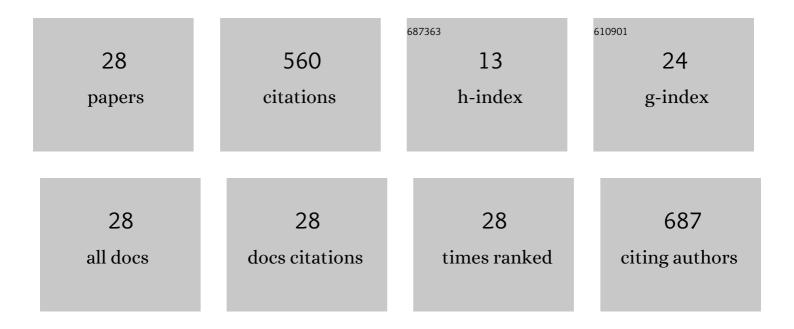
Thomas Barois

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4561207/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Digital and FM Demodulation of a Doubly Clamped Singleâ€Walled Carbonâ€Nanotube Oscillator: Towards a Nanotube Cell Phone. Small, 2010, 6, 1060-1065.	10.0	139
2	Boundaries Control Collective Dynamics of Inertial Self-Propelled Robots. Physical Review Letters, 2018, 120, 188002.	7.8	96
3	From collections of independent, mindless robots to flexible, mobile, and directional superstructures. Science Robotics, 2021, 6, .	17.6	32
4	Performance of field-emitting resonating carbon nanotubes as radio-frequency demodulators. Physical Review B, 2011, 83, .	3.2	29
5	Beyond the linear and Duffing regimes in nanomechanics: Circularly polarized mechanical resonances of nanocantilevers. Physical Review B, 2010, 81, .	3.2	26
6	How a Curved Elastic Strip Opens. Physical Review Letters, 2014, 113, 214301.	7.8	26
7	Columnar structure formation of a dilute suspension of settling spherical particles in a quiescent fluid. Physical Review Fluids, 2016, 1, .	2.5	23
8	Electron Fluctuation Induced Resonance Broadening in Nano Electromechanical Systems: The Origin of Shear Force in Vacuum. Nano Letters, 2012, 12, 3551-3556.	9.1	20
9	Investigation of the small-scale statistics of turbulence in the Modane S1MA wind tunnel. CEAS Aeronautical Journal, 2018, 9, 269-281.	1.7	20
10	Ohmic electromechanical dissipation in nanomechanical cantilevers. Physical Review B, 2012, 85, .	3.2	18
11	Simple modeling of self-oscillations in nanoelectromechanical systems. Applied Physics Letters, 2010, 96, .	3.3	15
12	Sorting and Extraction of Self-Propelled Chiral Particles by Polarized Wall Currents. Physical Review Letters, 2020, 125, 238003.	7.8	15
13	The mechanical resonances of electrostatically coupled nanocantilevers. Applied Physics Letters, 2011, 98, .	3.3	14
14	Ultra Low Power Consumption for Self-Oscillating Nanoelectromechanical Systems Constructed by Contacting Two Nanowires. Nano Letters, 2013, 13, 1451-1456.	9.1	14
15	Lagrangian diffusion properties of a free shear turbulent jet. Journal of Fluid Mechanics, 2021, 918, .	3.4	13
16	Role of fluctuations and nonlinearities on field emission nanomechanical self-oscillators. Physical Review B, 2013, 88, .	3.2	12
17	Frequency modulated self-oscillation and phase inertia in a synchronized nanowire mechanical resonator. New Journal of Physics, 2014, 16, 083009.	2.9	12
18	Flexible body with drag independent of the flow velocity. Journal of Fluid Mechanics, 2013, 735, .	3.4	9

THOMAS BAROIS

#	Article	IF	CITATIONS
19	Characterization and control of a bottleneck-induced traffic-jam transition for self-propelled particles in a track. Physical Review E, 2019, 99, 052605.	2.1	9
20	Quality-Factor Enhancement of Nanoelectromechanical Systems by Capacitive Driving Beyond Resonance. Physical Review Applied, 2016, 6, .	3.8	5
21	Equilibrium position of a rigid sphere in a turbulent jet: A problem of elastic reconfiguration. Physical Review E, 2017, 96, 033105.	2.1	5
22	Probing fluid torque with a hydrodynamical trap: Rotation of chiral particles levitating in a turbulent jet. Physics of Fluids, 2019, 31, 125116.	4.0	3
23	Carbon nanotube nanoradios: The field emission and transistor configurations. Comptes Rendus Physique, 2012, 13, 395-409.	0.9	2
24	Signal amplification in a synchronized field emission NEMS. , 2012, , .		1
25	The levitation of a sphere by two parallel turbulent jets. Physics of Fluids, 2020, 32, .	4.0	1
26	Transition to stress focusing for locally curved sheets. Physical Review E, 2021, 104, 014801.	2.1	1
27	Synchronization of nanowire self-oscillators. , 2014, , .		0
28	Field emission as a tool for exploring new phenemena in nanomechanics. , 2015, , .		0