John E Thomas

List of Publications by Year
in descending order

32 papers	3,699 citations	361413 20 h-index	414414 32 g-index
33 all docs	33 docs citations	33 times ranked	1982 citing authors

#	Article	IF	Citations
1	Observation of a Strongly Interacting Degenerate Fermi Gas of Atoms. Science, 2002, 298, 2179-2182.	12.6	861
2	Evidence for Superfluidity in a Resonantly Interacting Fermi Gas. Physical Review Letters, 2004, 92, 150402.	7.8	665
3	Heat Capacity of a Strongly Interacting Fermi Gas. Science, 2005, 307, 1296-1299.	12.6	332
4	Universal Quantum Viscosity in a Unitary Fermi Gas. Science, 2011, 331, 58-61.	12.6	263
5	Laser-noise-induced heating in far-off resonance optical traps. Physical Review A, 1997, 56, R1095-R1098.	2.5	242
6	All-Optical Production of a Degenerate Fermi Gas. Physical Review Letters, 2002, 88, 120405.	7.8	218
7	Strongly correlated quantum fluids: ultracold quantum gases, quantum chromodynamic plasmas and holographic duality. New Journal of Physics, 2012, 14, 115009.	2.9	154
8	Virial Theorem and Universality in a Unitary Fermi Gas. Physical Review Letters, 2005, 95, 120402.	7.8	133
9	Polaron-to-Polaron Transitions in the Radio-Frequency Spectrum of a Quasi-Two-Dimensional Fermi Gas. Physical Review Letters, 2012, 108, 235302.	7.8	124
10	Thermodynamic Measurements inÂaÂStrongly Interacting FermiÂGas. Journal of Low Temperature Physics, 2009, 154, 1-29.	1.4	118
11	Suboptical wavelength position measurement of moving atoms using optical fields. Physical Review Letters, 1993, 70, 3404-3407.	7.8	103
12	Spin-Imbalanced Quasi-Two-Dimensional Fermi Gases. Physical Review Letters, 2015, 114, 110403.	7.8	67
13	Is a Gas of Strongly Interacting Atomic Fermions a Nearly Perfect Fluid?. Journal of Low Temperature Physics, 2008, 150, 567-576.	1.4	63
14	Anomalous Minimum in the Shear Viscosity of a Fermi Gas. Physical Review Letters, 2014, 113, 020406.	7.8	47
15	Shear Viscosity of a Unitary Fermi Gas Near the Superfluid Phase Transition. Physical Review Letters, 2015, 115, 020401.	7.8	47
16	Observation of Conformal Symmetry Breaking and Scale Invariance in Expanding Fermi Gases. Physical Review Letters, 2014, 112, 040405.	7.8	43
17	Observation of Nearly Perfect Irrotational Flow in Normal and Superfluid Strongly Interacting Fermi Gases. Physical Review Letters, 2007, 99, 140401.	7.8	34
18	Optical Control of Magnetic Feshbach Resonances by Closed-Channel Electromagnetically Induced Transparency. Physical Review Letters, 2016, 116, 075301.	7.8	27

#	Article	IF	Citations
19	Measuring the Hydrodynamic Linear Response of a Unitary Fermi Gas. Physical Review Letters, 2019, 123, 160402.	7.8	23
20	Fermi gases in the two-dimensional to quasi-two-dimensional crossover. Physical Review A, 2016, 94, .	2.5	22
21	Designer Spatial Control of Interactions in Ultracold Gases. Physical Review Letters, 2019, 122, 040405.	7.8	21
22	Is an Ultra-Cold Strongly Interacting Fermi Gas a Perfect Fluid?. Nuclear Physics A, 2009, 830, 665c-672c.	1.5	18
23	The nearly perfect Fermi gas. Physics Today, 2010, 63, 34-37.	0.3	17
24	Optically Trapped Fermi Gases. American Scientist, 2004, 92, 238.	0.1	13
25	Atom Pairing in Optical Superlattices. Physical Review Letters, 2018, 120, 083203.	7.8	9
26	Probing Energy-Dependent Feshbach Resonances by Optical Control. Physical Review Letters, 2018, 121, 163404.	7.8	7
27	Spin-energy correlation in degenerate weakly interacting Fermi gases. Physical Review A, 2019, 99, .	2.5	7
28	Energy-Resolved Information Scrambling in Energy-Space Lattices. Physical Review Letters, 2021, 126, 070601.	7.8	7
29	Cooling and Trapping. Optics and Photonics News, 2005, 16, 21.	0.5	6
30	Hydrodynamic Relaxation in a Strongly Interacting Fermi Gas. Physical Review Letters, 2022, 128, 090402.	7.8	6
31	Ultracold Fermi gas on a chip. Nature Physics, 2006, 2, 377-378.	16.7	1
32	Spin drag in a perfect fluid. Nature, 2011, 472, 172-173.	27.8	1