

# Haim Diamant

## List of Publications by Year in descending order

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87  
papers

2,891  
citations

147726  
31  
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89  
docs citations

89  
times ranked

2471  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structured viscoelastic substrates as linear foundations. <i>Physical Review E</i> , 2022, 105, 025005.	0.8	0
2	Symmetry properties of nonlinear hydrodynamic interactions between responsive particles. <i>Physical Review E</i> , 2021, 103, 042612.	0.8	2
3	Persistent collective motion of a dispersing membrane domain. <i>Biophysical Journal</i> , 2021, 120, 2030-2039.	0.2	2
4	Parametric excitation of wrinkles in elastic sheets on elastic and viscoelastic substrates. <i>European Physical Journal E</i> , 2021, 44, 78.	0.7	2
5	Delayed nucleation in lipid particles. <i>Soft Matter</i> , 2020, 16, 247-255.	1.2	4
6	Inferring entropy from structure. <i>Physical Review E</i> , 2020, 102, 022110.	0.8	7
7	Surface Response of a Polymer Network: Semi-infinite Network. <i>Langmuir</i> , 2020, 36, 3981-3987.	1.6	4
8	A review of shaped colloidal particles in fluids: anisotropy and chirality. <i>Reports on Progress in Physics</i> , 2020, 83, 116601.	8.1	22
9	Light-Controlled Selective Collection-and-Release of Biomolecules by an On-Chip Nanostructured Device. <i>Nano Letters</i> , 2019, 19, 5868-5878.	4.5	23
10	Screening length for finite-size ions in concentrated electrolytes. <i>Physical Review E</i> , 2019, 100, 042615.	0.8	56
11	Spontaneous and directed symmetry breaking in the formation of chiral nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11159-11164.	3.3	41
12	Permeability of immobile rings of membrane inclusions to in-plane flow. <i>Journal of Chemical Physics</i> , 2019, 150, 154901.	1.2	0
13	Membrane undulations in a structured fluid: Universal dynamics at intermediate length and time scales. <i>European Physical Journal E</i> , 2018, 41, 1.	0.7	23
14	Wrinkled clean. <i>Nature Physics</i> , 2018, 14, 878-879.	6.5	1
15	Many-particle mobility and diffusion tensors for objects in viscous sheets. <i>Journal of Chemical Physics</i> , 2018, 149, 034901.	1.2	6
16	Electrostatics of patchy surfaces. <i>Advances in Colloid and Interface Science</i> , 2017, 247, 198-207.	7.0	28
17	Pattern transitions in a compressible floating elastic sheet. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23817-23824.	1.3	6
18	Strain tensor selection and the elastic theory of incompatible thin sheets. <i>Physical Review E</i> , 2017, 95, 053003.	0.8	12

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19	Correlations in suspensions confined between viscoelastic surfaces: Noncontact microrheology. <i>Physical Review E</i> , 2017, 96, 022607.	0.8	1
20	Screening, Hyperuniformity, and Instability in the Sedimentation of Irregular Objects. <i>Physical Review Letters</i> , 2017, 118, 158005.	2.9	24
21	Electrostatic attraction between overall neutral surfaces. <i>Physical Review E</i> , 2016, 94, 022803.	0.8	14
22	Hydrodynamic interactions between two forced objects of arbitrary shape. II. Relative translation. <i>Physical Review E</i> , 2016, 93, 042609.	0.8	11
23	Elasticity and Fluctuations of Frustrated Nanoribbons. <i>Physical Review Letters</i> , 2016, 116, 258105.	2.9	20
24	Free energy approach to micellization and aggregation: Equilibrium, metastability, and kinetics. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 22, 94-98.	3.4	18
25	Properties of compressible elastica from relativistic analogy. <i>Soft Matter</i> , 2016, 12, 664-668.	1.2	11
26	Wrinkles and folds in a fluid-supported sheet of finite size. <i>Physical Review E</i> , 2015, 91, 052408.	0.8	40
27	Structure and dynamics of a layer of sedimented particles. <i>Journal of Chemical Physics</i> , 2015, 143, 074704.	1.2	6
28	Hydrodynamic interactions between two forced objects of arbitrary shape. I. Effect on alignment. <i>Physics of Fluids</i> , 2015, 27, .	1.6	15
29	Response of a polymer network to the motion of a rigid sphere. <i>European Physical Journal E</i> , 2015, 38, 117.	0.7	18
30	Viscoelastic Response of a Complex Fluid at Intermediate Distances. <i>Physical Review Letters</i> , 2014, 112, .	2.9	36
31	Divergence of the long-wavelength collective diffusion coefficient in quasi-one- and quasi-two-dimensional colloidal suspensions. <i>Physical Review E</i> , 2014, 89, 022303.	0.8	18
32	Drag of the Cytosol as a Transport Mechanism in Neurons. <i>Biophysical Journal</i> , 2014, 106, 2710-2719.	0.2	10
33	Anomalously fast kinetics of lipid monolayer buckling. <i>Physical Review E</i> , 2013, 88, 022405.	0.8	6
34	Shape and symmetry of a fluid-supported elastic sheet. <i>Physical Review E</i> , 2013, 88, 012401.	0.8	18
35	Wrinkle to fold transition: influence of the substrate response. <i>Soft Matter</i> , 2013, 9, 8177.	1.2	139
36	Interaction between heterogeneously charged surfaces: Surface patches and charge modulation. <i>Physical Review E</i> , 2013, 87, 022402.	0.8	44

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37	Long-range hydrodynamic correlations in quasi-one-dimensional circular and straight geometries. <i>Physical Review E</i> , 2012, 86, 041402.	0.8	5
38	Sound-mediated dynamic correlations between colloidal particles in a quasi-one-dimensional channel. <i>Journal of Physics: Conference Series</i> , 2012, 392, 012007.	0.3	2
39	Law of corresponding states for osmotic swelling of vesicles. <i>Soft Matter</i> , 2012, 8, 2185.	1.2	21
40	Permeability of Phospholipid Membrane for Small Polar Molecules Determined from Osmotic Swelling of Giant Phospholipid Vesicles. <i>Behavior Research Methods</i> , 2012, 16, 301-335.	2.3	8
41	Kinetics of Surfactant Micellization: A Free Energy Approach. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7268-7280.	1.2	33
42	Compression Induced Folding of a Sheet: An Integrable System. <i>Physical Review Letters</i> , 2011, 107, 164302.	2.9	96
43	Hydrodynamic Pair Attractions between Driven Colloidal Particles. <i>Physical Review Letters</i> , 2011, 107, 158302.	2.9	50
44	Stability of quasicrystals composed of soft isotropic particles. <i>Physical Review B</i> , 2011, 83, .	1.1	83
45	Dynamic Surface Tension of Aqueous Solutions of Ionic Surfactants: Role of Electrostatics. <i>Langmuir</i> , 2011, 27, 1009-1014.	1.6	50
46	Model-free thermodynamics of fluid vesicles. <i>Physical Review E</i> , 2011, 84, 061123.	0.8	15
47	In-Plane Dynamics of Membranes with Immobile Inclusions. <i>Physical Review Letters</i> , 2011, 107, 258102.	2.9	34
48	Long-Range Dynamic Correlations in Confined Suspensions. <i>Physical Review Letters</i> , 2010, 104, 248302.	2.9	15
49	Localized Rayleigh Instability in Evaporation Fronts. <i>Physical Review Letters</i> , 2010, 104, 047801.	2.9	4
50	Hydrodynamic interactions in ribbon channels: From quasi-one-dimensional to quasi-two-dimensional behavior. <i>Physical Review E</i> , 2010, 82, 031403.	0.8	6
51	Correlated dynamics of inclusions in a supported membrane. <i>Physical Review E</i> , 2010, 82, 041912.	0.8	43
52	Correlated Diffusion of Membrane Proteins and Their Effect on Membrane Viscosity. <i>Biophysical Journal</i> , 2009, 96, 3041-3049.	0.2	73
53	Hydrodynamic Interaction in Confined Geometries. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 041002.	0.7	91
54	Premicellar aggregation of amphiphilic molecules: Aggregate lifetime and polydispersity. <i>Journal of Chemical Physics</i> , 2009, 130, 114901.	1.2	29

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55	Critical Swelling of Particle-Encapsulating Vesicles. <i>Physical Review Letters</i> , 2008, 101, 078104.	2.9	10
56	Swelling of particle-encapsulating random manifolds. <i>Physical Review E</i> , 2008, 78, 021132.	0.8	3
57	Pair diffusion in quasi-one- and quasi-two-dimensional binary colloid suspensions. <i>Journal of Chemical Physics</i> , 2007, 126, 134908.	1.2	18
58	Nanoscale surface relaxation of a membrane stack. <i>Physical Review E</i> , 2007, 76, 042401.	0.8	6
59	Premicellar Aggregation of Amphiphilic Molecules. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8854-8859.	1.2	54
60	Soft quasicrystalsâ€“Why are they stable?. <i>Philosophical Magazine</i> , 2007, 87, 3021-3030.	0.7	86
61	Longâ€range hydrodynamic response of particulate liquids and liquidâ€laden solids. <i>Israel Journal of Chemistry</i> , 2007, 47, 225-231.	1.0	11
62	Microscopic Folds and Macroscopic Jerks in Compressed Lipid Monolayers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10220-10223.	1.2	43
63	Smoothing transition of a two-dimensional pressurized polymer ring. <i>European Physical Journal E</i> , 2006, 19, 461-469.	0.7	11
64	Swelling of two-dimensional polymer rings by trapped particles. <i>European Physical Journal E</i> , 2006, 21, 33-40.	0.7	2
65	Surface relaxation of lyotropic lamellar phases. <i>Europhysics Letters</i> , 2006, 73, 871-877.	0.7	9
66	Influence of Hydrodynamic Coupling on Pair Diffusion in a Quasi-One-Dimensional Colloid System. <i>Physical Review Letters</i> , 2005, 95, 158301.	2.9	22
67	Correlated particle dynamics in concentrated quasi-two-dimensional suspensions. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S4047-S4058.	0.7	22
68	From Random Walk to Single-File Diffusion. <i>Physical Review Letters</i> , 2005, 94, 216001.	2.9	128
69	Enhanced Dispersion Interaction in Confined Geometry. <i>Physical Review Letters</i> , 2005, 95, 223203.	2.9	18
70	Hydrodynamic interaction in quasi-two-dimensional suspensions. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S2787-S2793.	0.7	27
71	Anomalous Hydrodynamic Interaction in a Quasi-Two-Dimensional Suspension. <i>Physical Review Letters</i> , 2004, 92, 258301.	2.9	146
72	Increased Concentration of Polyvalent Phospholipids in the Adsorption Domain of a Charged Protein. <i>Biophysical Journal</i> , 2004, 86, 2165-2178.	0.2	55

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73	Screened Hydrodynamic Interaction in a Narrow Channel. <i>Physical Review Letters</i> , 2002, 89, 188302.	2.9	115
74	Effect of Temperature and Composition on the Formation of Nanoscale Compartments in Phospholipid Membranes. <i>Journal of the American Chemical Society</i> , 2001, 123, 6951-6952.	6.6	34
75	Swelling kinetics of the onion phase. <i>European Physical Journal E</i> , 2001, 4, 223-232.	0.7	12
76	Kinetics of surfactant adsorption: the free energy approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 183-185, 259-276.	2.3	69
77	In search of soft solutions. <i>Nature</i> , 2001, 412, 391-392.	13.7	8
78	Topography and instability of monolayers near domain boundaries. <i>Physical Review E</i> , 2001, 63, 061602.	0.8	57
79	Unstable topography of biphasic surfactant monolayers. <i>Europhysics Letters</i> , 2000, 52, 171-177.	0.7	46
80	Binding of molecules to DNA and other semiflexible polymers. <i>Physical Review E</i> , 2000, 61, 6740-6749.	0.8	46
81	Self-Assembly in Mixtures of Polymers and Small Associating Molecules. <i>Macromolecules</i> , 2000, 33, 8050-8061.	2.2	70
82	Kinetics of Surfactant Adsorption at Fluid-Fluid Interfaces: Surfactant Mixtures. <i>Langmuir</i> , 1999, 15, 3574-3581.	1.6	27
83	Onset of self-assembly in polymer-surfactant systems. <i>Europhysics Letters</i> , 1999, 48, 170-176.	0.7	53
84	Kinetics of Surfactant Adsorption at Fluid-Fluid Interfaces. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13732-13742.	2.9	157
85	Kinetics of surfactant adsorption at fluid/fluid interfaces: non-ionic surfactants. <i>Europhysics Letters</i> , 1996, 34, 575-580.	0.7	41
86	Dimeric Surfactants: A Simplified Model for the Spacer Chain. <i>Langmuir</i> , 1995, 11, 3605-3606.	1.6	41
87	Dimeric Surfactants: Spacer Chain Conformation and Specific Area at the Air/Water Interface. <i>Langmuir</i> , 1994, 10, 2910-2916.	1.6	93