Philippe-E Roche

List of Publications by Year
in descending order

47 papers	1,347 citations	361413 20 h-index	330143 37 g-index
47 all docs	47 docs citations	47 times ranked	723 citing authors

#	Article	IF	Citations
1	Cooling with a subsonic flow of quantum fluid. Physical Review B, 2021, 103, .	3.2	3
2	Local measurement of vortex statistics in quantum turbulence. Europhysics Letters, 2021, 134, 46002.	2.0	5
3	Experimental signature of quantum turbulence in velocity spectra?. New Journal of Physics, 2021, 23, 063005.	2.9	5
4	Investigation of properties of superfluid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math> turbulence using a hot-wire signal. Physical Review Fluids, 2021, 6, .	2.5	3
5	The ultimate state of convection: a unifying picture of very high Rayleigh numbers experiments. New Journal of Physics, 2020, 22, 073056.	2.9	26
6	Nano-shaped hot-wire for ultra-high resolution anemometry in cryogenic helium. Review of Scientific Instruments, 2019, 90, .	1.3	5
7	A local sensor for joint temperature and velocity measurements in turbulent flows. Review of Scientific Instruments, 2018, 89, 015005.	1.3	4
8	Investigation of the small-scale statistics of turbulence in the Modane S1MA wind tunnel. CEAS Aeronautical Journal, 2018, 9, 269-281.	1.7	20
9	Detection of vortex coherent structures in superfluid turbulence. Europhysics Letters, 2017, 118, 14005.	2.0	9
10	Intermittency of quantum turbulence with superfluid fractions from 0% to 96%. Physics of Fluids, 2017, 29, .	4.0	29
11	Disproportionate entrance length in superfluid flows and the puzzle of counterflow instabilities. Physical Review Fluids, 2017, 2, .	2.5	10
12	Hot-wire anemometry for superfluid turbulent coflows. Review of Scientific Instruments, 2015, 86, 025007.	1.3	21
13	Experimental, numerical, and analytical velocity spectra in turbulent quantum fluid. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4683-4690.	7.1	80
14	Superfluid high REynolds von KÃ¡rmÃ¡n experiment. Review of Scientific Instruments, 2014, 85, 103908.	1.3	38
15	Effective viscosity in quantum turbulence: A steady-state approach. Europhysics Letters, 2014, 106, 24006.	2.0	30
16	Cantilever anemometer based on a superconducting micro-resonator: Application to superfluid turbulence. Review of Scientific Instruments, 2012, 83, 125002.	1.3	17
17	Energy cascade and the four-fifths law in superfluid turbulence. Europhysics Letters, 2012, 97, 34006.	2.0	57
18	The ultimate regime of convection over uneven plates. Journal of Physics: Conference Series, 2011, 318, 052044.	0.4	1

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19	Kolmogorov cascade and equipartition of kinetic energy in numerical simulation of Superfluid turbulence. Journal of Physics: Conference Series, 2011, 318, 092031.	0.4	0
20	Micro-Cantilever Anemometer for Cryogenic Helium. Journal of Physics: Conference Series, 2011, 318, 092030.	0.4	2
21	Investigation of intermittency in superfluid turbulence. Journal of Physics: Conference Series, 2011, 318, 042014.	0.4	20
22	Mesoscale equipartition of kinetic energy in quantum turbulence. Europhysics Letters, 2011, 94, 24001.	2.0	32
23	Vorticity scattering measurements in a superfluid inertial round jet. Journal of Physics: Conference Series, 2011, 318, 092027.	0.4	1
24	Turbulent velocity spectra in superfluid flows. Physics of Fluids, 2010, 22, .	4.0	90
25	On the triggering of the Ultimate Regime of convection. New Journal of Physics, 2010, 12, 085014.	2.9	92
26	Quantum turbulence at finite temperature: The two-fluids cascade. Europhysics Letters, 2009, 87, 54006.	2.0	45
27	Transition on local temperature fluctuations in highly turbulent convection. Europhysics Letters, 2009, 87, 44006.	2.0	13
28	Convection at very high Rayleigh number: signature of transition from a micro-thermometer inside the flow. Springer Proceedings in Physics, 2009, , 159-162.	0.2	1
29	Shot noise of thermal plumes : Evidence of a boundary layer instability consistent with the onset of Kraichnanâ€™s Regime of convection. Springer Proceedings in Physics, 2009, , 521-524.	0.2	0
30	Turbulent cascade of a quantum fluid at finite temperature. Springer Proceedings in Physics, 2009, , 281-284.	0.2	0
31	Vortex spectrum in superfluid turbulence: Interpretation of a recent experiment. Europhysics Letters, 2008, 81, 36002.	2.0	39
32	Evidence of a boundary layer instability at very high Rayleigh number. Europhysics Letters, 2008, 83, 24005.	2.0	19
33	TSF EXPERIMENT FOR COMPARISON OF HIGH REYNOLDS NUMBER TURBULENCE IN BOTH HE I AND HE II: FIRST RESULTS. AIP Conference Proceedings, 2008, , .	0.4	3
34	Vortex density spectrum of quantum turbulence. Europhysics Letters, 2007, 77, 66002.	2.0	81
35	Ultimate regime of convection: search for a hidden triggering parameter. , 2007, , 645-647.		3
36	Probing Vortex Density Fluctuations in Superfluid Turbulence. , 2007, , 532-534.		0

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37	Mesoscopic full counting statistics and exclusion models. European Physical Journal B, 2005, 43, 529-541.	1.5	19
38	Ultimate regime of convection: Robustness to poor thermal reservoirs. Physics of Fluids, 2005, 17, 115107.	4.0	20
39	Heat Transfer in Turbulent Rayleighâ€“BÃ©nard Convection Below the Ultimate Regime. Journal of Low Temperature Physics, 2004, 134, 1011-1042.	1.4	26
40	Current Fluctuations in the One-Dimensional Symmetric Exclusion Process with Open Boundaries. Journal of Statistical Physics, 2004, 115, 717-748.	1.2	98
41	Thickness and low-temperature conductivity of DNA molecules. Applied Physics Letters, 2004, 84, 1007-1009.	3.3	87
42	Shot noise in carbon nanotubes. , 2003, , .		3
43	Prandtl and Rayleigh numbers dependences in Rayleigh-BÃ©nard convection. Europhysics Letters, 2002, 58, 693-698.	2.0	68
44	Shot-noise statistics in diffusive conductors. European Physical Journal B, 2002, 27, 393-398.	1.5	10
45	Very low shot noise in carbon nanotubes. European Physical Journal B, 2002, 28, 217-222.	1.5	42
46	Side wall effects in Rayleigh BÃ©nard experiments. European Physical Journal B, 2001, 24, 405-408.	1.5	72
47	Observation of the12power law in Rayleigh-BÃ©nard convection. Physical Review E, 2001, 63, 045303.	2.1	98