Ryuji Nomura

List of Publications by Year
in descending order

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104	1,088	448610	511568
papers	citations	19	30
		h-index	g-index

105	105	105	306
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structures of magnetic excitations in the spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml kagome-lattice antiferromagnets <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cs</mml:mi><mml:mn>2</mml:mn></mml and <mml:math xmlns:mml="http://www. Physical Review B, 2022, 105, .	1.1	7
2	A Simple Way to Enhance the Film Flow of Superfluid ⁴He by Coating. Journal of the Physical Society of Japan, 2022, 91, .	0.7	1
3	Colloquium: Quantum crystallizations of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>in superfluid far from equilibrium. Reviews of Modern Physics, 2020, 92, .	16.4	5
4	Crystallization Onset of Liquid Pockets via Mass Flow through Solid 4He in Aerogel. Journal of the Physical Society of Japan, 2019, 88, 035003.	0.7	1
5	Crystallization of 4He in Aerogel with Warming. Journal of the Physical Society of Japan, 2018, 87, 115001.	0.7	2
6	Asymmetry in melting and growth relaxation of⁴He crystals in superfluid after manipulation by acoustic radiation pressure. New Journal of Physics, 2017, 19, 023049.	1.2	2
7	Inchworm Driving of ⁴He Crystals in Superfluid. Journal of the Physical Society of Japan, 2017, 86, 074603.	0.7	2
8	^{4} 4 He Crystals in Reduced Gravity Obtained by Parabolic Flights of a Jet Plane. Journal of Low Temperature Physics, 2016, 185, 295-304.	0.6	1
9	Control of the wetting properties ofHe4crystals in superfluid. Physical Review E, 2016, 93, 052806.	0.8	6
10	Crystallization ofHe4in aerogel via mass flow from surrounding solidHe4. Physical Review B, 2016, 94, .	1.1	7
11	Equilibrium shape of ⁴ He crystal under zero gravity below 200 mK. Science Advances, 2015, 1, e1500825.	4.7	10
12	Transverse Acoustic Impedance of Superfluid³He B Phase in Weak Magnetic Fields. Journal of the Physical Society of Japan, 2015, 84, 065001.	0.7	1
13	Spin-Dependent Acoustic Response in the NonunitaryA1andA2Phases of SuperfluidHe3under High Magnetic Fields. Physical Review Letters, 2015, 114, 105304.	2.9	0
14	Fabrication of Parallel Plates for Bound State Susceptibility of Superfluid ³He-B. , 2015, , .		0
15	Quantum Crystallization and Self-Organized Criticality in Porous Materials. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2015, 23, 142-147.	0.0	0
16	Falling⁴He crystals in superfluid. New Journal of Physics, 2014, 16, 113022.	1.2	9
17	Surface Majorana cone of the topological superfluid 3He B phase. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 55, 42-47.	1.3	1
18	4He Crystals on an Oscillating Plate. Journal of Low Temperature Physics, 2014, 175, 120-125.	0.6	3

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19	Fluctuating Surfaces of Growing 4He Crystals in Aerogel. Journal of Low Temperature Physics, 2014, 175, 126-132.	0.6	1
20	Formation of superfluid liquid pocket in aerogel and its solidification by cooling. Low Temperature Physics, 2013, 39, 780-785.	0.2	3
21	Leftover Superfluid 4He in Aerogel and Its Crystallization by Cooling. Journal of Low Temperature Physics, 2013, 171, 295-301.	0.6	1
22	Thermal and quantum nucleation of4He crystals in aerogel. Physical Review E, 2013, 87, .	0.8	7
23	Ripening of splashed4He crystals by acoustic waves with and without gravity. New Journal of Physics, 2012, 14, 123023.	1.2	6
24	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>He crystals in superfluid under zero gravity. Physical Review E, 2012, 85, 030601.	0.8	8
25	Strong Suppression of the Kosterlitz-Thouless Transition in aHe4Film under High Pressure. Physical Review Letters, 2012, 108, 025302.	2.9	14
26	Odd-frequency Cooper pairs and zero-energy surface bound states in superfluid3He. Physical Review B, 2012, 85, .	1.1	29
27	Creation and Annihilation of4He Negative Crystals. Journal of Physics: Conference Series, 2012, 400, 012070.	0.3	1
28	Critical Overpressure for Nucleation of4He Crystals in Aerogel. Journal of Physics: Conference Series, 2012, 400, 012044.	0.3	1
29	Surface Andreev bound states of superfluid³He and Majorana fermions. Journal of Physics Condensed Matter, 2012, 24, 343201.	0.7	24
30	Surface Majorana Cone of the Superfluid ³He B Phase. Journal of the Physical Society of Japan, 2011, 80, 013602.	0.7	62
31	Macroscopic Quantum Tunneling and Avalanche Size Distribution of ⁴He Crystallization in Aerogel. Journal of the Physical Society of Japan, 2011, 80, 123601.	0.7	10
32	Dynamical Transition of 4He Crystallization in a Very High Porosity Aerogel. Journal of Low Temperature Physics, 2011, 162, 399-406.	0.6	3
33	Development of a 3He Refrigerator for Possible Experiments of Solid 4He on a Small Jet Plane. Journal of Low Temperature Physics, 2011, 162, 733-739.	0.6	4
34	Surface Waves on Superfluid 4He Under Reduced Gravity. Microgravity Science and Technology, 2011, 23, 365-372.	0.7	3
35	Surface Andreev bound states of the superfluid 3He B phase. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 718-721.	1.3	0
36	Transverse Acoustic Impedance Measurements forÂSurface States of Superfluid 3He A1 and A2 Phases. Journal of Low Temperature Physics, 2010, 158, 141-146.	0.6	4

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37	Superfluid Transition of a 4He Thin Film Pressurized by Bulk Liquid 3He. Journal of Low Temperature Physics, 2010, 158, 268-274.	0.6	2
38	Nucleation and Avalanche of 4He Crystals in Aerogel. Journal of Low Temperature Physics, 2010, 158, 490-495.	0.6	3
39	New Anomaly in the Transverse Acoustic Impedance of Superfluid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:mi mathvariant="bold">B</mml:mi></mml:math>with a Wall Coated by Several Layers of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" displa	2.9	74
40	Transverse acoustic impedance of normal liquid3He with4He coating. Journal of Physics: Conference Series, 2009, 150, 032106.	0.3	1
41	Visual observation of the bubble dynamics in normal⁴He, superfluid⁴He and superfluid³Heâ€“⁴He mixtures. Journal of Fluid Mechanics, 2009, 619, 261-275.	1.4	11
42	Bubble nucleation dynamics in³He/⁴He mixture by holographic interferometry. Journal of Physics: Conference Series, 2009, 150, 032064.	0.3	0
43	Surface condition dependence of transverse acoustic impedance in superfluid3He. Journal of Physics: Conference Series, 2009, 150, 032070.	0.3	2
44	The Surface Density of States of Superfluid 3He forÂDifferent Surface Boundary Conditions. Journal of Low Temperature Physics, 2008, 150, 154-159.	0.6	1
45	Instability of the Solid-Liquid Interface of 4He during aÂLarge Transformation. Journal of Low Temperature Physics, 2008, 150, 289-294.	0.6	7
46	Crystallization of 4He in Aerogels. Journal of Low Temperature Physics, 2008, 150, 499-504.	0.6	7
47	Broadening of the surface Andreev bound states band of superfluid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mtext>H</mml:mtext><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts><mml:mtext>e-</mml:mtext><mml:mi>B</mml:mi></mml:mrow></mml:math>on	1.1	32
48	Competition between Thermal Fluctuations and Disorder in the Crystallization of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math>in Aerogel. Physical Review Letters, 2008, 101, 175703.	2.9	15
49	Bubble nucleation in a superfluid He3â€“He4 mixture induced by acoustic wave. Low Temperature Physics, 2008, 34, 308-311.	0.2	1
50	New Aspects of Crystal Growth of Solid ⁴He Studied by Acoustic Wave. Journal of the Physical Society of Japan, 2008, 77, 111009.	0.7	21
51	Visualization of He crystallization process in aerogel. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2008, 16, 58-62.	0.0	0
52	Faraday instability of superfluid surface. Physical Review E, 2007, 76, 046305.	0.8	22
53	Faraday instability of crystallization waves in ⁴He. Journal of Physics: Conference Series, 2007, 92, 012157.	0.3	5
54	Filament formation by impurities embedding into superfluid helium. JETP Letters, 2007, 85, 581-584.	0.4	35

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55	Visual Observation of a Sound-Induced Bubble in Liquid 3Heâ€“4He Mixtures. Journal of Low Temperature Physics, 2007, 148, 133-138.	0.6	4
56	Faraday Instability on a Free Surface of Superfluid 4He. Journal of Low Temperature Physics, 2007, 148, 553-557.	0.6	5
57	Observation of Shrinkage of Silica Aerogel during Capillary Condensation ofÂ4He. Journal of Low Temperature Physics, 2007, 148, 621-625.	0.6	9
58	Superfluid-Normal Interface of 4He Near a Wall. Journal of Low Temperature Physics, 2007, 148, 109-113.	0.6	1
59	Growth Rate of Frost Heave in Helium and Mass Transport in Solid 4He. Journal of Low Temperature Physics, 2007, 149, 143-150.	0.6	9
60	Pressure Dependence of the Transverse Acoustic Impedance of Superfluid 3He-B. AIP Conference Proceedings, 2006, , .	0.3	0
61	Facet Growth of 4He Crystal Induced by Acoustic Waves. Journal of the Physical Society of Japan, 2006, 75, 023601.	0.7	21
62	Observation of A-B Phase Transition of Superfluid 3He by Transverse Acoustic Response. AIP Conference Proceedings, 2006, , .	0.3	0
63	Capillary Condensation of Liquid 4He in Aerogel on Cooling Through Î» Point. AIP Conference Proceedings, 2006, , .	0.3	3
64	Solid-Liquid Interface Motion of 4He Induced by Heat Pulse. AIP Conference Proceedings, 2006, , .	0.3	1
65	A Single Bubble Nucleated by Acoustic Waves in 3He-4He Mixtures. AIP Conference Proceedings, 2006, , .	0.3	3
66	Publisher's Note: Spectroscopic study of the surface density of states of superfluidHe3by transverse acoustic impedance measurements [Phys. Rev. B74, 220505(R) (2006)]. Physical Review B, 2006, 74, .	1.1	0
67	Spectroscopic study of the surface density of states of superfluidHe3by transverse acoustic impedance measurements. Physical Review B, 2006, 74, .	1.1	22
68	Dynamics of capillary condensation in aerogels. Physical Review E, 2006, 73, 032601.	0.8	12
69	Shear acoustic response of the superfluid helium-3. Journal of Physics and Chemistry of Solids, 2005, 66, 1349-1351.	1.9	6
70	Liquefaction of 4He in aerogel. Journal of Physics and Chemistry of Solids, 2005, 66, 1509-1511.	1.9	10
71	Anisotropic interface motion of 4He crystal induced by acoustic waves. Journal of Physics and Chemistry of Solids, 2005, 66, 1467-1470.	1.9	0
72	Transverse Acoustic Response Measured by AC-cut Quartz Transducer in Superfluid Helium-3. Journal of Low Temperature Physics, 2005, 138, 783-788.	0.6	17

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73	Nucleation of 4He Crystal at Melting Pressure by Acoustic Waves. Journal of Low Temperature Physics, 2005, 138, 835-840.	0.6	0
74	SH-SAW Sensor for Superfluid 3He. Journal of Low Temperature Physics, 2005, 138, 893-898.	0.6	4
75	Observation of Surface Andreev Bound States of SuperfluidHe3by Transverse Acoustic Impedance Measurements. Physical Review Letters, 2005, 95, 075301.	2.9	64
76	Nucleation of crystals and superfluid droplets inHe4induced by acoustic waves. Physical Review B, 2005, 71, .	1.1	15
77	Dynamics and morphology of superfluid bubbles inHe4quantum crystals. Physical Review E, 2004, 70, 021606.	0.8	10
78	Nucleation of Solid4He by Acoustic Waves. Journal of Low Temperature Physics, 2004, 134, 145-150.	0.6	6
79	Solid-Liquid Interface Motion of4He in an Acoustic Field. Journal of Low Temperature Physics, 2004, 134, 157-162.	0.6	1
80	Application of Surface Acoustic Wave Sensors for Liquid Helium-4 and Helium-3. Journal of Low Temperature Physics, 2004, 134, 945-958.	0.6	13
81	Nucleation of crystals and superfluid droplets in4He by heat pulse. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3003-3006.	0.8	0
82	Orientation dependence of interface motion inHe4crystals induced by acoustic waves. Physical Review B, 2004, 70, .	1.1	19
83	Velocity and damping of the SH-SAW in normal liquid. Physica B: Condensed Matter, 2003, 329-333, 116-117.	1.3	2
84	Acoustic properties of liquid measured by Rayleigh-SAW. Physica B: Condensed Matter, 2003, 329-333, 234-235.	1.3	2
85	Melting and growth of solid by ultrasound. Physica B: Condensed Matter, 2003, 329-333, 364-365.	1.3	1
86	Sound velocity of high-strength polymer with negative thermal expansion coefficient. Physica B: Condensed Matter, 2003, 329-333, 1664-1665.	1.3	3
87	Interface Motion and Nucleation of Solid Helium-4 Induced by Acoustic Waves. Physical Review Letters, 2003, 90, 075301.	2.9	33
88	Manipulation of a 4He solidâ€“liquid interface by acoustic radiation pressure. Low Temperature Physics, 2003, 29, 492-494.	0.2	3
89	Temperature Dependence of Sound Velocity in High-Strength Fiber-Reinforced Plastics. Japanese Journal of Applied Physics, 2003, 42, 5205-5207.	0.8	11
90	Melting by sound in solid. Physica B: Condensed Matter, 2002, 316-317, 613-615.	1.3	0

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91	Sound-induced melting of solid 4He in a superfluid. Journal of Crystal Growth, 2002, 237-239, 47-50.	0.7	0
92	Melting of Solid 4He by Ultrasound at 1.2 K. Journal of Low Temperature Physics, 2002, 126, 39-44.	0.6	4
93	Acoustics of a â€œDirtyâ€•Fermi Liquid: 3He in Aerogel. Journal of Low Temperature Physics, 2001, 122, 1-10.	0.6	12
94	Modification of the Superfluid3HePhase Diagram by Impurity Scattering. Physical Review Letters, 2001, 87, 035701.	2.9	38
95	Sound velocity measurement of nuclear-ordered U2D2 solid 3He along the melting curve. Physica B: Condensed Matter, 2000, 280, 140-141.	1.3	1
96	The pathlength distribution of simulated aerogels. Physica B: Condensed Matter, 2000, 284-288, 289-290.	1.3	30
97	Sound Velocity Measurements of Nuclear-Ordered Solid3Healong the Melting Curve. Physical Review Letters, 2000, 85, 2977-2980.	2.9	7
98	High-Frequency Acoustics of3Hein Aerogel. Physical Review Letters, 2000, 85, 4325-4328.	2.9	26
99	Sound Velocity of Solid 3He in the Nuclear-ordered U2D2 Phase. Journal of Low Temperature Physics, 1998, 113, 763-768.	0.6	47
100	Nuclear spin dynamics of nuclear-ordered solid3He in the low field phase. European Physical Journal D, 1996, 46, 2995-3002.	0.4	0
101	Spin dynamics and onset of Suhl instability in bcc solid3He in the nuclear-ordered U2D2 phase. Journal of Low Temperature Physics, 1996, 105, 67-92.	0.6	60
102	Crystal growth of U2D2 solid3He. Journal of Low Temperature Physics, 1994, 94, 377-383.	0.6	63
103	Non-linear spin dynamics in U2D2 phase of nuclear ordered solid3He. Physica B: Condensed Matter, 1994, 194-196, 929-930.	1.3	1
104	Spin dynamics in U2D2 solid3He. Journal of Low Temperature Physics, 1992, 89, 365-373.	0.6	5