Anke Lindner

List of Publications by Year
in descending order

55 papers	2,307 citations	201385 27 h-index	214527 47 g-index
56 all docs	56 docs citations	56 times ranked	2041 citing authors

#	Article	IF	Citations
1	Viscous Fingering in a Yield Stress Fluid. Physical Review Letters, 2000, 85, 314-317.	2.9	151
2	Non-Newtonian Viscosity of<i>Escherichia coli</i>Suspensions. Physical Review Letters, 2013, 110, 268103.	2.9	145
3	Viscous fingering in non-Newtonian fluids. Journal of Fluid Mechanics, 2002, 469, 237-256.	1.4	144
4	Pattern Formation during Deformation of a Confined Viscoelastic Layer: From a Viscous Liquid to a Soft Elastic Solid. Physical Review Letters, 2008, 101, 074503.	2.9	134
5	Dynamics of Flexible Fibers in Viscous Flows and Fluids. Annual Review of Fluid Mechanics, 2019, 51, 539-572.	10.8	130
6	Cohesive failure of thin layers of soft model adhesives under tension. Journal of Applied Physics, 2003, 93, 1557-1566.	1.1	122
7	Inertial effects on Saffmanâ€“Taylor viscous fingering. Journal of Fluid Mechanics, 2006, 552, 83.	1.4	78
8	Enhanced Adhesion of Elastic Materials to Small-Scale Wrinkles. Langmuir, 2012, 28, 14899-14908.	1.6	78
9	Oscillatory surface rheotaxis of swimming E. coli bacteria. Nature Communications, 2019, 10, 3434.	5.8	73
10	Dynamic evolution of fingering patterns in a lifted Heleâ€“Shaw cell. Physics of Fluids, 2011, 23, .	1.6	72
11	Serpentine channels: micro-rheometers for fluid relaxation times. Lab on A Chip, 2014, 14, 351-358.	3.1	67
12	Accelerated drop detachment in granular suspensions. Physics of Fluids, 2012, 24, .	1.6	66
13	Morphological transitions of elastic filaments in shear flow. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9438-9443.	3.3	63
14	Living on the edge: transfer and traffic of E. coli in a confined flow. Soft Matter, 2015, 11, 6284-6293.	1.2	59
15	Bending of elastic fibres in viscous flows: the influence of confinement. Journal of Fluid Mechanics, 2013, 720, 517-544.	1.4	52
16	How to obtain the elongational viscosity of dilute polymer solutions?. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 125-133.	1.2	49
17	The stabilizing effect of shear thinning on the onset of purely elastic instabilities in serpentine microflows. Soft Matter, 2016, 12, 6167-6175.	1.2	46
18	Flexible filaments buckle into helicoidal shapes in strong compressional flows. Nature Physics, 2020, 16, 689-694.	6.5	41

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19	Preload-responsive adhesion: effects of aspect ratio, tip shape and alignment. Journal of the Royal Society Interface, 2013, 10, 20130171.	1.5	38
20	Dynamics of drop formation in granular suspensions: the role of volume fraction. Granular Matter, 2012, 14, 169-174.	1.1	37
21	Saffmanâ€“Taylor instability in yield stress fluids. Journal of Physics Condensed Matter, 2005, 17, S1219-S1228.	0.7	35
22	Particles accelerate the detachment of viscous liquids. Rheologica Acta, 2013, 52, 403-412.	1.1	35
23	Chirality-induced bacterial rheotaxis in bulk shear flows. Science Advances, 2020, 6, eabb2012.	4.7	31
24	Measurement of the receding contact angle at the interface between a viscoelastic material and a rigid surface. Soft Matter, 2010, 6, 2685.	1.2	29
25	Swimming bacteria in Poiseuille flow: The quest for active Bretherton-Jeffery trajectories. Europhysics Letters, 2019, 126, 44003.	0.7	29
26	Secondary flows of viscoelastic fluids in serpentine microchannels. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	29
27	Microfluidic In-Situ Measurement of Poissonâ€™s Ratio of Hydrogels. Micromachines, 2020, 11, 318.	1.4	29
28	<i>E. coli</i> â€œsuper-contaminatesâ€• narrow ducts fostered by broad run-time distribution. Science Advances, 2020, 6, eaay0155.	4.7	29
29	Deformation of a flexible fiber settling in a quiescent viscous fluid. Physical Review Fluids, 2018, 3, .	1.0	29
30	Mesoscopic Length Scale Controls the Rheology of Dense Suspensions. Physical Review Letters, 2010, 105, 108302.	2.9	28
31	Bacterial suspensions under flow. European Physical Journal: Special Topics, 2016, 225, 2389-2406.	1.2	26
32	Microfluidic in situ mechanical testing of photopolymerized gels. Lab on A Chip, 2015, 15, 244-252.	3.1	25
33	Debonding energy of PDMS. European Physical Journal E, 2013, 36, 103.	0.7	23
34	Single fiber transport in a confined channel: Microfluidic experiments and numerical study. Physics of Fluids, 2013, 25, .	1.6	23
35	Quantitative analysis of the debonding structure of soft adhesives. European Physical Journal E, 2014, 37, 3.	0.7	23
36	Molecular Weight Dependence of Interdiffusion and Adhesion of Polymers at Short Contact Times. Langmuir, 2017, 33, 1670-1678.	1.6	18

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37	Deformation and shape of flexible, microscale helices in viscous flow. Physical Review E, 2015, 92, 011004.	0.8	17
38	Clogging of microfluidic constrictions by monoclonal antibody aggregates: role of aggregate shape and deformability. Soft Matter, 2020, 16, 921-928.	1.2	17
39	Crack propagation at the interface between soft adhesives and model surfaces studied with a sticky wedge test. Soft Matter, 2013, 9, 6515.	1.2	16
40	Flow of complex suspensions. Physics of Fluids, 2014, 26, .	1.6	16
41	Single particles accelerate final stages of capillary break-up. Europhysics Letters, 2015, 110, 64002.	0.7	16
42	Viscous fingering in complex fluids. Journal of Physics Condensed Matter, 2000, 12, A477-A482.	0.7	15
43	Debonding Mechanisms of Soft Materials at Short Contact Times. Langmuir, 2014, 30, 10626-10636.	1.6	15
44	Transport of flexible fibers in confined microchannels. Physical Review Fluids, 2019, 4, .	1.0	15
45	Optimised hyperbolic microchannels for the mechanical characterisation of bio-particles. Soft Matter, 2020, 16, 9844-9856.	1.2	14
46	3D Spatial Exploration by <i>E. coli</i> Echoes Motor Temporal Variability. Physical Review X, 2020, 10, .	2.8	14
47	Elastic Fibers in Flows. RSC Soft Matter, 2015, , 168-192.	0.2	14
48	Run-to-Tumble Variability Controls the Surface Residence Times of <i>E. coli</i> Bacteria. Physical Review Letters, 2022, 128, .	2.9	12
49	Oscillations of a cantilevered micro beam driven by a viscoelastic flow instability. Soft Matter, 2020, 16, 1227-1235.	1.2	11
50	Microfluidic Fabrication Solutions for Tailor-Designed Fiber Suspensions. Applied Sciences (Switzerland), 2016, 6, 385.	1.3	9
51	Programmed Wrapping and Assembly of Droplets with Mesoscale Polymers. Advanced Functional Materials, 2020, 30, 2002704.	7.8	7
52	Customised bifurcating networks for mapping polymer dynamics in shear flows. Biomicrofluidics, 2017, 11, 064106.	1.2	6
53	Signatures of elastoviscous buckling in the dilute rheology of stiff polymers. Journal of Fluid Mechanics, 2021, 919, .	1.4	5
54	Controlling Viscous Fingering. Europhysics News, 1999, 30, 77.	0.1	1

#	Article	IF	Citations
55	Morphological transitions of flexible fibers in viscous flows. , 2022, 3, 100057.		1