Florence Raynal

List of Publications by Year
in descending order

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21 papers	323 citations	840585 11 h-index	839398 18 g-index
21 all docs	21 docs citations	21 times ranked	269 citing authors

#	Article	IF	Citations
1	Energy saving in chaotic laminar mixing. International Journal of Heat and Mass Transfer, 1997, 40, 3267-3273.	2.5	54
2	A numerical Eulerian approach to mixing by chaotic advection. Physics of Fluids, 1995, 7, 2587-2600.	1.6	45
3	Faraday instability with a polymer solution. European Physical Journal B, 1999, 9, 175-178.	0.6	33
4	Study of a chaotic mixing system for DNA chip hybridization chambers. Physics of Fluids, 2004, 16, L63-L66.	1.6	33
5	Towards better DNA chip hybridization using chaotic advection. Physics of Fluids, 2007, 19, 017112.	1.6	18
6	Chaotic mixing in effective compressible flows. Physical Review E, 2014, 90, 013027.	0.8	16
7	Chaotic mixing efficiency in different geometries of Hele-Shaw cells. International Journal of Heat and Mass Transfer, 2010, 53, 684-693.	2.5	15
8	Advection and diffusion in a chemically induced compressible flow. Journal of Fluid Mechanics, 2018, 847, 228-243.	1.4	15
9	Kolmogorovian Active Turbulence of a Sparse Assembly of Interacting Marangoni Surfers. Physical Review X, 2020, 10, .	2.8	14
10	Diffusiophoresis at the macroscale. Physical Review Fluids, 2016, 1, .	1.0	14
11	Efficient stirring in planar, time-periodic laminar flows. Chemical Engineering Science, 1995, 50, 631-640.	1.9	13
12	Lobe dynamics in a kinematic model of a meandering jet. I. Geometry and statistics of transport and lobe dynamics with accelerated convergence. Physica D: Nonlinear Phenomena, 2006, 223, 7-25.	1.3	13
13	Diffusiophoresis, Batchelor scale and effective PÃ©clet numbers. Journal of Fluid Mechanics, 2019, 876, 818-829.	1.4	9
14	Mixing and unmixing induced by active camphor particles. Physical Review Fluids, 2021, 6, .	1.0	8
15	Numerical modeling of DNA-chip hybridization with chaotic advection. Biomicrofluidics, 2013, 7, 34107.	1.2	7
16	The distribution of â€œtime of flightâ€• in three dimensional stationary chaotic advection. Physics of Fluids, 2015, 27, 043601.	1.6	7
17	Exact relation between spatial mean enstrophy and dissipation in confined incompressible flows. Physics of Fluids, 1996, 8, 2242-2244.	1.6	5
18	Two-dimensional numerical model of Marangoni surfers: From single swimmer to crystallization. Physical Review E, 2021, 104, 064608.	0.8	2

#	Article	IF	Citations
19	MicromÃ©langeur Ã advection chaotique pour lâ€™hybridation des puces Ã ADN. Houille Blanche, 2006, 92, 78-82.	0.3	1
20	Chaotic mixing in an acoustically driven cavity flow. Physical Review Fluids, 2022, 7, .	1.0	1
21	Optimisation du protocole de mÃ©lange et de la gÃ©omÃ©trie dâ€™une chambre dâ€™hybridation de puces Ã ADN. Houille Blanche, 2007, 93, 39-44.	0.3	0