

Wei Guo

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,084
citations

471509

17
h-index

454955

30
g-index

76
all docs

76
docs citations

76
times ranked

445
citing authors

#	ARTICLE	IF	CITATIONS
1	Single electrons on solid neon as a solid-state qubit platform. Nature, 2022, 605, 46-50.	27.8	22
2	Scintillation yield from electronic and nuclear recoils in superfluid ^4He . Physical Review D, 2022, 105, .	4.7	4
3	A backing detector for order-keV neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1039, 166981.	1.6	2
4	Universal Anomalous Diffusion of Quantized Vortices in Ultraquantum Turbulence. Physical Review Letters, 2022, 129, .	7.8	5
5	Superdiffusion of quantized vortices uncovering scaling laws in quantum turbulence. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
6	Eulerian and Lagrangian second-order statistics of superfluid ^4He grid turbulence. Physical Review B, 2021, 103, .	3.2	10
7	Transient heat transfer of superfluid ^4He in nonhomogeneous geometries: Second sound, rarefaction, and thermal layer. Physical Review B, 2021, 103, .	3.2	8
8	True Mechanism of Spontaneous Order from Turbulence in Two-Dimensional Superfluid Manifolds. Physical Review Letters, 2021, 127, 095301.	7.8	6
9	Heat and mass transfer during a sudden loss of vacuum in a liquid helium cooled tube - Part III: Heat deposition in He II. International Journal of Heat and Mass Transfer, 2021, 181, 121885.	4.8	3
10	A magnetic levitation based low-gravity simulator with an unprecedented large functional volume. Npj Microgravity, 2021, 7, 40.	3.7	2
11	Heat and mass transfer during a sudden loss of vacuum in a liquid helium cooled tube “ Part II: Theoretical modeling. International Journal of Heat and Mass Transfer, 2020, 146, 118883.	4.8	4
12	Effect of mass flow rate on gas propagation after vacuum break in a liquid helium cooled tube.. IOP Conference Series: Materials Science and Engineering, 2020, 755, 012112.	0.6	2
13	Stereoscopic detection of hot spots in superfluid ^4He (He II) for accelerator-cavity diagnosis. International Journal of Heat and Mass Transfer, 2020, 161, 120259.	4.8	5
14	An experimental setup for creating and imaging $^4\text{He}^2^+$ excimer cluster tracers in superfluid helium-4 via neutron- ^3He absorption reaction. Review of Scientific Instruments, 2020, 91, 033318.	1.3	0
15	Torque and Angular-Momentum Transfer in Merging Rotating Bose-Einstein Condensates. Physical Review Letters, 2020, 124, 105302.	7.8	4
16	Imaging Fluorescence of $^4\text{He}^2^+$ Excimers Created by Neutron Capture in Liquid Helium II. Physical Review Letters, 2020, 124, 134502.	7.8	4
17	A cryogenic-helium pipe flow facility with unique double-line molecular tagging velocimetry capability. Review of Scientific Instruments, 2020, 91, 053901.	1.3	3
18	Shape fluctuations and optical transition of $^4\text{He}^2^+$ excimer tracers in superfluid ^4He . Physical Review B, 2020, 101, .	3.2	4

#	ARTICLE	IF	CITATIONS
19	<p> $\frac{d}{dt} \langle v^2 \rangle = \frac{2}{3} \frac{d}{dt} \langle v_x^2 + v_y^2 + v_z^2 \rangle$ </p> <p> Anomalous Anisotropic Velocity Fluctuations in Counterflow. <i>Physical Review Letters</i>, 2020, 124, 15530. </p>	7.8	26
20	<p> Statistical properties of homogeneous and isotropic turbulence in He II measured via particle tracking velocimetry. <i>Physical Review Fluids</i>, 2020, 5, . </p>	2.5	12
21	<p> Proof-of-principle Experiment of ^4He Excimer Cluster Generation via Neutron-^3He Absorption Reaction for Visualization of Velocity Fields in Superfluid ^4He. <i>Hamon</i>, 2020, 30, 192-196. </p>	0.0	0
22	<p> Generation of ^4He $^2\text{He}^+$. <i>Journal of Low Temperature Physics</i>, 2019, 196, 275-282. </p>	1.4	2
23	<p> The design and testing of a liquid helium cooled tube system for simulating sudden vacuum loss in particle accelerators. <i>Cryogenics</i>, 2019, 100, 92-96. </p>	1.7	5
24	<p> Quench-Spot Detection for Superconducting Accelerator Cavities Via Flow Visualization in Superfluid Helium-4. <i>Physical Review Applied</i>, 2019, 11, . </p>	3.8	7
25	<p> Molecular Tagging Velocimetry in Superfluid Helium-4: Progress, Issues, and Future Development. <i>Journal of Low Temperature Physics</i>, 2019, 196, 60-72. </p>	1.4	6
26	<p> Heat and mass transfer during a sudden loss of vacuum in a liquid helium cooled tube – Part I: Interpretation of experimental observations. <i>International Journal of Heat and Mass Transfer</i>, 2019, 129, 1144-1150. </p>	4.8	8
27	<p> Merging of Rotating Bose-Einstein Condensates. <i>Journal of Low Temperature Physics</i>, 2019, 195, 37-50. </p>	1.4	3
28	<p> Characterizing vortex tangle properties in steady-state He II counterflow using particle tracking velocimetry. <i>Physical Review Fluids</i>, 2019, 4, . </p>	2.5	13
29	<p> Particle tracking velocimetry applied to thermal counterflow in superfluid He4 : Motion of the normal fluid at small heat fluxes. <i>Physical Review Fluids</i>, 2019, 4, . </p>	2.5	19
30	<p> Flows with fractional quantum circulation in Bose-Einstein condensates induced by nontopological phase defects. <i>Physical Review A</i>, 2018, 97, . </p>	2.5	7
31	<p> An apparatus for generation and quantitative measurement of homogeneous isotropic turbulence in He. <i>Review of Scientific Instruments</i>, 2018, 89, 015107. </p>	1.3	12
32	<p> Statistics of turbulence and intermittency enhancement in superfluid He4 counterflow. <i>Physical Review B</i>, 2018, 98, . </p>	3.2	18
33	<p> Dissipation in quantum turbulence in superfluid He4 above 1 K. <i>Physical Review B</i>, 2018, 97, . </p>	3.2	27
34	<p> Exploration of thermal counterflow in He II using particle tracking velocimetry. <i>Physical Review Fluids</i>, 2018, 3, . </p>	2.5	29
35	<p> $\frac{d}{dt} \langle v^2 \rangle = \frac{2}{3} \frac{d}{dt} \langle v_x^2 + v_y^2 + v_z^2 \rangle$ </p> <p> Intermittency enhancement in quantum turbulence in superfluid ^4He. <i>Physical Review Fluids</i>, 2018, 3, . </p>	2.5	21
36	<p> Study of Particle Motion in He II Counterflow Across a Wide Heat Flux Range. <i>Journal of Low Temperature Physics</i>, 2017, 187, 446-452. </p>	1.4	4

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37	Energy spectrum of thermal counterflow turbulence in superfluid helium-4. <i>Physical Review B</i> , 2017, 96, .	3.2	32
38	Statistical Measurement of Counterflow Turbulence in Superfluid Helium-4 Using He_2^+ Tracer-Line Tracking Technique. <i>Journal of Low Temperature Physics</i> , 2017, 187, 490-496.	1.4	11
39	Repeatability of Cryogenic Multilayer Insulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 278, 012196.	0.6	2
40	Gas propagation following a sudden loss of vacuum in a pipe cooled by He I and He II. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 278, 012068.	0.6	2
41	Repeatability Measurements of Apparent Thermal Conductivity of Multilayer Insulation (MLI). <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 278, 012195.	0.6	2
42	Visualization of grid-generated turbulence in He II using PTV. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 278, 012081.	0.6	0
43	Determination of the effective kinematic viscosity for the decay of quasiclassical turbulence in superfluid He4. <i>Physical Review B</i> , 2016, 94, .	3.2	26
44	Decay of counterflow turbulence in superfluid 4He. <i>JETP Letters</i> , 2016, 103, 648-652.	1.4	40
45	Visualization of the normal-fluid turbulence in counterflowing superfluid He_4 . <i>Physical Review B</i> , 2015, 91, .	3.2	82
46	Producing and imaging a thin line of He_2^+ — molecular tracers in helium-4. <i>Review of Scientific Instruments</i> , 2015, 86, 093904.	1.3	25
47	Visualization of two-fluid flows of superfluid helium-4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4653-4658.	7.1	95
48	Visualization Technique for Determining the Structure Functions of Normal-Fluid Turbulence in Superfluid Helium-4. <i>Journal of Low Temperature Physics</i> , 2013, 171, 497-503.	1.4	11
49	Tracers of Quantum Turbulence in He_4 . <i>Physical Review B</i> , 2013, 87, .	7.8	52
50	Observation of Crossover from Ballistic to Diffusion Regime for Excimer Molecules in Superfluid 4He. <i>Journal of Low Temperature Physics</i> , 2013, 171, 207-213.	1.4	11
51	Concept for a dark matter detector using liquid helium-4. <i>Physical Review D</i> , 2013, 87, .	4.7	59
52	A finite-temperature density functional study of electron self-trapping in 3He and 4He. <i>Journal of Chemical Physics</i> , 2012, 136, 244510.	3.0	1
53	Scintillation and charge yield from the tracks of energetic electrons in superfluid helium-4. <i>Journal of Instrumentation</i> , 2012, 7, P01002-P01002.	1.2	9
54	Studying the Normal-Fluid Flow in Helium-II Using Metastable Helium Molecules. <i>Journal of Low Temperature Physics</i> , 2010, 158, 346-352.	1.4	10

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55	Electrons in Superfluid Helium-4. Journal of Low Temperature Physics, 2010, 158, 307-316.	1.4	14
56	Vortex nucleation induced phonon radiation from a moving electron bubble in superfluid $H e_4$	3.2	12
57	Visualization Study of Counterflow in Superfluid $H e_4$ using Metastable Helium Molecules. Physical Review Letters, 2010, 105, 045301.	7.8	99
58	Experiments with single electrons in liquid helium. Physical Review B, 2009, 79, .	3.2	33
59	Metastable Helium Molecules as Tracers in Superfluid $H e_4$. Physical Review Letters. 2009. 102. 235301.	7.8	53
60	Experiments with single electrons in liquid helium. Journal of Physics: Conference Series, 2009, 150, 022020.	0.4	1
61	Theory of the stability of multielectron bubbles in liquid helium. Journal of Physics: Conference Series, 2009, 150, 032027.	0.4	3
62	Stability of multielectron bubbles in liquid helium. Physical Review B, 2008, 78, .	3.2	17
63	Low temperature piezoelectric and dielectric properties of lead magnesium niobate titanate single crystals. Journal of Applied Physics, 2007, 102, 084104.	2.5	7
64	A study of the motion of single electrons in liquid helium. Journal of Physics: Conference Series, 2007, 92, 012001.	0.4	3
65	Calculation of the Cross-Section for Optical Transitions of an Electron Bubble to D States. Journal of Low Temperature Physics, 2007, 148, 213-217.	1.4	3
66	Calculation of the Shape of S-State Electron Bubbles in Liquid Helium. Journal of Low Temperature Physics, 2007, 148, 207-211.	1.4	5
67	Observations of the Motion of Single Electrons in Liquid Helium. Journal of Low Temperature Physics, 2007, 148, 199-206.	1.4	17
68	Calculation of the Cross-Section for the $1S \rightarrow 2P$ Transition of an Electron Bubble in Helium II. AIP Conference Proceedings, 2006, , .	0.4	0
69	Properties of Moving Electron Bubbles in Superfluid Helium. AIP Conference Proceedings, 2006, , .	0.4	9
70	The Shape of Electron Bubbles in Liquid Helium and the Line Width of Optical Transitions. Journal of Low Temperature Physics, 2004, 137, 491-507.	1.4	18