Martin Brinkmann

List of Publications by Year
in descending order

70	4,187	159585 30	110387 64
papers	citations	h-index	g-index

71	71	71	4918
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Morphology quantification of three-dimensional fluid invasion patterns. International Journal of Multiphase Flow, 2022, 148, 103916.	3.4	2
2	Ordered/disordered monodisperse dense granular flow down an inclined plane: dry versus wet media in the capillary bridge regime. Granular Matter, 2021, 23, 1.	2.2	2
3	Kinetics of active water/ethanol Janus droplets. Soft Matter, 2020, 16, 6803-6811.	2.7	7
4	Capillary Interaction in Wet Granular Assemblies: Part 1. , 2019, , 239-275.		0
5	Directional Liquid Wicking in Regular Arrays of Triangular Posts. Langmuir, 2019, 35, 16476-16486.	3.5	4
6	Comprehensive comparison of pore-scale models for multiphase flow in porous media. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13799-13806.	7.1	162
7	Capillary-Dominated Fluid Displacement in Porous Media. Annual Review of Fluid Mechanics, 2019, 51, 429-449.	25.0	109
8	The Impact of Wetting-Heterogeneity Distribution on Capillary Pressure and Macroscopic Measures of Wettability. SPE Journal, 2019, 24, 200-214.	3.1	11
9	Morphological Transitions of Water Channels Induced by Vertical Vibrations. Langmuir, 2018, 34, 12882-12888.	3.5	1
10	Energy dissipation in sheared wet granular assemblies. Physical Review E, 2018, 98, .	2.1	7
11	Shape Evolution of Droplets Growing on Linear Microgrooves. Langmuir, 2018, 34, 10498-10511.	3.5	8
12	Spatiotemporal control of cargo delivery performed by programmable self-propelled Janus droplets. Communications Physics, 2018, 1, .	5.3	34
13	Morphological evolution of microscopic dewetting droplets with slip. Journal of Fluid Mechanics, 2017, 828, 271-288.	3.4	9
14	The Role of Local Instabilities in Fluid Invasion into Permeable Media. Scientific Reports, 2017, 7, 444.	3.3	65
15	Impact of thermal annealing on wettability and antifouling characteristics of alginate poly-l-lysine polyelectrolyte multilayer films. Colloids and Surfaces B: Biointerfaces, 2016, 145, 328-337.	5.0	34
16	Liquid morphologies and capillary forces between three spherical beads. Physical Review E, 2016, 94, 012907.	2.1	23
17	Deviation of sliding drops at a chemical step. Soft Matter, 2016, 12, 8268-8273.	2.7	15
18	Stochastic Rotation Dynamics simulations of wetting multi-phase flows. Journal of Computational Physics, 2016, 315, 554-576.	3.8	10

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19	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
20	Wettability controls slow immiscible displacement through local interfacial instabilities. Physical Review Fluids, 2016, 1, .	2.5	99
21	Arrest stress of uniformly sheared wet granular matter. Physical Review E, 2015, 91, 062201.	2.1	1
22	Stability Limits of Capillary Bridges: How Contact Angle Hysteresis Affects Morphology Transitions of Liquid Microstructures. Physical Review Letters, 2015, 114, 234501.	7.8	20
23	Role of contact-angle hysteresis for fluid transport in wet granular matter. Physical Review E, 2015, 91, 042204.	2.1	18
24	Characterization of super liquid-repellent surfaces. Current Opinion in Colloid and Interface Science, 2014, 19, 343-354.	7.4	151
25	On the onset of motion of sliding drops. Soft Matter, 2014, 10, 3325.	2.7	63
26	Pinning and wicking in regular pillar arrays. Soft Matter, 2014, 10, 5739-5748.	2.7	50
27	Wetting Heterogeneities in Porous Media Control Flow Dissipation. Physical Review Applied, 2014, 2, .	3.8	56
28	Droplet sorting in a loop of flat microfluidic channels. Journal of Physics Condensed Matter, 2013, 25, 285102.	1.8	14
29	Design principles for superamphiphobic surfaces. Soft Matter, 2013, 9, 418-428.	2.7	196
30	Driven large contact angle droplets on chemically heterogeneous substrates. Europhysics Letters, 2012, 100, 16002.	2.0	26
31	Packings of monodisperse emulsions in flat microfluidic channels. Physical Review E, 2012, 85, 061403.	2.1	7
32	Wet granular rafts: aggregation in two dimensions under shear flow. Soft Matter, 2012, 8, 11939.	2.7	16
33	Buoyant Droplets on Functional Fibers. Langmuir, 2012, 28, 13300-13306.	3.5	29
34	Morphological Transitions of Droplets Wetting Rectangular Domains. Langmuir, 2012, 28, 13919-13923.	3.5	34
35	Advancing modes on regularly patterned substrates. Soft Matter, 2012, 8, 6301.	2.7	27
36	Droplet based microfluidics. Reports on Progress in Physics, 2012, 75, 016601.	20.1	813

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37	Wetting morphologies and their transitions in grooved substrates. Journal of Physics Condensed Matter, 2011, 23, 184108.	1.8	28
38	Drops on functional fibers: from barrels to clamshells and back. Soft Matter, 2011, 7, 5138.	2.7	90
39	Mechanical stability of ordered droplet packings in microfluidic channels. Applied Physics Letters, 2011, 99, .	3.3	7
40	Controlling the Formation of Capillary Bridges in Binary Liquid Mixtures. Langmuir, 2010, 26, 17184-17189.	3.5	44
41	Morphological Wetting Transitions at Ring-Shaped Surface Domains. Langmuir, 2010, 26, 11878-11885.	3.5	19
42	Contact Line Pinning on Microstructured Surfaces for Liquids in the Wenzel State. Langmuir, 2010, 26, 860-865.	3.5	127
43	Fluidization of wet granulates under shear. Physical Review E, 2010, 82, 061305.	2.1	14
44	A response function perspective on yielding of wet granular matter. Europhysics Letters, 2009, 87, 14002.	2.0	10
45	Switching wetting morphologies in triangular grooves. European Physical Journal: Special Topics, 2009, 166, 151-154.	2.6	8
46	Morphological Transitions of Liquid Droplets on Circular Surface Domains. Langmuir, 2009, 25, 13493-13502.	3.5	8
47	Morphological clues to wet granular pileÂstability. Nature Materials, 2008, 7, 189-193.	27.5	288
48	Enhancement of Capillary Forces by Multiple Liquid Bridges. Langmuir, 2008, 24, 8813-8820.	3.5	74
49	Wetting and Dewetting of Complex Surface Geometries. Annual Review of Materials Research, 2008, 38, 101-121.	9.3	167
50	Capillary Forces between Chemically Different Substrates. Langmuir, 2008, 24, 10161-10168.	3.5	74
51	Surface Hydrophobicity Causes SO2 Tolerance in Lichens. Annals of Botany, 2008, 101, 531-539.	2.9	58
52	Liquid distribution and cohesion in wet granular assemblies beyond the capillary bridge regime. Journal of Physics Condensed Matter, 2008, 20, 494236.	1.8	71
53	Contact line stability of ridges and drops. Europhysics Letters, 2007, 80, 66002.	2.0	24
54	Dewetting of Liquid Filaments in Wedge-Shaped Grooves. Langmuir, 2007, 23, 12138-12141.	3.5	26

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55	Switching Liquid Morphologies on Linear Grooves. Langmuir, 2007, 23, 12997-13006.	3.5	60
56	Control of Liquids by Surface Energies. , 2007, , 157-202.		5
57	Fluidics of a Nanogap. Langmuir, 2006, 22, 9784-9788.	3.5	8
58	Capillary filling of miniaturized sources for electrospray mass spectrometry. Journal of Physics Condensed Matter, 2006, 18, S677-S690.	1.8	6
59	Free Cooling of the One-Dimensional Wet Granular Gas. Physical Review Letters, 2006, 97, 018001.	7.8	12
60	Wettability Control of Droplet Deposition and Detachment. Physical Review Letters, 2006, 96, 146106.	7.8	22
61	Wetting morphologies at microstructured surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1848-1852.	7.1	346
62	Droplets, bubbles, and vesicles at chemically structured surfaces. Journal of Physics Condensed Matter, 2005, 17, S537-S558.	1.8	43
63	Wetting, budding, and fusionâ€"morphological transitions of soft surfaces. Journal of Physics Condensed Matter, 2005, 17, S2885-S2902.	1.8	25
64	Stability of liquid channels or filaments in the presence of line tension. Journal of Physics Condensed Matter, 2005, 17, 2349-2364.	1.8	40
65	Microfluidic design rules for capillary slot-based electrospray sources. Applied Physics Letters, 2004, 85, 2140-2142.	3.3	26
66	A general stability criterion for droplets on structured substrates. Journal of Physics A, 2004, 37, 11547-11573.	1.6	42
67	Blobs, channels and â€œcigarsâ€• Morphologies of liquids at a step. European Physical Journal E, 2004, 14, 79-89.	1.6	39
68	Wetting morphologies on substrates with striped surface domains. Journal of Applied Physics, 2002, 92, 4296-4306.	2.5	174
69	Liquid Bridges in Chemically Structured Slit Pores. Langmuir, 2001, 17, 3390-3399.	3.5	44
70	A Novel Microwave Applicator for Tailoring the Energy Input for Hydrothermal Synthesis of Zeolites. Journal of Microwave Power and Electromagnetic Energy, 2001, 36, 155-168.	0.8	9