

# CITATION REPORT

List of articles citing

## Drainage of a Thin Liquid Film Confined between Hydrophobic Surfaces

DOI: 10.1021/la00006a059  
Langmuir, 1995, 11, 2213-2220.

**Source:** <https://exaly.com/paper-pdf/26646821/citation-report.pdf>

**Version:** 2024-04-17

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
499	Wetting Transition on Liquid-Repellent Surfaces Probed by Surface Force Measurements and Confocal Imaging.		
498	Large Effective Slip on Lubricated Surfaces Measured with Colloidal Probe AFM.		
497	Hydrodynamic Interaction of Curved Bodies Allowing Slip on Their Surfaces. <i>Langmuir</i> , <b>1996</b> , 12, 5963-5968		42
496	Effect of gas nuclei on the filtration of fine particles with different surface properties. <b>1996</b> , 113, 67-77		10
495	Flow of a liquid in a nonuniformly hydrophobized capillary. <b>1996</b> , 108, 173-179		19
494	Possible implications of hydrophobic slippage on the dynamic measurements of hydrophobic forces. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, 9491-9495	1.8	7
493	Effect of Salts and Dissolved Gas on Optical Cavitation near Hydrophobic and Hydrophilic Surfaces. <i>Langmuir</i> , <b>1997</b> , 13, 3024-3028	4	76
492	Hydrophobicity, specific ion adsorption and reactivity. <b>1997</b> , 123-124, 7-12		46
491	The Unusual Colloid Stability of Gibbsite at High pH. <b>1998</b> , 203, 115-121		36
490	Interaction of Ionic Species and Fine Solids with a Low Energy Hydrophobic Surface from Contact Angle Measurement. <b>1998</b> , 204, 342-9		24
489	Dynamics of surface waves in wetting films. <b>1998</b> , 142, 287-294		10
488	Implications of Hydrophobic Slippage for the Dynamic Measurements of Hydrophobic Forces. <i>Langmuir</i> , <b>1998</b> , 14, 2827-2837	4	41
487	In-situ detection of butane gas at a hydrophobic silicon surface. <b>1999</b> , 154, 137-147		40
486	Slippage of water over hydrophobic surfaces. <b>1999</b> , 56, 31-60		330
485	Surface forces and dynamic effects in thin liquid films on solid interfaces. <b>1999</b> , 56, 61-74		6
484	The Influence of Interfacial Structuring on Gibbsite Interactions in Synthetic Bayer Liquors. <b>1999</b> , 215, 124-130		23
483	Effects of Hydrophobizing Methods of Surfaces on the Interaction in Aqueous Solutions. <b>1999</b> , 216, 387-393		65

482	Friction and the Continuum Limit - Where is the Boundary?. <b>2000</b> , 651, 1		1
481	Analysis of plastic deformation in atomic force microscopy: Application to ice. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 1194-1203	3.9	35
480	Hydrodynamic slippage inferred from thin film drainage measurements in a solution of nonadsorbing polymer. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 6424-6433	3.9	92
479	Nano Bubbles on a Hydrophobic Surface in Water Observed by Tapping-Mode Atomic Force Microscopy. <i>Langmuir</i> , <b>2000</b> , 16, 6377-6380	4	546
478	Attraction between Hydrophobic Surfaces with and without Gas Phase. <i>Langmuir</i> , <b>2000</b> , 16, 5681-5687	4	178
477	Rate-dependent slip of Newtonian liquid at smooth surfaces. <b>2001</b> , 87, 096105		468
476	Apparatus-specific analysis of fluid adhesion measurements. <b>2001</b> , 89, 4167-4174		73
475	Softened hydrophobic attraction between macroscopic surfaces in relative motion. <b>2001</b> , 123, 6736-7		27
474	Experimental Evidence for a Large Slip Effect at a Nonwetting Fluid-Solid Interface. <i>Langmuir</i> , <b>2001</b> , 17, 5232-5236	4	229
473	Attractive Forces between Surfaces: What Can and Cannot Be Learned from a Jump-In Study with the Surface Forces Apparatus?. <i>Langmuir</i> , <b>2001</b> , 17, 1604-1607	4	17
472	Forces between polystyrene surfaces in water-electrolyte solutions: Long-range attraction of two types?. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 8124-8131	3.9	65
471	Shear-dependent boundary slip in an aqueous Newtonian liquid. <b>2001</b> , 87, 054504		382
470	Confined liquid: Simultaneous observation of a molecularly layered structure and hydrodynamic slip. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 10311-10314	3.9	51
469	Thin-Film Hydrodynamics in Fluid Interface-Atomic Force Microscopy. <b>2002</b> , 41, 389-396		39
468	Apparent Slip of Newtonian Fluids Past Adsorbed Polymer Layers. <b>2002</b> , 35, 4658-4663		50
467	Viscosity of ultra-thin water films confined between hydrophobic or hydrophilic surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 9275-9283	1.8	49
466	Interaction of Elastic Bodies via Surface Forces. 1. Power-Law Attraction. <i>Langmuir</i> , <b>2002</b> , 18, 5126-5132	4	7
465	Origin of Long-Range Attractive Force between Surfaces Hydrophobized by Surfactant Adsorption. <i>Langmuir</i> , <b>2002</b> , 18, 5713-5719	4	82

464	No-Slip Boundary Condition Switches to Partial Slip When Fluid Contains Surfactant. <i>Langmuir</i> , <b>2002</b> , 18, 10058-10063	4	95
463	Limits of the hydrodynamic no-slip boundary condition. <b>2002</b> , 88, 106102		444
462	Hydrodynamic force measurements: boundary slip of water on hydrophilic surfaces and electrokinetic effects. <b>2002</b> , 88, 076103		237
461	A theoretical model for quiescent coarsening in immiscible polymer blends. <b>2002</b> , 48, 2620-2628		6
460	Wetting film stability and flotation kinetics. <i>Advances in Colloid and Interface Science</i> , <b>2002</b> , 95, 145-236	14.3	95
459	Evidence of shear-dependent boundary slip in Newtonian liquids. <b>2003</b> , 12 Suppl 1, S71-4		80
458	Interaction of elastic bodies via surface forces. 2. Exponential decay. <b>2003</b> , 268, 464-75		4
457	Effect of surface mobility on the particle sliding along a bubble or a solid sphere. <b>2003</b> , 259, 81-8		17
456	Surface roughness and effective stick-slip motion. <i>Physical Review E</i> , <b>2003</b> , 67, 026302	2.4	42
455	Equation for Slip of Simple Liquids at Smooth Solid Surfaces. <i>Langmuir</i> , <b>2003</b> , 19, 5065-5071	4	126
454	Surface roughness and hydrodynamic boundary slip of a newtonian fluid in a completely wetting system. <b>2003</b> , 90, 144501		244
453	Hydrophobic Surfaces Probed by Atomic Force Microscopy. <i>Langmuir</i> , <b>2003</b> , 19, 5357-5365	4	17
452	Dynamic Effects on Force Measurements. 2. Lubrication and the Atomic Force Microscope. <i>Langmuir</i> , <b>2003</b> , 19, 1227-1234	4	161
451	Boundary slip as a result of a prewetting transition. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 13106-13112	3.9	58
450	Instability and dynamics of thin slipping films. <b>2003</b> , 83, 3549-3551		32
449	Lattice study of a Janus interface. <i>Physical Review E</i> , <b>2003</b> , 68, 061601	2.4	7
448	Flow profile near a wall measured by double-focus fluorescence cross-correlation. <i>Physical Review E</i> , <b>2003</b> , 67, 056313	2.4	68
447	Slip at the wall—evidence and tribological implications. <b>2003</b> , 525-535		5

446	Dynamic mechanisms for apparent slip on hydrophobic surfaces. <i>Physical Review E</i> , <b>2004</b> , 70, 026311	2.4	102
445	Squeeze-out and wear: fundamental principles and applications. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, R295-R355	1.8	71
444	Fluidity of water confined down to subnanometer films. <i>Langmuir</i> , <b>2004</b> , 20, 5322-32	4	100
443	Effects of laterally heterogeneous slip on the resonance properties of quartz crystals immersed in liquids. <i>Langmuir</i> , <b>2004</b> , 20, 10617-24	4	49
442	Instability, dynamics, and morphology of thin slipping films. <i>Langmuir</i> , <b>2004</b> , 20, 244-53	4	65
441	Dipole-dependent slip of Newtonian liquids at smooth solid hydrophobic surfaces. <b>2004</b> , 92, 166102		78
440	The Implication of "Jump-In" for the Shear Viscosity of Ultra Thin Liquid Films. <b>2004</b> , 131-138		1
439	On the boundary slip of fluid flow. <b>2005</b> , 48, 178		13
438	Electrocoalescence for Oil/Water Separation. <b>2005</b> , 549-592		2
437	An induction time model for the attachment of an air bubble to a hydrophobic sphere in aqueous solutions. <b>2005</b> , 75, 69-82		27
436	Forces acting on water droplets falling in oil under the influence of an electric field: numerical predictions versus experimental observations. <b>2005</b> , 24, 717-732		56
435	Force measurements with the atomic force microscope: Technique, interpretation and applications. <b>2005</b> , 59, 1-152		2599
434	Brownian motion near a partial-slip boundary: A local probe of the no-slip condition. <i>Physics of Fluids</i> , <b>2005</b> , 17, 103102	4.4	73
433	Hydrodynamic resistance of close-approached slip surfaces with a nanoasperity or an entrapped nanobubble. <i>Physical Review E</i> , <b>2005</b> , 72, 066306	2.4	17
432	Polymer depletion-induced slip near an interface. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, L9-L14	1.8	37
431	Dilatant flow of concentrated suspensions of rough particles. <b>2005</b> , 95, 268302		143
430	Water molecule clusters measured at water/air interfaces using atomic force microscopy. <b>2005</b> , 7, 3856-65		30
429	Effects of dissolved gas on the hydrophobic attraction between surfactant-coated surfaces. <i>Langmuir</i> , <b>2005</b> , 21, 256-9	4	91

428	The "Wimple": rippled deformation of a fluid drop caused by hydrodynamic and surface forces during thin film drainage. <i>Langmuir</i> , <b>2005</b> , 21, 8243-9	4	38
427	Boundary slip on smooth hydrophobic surfaces: intrinsic effects and possible artifacts. <b>2005</b> , 94, 056102		335
426	Microfluidics: Fluid physics at the nanoliter scale. <b>2005</b> , 77, 977-1026		3112
425	The drag on a microcantilever oscillating near a wall. <i>Journal of Fluid Mechanics</i> , <b>2005</b> , 545, 397	3.7	46
424	Boundary slip in Newtonian liquids: a review of experimental studies. <b>2005</b> , 68, 2859-2897		797
423	Measurement of the long- and short-range hydrophobic attraction between surfactant-coated surfaces. <i>Langmuir</i> , <b>2005</b> , 21, 251-5	4	57
422	Flow around nanospheres and nanocylinders. <b>2006</b> , 59, 191-210		33
421	Surface roughness and hydrodynamic boundary conditions. <i>Physical Review E</i> , <b>2006</b> , 73, 045302	2.4	102
420	Oscillatory dissipation of a simple confined liquid. <b>2006</b> , 96, 086105		68
419	Effective slip and friction reduction in nanogated superhydrophobic microchannels. <i>Physics of Fluids</i> , <b>2006</b> , 18, 087105	4.4	338
418	Large slip of aqueous liquid flow over a nanoengineered superhydrophobic surface. <b>2006</b> , 96, 066001		563
417	Condition aux limites hydrodynamique : Une investigation à l'échelle. <b>2006</b> , 92, 14-18		
416	Contact fluid interfacial slippage in hydrodynamic lubricated contacts. <b>2006</b> , 128, 99-104		7
415	Quasi-static and hydrodynamic interaction between solid surfaces in polyisoprene studied by atomic force microscopy. <i>Polymer</i> , <b>2006</b> , 47, 7259-7270	3.9	14
414	Investigation of the role of viscosity on electrocoalescence of water droplets in oil. <b>2006</b> , 50, 267-277		44
413	Squeeze fluid film of spherical hydrophobic surfaces with wall slip. <i>Tribology International</i> , <b>2006</b> , 39, 863-872		7
412	Lattice Boltzmann simulations of apparent slip in hydrophobic microchannels. <b>2006</b> , 75, 328-334		67
411	Squeeze film flow with nonlinear boundary slip. <b>2006</b> , 27, 1289-1294		

410	Simulation of turbulent electrocoalescence. <b>2006</b> , 61, 4540-4549		18
409	Interaction forces between chemically modified hydrophobic surfaces evaluated by AFM. The role of nanoscopic bubbles in the interactions. <b>2006</b> , 19, 719-725		44
408	Boundary flow of water on supported phospholipid films. <b>2006</b> , 73, 390-395		36
407	Hydrodynamic lubrication in nanoscale bearings under high shear velocity. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 084702	3.9	3
406	Boundary slip and wetting properties of interfaces: correlation of the contact angle with the slip length. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 204701	3.9	111
405	Nonconstant piezo velocity in highly dynamic atomic force spectroscopy. <b>2006</b> , 77, 116107		3
404	Large Slip Length over a Nanopatterned Surface. <b>2007</b> , 24, 1021-1024		20
403	Measurement of Newtonian fluid slip using a torsional ultrasonic oscillator. <i>Physical Review E</i> , <b>2007</b> , 76, 066306	2.4	16
402	Influence of nanobubbles on the adsorption of nanoparticles. <i>Langmuir</i> , <b>2007</b> , 23, 1623-5	4	32
401	Roughness induced boundary slip in microchannel flows. <b>2007</b> , 99, 176001		77
400	Microfluidics: The No-Slip Boundary Condition. <b>2007</b> , 1219-1240		200
399	Achieving large slip with superhydrophobic surfaces: Scaling laws for generic geometries. <i>Physics of Fluids</i> , <b>2007</b> , 19, 123601	4.4	338
398	Analysis of the gas states at a liquid/solid interface based on interactions at the microscopic level. <b>2007</b> , 111, 9325-9		13
397	Direct measurement of depletion and hydrodynamic forces in solutions of a reversible supramolecular polymer. <i>Langmuir</i> , <b>2007</b> , 23, 6095-105	4	24
396	Impact of atomic force microscopy on interface and colloid science. <i>Advances in Colloid and Interface Science</i> , <b>2007</b> , 133, 91-104	14.3	67
395	High friction on a bubble mattress. <b>2007</b> , 6, 665-8		240
394	Nonlinear boundary slip of fluid flowing over solid surface. <b>2007</b> , 14, 30-33		7
393	Emulsions stability, from dilute to dense emulsions -- role of drops deformation. <i>Advances in Colloid and Interface Science</i> , <b>2008</b> , 140, 1-65	14.3	39

392	Two-Phase Flow in Porous Media with Slip Boundary Condition. <b>2008</b> , 74, 275-292		38
391	Long lifetime of nanobubbles due to high inner density. <b>2008</b> , 51, 219-224		36
390	Measurement of sliding velocity and induction time of a single micro-bubble under an inclined collector surface. <b>2008</b> , 86, 1001-1010		15
389	Zeta potential and electroosmotic mobility in microfluidic devices fabricated from hydrophobic polymers: 2. Slip and interfacial water structure. <b>2008</b> , 29, 1102-14		70
388	Nanoscale slip measurements using a torsional ultrasonic oscillator. <b>2008</b> , 8, 433-435		1
387	Water slippage versus contact angle: a quasiuniversal relationship. <b>2008</b> , 101, 226101		314
386	Nanohydrodynamics: the intrinsic flow boundary condition on smooth surfaces. <i>Langmuir</i> , <b>2008</b> , 24, 11654-72		86
385	Review of Fluid Slip over Superhydrophobic Surfaces and Its Dependence on the Contact Angle. <b>2008</b> , 47, 2455-2477		219
384	Using surface force apparatus, diffusion and velocimetry to measure slip lengths. <b>2008</b> , 366, 1455-68		17
383	Singularity method for Stokes flow with slip boundary condition. <b>2008</b> , 73, 724-739		1
382	Simulation of fluid flow in hydrophobic rough microchannels. <b>2008</b> , 22, 475-480		31
381	Squeeze Film Lubrication in Silicone Oil: Experimental Test of the No-Slip Boundary Condition at Solid-Liquid Interfaces. <b>2008</b> , 112, 17324-17330		31
380	Nanorheology and boundary slip in confined liquids using atomic force microscopy. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 315201	1.8	36
379	Electrokinetic flows over inhomogeneously slipping surfaces. <i>Physics of Fluids</i> , <b>2008</b> , 20, 092105	4.4	90
378	Slip and depletion in a Newtonian liquid. <b>2008</b> , 82, 36001		13
377	Flow cell for grazing incidence neutron scattering. <b>2008</b> , 19, 034016		9
376	Measurement of the slip length of water flow on graphite surface. <b>2008</b> , 92, 053101		70
375	Slip-length measurement of confined air flow using dynamic atomic force microscopy. <i>Physical Review E</i> , <b>2008</b> , 78, 027302	2.4	34



374	Velocity profiles of water flowing past solid glass surfaces using fluorescent nanoparticles and molecules as velocity probes. <b>2008</b> , 100, 214502		46
373	Nanoscale flow on a bubble mattress: effect of surface elasticity. <b>2008</b> , 100, 134501		39
372	Tensorial hydrodynamic slip. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 613, 125-134	3.7	140
371	Nanofluidics and the Navier boundary condition. <b>2008</b> , 5, 218		13
370	Equilibrium calculations of viscosity and thermal conductivity across a solid-liquid interface using boundary fluctuations. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 194710	3.9	9
369	Performance of hydrodynamic lubrication journal bearing with a slippage surface. <b>2008</b> , 60, 293-298		20
368	Shear rate threshold for the boundary slip in dense polymer films. <i>Physical Review E</i> , <b>2009</b> , 80, 031608	2.4	34
367	Viscous cavity damping of a microlever in a simple fluid. <b>2009</b> , 102, 254503		15
366	Atomic force microscopy measurement of boundary slip on hydrophilic, hydrophobic, and superhydrophobic surfaces. <b>2009</b> , 27, 754-760		49
365	Direct measurements of hydrophobic slippage using double-focus fluorescence cross-correlation. <b>2009</b> , 102, 118302		97
364	An atomistic-continuum hybrid simulation of fluid flows over superhydrophobic surfaces. <b>2009</b> , 3, 22409		11
363	Fine calibration of the residual dissipation in a surface forces apparatus using a capacitive sensor. <b>2009</b> , 80, 085103		2
362	Laminar Drag Reduction in Hydrophobic Microchannels. <b>2009</b> , 32, 912-918		26
361	Numerical simulation of electroosmotic flow in hydrophobic microchannels. <b>2009</b> , 52, 2460-2465		5
360	The Stribeck curve and lubrication design for non-fully wetted surfaces. <b>2009</b> , 267, 1232-1240		95
359	Evidence of the no-slip boundary condition of water flow between hydrophilic surfaces using atomic force microscopy. <i>Langmuir</i> , <b>2009</b> , 25, 12002-5	4	16
358	Effective slip over superhydrophobic surfaces in thin channels. <b>2009</b> , 102, 026001		121
357	Properties of water at hydrophobic surfaces and their impact on wedging pressure. <b>2009</b> , 31, 1-9		2

356	Superhydrophobic copper tubes with possible flow enhancement and drag reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1316-23	9.5	186
355	Spatial dependence of viscosity and thermal conductivity through a planar interface. <b>2009</b> , 113, 2059-65		15
354	Interfacial water at hydrophobic and hydrophilic surfaces: slip, viscosity, and diffusion. <i>Langmuir</i> , <b>2009</b> , 25, 10768-81	4	354
353	Viscous boundary lubrication of hydrophobic surfaces by mucin. <i>Langmuir</i> , <b>2009</b> , 25, 2313-21	4	107
352	Nanoscale multiple gaseous layers on a hydrophobic surface. <i>Langmuir</i> , <b>2009</b> , 25, 8860-4	4	67
351	Viscosity-dependent liquid slip at molecularly smooth hydrophobic surfaces. <i>Physical Review E</i> , <b>2009</b> , 80, 060601	2.4	22
350	A brief introduction to slippage, droplets and mixing in microfluidic systems. <b>2009</b> , 9, 2428-36		57
349	Silica nano-particle super-hydrophobic surfaces: the effects of surface morphology and trapped air pockets on hydrodynamic drainage forces. <b>2009</b> , 143, 151-68; discussion 169-86		13
348	Effective slip lengths for flows over surfaces with nanobubbles: the effects of finite slip. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 144202	1.8	8
347	Experimental Research on Boundary Slip of Confined Liquids at Micro/Nano Scale and Effect of Shear Rate and Viscosity. <b>2009</b> , 542-543		
346	Molecular momentum transport at fluid-solid interfaces in MEMS/NEMS: a review. <b>2009</b> , 10, 4638-706		216
345	Study of a nanoscale water cluster by atomic force microscopy. <b>2009</b> , 141, 415-21; discussion 443-65		32
344	Probing biolubrication with a nanoscale flow. <i>Soft Matter</i> , <b>2009</b> , 5, 4997	3.6	12
343	Measurement of no-slip and slip boundary conditions in confined Newtonian fluids using atomic force microscopy. <b>2009</b> , 11, 9514-21		31
342	Boundary slip study on hydrophilic, hydrophobic, and superhydrophobic surfaces with dynamic atomic force microscopy. <i>Langmuir</i> , <b>2009</b> , 25, 8117-21	4	62
341	Electrolytically generated nanobubbles on highly orientated pyrolytic graphite surfaces. <i>Langmuir</i> , <b>2009</b> , 25, 1466-74	4	100
340	Hydrodynamic drainage force in a highly confined geometry: role of surface roughness on different length scales. <b>2010</b> , 8, 653-663		39
339	Lattice Boltzmann simulations in microfluidics: probing the no-slip boundary condition in hydrophobic, rough, and surface nanobubble laden microchannels. <b>2010</b> , 8, 1		48

338	Molecularly Thin Films. 466-510		
337	Anisotropic electro-osmotic flow over super-hydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 644, 245-255	3-7	88
336	Dynamical superhydrophobicity. <b>2010</b> , 146, 19-33; discussion 79-101, 395-401		123
335	Giant slip lengths of a simple fluid at vibrating solid interfaces. <i>Physical Review E</i> , <b>2010</b> , 81, 046315	2.4	5
334	Improved in situ spring constant calibration for colloidal probe atomic force microscopy. <b>2010</b> , 81, 113703		9
333	Random-roughness hydrodynamic boundary conditions. <b>2010</b> , 105, 016001		51
332	CASIMIR FORCE EXPERIMENTS IN AIR: TWO BIRDS WITH ONE STONE. <b>2010</b> , 25, 2231-2239		6
331	Progressive Waves in Real Fluids Over a Rigid Permeable Bottom. <b>2010</b> , 52, 17-42		8
330	Intrinsic slip on hydrophobic self-assembled monolayer coatings. <i>Physics of Fluids</i> , <b>2010</b> , 22, 042003	4.4	29
329	Investigating slippage, droplet breakup, and synthesizing microcapsules in microfluidic systemsa). <i>Physics of Fluids</i> , <b>2010</b> , 22, 021302	4.4	21
328	Dynamic response of AFM cantilevers to dissimilar functionalized silica surfaces in aqueous electrolyte solutions. <i>Langmuir</i> , <b>2010</b> , 26, 16963-72	4	16
327	Nanofluidics, from bulk to interfaces. <b>2010</b> , 39, 1073-95		863
326	Transverse flow in thin superhydrophobic channels. <i>Physical Review E</i> , <b>2010</b> , 82, 055301	2.4	34
325	Effective slip in pressure-driven flow past super-hydrophobic stripes. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 652, 489-499	3-7	119
324	Electro-osmotic flow over a charged superhydrophobic surface. <i>Physical Review E</i> , <b>2010</b> , 81, 066314	2.4	23
323	The effect of counterions on surfactant-hydrophobized surfaces. <b>2010</b> , 146, 309-24; discussion 367-93, 395-401		14
322	Boundary slip and nanobubble study in micro/nanofluidics using atomic force microscopy. <i>Soft Matter</i> , <b>2010</b> , 6, 29-66	3.6	123
321	Thinning of a vertical free-draining aqueous film incorporating colloidal particles. <i>Langmuir</i> , <b>2010</b> , 26, 63-73	4	24

320	Hydrodynamic interaction with super-hydrophobic surfaces. <i>Soft Matter</i> , <b>2010</b> , 6, 4563	3.6	26
319	Slip boundary conditions based on molecular kinetic theory: The critical shear stress and the energy dissipation at the liquid-solid interface. <i>Soft Matter</i> , <b>2011</b> , 7, 8628	3.6	65
318	Very small bubbles at surfaces—the nanobubble puzzle. <i>Soft Matter</i> , <b>2011</b> , 7, 40-48	3.6	207
317	Reliable measurements of interfacial slip by colloid probe atomic force microscopy. I. Mathematical modeling. <i>Langmuir</i> , <b>2011</b> , 27, 6701-11	4	18
316	No-Slip Boundary Condition for Weak Solid-Liquid Interactions. <b>2011</b> , 115, 8613-8621		15
315	Contact angles of surface nanobubbles on mixed self-assembled monolayers with systematically varied macroscopic wettability by atomic force microscopy. <i>Langmuir</i> , <b>2011</b> , 27, 8223-32	4	70
314	Reliable measurements of interfacial slip by colloid probe atomic force microscopy. II. Hydrodynamic force measurements. <i>Langmuir</i> , <b>2011</b> , 27, 6712-9	4	40
313	Studying flow close to an interface by total internal reflection fluorescence cross-correlation spectroscopy: quantitative data analysis. <i>Physical Review E</i> , <b>2011</b> , 84, 066306	2.4	11
312	Wetting Film Dynamics and Stability. <b>2011</b> , 151-172		1
311	Removal of nanoparticles from plain and patterned surfaces using nanobubbles. <i>Langmuir</i> , <b>2011</b> , 27, 11430-5	4	49
310	Application of colloid probe atomic force microscopy to the adhesion of thin films of viscous and viscoelastic silicone fluids. <i>Langmuir</i> , <b>2011</b> , 27, 11489-500	4	10
309	Interfacial Forces and Spectroscopic Study of Confined Fluids. <b>2011</b> , 203-242		
308	A falling film down a slippery inclined plane. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 684, 353-383	3.7	67
307	Sliding velocity dependency of the friction coefficient of Si-containing diamond-like carbon film under oil lubricated condition. <i>Tribology International</i> , <b>2011</b> , 44, 1296-1303	4.9	19
306	Wetting, roughness and flow boundary conditions. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 184104.8	4.8	105
305	Film drainage and coalescence between deformable drops and bubbles. <i>Soft Matter</i> , <b>2011</b> , 7, 2235-2264	3.6	278
304	Modeling Bearing and Shear Forces in Molecularly Thin Lubricants. <b>2011</b> , 41, 573-586		14
303	Theory of non-equilibrium force measurements involving deformable drops and bubbles. <i>Advances in Colloid and Interface Science</i> , <b>2011</b> , 165, 70-90	14.3	94

302	Hydrodynamic permeability of aggregates of porous particles with an impermeable core. <i>Advances in Colloid and Interface Science</i> , <b>2011</b> , 164, 21-37	14.3	53
301	Influence of surface wettability on the accuracy of measurement of fluid shear modulus. <b>2011</b> , 383, 90-94		15
300	Nanoscale discontinuities at the boundary of flowing liquids: a look into structure. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 184102	1.8	2
299	Gas flow near a smooth plate. <i>Physical Review E</i> , <b>2011</b> , 83, 056328	2.4	10
298	Prediction of fluid velocity slip at solid surfaces. <i>Physical Review E</i> , <b>2011</b> , 84, 016313	2.4	76
297	Large variation in the boundary-condition slippage for a rarefied gas flowing between two surfaces. <b>2011</b> , 107, 164501		11
296	Simulations of slip flow on nanobubble-laden surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 184106	1.8	29
295	Drag force on a sphere moving toward an anisotropic superhydrophobic plane. <i>Physical Review E</i> , <b>2011</b> , 84, 026330	2.4	29
294	Porous superhydrophobic membranes: hydrodynamic anomaly in oscillating flows. <b>2011</b> , 107, 174501		3
293	Theory and simulations of water flow through carbon nanotubes: prospects and pitfalls. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 184110	1.8	26
292	Streaming potential generated by a pressure-driven flow over superhydrophobic stripes. <i>Physics of Fluids</i> , <b>2011</b> , 23, 022003	4.4	28
291	Depletion at solid/liquid interfaces: flowing hexadecane on functionalized surfaces. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 064711	3.9	18
290	Mechanical properties of the nanoscale molecular cluster of water meniscus by high-precision frequency modulation atomic force spectroscopy. <b>2012</b> , 101, 053114		20
289	Interpreting atomic force microscopy measurements of hydrodynamic and surface forces with nonlinear parametric estimation. <b>2012</b> , 83, 103702		6
288	Consistent description of electrohydrodynamics in narrow fluidic confinements in the presence of hydrophobic interactions. <i>Physical Review E</i> , <b>2012</b> , 85, 046305	2.4	11
287	Measurement of slip length on superhydrophobic surfaces. <b>2012</b> , 370, 2304-20		57
286	Detection of Pathogens in Water Using Micro and Nano-Technology. <b>2012</b> ,		4
285	Hydrophobic attraction between silanated silica surfaces in the absence of bridging bubbles. <i>Langmuir</i> , <b>2012</b> , 28, 13952-9	4	45

284	Measurement and scaling of hydrodynamic interactions in the presence of draining channels. <i>Langmuir</i> , <b>2012</b> , 28, 14703-12	4	36
283	Effect of surfactant on retention behaviors of polystyrene latex particles in sedimentation field-flow fractionation: effective boundary slip model approach. <i>Langmuir</i> , <b>2012</b> , 28, 10672-81	4	9
282	Reliable measurements of interfacial slip by colloid probe atomic force microscopy. III. Shear-rate-dependent slip. <i>Langmuir</i> , <b>2012</b> , 28, 3465-73	4	23
281	Crossover from hydrodynamics to the kinetic regime in confined nanoflows. <b>2012</b> , 108, 084501		23
280	Reconciling slip measurements in symmetric and asymmetric systems. <i>Langmuir</i> , <b>2012</b> , 28, 7768-74	4	19
279	Superhydrophobic Textures for Microfluidics. <b>2012</b> , 22, 229-236		98
278	Hydrodynamics in nanoscale confinement: SFA and colloid probe AFM liquid drainage experiments. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 392, 012009	0.3	3
277	Slip Factor and Slip Velocity on a Permeable Bed. <b>2012</b> , 280, 360-368		4
276	The Microcantilever: A Versatile Tool for Measuring the Rheological Properties of Complex Fluids. <b>2012</b> , 2012, 1-9		34
275	Hydromagnetic rotating flow in a porous medium with slip condition and Hall current. <b>2012</b> , 7,		12
274	A fundamental study on the role of collector in the kinetics of bubble-particle interaction. <b>2012</b> , 106-109, 37-41		30
273	Stability of a Liquid Film on a Surface with Periodic Array of Gas-filled Grooves. <b>2012</b> , 24, 33-37		8
272	The drainage of non-Newtonian fluids in the quasi-steady motion of a sphere towards a plane. <b>2012</b> , 12, 639-648		1
271	A tilted pad thrust slider bearing improved by the boundary slippage. <b>2013</b> , 48, 769-781		10
270	Flow of Water Adjacent to Smooth Hydrophobic Solids. <b>2013</b> , 117, 14007-14013		10
269	Effective slippage on superhydrophobic trapezoidal grooves. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 174708	3.9	12
268	In Situ control of gas flow by modification of gas-solid interactions. <b>2013</b> , 111, 174502		19
267	Understanding the stability of surface nanobubbles. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 184003		23

266	Boundary slip of superoleophilic, oleophobic, and superoleophobic surfaces immersed in deionized water, hexadecane, and ethylene glycol. <i>Langmuir</i> , <b>2013</b> , 29, 14691-700	4	17
265	Dissipation of Film Drainage Resistance by Hydrophobic Surfaces in Aqueous Solutions. <b>2013</b> , 117, 8799-8805		17
264	Flow in channels with superhydrophobic trapezoidal textures. <i>Soft Matter</i> , <b>2013</b> , 9, 11671	3.6	16
263	The Effect of Wetting and Surface Energy on the Friction and Slip in Oil-Lubricated Contacts. <b>2013</b> , 52, 185-194		69
262	Hydraulic and mechanical properties of wax-coated sands. <b>2013</b> , 20, 3667-3675		2
261	Drastic changes in interfacial hydrodynamics due to wall slippage: slip-intensified film thinning, drop spreading, and capillary instability. <b>2013</b> , 111, 136001		18
260	Influence of Polystyrene (PS) solution concentration on the formation of nanobubbles. <b>2013</b> ,		
259	Quantification of surface charge density and its effect on boundary slip. <i>Langmuir</i> , <b>2013</b> , 29, 6953-63	4	31
258	Role of surface charge on boundary slip in fluid flow. <b>2013</b> , 392, 117-121		32
257	Effect of boundary slip and surface charge on the pressure-driven flow. <b>2013</b> , 392, 15-26		19
256	AFM characterization of nanobubble formation and slip condition in oxygenated and electrokinetically altered fluids. <b>2013</b> , 392, 105-116		32
255	Compensation of stray capacitance of the quartz tuning fork for a quantitative force spectroscopy. <b>2013</b> , 13, 1899-1905		8
254	Study of fluid and transport properties of porous anodic aluminum membranes by dynamic atomic force microscopy. <i>Langmuir</i> , <b>2013</b> , 29, 8969-77	4	6
253	The correlation between the surface energy, the contact angle and the spreading parameter, and their relevance for the wetting behaviour of DLC with lubricating oils. <i>Tribology International</i> , <b>2013</b> , 66, 225-233	4.9	103
252	Slip length measurement of confined air flow on three smooth surfaces. <i>Langmuir</i> , <b>2013</b> , 29, 4298-302	4	4
251	Effective slip-length tensor for a flow over weakly slipping stripes. <i>Physical Review E</i> , <b>2013</b> , 88, 023004	2.4	24
250	Nanobubbles and their role in slip and drag. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 184003	1.8	16
249	Beyond the continuum: how molecular solvent structure affects electrostatics and hydrodynamics at solid-electrolyte interfaces. <b>2013</b> , 117, 11397-413		95

248	Gas Flows near Solids Coated with Thin Water Films. <b>2013</b> , 117, 6235-6244		7
247	Laboratory Measurement of Seabed Shear Stress and the Slip Factor over a Porous Seabed. <b>2013</b> , 139, 1372-1386		3
246	Fabrication of NiO Nanorings by Bubble-Bursting Bubbles as Templates. <b>2013</b> , 464, 54-57		
245	Combined neutron reflectometry and rheology. <b>2013</b> , 46, 1729-1733		19
244	Imaging interfacial micro- and nano-bubbles by scanning transmission soft X-ray microscopy. <b>2013</b> , 20, 413-8		51
243	Hydrodynamic force measurements under precisely controlled conditions: Correlation of slip parameters with the mean free path. <i>Physics of Fluids</i> , <b>2013</b> , 25, 042103	4.4	8
242	Effective hydrodynamic boundary conditions for microtextured surfaces. <i>Physical Review E</i> , <b>2013</b> , 87, 011002	2.4	21
241	An improved method for measuring boundary slip on hydrophobic surface with atomic force microscope. <b>2013</b> ,		
240	Flow past superhydrophobic surfaces with cosine variation in local slip length. <i>Physical Review E</i> , <b>2013</b> , 87, 023005	2.4	23
239	The study of surface wetting, nanobubbles and boundary slip with an applied voltage: A review. <b>2014</b> , 5, 1042-65		37
238	Formulation of the tangential velocity slip problem in terms of variational inequalities. <b>2014</b> , 228, 1122-1135		4
237	Slip Length Measurement of Water Flow on Graphite Surface Using Atomic Force Microscope. <b>2014</b> , 941-944, 1581-1584		3
236	Lattice-Boltzmann simulations of the drag force on a sphere approaching a superhydrophobic striped plane. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 034707	3.9	11
235	Casimir and hydrodynamic force influence on microelectromechanical system actuation in ambient conditions. <b>2014</b> , 104, 074108		7
234	Breakdown of the Bretherton law due to wall slippage. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 741, 200-227	3.7	8
233	Mobility tensor of a sphere moving on a superhydrophobic wall: application to particle separation. <b>2014</b> , 16, 571-585		17
232	Hydrodynamic lubrication in line contacts improved by the boundary slippage. <b>2014</b> , 49, 503-519		4
231	The wetting of steel, DLC coatings, ceramics and polymers with oils and water: The importance and correlations of surface energy, surface tension, contact angle and spreading. <b>2014</b> , 293, 97-108		138



230	Gas cushion model and hydrodynamic boundary conditions for superhydrophobic textures. <i>Physical Review E</i> , <b>2014</b> , 90, 043017	2.4	37
229	Influence of the enclosed fluid on the flow over a microstructured surface in the Cassie state. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 740, 168-195	3-7	73
228	The hydrophobic force: measurements and methods. <b>2014</b> , 16, 18065-75		67
227	Analysis of slumping on nanoimprint patterning with pseudoplastic metal nanoparticle fluid. <b>2014</b> , 4, 30402-30411		3
226	Drainage of a thin liquid film between hydrophobic spheres: boundary curvature effects. <i>Langmuir</i> , <b>2014</b> , 30, 83-9	4	2
225	Investigation of the drag reducing effect of hydrophobized sand on cylinders. <b>2014</b> , 47, 205302		14
224	Distributed flotation kinetics models A new implementation approach for coal flotation. <b>2014</b> , 66-68, 77-83		19
223	Molecular kinetic theory of boundary slip on textured surfaces by molecular dynamics simulations. <b>2014</b> , 57, 2152-2160		8
222	Control of Gas Flow in Narrow Channels Using an Electric Field To Modify the Flow Boundary Condition. <b>2014</b> , 118, 7480-7488		4
221	Adhesion-Regulated Switchable Fluid Slippage on Superhydrophobic Surfaces. <b>2014</b> , 118, 2564-2569		47
220	Design of Slip Boundary Produced by a Lotus Structure Applied to a Hydrostatic Bearing. <b>2014</b> , 55, 55-64		4
219	Effect of Gas Species on Gas Monolayer Interactions: Tangential Momentum Accommodation. <b>2014</b> , 118, 20275-20282		10
218	Switching fluid slippage on pH-responsive superhydrophobic surfaces. <i>Langmuir</i> , <b>2014</b> , 30, 6463-8	4	18
217	Slip flow of diverse liquids on robust superomniphobic surfaces. <b>2014</b> , 414, 9-13		23
216	Interfacial slip on rough, patterned and soft surfaces: a review of experiments and simulations. <i>Advances in Colloid and Interface Science</i> , <b>2014</b> , 210, 21-38	14-3	100
215	Wetting Film Dynamics and Stability. <b>2014</b> , 151-172		
214	Flexible conformable hydrophobized surfaces for turbulent flow drag reduction. <b>2015</b> , 5, 10267		37
213	Investigation of Surface Forces in Highly Viscous Polymer Solutions by Colloidal Probe AFM Method. <b>2015</b> , 52, 188-195		

212	Flows and mixing in channels with misaligned superhydrophobic walls. <i>Physical Review E</i> , <b>2015</b> , 91, 0330204	20
211	Motion of a spherical particle in a viscous fluid along a slip wall. <b>2015</b> , 68, 115-144	10
210	Effect of Boundary Slippage on Foul Release. <b>2015</b> , 151-175	
209	Effects of velocity slip on the inertialess instability of a contaminated two-layer film flow. <b>2015</b> , 226, 3111-3132	9
208	Atomic Force Microscopy Measurement of Slip on Smooth Hydrophobic Surfaces and Possible Artifacts. <b>2015</b> , 119, 12531-12537	12
207	In situ viscosity measurement of confined liquids. <b>2015</b> , 5, 99585-99593	22
206	Effect of the Slide-to-Roll Ratio and the Contact Kinematics on the Elastohydrodynamic Friction in Diamond-Like-Carbon Contacts with Different Wetting Behaviours. <b>2015</b> , 60, 1	6
205	Numerical study of cloud cavitation effects on hydrophobic hydrofoils. <b>2015</b> , 83, 591-603	29
204	Consequences of water between two hydrophobic surfaces on adhesion and wetting. <i>Langmuir</i> , <b>2015</b> , 31, 2398-406	4 33
203	Electrostatic phase separation: A review. <b>2015</b> , 96, 177-195	143
202	The coupling of surface charge and boundary slip at the solid-liquid interface and their combined effect on fluid drag: A review. <b>2015</b> , 454, 152-79	43
201	Viscous force [An important parameter for the modeling of deep bed filtration in liquid media. <b>2015</b> , 283, 190-198	16
200	Fluid flow and heat transfer in microchannel heat sink based on porous fin design concept. <b>2015</b> , 65, 52-57	94
199	Electrohydrodynamics near hydrophobic surfaces. <b>2015</b> , 114, 118301	66
198	Rebound and attachment involving single bubble and particle in the separation of plastics by froth flotation. <b>2015</b> , 144, 123-132	26
197	Near surface properties of mixtures of propylammonium nitrate with n-alkanols 2. Nanotribology and fluid dynamics. <b>2015</b> , 17, 26629-37	10
196	The effect of surface charge on the boundary slip of various oleophilic/phobic surfaces immersed in liquids. <i>Soft Matter</i> , <b>2015</b> , 11, 7680-95	3.6 13
195	Slip-corrected liquid permeability and its effect on hydraulic fracturing and fluid loss in shale. <b>2015</b> , 160, 549-559	116

194	Antifouling Surfaces and Materials. <b>2015,</b>		13
193	Simulation of Effective Slip and Drag in Pressure-Driven Flow on Superhydrophobic Surfaces. <b>2016,</b> 2016, 1-9		4
192	Effective slip for flow in a rotating channel bounded by stick-slip walls. <i>Physical Review E</i> , <b>2016,</b> 94, 063115	1	1
191	Nucleation processes of nanobubbles at a solid/water interface. <b>2016,</b> 6, 24651		38
190	Measurements of slip length for flows over graphite surface with gas domains. <b>2016,</b> 109, 151602		10
189	A micro-nano-rheometer for the mechanics of soft matter at interfaces. <b>2016,</b> 87, 113906		12
188	Stability of viscosity stratified flows down an incline: Role of miscibility and wall slip. <i>Physics of Fluids</i> , <b>2016,</b> 28, 104101	4.4	16
187	Electric Field Driven Separation of Oil/Water Mixtures: Model Development and Experimental Verification. <b>2016,</b> 55, 4585-4598		13
186	A Universal Model of Water Flow Through Nanopores in Unconventional Reservoirs: Relationships Between Slip, Wettability and Viscosity. <b>2016,</b>		5
185	Slip length measurement of gas flow. <b>2016,</b> 27, 374004		11
184	Study of the Relationship between Boundary Slip and Nanobubbles on a Smooth Hydrophobic Surface. <i>Langmuir</i> , <b>2016,</b> 32, 11287-11294	4	28
183	Hydrodynamic interaction between a flat surface and an evaporating drop in its own superheated vapor in the case of small Reynolds and Knudsen numbers. <b>2016,</b> 71, 73-76		
182	Effects of a depletion layer on flow in a rotating channel. <b>2016,</b> 76, 57-63		1
181	Utilizing the Discrete Element Method for the Modeling of Viscosity in Concentrated Suspensions. <i>Langmuir</i> , <b>2016,</b> 32, 8451-60	4	16
180	Internal and External Flow over Laser-Textured Superhydrophobic Polytetrafluoroethylene (PTFE). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016,</b> 8, 27411-27419	9.5	34
179	Slip boundary conditions over curved surfaces. <i>Physical Review E</i> , <b>2016,</b> 93, 013105	2.4	23
178	Probing effective slippage on superhydrophobic stripes by atomic force microscopy. <i>Soft Matter</i> , <b>2016,</b> 12, 6910-7	3.6	12
177	Slip Length Enhancement in Nanofluidic Flow using Nanotextured Superhydrophobic Surfaces. <i>Advanced Materials Interfaces</i> , <b>2016,</b> 3, 1600303	4.6	8

176	Sustained drag reduction in a turbulent flow using a low-temperature Leidenfrost surface. <b>2016</b> , 2, e1600686	72
175	Electroviscous effect and convective heat transfer of pressure-driven flow through microtubes with surface charge-dependent slip. <b>2016</b> , 101, 648-655	34
174	Optimized Model Surfaces for Advanced Atomic Force Microscopy Studies of Surface Nanobubbles. <i>Langmuir</i> , <b>2016</b> , 32, 11179-11187	4 8
173	A velocity-slip model for analysis of the fluid film in the cavitation region of a journal bearing. <i>Tribology International</i> , <b>2016</b> , 97, 163-172	4.9 20
172	Is the boundary layer of an ionic liquid equally lubricating at higher temperature?. <b>2016</b> , 18, 9232-9	25
171	On the Yih-Marangoni instability of a two-phase plane Poiseuille flow in a hydrophobic channel. <b>2016</b> , 145, 214-232	9
170	Study of the properties of oil, particles, and water on particle adsorption dynamics at an oil/water interface using the colloidal probe technique. <b>2016</b> , 109, 307-316	13
169	Forces between extended hydrophobic solids: Is there a long-range hydrophobic force?. <i>Current Opinion in Colloid and Interface Science</i> , <b>2016</b> , 22, 51-58	7.6 34
168	Scaling Hydrodynamic Boundary Conditions of Microstructured Surfaces in the Thin Channel Limit. <i>Langmuir</i> , <b>2016</b> , 32, 2360-8	4 12
167	Steady solution and spatial stability of gravity-driven thin-film flow: reconstruction of an uneven slippery bottom substrate. <b>2016</b> , 227, 1685-1709	7
166	Boundary flow on end-grafted PEG brushes. <i>Soft Matter</i> , <b>2016</b> , 12, 1906-14	3.6 21
165	Friction factor in nanochannel flows. <b>2016</b> , 20, 1	40
164	Starting flow in channels with boundary slip. <b>2017</b> , 52, 45-67	4
163	Joule heating, viscous dissipation and convective heat transfer of pressure-driven flow in a microchannel with surface charge-dependent slip. <b>2017</b> , 108, 1305-1313	31
162	Viscoelastic Drag Forces and Crossover from No-Slip to Slip Boundary Conditions for Flow near Air-Water Interfaces. <b>2017</b> , 118, 084501	26
161	Paradoxical Long-Timespan Opening of the Hole in Self-Supported Water Films of Nanometer Thickness. <i>Langmuir</i> , <b>2017</b> , 33, 4688-4693	4
160	The non-monotonic overlapping EDL-induced electroviscous effect with surface charge-dependent slip and its size dependence. <b>2017</b> , 113, 32-39	19
159	Determination of Slip Length in Couette Flow Based on an Analytical Simulation Incorporating Surface Interaction. <b>2017</b> , 34, 034701	1

158	Wettability effect on nanoconfined water flow. <b>2017</b> , 114, 3358-3363		289
157	Fluid Velocity Slip and Temperature Jump at a Solid Surface. <b>2017</b> , 69,		32
156	Effect of surface morphology on measurement and interpretation of boundary slip on superhydrophobic surfaces. <b>2017</b> , 49, 594-598		8
155	Core-annular miscible two-fluid flow in a slippery pipe: A stability analysis. <i>Physics of Fluids</i> , <b>2017</b> , 29, 097106	4.4	20
154	Role of slip on the linear stability of a liquid flow through a porous channel. <i>Physics of Fluids</i> , <b>2017</b> , 29, 094103	4.4	23
153	Apparent permeability for liquid transport in nanopores of shale reservoirs: Coupling flow enhancement and near wall flow. <b>2017</b> , 115, 224-234		62
152	An analytical model for relative permeability in water-wet nanoporous media. <b>2017</b> , 174, 1-12		88
151	Improvement of Hydrogen Bubbles Detaching from the Tool Surface in Micro Wire Electrochemical Machining by Applying Surface Microstructures. <b>2017</b> , 164, E248-E259		10
150	Enhanced drainage and thinning of liquid films between bubbles and solids that support surface waves. <i>Physical Review E</i> , <b>2017</b> , 95, 052803	2.4	3
149	Navier slip model of drag reduction by Leidenfrost vapor layers. <i>Physics of Fluids</i> , <b>2017</b> , 29, 107104	4.4	14
148	Explicit role of ionic strength in retention behavior of polystyrene latex particles in sedimentation field-flow fractionation: Slip boundary model. <b>2017</b> , 1528, 75-82		1
147	Role of liquid repellency on fluid slip, fluid drag, and formation of nanobubbles. <b>2017</b> , 23, 4367-4390		4
146	Drag reduction properties of superhydrophobic mesh pipes. <b>2017</b> , 5, 034001		20
145	An uncertainty budget analysis on the Hamaker constant determined when fitting force-distance curves for a sphere-plate system. <b>2018</b> , 118, 120-134		1
144	A multifunctional force microscope for soft matter with in situ imaging. <b>2018</b> , 89, 043902		4
143	Micro- and Nanoflows. <b>2018</b> ,		0
142	Lateral Force Microscopy of Interfacial Nanobubbles: Friction Reduction and Novel Frictional Behavior. <b>2018</b> , 8, 3125		7
141	Role of mineral flotation technology in improving bitumen extraction from mined Athabasca oil sands: I. Flotation chemistry of water-based oil sand extraction . <b>2018</b> , 96, 1986-1999		10

140	Influence of Fluid Slip on Operation Characteristics for High-Speed Spiral Groove Seal Ring. <b>2018</b> , 66, 1		7
139	Numerical Simulation of Multiphase Flow in Nanoporous Organic Matter With Application to Coal and Gas Shale Systems. <b>2018</b> , 54, 1077-1092		32
138	Size dependences of hydraulic resistance and heat transfer of fluid flow in elliptical microchannel heat sinks with boundary slip. <b>2018</b> , 119, 647-653		32
137	Viscocapillary Response of Gas Bubbles Probed by Thermal Noise Atomic Force Measurement. <i>Langmuir</i> , <b>2018</b> , 34, 1371-1375	4	4
136	A two-step method for rate-dependent nano-indentation of hydrogels. <i>Polymer</i> , <b>2018</b> , 137, 276-282	3.9	15
135	Influence of Topography on Adhesion and Bioadhesion. <b>2018</b> , 19-50		2
134	Coal permeability: Gas slippage linked to permeability rebound. <b>2018</b> , 215, 844-852		32
133	Relation between boundary slip mechanisms and waterlike fluid behavior. <i>Physical Review E</i> , <b>2018</b> , 97, 033104	2.4	5
132	Reduction of the effective shear viscosity in polymer solutions due to crossflow migration in microchannels: Effective viscosity models based on DPD simulations. <b>2018</b> , 39, 190-206		7
131	Nano-mechanics of ionic liquids at dielectric and metallic interfaces. <b>2018</b> , 206, 443-457		15
130	A fast algorithm for boundary slippage including mass flow conserving cavitation model. <i>Tribology International</i> , <b>2018</b> , 118, 71-88	4.9	2
129	Role of Liquid Repellency on Fluid Slip, Fluid Drag, and Formation of Nanobubbles. <b>2018</b> , 703-738		
128	Critical Review of Fluid Flow Physics at Micro- to Nano-scale Porous Media Applications in the Energy Sector. <b>2018</b> , 2018, 1-31		21
127	Dominant Role of Entropy in Stabilizing Sugar Isomerization Transition States within Hydrophobic Zeolite Pores. <b>2018</b> , 140, 14244-14266		48
126	Ultrafast water harvesting and transport in hierarchical microchannels. <b>2018</b> , 17, 935-942		200
125	Precursors to Molecular Slip on Smooth Hydrophobic Surfaces. <b>2018</b> , 121, 134501		6
124	Effect of Pipe Surface Wettability on Flow Slip Property. <b>2018</b> , 57, 12543-12550		11
123	Linear stability of a contaminated fluid flow down a slippery inclined plane. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	13

122	Enhanced slip properties of lubricant-infused grooves. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	20
121	Lattice Boltzmann simulation of liquid flow in nanoporous media. <b>2018</b> , 125, 1131-1143		31
120	Role of charge regulation and flow slip in the ionic conductance of nanopores: An analytical approach. <i>Physical Review E</i> , <b>2018</b> , 98, 012605	2.4	12
119	Measurement and Quantification of Effective Slip Length at Solid-Liquid Interface of Roughness-Induced Surfaces with Oleophobicity. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 931	2.6	3
118	Effective Boundary Slip Induced by Surface Roughness and Their Coupled Effect on Convective Heat Transfer of Liquid Flow. <b>2018</b> , 20,		6
117	Modeling of Nanoflows. <b>2018</b> , 185-215		
116	Theoretical study of micro/nano roughness effect on water-solid triboelectrification with experimental approach. <b>2018</b> , 52, 315-322		42
115	Optimal fractal tree-like microchannel networks with slip for laminar-flow-modified Murray's law. <b>2018</b> , 9, 482-489		14
114	Wall slip for complex liquids - Phenomenon and its causes. <i>Advances in Colloid and Interface Science</i> , <b>2018</b> , 257, 42-57	14.3	49
113	Microfluidic effects on the heat transfer enhancement and optimal design of microchannels heat sinks. <b>2018</b> , 126, 808-815		53
112	Effect of critical thickness on nanoconfined water fluidity: review, communication, and inspiration. <b>2019</b> , 9, 1149-1159		6
111	Starting Poiseuille Flow in a Circular Tube With Two Immiscible Fluids. <b>2019</b> , 141,		1
110	Sensitivity and accuracy of Casimir force measurements in air. <b>2019</b> , 100,		4
109	Predictions of the effective slip length and drag reduction with a lubricated micro-groove surface in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 874, 797-820	3.7	22
108	Large slippage and depletion layer at the polyelectrolyte/solid interface. <i>Soft Matter</i> , <b>2019</b> , 15, 6308-6317	3.7	4
107	Effects of wall velocity slip on droplet generation in microfluidic T-junctions.. <b>2019</b> , 9, 23229-23240		4
106	Multi-scale pore network modelling of fluid mass transfer in nano-micro porous media. <b>2019</b> , 141, 156-167		14
105	Wall-bounded flow over a realistically rough superhydrophobic surface. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 873, 977-1019	3.7	12

104	Relative permeability model of oil-water flow in nanoporous media considering multi-mechanisms. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 183, 106361	4.4	10
103	Electro-osmotic flow in hydrophobic nanochannels. <b>2019</b> , 21, 23036-23043		21
102	ENHANCED OIL FLOW MODEL COUPLING FRACTAL ROUGHNESS AND HETEROGENEOUS WETTABILITY. <b>2019</b> , 27, 1950088		7
101	Numerical Modeling of Viscoelasticity in Particle Suspensions Using the Discrete Element Method. <i>Langmuir</i> , <b>2019</b> , 35, 12754-12764	4	3
100	Microscopic determination of macroscopic boundary conditions in Newtonian liquids. <i>Physical Review E</i> , <b>2019</b> , 99, 013106	2.4	5
99	Instabilities in viscosity-stratified two-fluid channel flow over an anisotropic-inhomogeneous porous bottom. <i>Physics of Fluids</i> , <b>2019</b> , 31, 012103	4.4	14
98	Dynamics and stability of a power-law film flowing down a slippery slope. <i>Physics of Fluids</i> , <b>2019</b> , 31, 013102	4.0	11
97	How Slippery are SLIPS? Measuring Effective Slip on Lubricated Surfaces with Colloidal Probe Atmoc Force Microscopy. <i>Langmuir</i> , <b>2019</b> , 35, 2976-2982	4	15
96	Statistical Mechanical Expressions of Slip Length. <i>Journal of Statistical Physics</i> , <b>2019</b> , 176, 312-357	1.5	8
95	Establishment of a Standard Method for Boundary Slip Measurement on Smooth Surfaces Based on AFM. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1453	2.6	5
94	Structure and Transport Properties of Water and Hydrated Ions in Nano-Confined Channels. <i>Advanced Theory and Simulations</i> , <b>2019</b> , 2, 1900016	3.5	25
93	Experimental verification of Poiseuille flow in nanochannels. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 065001	1.4	3
92	Lubricating motion of a sphere towards a thin porous slab with Saffman slip condition. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 867, 949-968	3.7	3
91	Indenting polymer brushes of varying grafting density in a viscous fluid: A gradient approach to understanding fluid confinement. <i>Polymer</i> , <b>2019</b> , 169, 115-123	3.9	4
90	Effect of a liquid flow on the forces between charged solid surfaces and the non-equilibrium electric double layer. <i>Advances in Colloid and Interface Science</i> , <b>2019</b> , 266, 21-33	14.3	5
89	Apparent permeability model for shale oil transport through elliptic nanopores considering wall-oil interaction. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 176, 1041-1052	4.4	16
88	Comparison of Casimir forces and electrostatics from conductive SiC-Si/C and Ru surfaces. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	3
87	A New Slip Length Model for Enhanced Water Flow Coupling Molecular Interaction, Pore Dimension, Wall Roughness, and Temperature. <i>Advances in Polymer Technology</i> , <b>2019</b> , 2019, 1-12	1.9	4



86	An inhomogeneous Couette-type flow with a perfect slip condition at the lower boundary of an infinite fluid layer. <b>2019</b> ,		
85	The Effect of Surface Wettability on the Defrost Process. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> ,	0.4	
84	A Model of the Defrost Process. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 23-39	0.4	1
83	Spatio-temporal instability of two superposed fluids in a channel with boundary slip. <i>International Journal of Multiphase Flow</i> , <b>2019</b> , 113, 264-278	3.6	10
82	Drag force on spherical particle moving near a plane wall in highly rarefied gas. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 883,	3.7	4
81	The effect of the loss of superhydrophobic surface properties on biofouling and flow around shipbuilding's steel plates. <i>Ocean Engineering</i> , <b>2020</b> , 214, 107801	3.9	3
80	Effect of porous layer on the Faraday instability in viscous liquid. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2020</b> , 476, 20200208	2.4	2
79	Reassessing water slippage in hydrophobic nanostructures. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 191101	3.1	2
78	. <b>2020</b> ,		4
77	Effect of asphalt film thickness on shear mechanical properties of asphalt-aggregate interface. <i>Construction and Building Materials</i> , <b>2020</b> , 263, 120208	6.7	6
76	Flow-driven collapse of lubricant-infused surfaces. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 901,	3.7	5
75	Dynamic adhesion due to fluid infusion. <i>Current Opinion in Colloid and Interface Science</i> , <b>2020</b> , 50, 101397	7.6	2
74	Thermocapillary stress and meniscus curvature effects on slip lengths in ridged microchannels. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 894,	3.7	5
73	Large Effective Slip on Lubricated Surfaces Measured with Colloidal Probe AFM. <i>Langmuir</i> , <b>2020</b> , 36, 6033-6040	4	4
72	Solid-Lubricant Interaction and Friction at Lubricated Contacts. <b>2020</b> , 237-251		
71	Programmable 3D printed wheat awn-like system for high-performance fogdrop collection. <i>Chemical Engineering Journal</i> , <b>2020</b> , 399, 125139	14.7	21
70	Non-modal stability analysis in viscous fluid flows with slippery walls. <i>Physics of Fluids</i> , <b>2020</b> , 32, 064105	4.4	11
69	Effect of Superhydrophobic Composite Coatings on Drag Reduction in Laminar Flow. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 1614-1622	4.3	10

68	How the partial-slip boundary condition can influence the interpretation of the DLS and NTA data. <i>Journal of Biological Physics</i> , <b>2020</b> , 46, 169-176	1.6	2
67	Wettability effect on wave propagation in saturated porous medium. <i>Journal of the Acoustical Society of America</i> , <b>2020</b> , 147, 911	2.2	5
66	Theoretical modeling and experimental characterization of boundary slip on aluminum surface with small-amplitude roughness. <i>Engineering Research Express</i> , <b>2020</b> , 2, 015025	0.9	
65	Superhydrophobic TC4 alloy surface fabricated by laser micro-scanning to reduce adhesion and drag resistance. <i>Surface and Coatings Technology</i> , <b>2020</b> , 391, 125707	4.4	21
64	Analytical model for drag reduction on liquid-infused structured non-wetting surfaces. <i>Soft Matter</i> , <b>2021</b> , 17, 1388-1403	3.6	12
63	New strategy for reducing the EHL friction in steel contacts using additive-formed oleophobic boundary films. <i>Friction</i> , <b>2021</b> , 9, 1346-1360	5.6	3
62	Casimir and electrostatic forces from Bi <sub>2</sub> Se <sub>3</sub> thin films of varying thickness. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
61	Influence of Surface Texture on the Variation of Electrokinetic Streaming Potentials. <i>Langmuir</i> , <b>2021</b> , 37, 6736-6743	4	1
60	Effects of Layering and Supporting Substrate on Liquid Slip at the Single-Layer Graphene Interface. <i>ACS Nano</i> , <b>2021</b> , 15, 10095-10106	16.7	2
59	Effect of pH on Effective Slip Length and Surface Charge at Solid-Oil Interfaces of Roughness-Induced Surfaces. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	0
58	Thermocapillary instability on a film falling down a non-uniformly heated slippery incline. <i>International Journal of Non-Linear Mechanics</i> , <b>2021</b> , 133, 103718	2.8	8
57	Frontier Enhanced Oil Recovery (EOR) Research on the Application of Imbibition Techniques in High-Pressure Forced Soaking of Hydraulically Fractured Shale Oil Reservoirs. <i>Geofluids</i> , <b>2021</b> , 2021, 1-17 <sup>1-5</sup>		
56	Enhanced transport of ions by tuning surface properties of the nanochannel. <i>Physical Review E</i> , <b>2021</b> , 104, 035107	2.4	0
55	Bounding transverse permeability of fibrous media: a statistical study from random representative volume elements with consideration of fluid slip. <i>International Journal of Multiphase Flow</i> , <b>2021</b> , 143, 103751	3.6	1
54	Elasto-hydrodynamic friction changes on steel surfaces arising from the modified surface energy of the steel due to additive boundary films. <i>Tribology International</i> , <b>2021</b> , 164, 107203	4.9	1
53	Shear Dynamics: Understanding Boundary Slip and Anomalies in the Structural and Dynamical Properties of Liquids Under Flow. <i>Neutron Scattering Applications and Techniques</i> , <b>2012</b> , 411-438		2
52	Application of Tunable-Slip Boundary Conditions in Particle-Based Simulations. <b>2015</b> , 19-30		2
51	Elastic waves in porous media saturated with non-wetting fluid. <i>APPEA Journal</i> , <b>2020</b> , 60, 315	0.6	2

50	Apparent slip of shear thinning fluid in a microchannel with a superhydrophobic wall. <i>Physical Review E</i> , <b>2017</b> , 96, 013104	2.4	8
49	Feature-resolved computational and analytical study of laminar drag reduction by superhydrophobic surfaces. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	27
48	Longitudinal pressure-driven flows between superhydrophobic grooved surfaces: Large effective slip in the narrow-channel limit. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	8
47	Liquid slip over gas nanofilms. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	8
46	Stokes resistance of a cylinder near a slippery wall. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	4
45	Boundary conditions at the gas sectors of superhydrophobic grooves. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	7
44	Nanoconfined ionic liquids: Disentangling electrostatic and viscous forces. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	29
43	Wall slip of complex fluids: Interfacial friction versus slip length. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	17
42	Apparent slip mechanism between two spheres based on solvent rheology: Theory and implication for the shear thinning of non-Brownian suspensions. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	5
41	Universal molecular-kinetic scaling relation for slip of a simple fluid at a solid boundary. <i>Physical Review Fluids</i> , <b>2019</b> , 4,	2.8	13
40	Wetting, Roughness and Hydrodynamic Slip. <b>2013</b> ,		1
39	AFM Slip Length Measurements for Water at Selected Phyllosilicate Surfaces. <i>Colloids and Interfaces</i> , <b>2021</b> , 5, 44	3	1
38	Interfacial Forces and Spectroscopic Study of Confined Fluids. <b>2007</b> , 925-950		
37	Multiphysics-based simulation on heat conduction mechanism of TFC head and its influencing factors. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2014</b> , 63, 034401	0.6	
36	Sensing the Mechanical Properties of Supported Micro- to Nano-elastic Films. <b>2014</b> , 575-614		
35	Weakly viscoelastic film on a slippery slope. <i>Physics of Fluids</i> , <b>2021</b> , 33, 112107	4.4	2
34	Interfacial Forces and Spectroscopic Study of Confined Fluids. <b>2008</b> , 517-556		
33	Particle/wall electroviscous effects at the micron scale: comparison between experiments, analytical and numerical models. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 34,	1.8	

32	Diffusion-limited association of nanoparticles in fluid: Beyond the no-slip boundary conditions. <i>Colloids and Interface Science Communications</i> , <b>2022</b> , 46, 100538	5.4	
31	On fluid flow regime transition in rough rock fractures: Insights from experiment and fluid dynamic computation. <i>Journal of Hydrology</i> , <b>2022</b> , 607, 127558	6	1
30	Boundary Slip of Oil Molecules at MoS Homojunctions Governing Superlubricity.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	1
29	Pressure Drop Measurements in Microfluidic Devices: A Review on the Accurate Quantification of Interfacial Slip. <i>Advanced Materials Interfaces</i> , <b>2022</b> , 9, 2101641	4.6	2
28	Pushing the limits of nanopore transport performance by polymer functionalization.. <i>Chemical Communications</i> , <b>2022</b> ,	5.8	5
27	Multiscale interplay of curvature and hydrodynamic slippage in flow over a patterned topography. <i>Physical Review Fluids</i> , <b>2022</b> , 7,	2.8	
26	On the reduction of hydraulic resistance based on the hydrophobization of functional surfaces. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2124, 012018	0.3	
25	A Review of Recent Advances in Superhydrophobic Surfaces and Their Applications in Drag Reduction and Heat Transfer.. <i>Nanomaterials</i> , <b>2021</b> , 12,	5.4	3
24	Drag reduction ability of slippery liquid-infused surfaces: A review. <i>Progress in Organic Coatings</i> , <b>2022</b> , 170, 106970	4.8	1
23	Atomic force microscopy probing interactions and microstructures of ionic liquids at solid interfaces. <i>Nanoscale</i> ,	7.7	0
22	Electroviscous effects in charge-dependent slip flow of liquid electrolytes through a charged microfluidic device. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2022</b> , 109041	3.7	0
21	Slip Flow on Graphene: Current Status and Perspective. <i>Journal of Thermal Science</i> , <b>2022</b> , 31, 1115-1134	1.9	
20	Study on the Collision Dynamics of a Freely Rising Oil Droplet in Water Near the Horizontal Wall.		
19	References. <b>2022</b> , 127-129		
18	Influence of slip effect on viscous dissipation heat and lubrication characteristics of Gas Journal Bearing: A multiscale analysis. 1-18		
17	Poiseuille flow of a Bingham fluid in a channel with a superhydrophobic groovy wall. <b>2022</b> , 948,		0
16	Translucency and negative temperature-dependence for the slip length of water on graphene.		0
15	Macro- and Microhydrodynamics of a Viscous Fluid on a Superhydrophobic Surface. <b>2022</b> , 84, 379-393		0

14	Simulation of Structure Formation during Drying of Lithium-Ion Battery Electrodes using Discrete Element Method. 2200724	1
13	Optical measurement of the picosecond fluid mechanics in simple liquids generated by vibrating nanoparticles: A review.	0
12	Insights from molecular simulations on liquid slip over nanostructured surfaces. <b>2022</b> , 28,	1
11	Grazing incidence neutron scattering for the study of solid-liquid interfaces. <b>2023</b> ,	0
10	MD-CFD simulation on the miscible displacement process of hydrocarbon gas flooding under deep reservoir conditions. <b>2023</b> , 263, 125730	0
9	Novel synthetic "triangle Ester" lubricants: useful correlations for wetting and tribological phenomena over common engineering substrates. 1-22	0
8	A Cross-Scale Framework for Modelling Chloride Ions Diffusion in C-S-H: Combined Effects of Slip, Electric Double Layer and Ion Correlation. <b>2022</b> , 15, 8253	0
7	Accurate estimation of dynamical quantities for nonequilibrium nanoscale systems. <b>2023</b> , 107,	0
6	Temperature-dependent slip length for water and electrolyte solution. <b>2023</b> , 636, 512-517	0
5	Interface slip models and slip measurement. <b>2023</b> , 95-107	0
4	Control of boundary slip by interfacial nanobubbles: A perspective from molecular dynamics simulations. <b>2023</b> , 35, 032108	0
3	Interaction between the oil droplet in water and wetted wall: Force model and motion law. <b>2023</b> , 35, 032011	0
2	The theory of the surface wettability angle in the formation of an oil film in internal combustion piston engines.	0
1	Evolution of Air Plastron Thickness and Slip Length over Superhydrophobic Surfaces in Taylor Couette Flows. <b>2023</b> , 8, 133	1