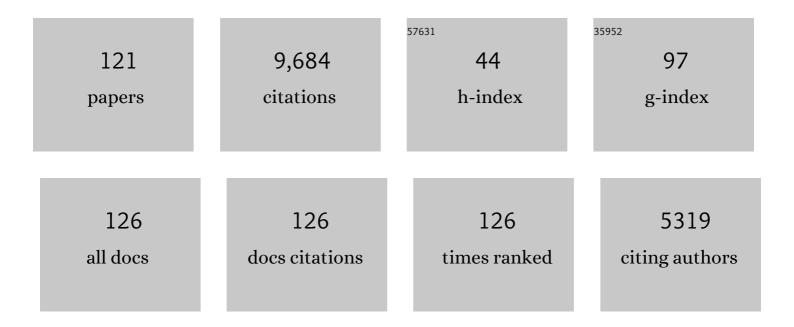
List of Publications by Year in descending order

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LOFI KODUK

#	Article	IF	CITATIONS
1	Theory of dynamic permeability and tortuosity in fluid-saturated porous media. Journal of Fluid Mechanics, 1987, 176, 379.	1.4	1,778
2	Pattern selection in fingered growth phenomena. Advances in Physics, 1988, 37, 255-339.	35.9	932
3	Capillary displacement and percolation in porous media. Journal of Fluid Mechanics, 1982, 119, 249-267.	1.4	438
4	New Pore-Size Parameter Characterizing Transport in Porous Media. Physical Review Letters, 1986, 57, 2564-2567.	2.9	404
5	Molecular dynamics of fluid flow at solid surfaces. Physics of Fluids A, Fluid Dynamics, 1989, 1, 781-794.	1.6	388
6	Molecular dynamics of Poiseuille flow and moving contact lines. Physical Review Letters, 1988, 60, 1282-1285.	2.9	327
7	Conductivity and permeability of rocks. Physical Review B, 1984, 30, 6606-6614.	1.1	299
8	Boundary Conditions at a Fluid-Solid Interface. Physical Review Letters, 2001, 86, 803-806.	2.9	293
9	Vortex reconnection in superfluid helium. Physical Review Letters, 1993, 71, 1375-1378.	2.9	256
10	Geometrical models of interface evolution. Physical Review A, 1984, 29, 1335-1342.	1.0	238
11	Geometrical Approach to Moving-Interface Dynamics. Physical Review Letters, 1983, 51, 1111-1114.	2.9	191
12	Viscosity renormalization in the Brinkman equation. Physics of Fluids, 1983, 26, 2864.	1.4	165
13	Creeping flow in two-dimensional networks. Journal of Fluid Mechanics, 1982, 119, 219-247.	1.4	153
14	Geometrical models of interface evolution. II. Numerical simulation. Physical Review A, 1984, 30, 3161-3174.	1.0	129
15	Steady-state dendritic crystal growth. Physical Review A, 1986, 33, 3352-3357.	1.0	117
16	Geometrical models of interface evolution. III. Theory of dendritic growth. Physical Review A, 1985, 31, 1712-1717.	1.0	111
17	Nonlinear flow in porous media. Physical Review E, 1998, 58, 4776-4782.	0.8	111
18	Interface moving through a random background. Physical Review B, 1985, 32, 280-292.	1.1	110

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19	Deterministic and stochastic behaviour of non-Brownian spheres in sheared suspensions. Journal of Fluid Mechanics, 2002, 460, 307-335.	1.4	106
20	Self-diffusiophoretic colloidal propulsion near a solid boundary. Physics of Fluids, 2016, 28, .	1.6	103
21	Molecular dynamics of drop spreading on a solid surface. Physical Review Letters, 1991, 67, 3539-3542.	2.9	102
22	Terraced Spreading of Chain Molecules via Molecular Dynamics. Physical Review Letters, 1995, 74, 928-931.	2.9	101
23	Hydrodynamic Dispersion in Network Models of Porous Media. Physical Review Letters, 1986, 57, 996-999.	2.9	100
24	Suppression of coalescence by shear and temperature gradients. Physics of Fluids, 1996, 8, 15-28.	1.6	96
25	Thermal walls in computer simulations. Physical Review E, 1998, 57, R17-R20.	0.8	88
26	Flow channeling in a single fracture induced by shear displacement. Geothermics, 2006, 35, 576-588.	1.5	87
27	Freezing in confined geometries. Applied Physics Letters, 1992, 61, 777-779.	1.5	82
28	Dendritic growth in a channel. Physical Review A, 1986, 34, 4980-4987.	1.0	81
29	Numerical simulation of two-dimensional snowflake growth. Physical Review A, 1984, 30, 2820-2823.	1.0	78
30	Terraced spreading of simple liquids on solid surfaces. Physical Review A, 1992, 46, 7738-7749.	1.0	74
31	Dynamics of phase separation of binary fluids. Physical Review A, 1992, 45, R5347-R5350.	1.0	70
32	Molecular Simulations of Dewetting. Physical Review Letters, 2000, 84, 4401-4404.	2.9	69
33	Diffusiophoretic self-propulsion of colloids driven by a surface reaction: The sub-micron particle regime for exponential and van der Waals interactions. Physics of Fluids, 2013, 25, .	1.6	64
34	A molecular dynamics study of freezing in a confined geometry. Journal of Chemical Physics, 1992, 97, 485-493.	1.2	59
35	Colloidal Adsorption at Fluid Interfaces: Regime Crossover from Fast Relaxation to Physical Aging. Physical Review Letters, 2013, 111, 028302.	2.9	58
36	Terraced spreading mechanisms for chain molecules. Physical Review E, 1996, 53, 562-569.	0.8	55

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37	Slip, Immiscibility, and Boundary Conditions at the Liquid-Liquid Interface. Physical Review Letters, 2006, 96, 044505.	2.9	55
38	Immiscible fluid displacement in small networks. Journal of Colloid and Interface Science, 1985, 108, 304-330.	5.0	51
39	Molecular dynamics of interface rupture. Physics of Fluids A, Fluid Dynamics, 1993, 5, 521-536.	1.6	51
40	Scattering of Superfluid Vortex Rings. Physical Review Letters, 1996, 76, 4745-4748.	2.9	48
41	Hydrodynamic interaction of two particles in confined linear shear flow at finite Reynolds number. Physics of Fluids, 2007, 19, .	1.6	48
42	Nanoscale Fluid Flows in the Vicinity of Patterned Surfaces. Physical Review Letters, 2006, 96, 114502.	2.9	47
43	Molecular dynamics of flows in the Knudsen regime. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 153-160.	1.2	46
44	Network model for deep bed filtration. Physics of Fluids, 2001, 13, 1076-1086.	1.6	44
45	No-Slip Condition for a Mixture of Two Liquids. Physical Review Letters, 1998, 80, 5125-5128.	2.9	42
46	Applications of statistical mechanics in subcontinuum fluid dynamics. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 281-293.	1.2	42
47	Permeability of self-affine rough fractures. Physical Review E, 2000, 62, 8076-8085.	0.8	41
48	Molecular Dynamics Study of the Influence of Surfactant Structure on Surfactant-Facilitated Spreading of Droplets on Solid Surfaces. Langmuir, 2005, 21, 12160-12170.	1.6	41
49	Molecular Dynamics Simulations: Insight into Molecular Phenomena at Interfaces. Langmuir, 2014, 30, 11272-11283.	1.6	41
50	Stokes drag and lubrication flows: A molecular dynamics study. Physical Review E, 1996, 53, 4852-4864.	0.8	40
51	Multiscale liquid drop impact on wettable and textured surfaces. Physics of Fluids, 2014, 26, .	1.6	40
52	Microstructure and velocity fluctuations in sheared suspensions. Journal of Fluid Mechanics, 2004, 511, 237-263.	1.4	38
53	A molecular dynamics study of the motion of a nanodroplet of pure liquid on a wetting gradient. Journal of Chemical Physics, 2008, 129, 164708.	1.2	38
54	Dynamical Clustering of Counterions on Flexible Polyelectrolytes. Physical Review Letters, 2008, 100, 128301.	2.9	38

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55	Wetting of hydrophobic substrates by nanodroplets of aqueous trisiloxane and alkyl polyethoxylate surfactant solutions. Chemical Engineering Science, 2009, 64, 4657-4667.	1.9	38
56	Dynamics of growing interfaces. Physical Review Letters, 1992, 69, 3193-3195.	2.9	37
57	Interfacial Roughening Induced by Phase Separation. Physical Review Letters, 1996, 76, 1106-1109.	2.9	35
58	Adsorption Phenomena in the Transport of a Colloidal Particle through a Nanochannel Containing a Partially Wetting Fluid. Physical Review Letters, 2002, 89, 244501.	2.9	35
59	Nanoscale simulations of directional locking. Physics of Fluids, 2010, 22, .	1.6	35
60	Extracting the equation of state of lattice gases from random sequential adsorption simulations by means of the Gibbs adsorption isotherm. Physical Review E, 2017, 96, 052803.	0.8	35
61	Wetting Hysteresis at the Molecular Scale. Physical Review Letters, 1997, 78, 1520-1523.	2.9	34
62	Stokes Drag at the Molecular Level. Physical Review Letters, 1995, 75, 232-235.	2.9	31
63	Adhesion of solids. Physical Review E, 1997, 56, 2626-2634.	0.8	31
64	Molecular dynamics simulation of the equilibrium liquid–vapor interphase with solidification. Fluid Phase Equilibria, 2010, 297, 77-89.	1.4	28
65	The effect of capillary bridging on the Janus particle stability at the interface of two immiscible liquids. Soft Matter, 2013, 9, 4585.	1.2	28
66	Resistance of Random Walks. Physical Review Letters, 1983, 51, 1115-1118.	2.9	26
67	Atomistic hybrid DSMC/NEMD method for nonequilibrium multiscale simulations. Journal of Computational Physics, 2010, 229, 1381-1400.	1.9	26
68	Molecular dynamics of phase separation in narrow channels. Physical Review E, 1993, 47, R2265-R2268.	0.8	25
69	Absence of many-body effects in interactions between charged colloidal particles. Physical Review E, 1999, 59, R1335-R1338.	0.8	25
70	Numerical study of geometrical dispersion in self-affine rough fractures. Physical Review E, 1998, 58, 3334-3346.	0.8	24
71	Shear Flow Pumping in Open Micro- and Nanofluidic Systems. Physical Review Letters, 2007, 98, 224504.	2.9	24
72	Self-propelled colloidal particle near a planar wall: A Brownian dynamics study. Physical Review Fluids, 2018, 3, .	1.0	24

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73	Molecular dynamics (MD) simulation on the collision of a nano-sized particle onto another nano-sized particle adhered on a flat substrate. Journal of Aerosol Science, 2005, 36, 1427-1443.	1.8	22
74	Atomistic simulations of the wetting behavior of nanodroplets of water on homogeneous and phase separated self-assembled monolayers. Soft Matter, 2010, 6, 1297.	1.2	22
75	Diffusivity and hydrodynamic drag of nanoparticles at a vapor-liquid interface. Physical Review Fluids, 2017, 2, .	1.0	21
76	Nanoparticles at liquid interfaces: Rotational dynamics and angular locking. Journal of Chemical Physics, 2014, 140, 014904.	1.2	20
77	Velocity slip on curved surfaces. Physical Review E, 2014, 89, 023005.	0.8	20
78	Dynamical relaxation of the surface tension of miscible phases. Physical Review Letters, 1993, 71, 3465-3468.	2.9	19
79	Liquid-hexatic-solid phase transition of a hard-core lattice gas with third neighbor exclusion. Journal of Chemical Physics, 2019, 151, 104702.	1.2	19
80	Physics of Fluids at Low Reynolds Numbers–A molecular Approach. Computers in Physics, 1998, 12, 424.	0.6	18
81	Molecular Dynamics Simulation of the Motion of Colloidal Nanoparticles in a Solute Concentration Gradient and a Comparison to the Continuum Limit. Physical Review Letters, 2013, 111, 184501.	2.9	18
82	Dynamics of nanoscale droplets. Physical Review E, 2002, 65, 021504.	0.8	16
83	Simple model for deep bed filtration. Physical Review E, 1996, 54, 4011-4020.	0.8	15
84	Depletion forces in hard-sphere colloids. Physical Review E, 1999, 59, R1339-R1342.	0.8	14
85	Micro- and nanoscale fluid flow on chemical channels. Soft Matter, 2012, 8, 9221.	1.2	14
86	Composition waves in confined geometries. Physical Review E, 1993, 48, R2362-R2365.	0.8	13
87	Molecular-dynamics studies of systems of confined dumbbell molecules. Physical Review E, 1995, 51, 441-453.	0.8	13
88	Microscopic motion of particles flowing through a porous medium. Physics of Fluids, 1999, 11, 76-87.	1.6	13
89	Molecular dynamics simulation of liquid bridge extensional flows. Journal of Non-Newtonian Fluid Mechanics, 2003, 109, 51-89.	1.0	13
90	Molecular dynamics study of the translation and rotation of amphiphilic Janus nanoparticles at a vapor-liquid surface. Physical Review Fluids, 2019, 4, .	1.0	12

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91	Multiscale molecular simulations of argon vapor condensation onto a cooled substrate with bulk flow. Physics of Fluids, 2010, 22, .	1.6	11
92	The Translational and Rotational Dynamics of a Colloid Moving Along the Air-Liquid Interface of a Thin Film. Scientific Reports, 2018, 8, 8910.	1.6	10
93	Energy scales and diffraction scattering. Physical Review D, 1975, 12, 785-791.	1.6	9
94	Molecular Simulation of Reentrant Corner Flow. Physical Review Letters, 1997, 78, 2116-2119.	2.9	7
95	Extensional rupture of model non-Newtonian fluid filaments. Physical Review E, 2003, 67, 011502.	0.8	7
96	Surfactant and dilatational viscosity effects on the deformation of liquid droplets in an electric field. Journal of Colloid and Interface Science, 2022, 607, 900-911.	5.0	7
97	Path-integral variational methods for flow through porous media. Physical Review E, 1994, 49, 1353-1366.	0.8	6
98	Tracer dispersion in three-dimensional multipole flows. Physical Review E, 1997, 56, 4244-4258.	0.8	6
99	Suspension flow and sedimentation in self-affine fractures. Physics of Fluids, 2012, 24, 053303.	1.6	6
100	Glassy dynamics and equilibrium state on the honeycomb lattice: Role of surface diffusion and desorption on surface crowding. Physical Review E, 2021, 103, 022801.	0.8	6
101	Adsorption kinetics and thermodynamic properties of a binary mixture of hard-core particles on a square lattice. Journal of Chemical Physics, 2021, 154, 074705.	1.2	6
102	Pairwise hydrodynamic interactions of spherical colloids at a gas-liquid interface. Journal of Fluid Mechanics, 2021, 915, .	1.4	6
103	Steady-state dendritic growth at non-zero capillarity. Scripta Metallurgica, 1984, 18, 463-466.	1.2	5
104	Dynamics of rough surfaces with an arbitrary topology. Physical Review E, 1994, 49, R937-R940.	0.8	5
105	Film deposition and dynamics of a self-propelled wetting droplet on a conical fibre. Journal of Fluid Mechanics, 2021, 907, .	1.4	5
106	Continuum and Molecular Dynamics Studies of the Hydrodynamics of Colloids Straddling a Fluid Interface. Annual Review of Fluid Mechanics, 2022, 54, 495-523.	10.8	5
107	Multiperipheral model of direct muon production. Physical Review D, 1975, 11, 3134-3144.	1.6	4
108	The Tracer Transit-Time Tail in Multipole Reservoir Flows. Transport in Porous Media, 2001, 42, 199-209.	1.2	4

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#	Article	IF	CITATIONS
109	Comment on Positive Regge-Cut Discontinuities. Physical Review D, 1973, 7, 558-560.	1.6	3
110	Simple models of interface growth. Physica D: Nonlinear Phenomena, 1984, 12, 241-244.	1.3	3
111	Koplik and Banavar Reply:. Physical Review Letters, 1999, 82, 1334-1334.	2.9	3
112	Multiperipheral Model of Meson and Baryon Multiplicities. Physical Review D, 1973, 7, 3317-3323.	1.6	2
113	First passage time in a two-layer system. Journal of Statistical Physics, 1995, 79, 895-922.	0.5	2
114	Variational bounds for first-passage-time problems in stratified porous media. Physical Review E, 1995, 52, 2718-2726.	0.8	2
115	Field-Induced Alignment of Flexible Polyelectrolytes in Solution. Physical Review Letters, 2010, 104, 218303.	2.9	2
116	Channeling and stress during fluid and suspension flow in self-affine fractures. Physical Review E, 2014, 89, 023010.	0.8	2
117	Frictional force on sliding drops. Physical Review Fluids, 2019, 4, .	1.0	2
118	MOLECULAR DYNAMICS SIMULATIONS OF NON-NEWTONIAN EXTENSIONAL FLUID FLOWS. International Journal of Modern Physics B, 2003, 17, 27-32.	1.0	1
119	Superdiffusion transport in stratified porous media. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1469-1469.	1.6	0
120	Impurity solvation in a liquid. Journal of Chemical Physics, 1998, 108, 2104-2110.	1.2	0
121	MOLECULAR ASPECTS OF CONTACT-LINE DYNAMICS. , 2002, , 89-103.		0