Yannick Hallez

List of Publications by Year
in descending order

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22 papers	381 citations	840119 11 h-index	752256 20 g-index
22 all docs	22 docs citations	22 times ranked	388 citing authors

#	Article	IF	Citations
1	Interaction between two spherical bubbles rising in a viscous liquid. Journal of Fluid Mechanics, 2011, 673, 406-431.	1.4	82
2	Effects of channel geometry on buoyancy-driven mixing. Physics of Fluids, 2008, 20, .	1.6	50
3	Drying colloidal systems: Laboratory models for a wide range of applications. European Physical Journal E, 2018, 41, 94.	0.7	43
4	A numerical investigation of horizontal viscous gravity currents. Journal of Fluid Mechanics, 2009, 630, 71-91.	1.4	31
5	Quantitative Assessment of the Accuracy of the Poissonâ€“Boltzmann Cell Model for Salty Suspensions. Langmuir, 2014, 30, 6721-6729.	1.6	23
6	Experimental and numerical investigations of flow structure and momentum transport in a turbulent buoyancy-driven flow inside a tilted tube. Physics of Fluids, 2009, 21, .	1.6	19
7	A Three-Step Scenario Involved in Particle Capture on a Pore Edge. Langmuir, 2015, 31, 8310-8317.	1.6	17
8	Osmotic pressure and transport coefficient in ultrafiltration: A Monte Carlo study using quantum surface charges. Chemical Engineering Science, 2020, 224, 115762.	1.9	17
9	Turbulence-induced secondary motion in a buoyancy-driven flow in a circular pipe. Physics of Fluids, 2009, 21, .	1.6	16
10	Surfactant mediated particle aggregation in nonpolar solvents. Physical Chemistry Chemical Physics, 2019, 21, 18866-18876.	1.3	15
11	Fast, Robust Evaluation of the Equation of State of Suspensions of Charge-Stabilized Colloidal Spheres. Langmuir, 2017, 33, 10051-10060.	1.6	12
12	Analytical and numerical computations of the van der Waals force in complex geometries: Application to the filtration of colloidal particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 414, 466-476.	2.3	9
13	Modeling the Electrostatics of Hollow Shell Suspensions: Ion Distribution, Pair Interactions, and Many-Body Effects. Langmuir, 2016, 32, 10430-10444.	1.6	8
14	Electrostatic Directed Assembly of Colloidal Microparticles Assisted by Convective Flow. Journal of Physical Chemistry C, 2019, 123, 783-790.	1.5	8
15	Buoyancy-induced turbulence in a tilted pipe. Journal of Fluid Mechanics, 2015, 762, 435-477.	1.4	7
16	Versatile, rapid and robust nano-positioning of single-photon emitters by AFM-nanoxerography. Nanotechnology, 2022, 33, 215301.	1.3	6
17	Shear-induced glass-to-crystal transition in anisotropic clay-like suspensions. Soft Matter, 2021, 17, 3174-3190.	1.2	5
18	Microfluidic osmotic compression of a charge-stabilized colloidal dispersion: Equation of state and collective diffusion coefficient. Physical Review E, 2021, 104, L062601.	0.8	4

#	Article	IF	Citations
19	The continuous modeling of charge-stabilized colloidal suspensions in shear flows. Journal of Rheology, 2016, 60, 1317-1329.	1.3	3
20	Surface and extrapolated point charge renormalizations for charge-stabilized colloidal spheres. European Physical Journal E, 2018, 41, 69.	0.7	3
21	Injection time controls the final morphology of nanocrystals during in situ-seeding synthesis of silver nanodisks. CrystEngComm, 2020, 22, 1769-1778.	1.3	2
22	On the relative impact of subgridâ€scale modelling and conjugate heat transfer in LES of hot jets in crossâ€flow over cold plates. International Journal for Numerical Methods in Fluids, 2011, 67, 1321-1340.	0.9	1