6 |
| 4 | Large slippage and depletion layer at the polyelectrolyte/solid interface. Soft Matter, 2019, 15, 6308-6317. | 2.7 | 4 |
| 5 | Nanorheology with a Conventional Rheometer: Probing the Interfacial Properties in Compatibilized Multinanolayer Polymer Films. ACS Macro Letters, 2019, 8, 1309-1315. | 4.8 | 10 |
| 6 | Friction of Polymers: from PDMS Melts to PDMS Elastomers. ACS Macro Letters, 2018, 7, 112-115. | 4.8 | 27 |
| 7 | Temperature-Controlled Slip of Polymer Melts on Ideal Substrates. Physical Review Letters, 2018, 121, 177802. | 7.8 | 12 |
| 8 | Sensing adsorption kinetics through slip velocity measurements of polymer melts. European Physical Journal E, 2018, 41, 83. | 1.6 | 3 |
| 9 | Wall slip of complex fluids: Interfacial friction versus slip length. Physical Review Fluids, 2018, 3, . | 2.5 | 28 |
| 10 | Influence of grafting on the glass transition temperature of PS thin films. European Physical Journal E, 2017, 40, 11. | 1.6 | 9 |
| 11 | Quantitative determination of interfacial copolymers from co-extruded films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 261-267. | 4.7 | 4 |
| 12 | Comparison of the Slip of a PDMS Melt on Weakly Adsorbing Surfaces Measured by a New Photobleaching-Based Technique. Macromolecules, 2017, 50, 5592-5598. | 4.8 | 13 |
| 13 | Direct Molecular Evidence of the Origin of Slip of Polymer Melts on Grafted Brushes. Macromolecules, 2016, 49, 2348-2353. | 4.8 | 22 |
| 14 | Chemical modification of PDMS surface without impacting the viscoelasticity: Model systems for a better understanding of elastomer/elastomer adhesion and friction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 468, 174-183. | 4.7 | 33 |
| 15 | Indenter du verre avec un liquide ?. , 2015, , 38-40. | 0.1 | 1 |
| 16 | Sensing the Mechanical Properties of Supported Micro- to Nano-elastic Films. , 2014, , 575-614. | | 0 |
| 17 | Quantitative Analysis of Interdigitation Kinetics between a Polymer Melt and a Polymer Brush. Macromolecules, 2013, 46, 6955-6962. | 4.8 | 19 |
| 18 | Effect of Surface Elasticity on the Rheology of Nanometric Liquids. Physical Review Letters, 2013, 111, 215701. | 7.8 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Cassie-Wenzelâ€“like transition in patterned soft elastomer adhesive contacts. Europhysics Letters, 2013, 101, 14001. | 2.0 | 15 |
| 20 | Hydrodynamic Interaction between a Spherical Particle and an Elastic Surface: A Gentle Probe for Soft Thin Films. Physical Review Letters, 2012, 108, 264501. | 7.8 | 57 |
| 21 | Sliding friction at soft micropatterned elastomer interfaces. Faraday Discussions, 2012, 156, 255. | 3.2 | 33 |
| 22 | Formation of diblock copolymers at PP/PA6 interfaces and their role in local crystalline organization under fast heating and cooling conditions. Polymer, 2012, 53, 5138-5145. | 3.8 | 7 |
| 23 | Synthesis of wellâ€defined poly(dimethylsiloxane) telechelics having nitrobenzoxadiazole fluorescent chainâ€ends via thiolâ€ene coupling. Journal of Polymer Science Part A, 2012, 50, 1827-1833. | 2.3 | 7 |
| 24 | Incidence of the molecular organization on friction at soft polymer interfaces. Soft Matter, 2011, 7, 8535. | 2.7 | 21 |
| 25 | Mechanical tuning of adhesion through micro-patterning of elastic surfaces. Soft Matter, 2011, 7, 2543. | 2.7 | 46 |
| 26 | Click Chemistry Grafting of Poly(ethylene glycol) Brushes to Alkyne-Functionalized Pseudobrushes. Langmuir, 2010, 26, 1304-1310. | 3.5 | 37 |
| 27 | Wetting and Dewetting Transition: An Efficient Toolbox for Characterizing Low-Energy Surfaces. Langmuir, 2010, 26, 15345-15349. | 3.5 | 12 |
| 28 | Capillary Bridge Formation and Breakage: A Test to Characterize Antiadhesive Surfaces. Journal of Physical Chemistry B, 2009, 113, 3769-3775. | 2.6 | 31 |
| 29 | Contact Angle and Contact Angle Hysteresis Measurements Using the Capillary Bridge Technique. Langmuir, 2009, 25, 11188-11196. | 3.5 | 34 |
| 30 | Polymer Brushes Grafted to â€œPassivatedâ€•Silicon Substrates Using Click Chemistry. Langmuir, 2008, 24, 2732-2739. | 3.5 | 92 |
| 31 | Adhesion mechanisms at soft polymer interfaces. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1425-1442. | 3.4 | 70 |
| 32 | Self-Diffusion in Chitosan Networks: From a Gelâ^'Gel Method to Fluorescence Recovery after Photobleaching by Fringe Pattern. Macromolecules, 2008, 41, 9376-9381. | 4.8 | 24 |
| 33 | Adhesion at Poly(Butylacrylate)â€“Poly(Dimethylsiloxane) Interfaces. Journal of Adhesion, 2007, 83, 741-760. | 3.0 | 4 |
| 34 | Adhesion Enhancement through Micropatterning at Polydimethylsiloxaneâ^'Acrylic Adhesive Interfaces. Langmuir, 2007, 23, 6966-6974. | 3.5 | 79 |
| 35 | Modulation of Adhesion at Acrylic Adhesive-Silicone Elastomer Interfaces. Journal of Adhesion, 2006, 82, 919-932. | 3.0 | 6 |
| 36 | Effect of Nanometric-Scale Roughness on Slip at the Wall of Simple Fluids. Langmuir, 2006, 22, 6843-6850. | 3.5 | 56 |

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| 37 | Effect of Plasticizers (Water and Glycerol) on the Diffusion of a Small Molecule in Iota-Carrageenan Biopolymer Films for Edible Coating Application. Biomacromolecules, 2006, 7, 2011-2019. | 5.4 | 124 |
| 38 | Friction mechanisms at polymerâ€“solid interfaces. Comptes Rendus Chimie, 2006, 9, 80-89. | 0.5 | 13 |
| 39 | Polymer dynamics applied to PEEK matrix composite welding. Aerospace Science and Technology, 2005, 9, 233-240. | 4.8 | 42 |
| 40 | Friction and Slip at Simple Fluid-Solid Interfaces: The Roles of the Molecular Shape and the Solid-Liquid Interaction. Physical Review Letters, 2005, 94, . | 7.8 | 118 |
| 41 | Interdigitation between surface-anchored polymer chains and an elastomer: Consequences for adhesion promotion. Europhysics Letters, 2004, 68, 543-549. | 2.0 | 13 |
| 42 | Molecular dynamics in thin (grafted) polymer layers. Colloid and Polymer Science, 2004, 282, 946-954. | 2.1 | 6 |
| 43 | Adhesion Promotion Mechanisms at Isotactic Polypropylene/Polyamide 6 Interfaces:Â Role of the Copolymer Architecture. Macromolecules, 2004, 37, 6814-6822. | 4.8 | 52 |
| 44 | Crystalline Orientation and Adhesion at Polypropylene/Polyamide 6 Interfaces Compatibilized with Syndiotactic Polypropyleneâ^'Polyamide 6 Diblock Copolymers. Macromolecules, 2004, 37, 6806-6813. | 4.8 | 15 |
| 45 | Sliding Friction at a Rubber/Brush Interface. Langmuir, 2004, 20, 4523-4529. | 3.5 | 51 |
| 46 | Interface entre polymÃ¨res semi-cristallins renforcÃ©es par des copolymÃ¨res diblocs. Annales De Chimie: Science Des Materiaux, 2003, 28, 29-42. | 0.4 | 0 |
| 47 | Flow with slip at the wall: from simple to complex fluids. Comptes Rendus Physique, 2003, 4, 241-249. | 0.9 | 67 |
| 48 | Effect of Dangling Chains on Adhesion Hysteresis of Silicone Elastomers, Probed by JKR Test. Langmuir, 2003, 19, 1396-1401. | 3.5 | 41 |
| 49 | Molecular dynamics in grafted layers of poly(dimethylsiloxane). Journal of Chemical Physics, 2003, 118, 6052-6058. | 3.0 | 25 |
| 50 | Spreading of latex particles on a substrate. Europhysics Letters, 2002, 60, 717-723. | 2.0 | 32 |
| 51 | Molecular Control of Crack Tip Plasticity Mechanisms at a PPâ^'EPDM/PA6 Interface. Macromolecules, 2001, 34, 2702-2709. | 4.8 | 21 |
| 52 | Role of Interfacial Resistance to Shear Stress on Adhesive Peel Strength. Langmuir, 2001, 17, 6510-6517. | 3.5 | 79 |
| 53 | Neutron Reflectometry Study of the Segment-Density Profiles in End-Grafted and Irreversibly Adsorbed Layers of Polymer in Good Solvents. Macromolecules, 2001, 34, 8694-8700. | 4.8 | 49 |
| 54 | Adhesion evaluation for a stratified system in JKR geometry. Journal of Adhesion Science and Technology, 2001, 15, 1055-1078. | 2.6 | 11 |

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| 55 | Role of the Interfacial Orientation in Adhesion between Semicrystalline Polymers. Macromolecules, 2001, 34, 2932-2936. | 4.8 | 33 |
| 56 | Unsteady-State Flow of Flexible Polymers in Porous Media. Journal of Colloid and Interface Science, 2001, 234, 269-283. | 9.4 | 42 |
| 57 | The stickâ€“slip transition in highly entangled poly(styrene-butadiene) melts. Advances in Colloid and Interface Science, 2001, 94, 39-52. | 14.7 | 20 |
| 58 | Nanotack test: adhesive behavior of single latex particles. Comptes Rendus Physique, 2000, 1, 1187-1196. | 0.1 | 3 |
| 59 | Adhesion promotion through controlled surface modifications. Macromolecular Symposia, 2000, 149, 197-206. | 0.7 | 10 |
| 60 | Adhesion and Deformation of a Single Latex Particle. Langmuir, 2000, 16, 6374-6376. | 3.5 | 25 |
| 61 | Direct Experimental Evidence of Slip in Hexadecane: Solid Interfaces. Physical Review Letters, 2000, 85, 980-983. | 7.8 | 523 |
| 62 | Surface-Anchored Polymer Chains: Their Role in Adhesion and Friction. Advances in Polymer Science, 1999, , 185-225. | 0.8 | 198 |
| 63 | Friction and slip of a simple liquid at a solid surface. Tribology Letters, 1999, 7, 147-152. | 2.6 | 145 |
| 64 | Characterization of glassâ€“epoxy adhesion using JKR methods and atomic force microscopy. Composites Part A: Applied Science and Manufacturing, 1999, 30, 95-109. | 7.6 | 13 |
| 65 | Structure and Microdeformation of (iPP/iPP-g-MA)â^'PA6 Reaction Bonded Interfaces. Macromolecules, 1998, 31, 6164-6176. | 4.8 | 34 |
| 66 | Investigation of the slip transition at the melt polymer interface. Europhysics Letters, 1998, 43, 83-88. | 2.0 | 30 |
| 67 | Some remarks on JKR experiments. Journal of Adhesion Science and Technology, 1998, 12, 225-247. | 2.6 | 68 |
| 68 | Influence of grafting density on wall slip of a polymer melt on a polymer brush. Europhysics Letters, 1997, 38, 383-388. | 2.0 | 76 |
| 69 | Surface anchored polymer: Role in adhesion and friction. Macromolecular Symposia, 1997, 121, 263-267. | 0.7 | 1 |
| 70 | Wall slip in polymer melts. Journal of Physics Condensed Matter, 1997, 9, 7719-7740. | 1.8 | 95 |
| 71 | Enhanced Adhesion between Polypropylene and Polyamide-6:Â Role of Interfacial Nucleation of the Î²-Crystalline Form of Polypropylene. Macromolecules, 1997, 30, 2102-2109. | 4.8 | 87 |
| 72 | Effects of the Formation of Copolymer on the Interfacial Adhesion between Semicrystalline Polymers. Macromolecules, 1996, 29, 774-782. | 4.8 | 136 |

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| 73 | Hydrodynamics of domain relaxation in a polymer monolayer. Physical Review E, 1995, 51, 5708-5720. | 2.1 | 58 |
| 74 | Adhesion at the Solid-Elastomer Interface: Influence of the Interfacial Chains. Macromolecules, 1995, 28, 7419-7428. | 4.8 | 141 |
| 75 | The slip transition at the polymer-solid interface. Journal of Physics Condensed Matter, 1994, 6, A301-A304. | 1.8 | 39 |
| 76 | Adhesion energy between polymer networks and solid surfaces modified by polymer attachment. Faraday Discussions, 1994, 98, 55-65. | 3.2 | 52 |
| 77 | Slip transition of a polymer melt under shear stress. Physical Review Letters, 1993, 70, 287-290. | 7.8 | 356 |
| 78 | Liquid spreading. Reports on Progress in Physics, 1992, 55, 431-486. | 20.1 | 442 |
| 79 | Spreading of high molecular weight polymer melts on high-energy surfaces. Macromolecules, 1992, 25, 1267-1271. | 4.8 | 62 |
| 80 | Polymerization-induced shrinkage in giant butadienic lipid vesicles. Langmuir, 1992, 8, 2595-2597. | 3.5 | 15 |
| 81 | Silica particles stabilized by long grafted polymer chains. Journal of Colloid and Interface Science, 1992, 150, 187-194. | 9.4 | 63 |
| 82 | Structures of end-grafted polymer layers: a small-angle neutron scattering study. Macromolecules, 1991, 24, 2523-2528. | 4.8 | 117 |
| 83 | Building of a grafted layer. 1. Role of the concentration of free polymers in the reaction bath. Macromolecules, 1991, 24, 5158-5166. | 4.8 | 79 |
| 84 | Silanation of silica surfaces. A new method of constructing pure or mixed monolayers. Langmuir, 1991, 7, 1647-1651. | 3.5 | 486 |
| 85 | The scattering by grafted polymers. Physica A: Statistical Mechanics and Its Applications, 1991, 172, 269-284. | 2.6 | 24 |
| 86 | Characterization of the brush regime for grafted polymer layers at the solid-liquid interface. Physical Review Letters, 1991, 66, 719-722. | 7.8 | 203 |
| 87 | Evidence for a new spreading regime between partial and total wetting. Physical Review Letters, 1991, 66, 185-188. | 7.8 | 51 |
| 88 | The study of grafted polymer layers by neutron scattering. Journal of Physics Condensed Matter, 1990, 2, SA317-SA321. | 1.8 | 12 |
| 89 | The spreading of drops on solid surfaces. Journal of Physics Condensed Matter, 1990, 2, SA421-SA425. | 1.8 | 4 |
| 90 | Ultrathin films in wetting evidenced by x-ray reflectivity. Physical Review A, 1990, 41, 1963-1977. | 2.5 | 70 |

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| 91 | Synthesis and characterization of polystyrene networks containing unattached photochromic polystyrene: preliminary results of self-diffusion measurements. Polymer, 1989, 30, 549-552. | 3.8 | 6 |
| 92 | Entangled polymers. Contemporary Physics, 1988, 29, 579-595. | 1.8 | 4 |
| 93 | Precursor Film Profiles of Spreading Liquid Drops. Physical Review Letters, 1988, 60, 2390-2393. | 7.8 | 98 |
| 94 | Final Stages of Spreading of Polymer Droplets on Smooth Solid Surfaces. Europhysics Letters, 1988, 6, 431-436. | 2.0 | 48 |
| 95 | Spreading of non volatile liquids on smooth solid surfaces : role of long range forces. Revue De Physique AppliquÃ©e, 1988, 23, 1047-1054. | 0.4 | 27 |
| 96 | Reverse anisotropy of the diffusion coefficients in a polymeric nematic medium. Physical Review Letters, 1987, 59, 210-212. | 7.8 | 9 |
| 97 | Diffuse interfacial regions between oil/water microemulsions at low surfactant concentration: phase diagram, composition, and structure investigations. The Journal of Physical Chemistry, 1987, 91, 4536-4544. | 2.9 | 4 |
| 98 | Diffuse Interface in Oil-in-Water Microemulsions at Low Surfactant Concentration of the Brine-Toluene- n -Butanol-Sodium Dodecyl Sulfate System. Europhysics Letters, 1987, 3, 213-220. | 2.0 | 7 |
| 99 | Self-diffusion measurements in polymer solutions at the Î¸ temperature by forced Rayleigh light scattering. Macromolecules, 1986, 19, 2760-2765. | 4.8 | 22 |
| 100 | Existence and Role of the Precursor Film in the Spreading of Polymer Liquids. Physical Review Letters, 1986, 57, 2671-2674. | 7.8 | 144 |
| 101 | First Observation of the Undulation Mode in Birefringent Microemulsions by Quasielastic Light Scattering. Physical Review Letters, 1985, 54, 1686-1689. | 7.8 | 37 |
| 102 | Diffusion of large flexible polymer chains through model porous membranes. Macromolecules, 1985, 18, 2531-2537. | 4.8 | 91 |
| 103 | Reptation and Tube Renewal in Entangled Polymer Solutions. Physical Review Letters, 1985, 55, 1078-1081. | 7.8 | 24 |
| 104 | Dynamics of Entangled Polymer Chains. Annual Review of Physical Chemistry, 1982, 33, 49-61. | 10.8 | 168 |
| 105 | Reptation in entangled polymer solutions by forced Rayleigh light scattering. Macromolecules, 1981, 14, 1732-1738. | 4.8 | 161 |
| 106 | Chains dynamics in entangled polymer solutions. Ferroelectrics, 1980, 30, 133-133. | 0.6 | 0 |
| 107 | Self-Diffusion in Polymer Solutions: A Test for Scaling and Reptation. Physical Review Letters, 1979, 42, 1681-1684. | 7.8 | 122 |
| 108 | Divergence of the bend elastic constant above a nematic to smectic a quasi second order phase transition. Physics Letters, Section A: General, Atomic and Solid State Physics, 1973, 44, 535-536. | 2.1 | 30 |

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| 109 | Static and dynamic behaviour of walls in nematics above a Freedericks transition. Solid State Communications, 1972, 11, 1499-1501. | 1.9 | 50 |
| 110 | Observation of wall motions in nematics. Solid State Communications, 1972, 10, 697-700. | 1.9 | 43 |