

# Andrew Parry

## List of Publications by Year in descending order

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92  
papers

2,206  
citations

218677

26  
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254184

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92  
all docs

92  
docs citations

92  
times ranked

567  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation-function structure in square-gradient models of the liquid-gas interface: Exact results and reliable approximations. <i>Physical Review E</i> , 2019, 100, 022803.	2.1	2
2	Microscopic determination of correlations in the fluid interfacial region in the presence of liquid-gas asymmetry. <i>Physical Review E</i> , 2019, 100, 052801.	2.1	2
3	The Goldstone mode and resonances in the fluid interfacial region. <i>Nature Physics</i> , 2019, 15, 287-292.	16.7	14
4	First-order wedge wetting revisited. <i>Soft Matter</i> , 2018, 14, 2835-2845.	2.7	5
5	Wetting of a plane with a narrow solvophobic stripe. <i>Molecular Physics</i> , 2018, 116, 1990-1997.	1.7	9
6	Classical density functional study of wetting transitions on nanopatterned surfaces. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 094001.	1.8	12
7	The local structure factor near an interface; beyond extended capillary-wave models. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 244013.	1.8	21
8	Complete prewetting. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 275001.	1.8	12
9	Liquid-gas asymmetry and the wave-vector-dependent surface tension. <i>Physical Review E</i> , 2015, 91, 030401.	2.1	9
10	Capillary Contact Angle in a Completely Wet Groove. <i>Physical Review Letters</i> , 2014, 113, 146101.	7.8	19
11	Pair correlation functions and the wavevector-dependent surface tension in a simple density functional treatment of the liquid-vapour interface. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 355008.	1.8	24
12	Renormalization group calculations for wetting transitions of infinite order and continuously varying order: Local interface Hamiltonian approach. <i>Physical Review E</i> , 2013, 88, 022122.	2.1	4
13	The order of filling transitions in acute wedges. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 182202.	1.8	10
14	Capillary Emptying and Short-Range Wetting. <i>Physical Review Letters</i> , 2012, 108, 246101.	7.8	22
15	An interpretation of covariance relations for wetting and wedge filling transitions. <i>Journal of Chemical Physics</i> , 2010, 132, 204704.	3.0	11
16	Local scale invariance for wetting and confined interfaces. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 125002.	2.1	1
17	Derivation of a non-local interfacial model for 3D wetting in an external field. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 465105.	1.8	20
18	The Trouble with Critical Wetting. <i>Journal of Low Temperature Physics</i> , 2009, 157, 149-173.	1.4	20

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19	Intrusion of fluids into nanogrooves. <i>European Physical Journal E</i> , 2008, 25, 103-115.	1.6	14
20	The critical wetting saga: how to draw the correct conclusion. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494234.	1.8	7
21	The influence of non-locality on fluctuation effects for 3D short-ranged wetting. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 505102.	1.8	11
22	3D Short-Range Wetting and Nonlocality. <i>Physical Review Letters</i> , 2008, 100, 136105.	7.8	41
23	Controlling the order of wedge filling transitions: the role of line tension. <i>New Journal of Physics</i> , 2007, 9, 167-167.	2.9	11
24	Derivation of a non-local interfacial Hamiltonian for short-ranged wetting: II. General diagrammatic structure. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 416105.	1.8	31
25	Condensation in a Capped Capillary is a Continuous Critical Phenomenon. <i>Physical Review Letters</i> , 2007, 98, 226101.	7.8	67
26	Tests of nonuniversality and finite-size scaling for two-dimensional wetting with long-ranged forces. <i>Physical Review E</i> , 2007, 75, 041110.	2.1	3
27	Derivation of a non-local interfacial Hamiltonian for short-ranged wetting: I. Double-parabola approximation. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 6433-6451.	1.8	52
28	Signatures of non locality for short-ranged wetting at curved substrates. <i>Journal of Chemical Physics</i> , 2006, 124, 151101.	3.0	14
29	Point tension in adsorption at a chemically inhomogeneous substrate in two dimensions. <i>Physical Review E</i> , 2006, 74, 031608.	2.1	9
30	3D wedge filling and 2D random-bond wetting. <i>Europhysics Letters</i> , 2005, 72, 1004-1010.	2.0	11
31	Phase transitions, interfacial fluctuations and hidden symmetries for fluids near structured walls. <i>Pramana - Journal of Physics</i> , 2005, 64, 709-725.	1.8	0
32	Tricritical wedge filling transitions with short-ranged forces. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3487-S3492.	1.8	10
33	Extended wedge covariance for wetting and filling transitions. <i>Journal of Chemical Physics</i> , 2005, 123, 234105.	3.0	5
34	Covariance for Cone and Wedge Complete Filling. <i>Physical Review Letters</i> , 2005, 94, 096103.	7.8	38
35	Three-dimensional wedge filling in ordered and disordered systems. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 2515-2542.	1.8	22
36	Interfacial structure at a two-dimensional wedge filling transition: Exact results and a renormalization group study. <i>Physical Review E</i> , 2004, 69, 061604.	2.1	8

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37	Nonlocality and Short-Range Wetting Phenomena. <i>Physical Review Letters</i> , 2004, 93, 086104.	7.8	57
38	Fluid Adsorption near an Apex: Covariance between Complete and Critical Wetting. <i>Physical Review Letters</i> , 2003, 90, 046101.	7.8	23
39	Crossover effects in the wetting of adsorbed films in linear wedges. <i>Physical Review E</i> , 2003, 68, 021606.	2.1	30
40	Drumhead model of 2D wetting, filling and wedge covariance. <i>Europhysics Letters</i> , 2002, 60, 106-112.	2.0	31
41	Critical wetting in power-law wedge geometries. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L679-L686.	1.8	7
42	Wedge covariance for two-dimensional filling and wetting. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 1169-1198.	1.8	41
43	A disorder point for filling transitions in 1+1 dimensions. <i>Journal of Physics A</i> , 2001, 34, L5-L10.	1.6	4
44	Wedge filling, cone filling and the strong-fluctuation regime. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 4591-4613.	1.8	57
45	Droplet shapes on structured substrates and conformal invariance. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 383-402.	1.8	15
46	Surface phase diagrams for wetting on heterogenous substrates. <i>Journal of Chemical Physics</i> , 2001, 115, 5258-5271.	3.0	27
47	Universal Phase Boundary Shifts for Corner Wetting and Filling. <i>Physical Review Letters</i> , 2001, 87, 196103.	7.8	33
48	Geometry-dominated fluid adsorption on sculpted solid substrates. <i>Nature</i> , 2000, 407, 986-989.	27.8	175
49	Two-dimensional filling in ordered and disordered systems. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 7671-7685.	1.8	27
50	Wetting on non-planar and heterogeneous substrates. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A369-A374.	1.8	16
51	Critical Effects at 3D Wedge Wetting. <i>Physical Review Letters</i> , 2000, 85, 345-348.	7.8	112
52	Local Functional Models of Critical Correlations in Thin Films. <i>Physical Review Letters</i> , 2000, 85, 4108-4111.	7.8	1
53	Geometry dependent critical exponents at complete wetting. <i>Journal of Chemical Physics</i> , 2000, 112, 5175-5180.	3.0	34
54	Morphological phase transitions of thin fluid films on chemically structured substrates. <i>Europhysics Letters</i> , 1999, 47, 474-480.	2.0	66

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55	Universality for 2D Wedge Wetting. <i>Physical Review Letters</i> , 1999, 83, 5535-5538.	7.8	91
56	Wetting at nonplanar substrates: Unbending and unbinding. <i>Physical Review E</i> , 1999, 59, 5697-5700.	2.1	43
57	Interfacial Structural Changes and Singularities in Nonplanar Geometries. <i>Physical Review Letters</i> , 1998, 81, 1267-1270.	7.8	8
58	Correlation function algebra for inhomogeneous fluids. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 2351-2373.	1.8	3
59	Renormalization group flow of the stiffness matrix - free-energy relation. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 7003-7015.	1.8	1
60	Two parameters for three-dimensional wetting transitions. <i>Europhysics Letters</i> , 1997, 37, 207-212.	2.0	13
61	An exact solution for two-dimensional wetting with a corrugated wall. <i>Journal of Physics A</i> , 1997, 30, 4597-4605.	1.6	15
62	Scaling-violation anomaly at critical wetting. <i>Physical Review E</i> , 1996, 53, 6577-6580.	2.1	15
63	Fluid adsorption at a non-planar wall: roughness-induced first-order wetting. <i>Journal of Physics Condensed Matter</i> , 1996, 8, L659-L666.	1.8	25
64	Nonlinear renormalization of the surface-order-parameter interface Hamiltonian. <i>Journal of Physics A</i> , 1996, 29, 1873-1879.	1.6	6
65	Stiffness matrix formalism for wetting transitions I. Short-range forces. <i>Molecular Physics</i> , 1996, 87, 501-516.	1.7	9
66	Finite-size effects of correlation lengths in planar uniaxial ferromagnets. <i>Physical Review E</i> , 1995, 51, 5261-5273.	2.1	5
67	Surface Order Parameter Interface Hamiltonian: Renormalization of the Capillary Parameter at Complete Wetting. <i>Physical Review Letters</i> , 1995, 74, 3403-3406.	7.8	45
68	Coupled fluctuations near critical wetting. <i>Physical Review E</i> , 1995, 52, R5768-R5771.	2.1	12
69	Absence of a stiffness instability for a model critical-wetting transition in three dimensions. <i>Journal of Physics A</i> , 1994, 27, L351-L356.	1.6	5
70	Non-Ornstein-Zernike surface structure factor for complete wetting in three (and above) dimensions. <i>Journal of Physics A</i> , 1994, 27, 1877-1883.	1.6	14
71	Fluctuation theory for the wavevector expansion of the excess grand potential of a liquid-vapour interface and the theory of interfacial fluctuations. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 7199-7206.	1.8	35
72	Susceptibility Critical Amplitude Ratios and Tests of the Stiffness Instability at Wetting Transitions. <i>Europhysics Letters</i> , 1994, 28, 251-256.	2.0	2

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73	Scaling of confined membranes and interfaces. <i>Journal of Physics A</i> , 1994, 27, 5089-5100.	1.6	0
74	Correlation functions on Cylinders. <i>Physical Review Letters</i> , 1994, 73, 1742-1745.	7.8	3
75	Effective interfacial Hamiltonian theories of correlation functions at wetting transitions. <i>Journal of Physics A</i> , 1993, 26, L667-L672.	1.6	12
76	Title is missing!. <i>Journal of Physics A</i> , 1992, 25, L685-L691.	1.6	2
77	Scaling and local scale invariance for wetting transitions and confined interfaces. <i>Journal of Physics A</i> , 1992, 25, 257-273.	1.6	15
78	Universal amplitude-exponent relations for interfaces and conformal mappings. <i>Journal of Physics A</i> , 1992, 25, L1015-L1021.	1.6	3
79	Finite-size-scaling derivation of the Widom critical-exponent relation for surface tension. <i>Physical Review A</i> , 1992, 46, 5282-5283.	2.5	4
80	Length scales for wetting transitions: Beyond the continuum Landau approximation for the interfacial binding potential. <i>Physical Review A</i> , 1992, 45, 3823-3830.	2.5	51
81	Universal fluctuation-induced corrections to the Kelvin equation for capillary condensation. <i>Journal of Physics A</i> , 1992, 25, 275-284.	1.6	31
82	Short-distance expansion for the local susceptibility and pair correlation function at continuous wetting transitions. <i>Journal of Physics A</i> , 1991, 24, 1335-1350.	1.6	16
83	Universal and non-universal short-distance expansions in the strong, weak and intermediate fluctuation regimes of critical wetting. <i>Journal of Physics A</i> , 1991, 24, L699-L704.	1.6	8
84	Critical amplitude ratios for critical wetting in three dimensions: Observation of nonclassical behavior in the Ising model. <i>Physical Review B</i> , 1991, 43, 11535-11538.	3.2	40
85	Parry and Evans reply. <i>Physical Review Letters</i> , 1991, 66, 2175-2175.	7.8	22
86	Long-ranged surface perturbations for confined fluids. <i>Physical Review Letters</i> , 1991, 67, 2978-2981.	7.8	22
87	Critical amplitudes for critical wetting with short-ranged forces: the approach to $d=3$ -. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 7687-7698.	1.8	4
88	Influence of wetting on phase equilibria: A novel mechanism for critical-point shifts in films. <i>Physical Review Letters</i> , 1990, 64, 439-442.	7.8	197
89	Nonuniversal anisotropy dependence of critical-wetting exponents in a vector model. <i>Physical Review B</i> , 1990, 42, 798-802.	3.2	13
90	Liquids at interfaces: what can a theorist contribute?. <i>Journal of Physics Condensed Matter</i> , 1990, 2, SA15-SA32.	1.8	58

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91	Comment on simple scaling theory for three-dimensional critical wetting with short-ranged forces. Physical Review B, 1989, 39, 12336-12338.	3.2	13
92	Wetting transitions in fluids with short-ranged forces: correlation functions and criticality. Journal of Physics Condensed Matter, 1989, 1, 7207-7238.	1.8	18