

# Francois Nadal

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6879338/publications.pdf>

Version: 2024-02-01

27  
papers

685  
citations

840119

11  
h-index

552369

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

691  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric steady streaming as a mechanism for acoustic propulsion of rigid bodies. <i>Physics of Fluids</i> , 2014, 26, .	1.6	109
2	Electrically induced interactions between colloidal particles in the vicinity of a conducting plane. <i>Physical Review E</i> , 2002, 65, 061409.	0.8	94
3	Model of Collective Fish Behavior with Hydrodynamic Interactions. <i>Physical Review Letters</i> , 2018, 120, 198101.	2.9	82
4	A rotating fluid cylinder subject to weak precession. <i>Journal of Fluid Mechanics</i> , 2008, 599, 405-440.	1.4	62
5	Electrically induced flows in the vicinity of a dielectric stripe on a conducting plane. <i>European Physical Journal E</i> , 2002, 9, 387-399.	0.7	52
6	Instability of a fluid inside a precessing cylinder. <i>Physics of Fluids</i> , 2008, 20, 081701.	1.6	48
7	Precessional instability of a fluid cylinder. <i>Journal of Fluid Mechanics</i> , 2011, 666, 104-145.	1.4	47
8	Size segregation and particle velocity fluctuations in settling concentrated suspensions. <i>Rheologica Acta</i> , 2009, 48, 855-870.	1.1	29
9	Gravitational instability due to the dissolution of carbon dioxide in a Hele-Shaw cell. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	24
10	Reversible Trapping of Colloids in Microgrooved Channels via Diffusiophoresis under Steady-State Solute Gradients. <i>Physical Review Letters</i> , 2020, 125, 248002.	2.9	21
11	Does shaking increase the pressure inside a bottle of champagne?. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 42-53.	5.0	15
12	Stationary plume induced by carbon dioxide dissolution. <i>Journal of Fluid Mechanics</i> , 2013, 719, 203-229.	1.4	12
13	From a steady plume to periodic puffs during confined carbon dioxide dissolution. <i>Journal of Fluid Mechanics</i> , 2018, 855, 1-27.	1.4	10
14	Deviations from classical droplet evaporation theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20210078.	1.0	10
15	Purely viscous acoustic propulsion of bimetallic rods. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	10
16	Acoustic propulsion of a small, bottom-heavy sphere. <i>Journal of Fluid Mechanics</i> , 2020, 898, .	1.4	9
17	Convective dissolution of carbon dioxide in two- and three-dimensional porous media: The impact of hydrodynamic dispersion. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
18	Clustering instability of focused swimmers. <i>Europhysics Letters</i> , 2016, 116, 64004.	0.7	7

#	ARTICLE	IF	CITATIONS
19	Direct measurement of unsteady microscale Stokes flow using optically driven microspheres. Physical Review Fluids, 2021, 6, .	1.0	7
20	Probing the confined dynamics of a spherical colloid close to a surface by combined optical trapping and reflection interference contrast microscopy. Applied Physics Letters, 2001, 79, 3887-3889.	1.5	6
21	Small acoustically forced symmetric bodies in viscous fluids. Journal of the Acoustical Society of America, 2016, 139, 1081-1092.	0.5	6
22	Electrically induced microflows probed by Fluorescence Correlation Spectroscopy. European Physical Journal E, 2005, 16, 259-266.	0.7	4
23	Rotational propulsion enabled by inertia. European Physical Journal E, 2014, 37, 16.	0.7	4
24	Non-resonant viscous theory for the stability of a fluid-filled gyroscope. Journal of Fluid Mechanics, 2009, 639, 167-194.	1.4	3
25	High-Cycle Fatigue Behaviour of Pure Tantalum under Multiaxial and Variable Amplitude Loadings. Advanced Materials Research, 0, 891-892, 1341-1346.	0.3	2
26	Bi-dimensional plume generated by the convective dissolution of an extended source of $\text{CO}_2$ . Physical Review Fluids, 2021, 6, .		
27	Dynamics of a fluid inside a precessing cylinder. Mecanique Et Industries, 2009, 10, 187-194.	0.2	1