

Lyderic Bocquet

List of Publications by Year in Descending Order

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

185
papers

17,197
citations

68
h-index

129
g-index

196
ext. papers

19,316
ext. citations

9.3
avg, IF

7.19
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 185 | Fluctuation-induced quantum friction in nanoscale water flows.. <i>Nature</i> , 2022 , 602, 84-90 | 50.4 | 10 |
| 184 | Electronic screening using a virtual Thomas-Fermi fluid for predicting wetting and phase transitions of ionic liquids at metal surfaces. <i>Nature Materials</i> , 2021 , | 27 | 5 |
| 183 | Fluids at the Nanoscale: From Continuum to Subcontinuum Transport. <i>Annual Review of Fluid Mechanics</i> , 2021 , 53, 377-410 | 22 | 58 |
| 182 | Modeling of emergent memory and voltage spiking in ionic transport through angstrom-scale slits. <i>Science</i> , 2021 , 373, 687-691 | 33.3 | 22 |
| 181 | Studying polymer diffusiophoresis with non-equilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2020 , 152, 164901 | 3.9 | 3 |
| 180 | Nanofluidics coming of age. <i>Nature Materials</i> , 2020 , 19, 254-256 | 27 | 134 |
| 179 | Resonant osmosis across active switchable membranes. <i>Journal of Chemical Physics</i> , 2020 , 152, 054704 | 3.9 | 4 |
| 178 | Ultrafast photomechanical transduction through thermophoretic implosion. <i>Nature Communications</i> , 2020 , 11, 50 | 17.4 | 4 |
| 177 | Local and global force balance for diffusiophoretic transport. <i>Journal of Fluid Mechanics</i> , 2020 , 892, | 3.7 | 7 |
| 176 | Mechanically activated ionic transport across single-digit carbon nanotubes. <i>Nature Materials</i> , 2020 , 19, 1057-1061 | 27 | 28 |
| 175 | Nanotribology of Ionic Liquids: Transition to Yielding Response in Nanometric Confinement with Metallic Surfaces. <i>Physical Review X</i> , 2020 , 10, | 9.1 | 4 |
| 174 | Adsorption Kinetics in Open Nanopores as a Source of Low-Frequency Noise. <i>Nano Letters</i> , 2019 , 19, 7265-7272 | 11.5 | 19 |
| 173 | MicroMegascope based dynamic surface force apparatus. <i>Nanotechnology</i> , 2019 , 30, 195502 | 3.4 | 4 |
| 172 | Osmosis, from molecular insights to large-scale applications. <i>Chemical Society Reviews</i> , 2019 , 48, 3102-3145 | 34.5 | 98 |
| 171 | Atomic rheology of gold nanojunctions. <i>Nature</i> , 2019 , 569, 393-397 | 50.4 | 9 |
| 170 | Molecular streaming and its voltage control in nanoscale channels. <i>Nature</i> , 2019 , 567, 87-90 | 50.4 | 99 |
| 169 | Ionic Coulomb blockade as a fractional Wien effect. <i>Nature Nanotechnology</i> , 2019 , 14, 573-578 | 28.7 | 26 |

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| 168 | Entrance effects in concentration-gradient-driven flow through an ultrathin porous membrane. <i>Journal of Chemical Physics</i> , 2019 , 151, 044705 | 3.9 | 8 |
| 167 | Nanorheology of Interfacial Water during Ice Gliding. <i>Physical Review X</i> , 2019 , 9, | 9.1 | 17 |
| 166 | Beyond the Tradeoff: Dynamic Selectivity in Ionic Transport and Current Rectification. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1171-1185 | 3.4 | 28 |
| 165 | Crossover of the Power-Law Exponent for Carbon Nanotube Conductivity as a Function of Salinity. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2992-2997 | 3.4 | 14 |
| 164 | Driplons as localized and superfast ripples of water confined between graphene sheets. <i>Nature Communications</i> , 2018 , 9, 1496 | 17.4 | 41 |
| 163 | Dramatic pressure-sensitive ion conduction in conical nanopores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4063-4068 | 11.5 | 33 |
| 162 | Transport and dispersion across wiggling nanopores. <i>Nature Physics</i> , 2018 , 14, 1108-1113 | 16.2 | 52 |
| 161 | MicroMegascope. <i>Nanotechnology</i> , 2018 , 29, 355501 | 3.4 | 5 |
| 160 | Shear thinning in non-Brownian suspensions. <i>Soft Matter</i> , 2018 , 14, 879-893 | 3.6 | 48 |
| 159 | Interfacial transport with mobile surface charges and consequences for ionic transport in carbon nanotubes. <i>European Physical Journal E</i> , 2018 , 41, 148 | 1.5 | 12 |
| 158 | Electrostatic interactions between ions near Thomas-Fermi substrates and the surface energy of ionic crystals at imperfect metals. <i>Faraday Discussions</i> , 2017 , 199, 129-158 | 3.6 | 14 |
| 157 | Flows in one-dimensional and two-dimensional carbon nanochannels: Fast and curious. <i>MRS Bulletin</i> , 2017 , 42, 278-282 | 3.2 | 13 |
| 156 | Osmotic and diffusio-osmotic flow generation at high solute concentration. II. Molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2017 , 146, 194702 | 3.9 | 26 |
| 155 | Osmotic and diffusio-osmotic flow generation at high solute concentration. I. Mechanical approaches. <i>Journal of Chemical Physics</i> , 2017 , 146, 194701 | 3.9 | 33 |
| 154 | Nanoscale capillary freezing of ionic liquids confined between metallic interfaces and the role of electronic screening. <i>Nature Materials</i> , 2017 , 16, 634-639 | 27 | 96 |
| 153 | Active sieving across driven nanopores for tunable selectivity. <i>Journal of Chemical Physics</i> , 2017 , 147, 154701 | 3.9 | 5 |
| 152 | The Landau-Quire plume. <i>Journal of Fluid Mechanics</i> , 2017 , 826, | 3.7 | 8 |
| 151 | Linking Rheology and Printability for Dense and Strong Ceramics by Direct Ink Writing. <i>Scientific Reports</i> , 2017 , 7, 6017 | 4.9 | 117 |

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| 150 | New avenues for the large-scale harvesting of blue energy. <i>Nature Reviews Chemistry</i> , 2017 , 1, | 34.6 | 218 |
| 149 | Electrotunable wetting, and micro- and nanofluidics: general discussion. <i>Faraday Discussions</i> , 2017 , 199, 195-237 | 3.6 | 2 |
| 148 | Pairwise frictional profile between particles determines discontinuous shear thickening transition in non-colloidal suspensions. <i>Nature Communications</i> , 2017 , 8, 15633 | 17.4 | 104 |
| 147 | Active Osmotic Exchanger for Efficient Nanofiltration Inspired by the Kidney. <i>Physical Review X</i> , 2016 , 6, | 9.1 | 5 |
| 146 | Scaling Behavior for Ionic Transport and its Fluctuations in Individual Carbon Nanotubes. <i>Physical Review Letters</i> , 2016 , 116, 154501 | 7.4 | 113 |
| 145 | Velocity Condensation for Magnetotactic Bacteria. <i>Physical Review Letters</i> , 2016 , 116, 168101 | 7.4 | 14 |
| 144 | Anomalous capillary filling and wettability reversal in nanochannels. <i>Physical Review E</i> , 2016 , 93, 033123 | 2.4 | 34 |
| 143 | Chemisorption of Hydroxide on 2D Materials from DFT Calculations: Graphene versus Hexagonal Boron Nitride. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4695-4700 | 6.4 | 61 |
| 142 | Activated desorption at heterogeneous interfaces and long-time kinetics of hydrocarbon recovery from nanoporous media. <i>Nature Communications</i> , 2016 , 7, 11890 | 17.4 | 77 |
| 141 | Destabilization of a flow focused suspension of magnetotactic bacteria. <i>Physical Review Fluids</i> , 2016 , 1, | 2.8 | 35 |
| 140 | Origins of Negative Gas Adsorption. <i>Chem</i> , 2016 , 1, 873-886 | 16.2 | 68 |
| 139 | Carbon membranes for efficient water-ethanol separation. <i>Journal of Chemical Physics</i> , 2016 , 145, 124703 | 9 | 40 |
| 138 | Labyrinthine water flow across multilayer graphene-based membranes: Molecular dynamics versus continuum predictions. <i>Journal of Chemical Physics</i> , 2016 , 144, 234701 | 3.9 | 48 |
| 137 | Massive radius-dependent flow slippage in carbon nanotubes. <i>Nature</i> , 2016 , 537, 210-3 | 50.4 | 370 |
| 136 | Subcontinuum mass transport of condensed hydrocarbons in nanoporous media. <i>Nature Communications</i> , 2015 , 6, 6949 | 17.4 | 184 |
| 135 | Nanofluidics: Phonon modes for faster flow. <i>Nature Nanotechnology</i> , 2015 , 10, 657-8 | 28.7 | 12 |
| 134 | From Paris to Lyon, and from simple to complex liquids: a view on Jean-Pierre Hansen's contribution. <i>Molecular Physics</i> , 2015 , 113, 2378-2382 | 1.7 | 0 |
| 133 | Ultra-sensitive flow measurement in individual nanopores through pressure-driven particle translocation. <i>Nanoscale</i> , 2015 , 7, 7965-70 | 7.7 | 7 |

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|-----|---|------|-----|
| 132 | Nonequilibrium Equation of State in Suspensions of Active Colloids. <i>Physical Review X</i> , 2015 , 5, | 9.1 | 113 |
| 131 | Sub-additive ionic transport across arrays of solid-state nanopores. <i>Physics of Fluids</i> , 2014 , 26, 012005 | 4.4 | 38 |
| 130 | Boundary conditions for soft glassy flows: slippage and surface fluidization. <i>Soft Matter</i> , 2014 , 10, 6984-9. | 3.6 | 35 |
| 129 | Universal and non-universal features in coarse-grained models of flow in disordered solids. <i>Soft Matter</i> , 2014 , 10, 4648-61 | 3.6 | 35 |
| 128 | How a "pinch of salt" can tune chaotic mixing of colloidal suspensions. <i>Soft Matter</i> , 2014 , 10, 4795-9 | 3.6 | 13 |
| 127 | Physics and technological aspects of nanofluidics. <i>Lab on A Chip</i> , 2014 , 14, 3143-58 | 7.2 | 113 |
| 126 | Osmotic flow through fully permeable nanochannels. <i>Physical Review Letters</i> , 2014 , 112, 244501 | 7.4 | 61 |
| 125 | Ultrahigh interlayer friction in multiwalled boron nitride nanotubes. <i>Nature Materials</i> , 2014 , 13, 688-93 | 27 | 83 |
| 124 | Large permeabilities of hourglass nanopores: from hydrodynamics to single file transport. <i>Journal of Chemical Physics</i> , 2014 , 141, 18C526 | 3.9 | 73 |
| 123 | On the Green-Kubo relationship for the liquid-solid friction coefficient. <i>Journal of Chemical Physics</i> , 2013 , 139, 044704 | 3.9 | 59 |
| 122 | Confined flows of a polymer microgel. <i>European Physical Journal E</i> , 2013 , 36, 30 | 1.5 | 55 |
| 121 | Giant osmotic energy conversion measured in a single transmembrane boron nitride nanotube. <i>Nature</i> , 2013 , 494, 455-8 | 50.4 | 675 |
| 120 | Nanofluidic osmotic diodes: theory and molecular dynamics simulations. <i>Physical Review Letters</i> , 2013 , 111, 244501 | 7.4 | 60 |
| 119 | A molecular dynamics study of non-local effects in the flow of soft jammed particles. <i>Soft Matter</i> , 2013 , 9, 7489 | 3.6 | 42 |
| 118 | FIB Design for Nanofluidic Applications. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2013 , 373-389 | 3 | |
| 117 | Soft nanofluidic transport in a soap film. <i>Physical Review Letters</i> , 2013 , 110, 054502 | 7.4 | 28 |
| 116 | Thermal fluctuations of hydrodynamic flows in nanochannels. <i>Physical Review E</i> , 2013 , 88, 012106 | 2.4 | 20 |
| 115 | Optimizing water permeability through the hourglass shape of aquaporins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16367-72 | 11.5 | 158 |

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| 114 | Un moteur d'écoulement de mer pour déplacer des particules micrométriques 2013 , 10-15 | 0.1 | 1 |
| 113 | The anatomy of a crease, from folding to ironing. <i>Soft Matter</i> , 2012 , 8, 3342 | 3.6 | 13 |
| 112 | Osmotic traps for colloids and macromolecules based on logarithmic sensing in salt taxis. <i>Soft Matter</i> , 2012 , 8, 980-994 | 3.6 | 57 |
| 111 | A flux monitoring method for easy and accurate flow rate measurement in pressure-driven flows. <i>Lab on A Chip</i> , 2012 , 12, 872-5 | 7.2 | 3 |
| 110 | Probability distributions for the run-and-tumble bacterial dynamics: an analogy to the Lorentz model. <i>European Physical Journal E</i> , 2012 , 35, 84 | 1.5 | 57 |
| 109 | Large apparent electric size of solid-state nanopores due to spatially extended surface conduction. <i>Nano Letters</i> , 2012 , 12, 4037-44 | 11.5 | 105 |
| 108 | Ultralow liquid/solid friction in carbon nanotubes: comprehensive theory for alcohols, alkanes, OMCTS, and water. <i>Langmuir</i> , 2012 , 28, 14261-72 | 4 | 92 |
| 107 | Spontaneous formation of permanent shear bands in a mesoscopic model of flowing disordered matter. <i>Soft Matter</i> , 2012 , 8, 4197 | 3.6 | 91 |
| 106 | Scaling laws for slippage on superhydrophobic fractal surfaces. <i>Physics of Fluids</i> , 2012 , 24, 012001 | 4.4 | 28 |
| 105 | Thermal fluctuations in nanofluidic transport. <i>Physical Review Letters</i> , 2012 , 109, 024501 | 7.4 | 42 |
| 104 | Electrostatic interaction of neutral semi-permeable membranes. <i>Journal of Chemical Physics</i> , 2012 , 136, 034902 | 3.9 | 10 |
| 103 | Inhomogeneous shear flows in soft jammed materials with tunable attractive forces. <i>Physical Review E</i> , 2012 , 85, 021503 | 2.4 | 49 |
| 102 | Dynamical flow arrest in confined gravity driven flows of soft jammed particles. <i>Physical Review Letters</i> , 2012 , 109, 036001 | 7.4 | 30 |
| 101 | Microscale rheology of a soft glassy material close to yielding. <i>Physical Review Letters</i> , 2012 , 108, 148301 | 7.4 | 61 |
| 100 | Dynamic clustering in active colloidal suspensions with chemical signaling. <i>Physical Review Letters</i> , 2012 , 108, 268303 | 7.4 | 494 |
| 99 | A smooth future?. <i>Nature Materials</i> , 2011 , 10, 334-7 | 27 | 212 |
| 98 | Connecting diffusion and dynamical heterogeneities in actively deformed amorphous systems. <i>Physical Review Letters</i> , 2011 , 106, 156001 | 7.4 | 74 |
| 97 | A kinetic elasto-plastic model exhibiting viscosity bifurcation in soft glassy materials. <i>Soft Matter</i> , 2011 , 7, 5524 | 3.6 | 38 |

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| 96 | Theory and simulations of water flow through carbon nanotubes: prospects and pitfalls. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 184110 | 1.8 | 26 |
| 95 | Sedimentation and effective temperature of active colloidal suspensions. <i>Physical Review Letters</i> , 2010 , 105, 088304 | 7.4 | 370 |
| 94 | Wetting controls separation of inertial flows from solid surfaces. <i>Physical Review Letters</i> , 2010 , 104, 084503 | 5.0 | 39 |
| 93 | Electrokinetics at aqueous interfaces without mobile charges. <i>Langmuir</i> , 2010 , 26, 12614-25 | 4 | 42 |
| 92 | Molecular origin of fast water transport in carbon nanotube membranes: superlubricity versus curvature dependent friction. <i>Nano Letters</i> , 2010 , 10, 4067-73 | 11.5 | 537 |
| 91 | Colloidal motility and pattern formation under rectified diffusiophoresis. <i>Physical Review Letters</i> , 2010 , 104, 138302 | 7.4 | 111 |
| 90 | Nanofluidics, from bulk to interfaces. <i>Chemical Society Reviews</i> , 2010 , 39, 1073-95 | 58.5 | 863 |
| 89 | Comment on "pumping of confined water in carbon nanotubes by rotation-translation coupling". <i>Physical Review Letters</i> , 2010 , 105, 209401; author reply 209402 | 7.4 | 30 |
| 88 | How does a soft glassy material flow: finite size effects, non local rheology, and flow cooperativity. <i>Soft Matter</i> , 2010 , 6, 2668 | 3.6 | 87 |
| 87 | Kinetic theory of plastic flow in soft glassy materials. <i>Physical Review Letters</i> , 2009 , 103, 036001 | 7.4 | 255 |
| 86 | Electrohydraulic power conversion in planar nanochannels. <i>Physical Review Letters</i> , 2009 , 103, 144503 | 7.4 | 77 |
| 85 | Osmotic manipulation of particles for microfluidic applications. <i>New Journal of Physics</i> , 2009 , 11, 075022 | 2.9 | 58 |
| 84 | Size dependence of tracer diffusion in a laponite colloidal gel. <i>Langmuir</i> , 2009 , 25, 12048-55 | 4 | 19 |
| 83 | Interfacial water at hydrophobic and hydrophilic surfaces: slip, viscosity, and diffusion. <i>Langmuir</i> , 2009 , 25, 10768-81 | 4 | 354 |
| 82 | Spatial cooperativity in soft glassy flows. <i>Nature</i> , 2008 , 454, 84-7 | 50.4 | 313 |
| 81 | Boosting migration of large particles by solute contrasts. <i>Nature Materials</i> , 2008 , 7, 785-9 | 27 | 183 |
| 80 | Water slippage versus contact angle: a quasiuniversal relationship. <i>Physical Review Letters</i> , 2008 , 101, 226101 | 7.4 | 314 |
| 79 | Water at polar and nonpolar solid walls. <i>Biointerphases</i> , 2008 , 3, FC23-39 | 1.8 | 86 |

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| 78 | Nanofluidics in the Debye layer at hydrophilic and hydrophobic surfaces. <i>Physical Review Letters</i> , 2008 , 101, 114503 | 7.4 | 155 |
| 77 | Massive amplification of surface-induced transport at superhydrophobic surfaces. <i>Physical Review Letters</i> , 2008 , 101, 064503 | 7.4 | 67 |
| 76 | Using surface force apparatus, diffusion and velocimetry to measure slip lengths. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 1455-68 | 3 | 17 |
| 75 | Aqueous electrolytes near hydrophobic surfaces: dynamic effects of ion specificity and hydrodynamic slip. <i>Langmuir</i> , 2008 , 24, 1442-50 | 4 | 93 |
| 74 | Dynamics of Fakir Liquids: from Slip to Splash. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 335-351 | | 13 |
| 73 | Nanohydrodynamique près d'une surface solide : caractérisation expérimentale à l'équilibre. <i>Houille Blanche</i> , 2008 , 94, 83-90 | 0.3 | |
| 72 | Dynamics of transient cavities. <i>Journal of Fluid Mechanics</i> , 2007 , 591, 1-19 | 3.7 | 151 |
| 71 | Tasting edge effects. <i>American Journal of Physics</i> , 2007 , 75, 148-150 | 0.7 | 8 |
| 70 | Making a splash with water repellency. <i>Nature Physics</i> , 2007 , 3, 180-183 | 16.2 | 275 |
| 69 | Polymer and surface roughness effects on the drag crisis for falling spheres. <i>European Physical Journal B</i> , 2007 , 60, 469-476 | 1.2 | 16 |
| 68 | Ion-specific anomalous electrokinetic effects in hydrophobic nanochannels. <i>Physical Review Letters</i> , 2007 , 98, 177801 | 7.4 | 63 |
| 67 | Flow boundary conditions from nano- to micro-scales. <i>Soft Matter</i> , 2007 , 3, 685-693 | 3.6 | 468 |
| 66 | Achieving large slip with superhydrophobic surfaces: Scaling laws for generic geometries. <i>Physics of Fluids</i> , 2007 , 19, 123601 | 4.4 | 338 |
| 65 | Probing the nanohydrodynamics at liquid-solid interfaces using thermal motion. <i>Physical Review Letters</i> , 2006 , 96, 046101 | 7.4 | 127 |
| 64 | Comment on "Large slip of aqueous liquid flow over a nanoengineered superhydrophobic surface". <i>Physical Review Letters</i> , 2006 , 97, 109601; discussion 109602 | 7.4 | 36 |
| 63 | Giant amplification of interfacially driven transport by hydrodynamic slip: diffusio-osmosis and beyond. <i>Physical Review Letters</i> , 2006 , 96, 186102 | 7.4 | 171 |
| 62 | Liquid friction on charged surfaces: from hydrodynamic slippage to electrokinetics. <i>Journal of Chemical Physics</i> , 2006 , 125, 204716 | 3.9 | 144 |
| 61 | Slippage of water past superhydrophobic carbon nanotube forests in microchannels. <i>Physical Review Letters</i> , 2006 , 97, 156104 | 7.4 | 360 |

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| 60 | The mystery of the skipping stone. <i>Physics World</i> , 2006 , 19, 29-31 | 0.5 | 3 |
| 59 | Effets Electrocinétiques sur Surfaces Glissantes. <i>Houille Blanche</i> , 2006 , 92, 53-58 | 0.3 | 3 |
| 58 | Skipping stones. <i>Journal of Fluid Mechanics</i> , 2005 , 543, 137 | 3.7 | 53 |
| 57 | Nucleation in hydrophobic cylindrical pores: a lattice model. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6520-6 | 3.4 | 17 |
| 56 | Contact angle measurements on superhydrophobic carbon nanotube forests: Effect of fluid pressure. <i>Europhysics Letters</i> , 2005 , 71, 104-109 | 1.6 | 150 |
| 55 | Electrostatic potential around charged finite rodlike macromolecules: nonlinear Poisson-Boltzmann theory. <i>Journal of Colloid and Interface Science</i> , 2005 , 285, 609-18 | 9.3 | 19 |
| 54 | Slow flows of yield stress fluids: Complex spatiotemporal behavior within a simple elastoplastic model. <i>Physical Review E</i> , 2005 , 71, 010501 | 2.4 | 142 |
| 53 | Diffusion in pores and its dependence on boundary conditions. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S4075-S4090 | 1.8 | 24 |
| 52 | Intrusion and extrusion of water in hydrophobic mesopores. <i>Journal of Chemical Physics</i> , 2004 , 120, 4927-38 | 3.8 | 147 |
| 51 | A study of the static yield stress in a binary Lennard-Jones glass. <i>Journal of Chemical Physics</i> , 2004 , 120, 2788-801 | 3.9 | 170 |
| 50 | Interaction between charged anisotropic macromolecules: application to rod-like polyelectrolytes. <i>Journal of Chemical Physics</i> , 2004 , 120, 3969-82 | 3.9 | 28 |
| 49 | Secrets of successful stone-skipping. <i>Nature</i> , 2004 , 427, 29 | 50.4 | 56 |
| 48 | Where does a cohesive granular heap break?. <i>European Physical Journal E</i> , 2004 , 14, 177-83 | 1.5 | 23 |
| 47 | The interplay between screening properties and colloid anisotropy: towards a reliable pair potential for disc-like charged particles. <i>European Physical Journal E</i> , 2004 , 15, 345-57 | 1.5 | 39 |
| 46 | Elastic consequences of a single plastic event: a step towards the microscopic modeling of the flow of yield stress fluids. <i>European Physical Journal E</i> , 2004 , 15, 371-81 | 1.5 | 150 |
| 45 | Dynamics of simple liquids at heterogeneous surfaces: molecular-dynamics simulations and hydrodynamic description. <i>European Physical Journal E</i> , 2004 , 15, 427-38 | 1.5 | 202 |
| 44 | Intrusion and extrusion of water in highly hydrophobic mesoporous materials: effect of the pore texture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004 , 241, 265-272 | 5.1 | 49 |
| 43 | Hydrodynamics within the electric double layer on slipping surfaces. <i>Physical Review Letters</i> , 2004 , 93, 257805 | 7.4 | 225 |

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|----|---|-----|-----|
| 42 | Effective charge versus bare charge: an analytical estimate for colloids in the infinite dilution limit. <i>Journal of Physics A</i> , 2003 , 36, 5835-5840 | | 86 |
| 41 | Analytical estimation of effective charges at saturation in Poisson-Boltzmann cell models. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S291-S296 | 1.8 | 15 |
| 40 | On the fluid phase separation in charged-stabilized colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S3523-S3536 | 1.8 | 31 |
| 39 | Low-friction flows of liquid at nanopatterned interfaces. <i>Nature Materials</i> , 2003 , 2, 237-40 | 27 | 480 |
| 38 | The physics of stone skipping. <i>American Journal of Physics</i> , 2003 , 71, 150-155 | 0.7 | 25 |
| 37 | Alexander's Prescription for Colloidal Charge Renormalization. <i>Langmuir</i> , 2003 , 19, 4027-4033 | 4 | 119 |
| 36 | Shear localization in a model glass. <i>Physical Review Letters</i> , 2003 , 90, 095702 | 7.4 | 190 |
| 35 | Slow kinetics of capillary condensation in confined geometry: experiment and theory. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 206, 69-77 | 5.1 | 22 |
| 34 | Physics of humid granular media. <i>Comptes Rendus Physique</i> , 2002 , 3, 207-215 | 1.4 | 59 |
| 33 | Simple approach for charge renormalization in highly charged macroions. <i>Physical Review Letters</i> , 2002 , 89, 248301 | 7.4 | 107 |
| 32 | Hydrodynamic model for a dynamical jammed-to-flowing transition in gravity driven granular media. <i>Physical Review Letters</i> , 2002 , 89, 184301 | 7.4 | 51 |
| 31 | Effective charge saturation in colloidal suspensions. <i>Journal of Chemical Physics</i> , 2002 , 117, 8138-8152 | 3.9 | 125 |
| 30 | Effective interactions and phase behaviour for a model clay suspension in an electrolyte. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 9339-9352 | 1.8 | 47 |
| 29 | Simple model for heterogeneous flows of yield stress fluids. <i>Physical Review E</i> , 2002 , 66, 051501 | 2.4 | 105 |
| 28 | Granular shear flow dynamics and forces: experiment and continuum theory. <i>Physical Review E</i> , 2002 , 65, 011307 | 2.4 | 173 |
| 27 | Diffusion-controlled reactions: A revisit of Noyes theory. <i>Journal of Chemical Physics</i> , 2001 , 114, 6265-6275 | 3.5 | 21 |
| 26 | Reduction of dimensionality in a diffusion search process and kinetics of gene expression. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 277, 71-82 | 3.3 | 10 |
| 25 | Influence of wetting properties on diffusion in a confined fluid. <i>European Physical Journal Special Topics</i> , 2000 , 10, Pr7-27-Pr7-31 | | 9 |

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|----|---|------|-----|
| 24 | Thermally activated dynamics of capillary condensation. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, A419-A424 | 1.8 | 6 |
| 23 | Metastability and nucleation in capillary condensation. <i>Physical Review Letters</i> , 2000 , 84, 2433-6 | 7.4 | 105 |
| 22 | Particle dynamics in sheared granular matter. <i>Physical Review Letters</i> , 2000 , 85, 1428-31 | 7.4 | 219 |
| 21 | Dynamics of Colloidal Systems: Beyond the Stochastic Approach 2000 , 1-16 | | 1 |
| 20 | Influence of wetting properties on hydrodynamic boundary conditions at a fluid/solid interface. <i>Faraday Discussions</i> , 1999 , 112, 119-128 | 3.6 | 207 |
| 19 | Humidity effect on static aging of dry friction. <i>Europhysics Letters</i> , 1999 , 47, 562-567 | 1.6 | 29 |
| 18 | Large Slip Effect at a Nonwetting Fluid-Solid Interface. <i>Physical Review Letters</i> , 1999 , 82, 4671-4674 | 7.4 | 628 |
| 17 | Moisture-induced ageing in granular media and the kinetics of capillary condensation. <i>Nature</i> , 1998 , 396, 735-737 | 50.4 | 330 |
| 16 | Humidity Effects and Aging Behavior in Granular Media. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 543, 363 | | |
| 15 | Experiments on Tracer Diffusion in Thin Free-Standing Liquid-Crystal Films. <i>Physical Review Letters</i> , 1997 , 79, 4922-4925 | 7.4 | 21 |
| 14 | High friction limit of the Kramers equation: The multiple time-scale approach. <i>American Journal of Physics</i> , 1997 , 65, 140-144 | 0.7 | 48 |
| 13 | Friction tensor for a pair of Brownian particles: Spurious finite-size effects and molecular dynamics estimates. <i>Journal of Statistical Physics</i> , 1997 , 89, 321-346 | 1.5 | 15 |
| 12 | Microscopic derivation of non-Markovian thermalization of a Brownian particle. <i>Journal of Statistical Physics</i> , 1997 , 87, 1005-1035 | 1.5 | 19 |
| 11 | Phenomenological Study of Hysteresis in Quasistatic Friction. <i>Journal De Physique, I</i> , 1997 , 7, 1603-1625 | | 7 |
| 10 | Hydrodynamic properties of confined fluids. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 9297-9300 | 1.8 | 26 |
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