

Koichi Matsumoto

List of Publications by Year in descending order

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87
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520
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#	ARTICLE	IF	CITATIONS
1	Active magnetic regenerative refrigeration using superconducting solenoid for hydrogen liquefaction. Applied Physics Express, 2022, 15, 053001.	1.1	16
2	Thermal and electrical conductivity of magnetic refrigerant RT ₂ Laves compounds (R: Rare earth; T: Al). Tj ETQq0 0 0.9 BT /Overlock 10 T	0.9	1
3	Magnetocaloric effect in single crystal GdT _{0.9} O ₃ . Cryogenics, 2019, 101, 58-62.	0.9	17
4	Superfluidity of ⁴ He in dense aerogel studied using quartz tuning fork. Journal of Physics: Conference Series, 2018, 969, 012019.	0.3	0
5	Thermal expansion and magnetostriction of clathrate compound Pr ₃ Pd ₂₀ Ge ₆ . Journal of Physics: Conference Series, 2018, 969, 012120.	0.3	0
6	Magnetocaloric effect, thermal conductivity, and magnetostriction of epoxy-bonded La(Fe _{0.88} Si _{0.12}) ₁₃ hydrides. Journal of Physics: Conference Series, 2017, 897, 012011.	0.3	0
7	Non-Fermi-Liquid Behavior in CeRu ₂ Si ₂ at Ultralow Temperatures Studied by Thermal Expansion and Magnetostriction. Journal of the Physical Society of Japan, 2017, 86, 124712.	0.7	1
8	Thermal and magnetic properties of regenerator material Gd ₂ O ₂ S. Journal of Physics: Conference Series, 2017, 897, 012010.	0.3	3
9	Large magnetocaloric effect in sintered ferromagnetic EuS. Cryogenics, 2016, 79, 45-48.	0.9	9
10	Revised Measurements and Interpretation of Magnetic Properties of Oriented CeF ₃ Single Crystals. Journal of Low Temperature Physics, 2016, 185, 603-608.	0.6	6
11	Magnetic Refrigerator for Hydrogen Liquefaction. TEION KOGAKU (Journal of Cryogenics and) Tj ETQq1 1 0.784314 BT /Overlock 10 T	0.7	1
12	Thermal Expansion and Magnetostriction of Heavy Fermion CeRu ₂ Si ₂ at Millikelvin Temperatures. Physics Procedia, 2015, 75, 158-165.	1.2	0
13	Magnetic ordering of hyperfine-coupled nuclear and 4f-electron moments in the clathrate compound Pr ₃ Pd ₂₀ Ge ₆ . Physical Review B, 2014, 90, .	1.1	3
14	Nuclear demagnetization for ultra-low temperatures. Cryogenics, 2014, 62, 213-220.	0.9	5
15	Magnetocaloric materials and the optimization of cooling power density. Cryogenics, 2014, 62, 150-162.	0.9	46
16	Thermal expansion and magnetostriction measurements using a high sensitive capacitive dilatometer at millikelvin temperatures. Journal of Physics: Conference Series, 2014, 568, 032001.	0.3	4
17	Thermal expansion and magnetostriction measurements using a Quantum Design Physical Property Measurement System. Journal of Physics: Conference Series, 2014, 568, 032002.	0.3	2
18	A modeling study on the geometry of active magnetic regenerator. , 2012, , .		9

#	ARTICLE	IF	CITATIONS
19	Numerical simulation for hydrogen magnetic refrigeration. AIP Conference Proceedings, 2012, , .	0.3	2
20	Magnetocaloric effect of R_2M ($R = \text{rare earth}, M = \text{Ni, Al}$) intermetallic compounds made by centrifugal atomization process for magnetic refrigerator. Journal of Physics: Conference Series, 2012, 400, 052020.	0.3	8
21	Ultrasound propagation in dense aerogels filled with liquid ^4He . Journal of Physics: Conference Series, 2012, 400, 012045.	0.3	0
22	A compact capacitive dilatometer for thermal expansion and magnetostriction measurements at millikelvin temperatures. Cryogenics, 2012, 52, 452-456.	0.9	9
23	Magnetocaloric effect of $(\text{Er}_{1-x}\text{R}_x)\text{Co}_2$ ($R = \text{Ho, Dy}$) for magnetic refrigeration between 20 and 80K. Cryogenics, 2011, 51, 494-498.	0.9	34
24	Numerical analysis of active magnetic regenerators for hydrogen magnetic refrigeration between 20 and 77K. Cryogenics, 2011, 51, 353-357.	0.9	17
25	Capacitive level meter for liquid hydrogen. Cryogenics, 2011, 51, 114-115.	0.9	10
26	Numerical modeling on a reciprocating active magnetic regenerator refrigeration in room temperature. Cryogenics, 2011, 51, 347-352.	0.9	8
27	Ultrasound Study of the Solid-Liquid Transition and Solid-Liquid Interface of ^4He in Aerogels. Journal of the Physical Society of Japan, 2009, 78, 034601.	0.7	11
28	Magnetocaloric Effect, Specific Heat, and Entropy of Iron-Substituted Gadolinium Gallium Garnets $\text{Gd}_3(\text{Ga}_{1-x}\text{Fe}_x)_5\text{O}_{12}$. Japanese Journal of Applied Physics, 2009, 48, 113002.	0.8	21
29	Frequency dependence of fast mode ultrasound attenuation of liquid ^4He in aerogel. Journal of Physics: Conference Series, 2009, 150, 032054.	0.3	0
30	Magnetic properties of enriched ^{195}Pt metals. Journal of Physics: Conference Series, 2009, 150, 042107.	0.3	0
31	Acoustic properties of superfluid ^3He in 97% aerogel. Journal of Physics: Conference Series, 2009, 150, 032114.	0.3	0
32	Magnetic susceptibility of PrMg_3 at ultra low temperatures. Journal of Physics: Conference Series, 2009, 150, 042241.	0.3	2
33	Magnetic refrigerator for hydrogen liquefaction. Journal of Physics: Conference Series, 2009, 150, 012028.	0.3	37
34	Magnetic properties of Dy^{3+} ions and crystal field characterization in $\text{YF}_3:\text{Dy}^{3+}$ and DyF_3 single crystals. Journal of Physics Condensed Matter, 2008, 20, 485220.	0.7	13
35	Anisotropic magnetization of the Van Vleck paramagnet LiTmF_4 at low temperatures and high magnetic fields. Journal of Physics Condensed Matter, 2008, 20, 395223.	0.7	4
36	Novel Quantum Criticality in CeRu_2Si_2 Absolute Zero Observed by Thermal Expansion and Magnetostriction. Physical Review Letters, 2008, 101, 256402.	2.9	13

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37	DEVELOPMENT OF A MAGNETIC REFRIGERATOR FOR HYDROGEN LIQUEFACTION. AIP Conference Proceedings, 2008, , .	0.3	19
38	Possible Sound Mode Conversion in "Superfluid 4He-97% Open Aerogel" System. Journal of Low Temperature Physics, 2007, 148, 615-620.	0.6	10
39	Magnetocaloric Effect of Polycrystal GdLiF4 for Adiabatic Magnetic Refrigeration. AIP Conference Proceedings, 2006, , .	0.3	24
40	Magnetic Properties of CeRu2Si2 at Small Magnetic Fields and Ultralow Temperatures. AIP Conference Proceedings, 2006, , .	0.3	0
41	Solidification and Melting of 4He in Aerogel Observed by Ultrasound Propagation. AIP Conference Proceedings, 2006, , .	0.3	0
42	Magnetocaloric Effect of RCo2 (R: Er, Ho, Dy) Compounds for Regenerative Magnetic Refrigeration. AIP Conference Proceedings, 2006, , .	0.3	7
43	Development of a Magnetic Refrigerator for Hydrogen Liquefaction. AIP Conference Proceedings, 2006, , .	0.3	8
44	Design and Build of Magnetic Refrigerator for Hydrogen Liquefaction. AIP Conference Proceedings, 2006, , .	0.3	5
45	Superfluid transition and solidification of 4He in aerogel. Journal of Physics and Chemistry of Solids, 2005, 66, 1486-1489.	1.9	1
46	Pressure dependence of the sound velocity of 4He in aerogel. Journal of Physics and Chemistry of Solids, 2005, 66, 1506-1508.	1.9	7
47	Dissipation Mechanisms near the SuperfluidHe3Transition in Aerogel. Physical Review Letters, 2004, 92, 195301.	2.9	4
48	Thermal Property of Magnetic Materials for Hydrogen Magnetic Refrigeration and Effect of Magnetic Field on Them. IEEE Transactions on Applied Superconductivity, 2004, 14, 1734-1737.	1.1	5
49	Magnetic Entropy Change of Magnetic Refrigerants With First Order Phase Transition Suitable for Hydrogen Refrigeration. IEEE Transactions on Applied Superconductivity, 2004, 14, 1738-1741.	1.1	4
50	Porosity dependence of sound propagation in liquid-4He-filled aerogel. JETP Letters, 2004, 80, 109-113.	0.4	8
51	Acoustic properties of 97% porous aerogel at low temperatures. Physica B: Condensed Matter, 2003, 329-333, 309-310.	1.3	4
52	Ultrasound velocity and attenuation of liquid in aerogel. Physica B: Condensed Matter, 2003, 329-333, 335-336.	1.3	3
53	Magnetic properties of CeRu2Si2 at ultra low temperatures. Physica B: Condensed Matter, 2003, 329-333, 489-490.	1.3	1
54	Magnetic entropy change of a rare earth garnet (Gd0.5Dy0.5)3(Ga0.875Fe0.125)5O12. Physica B: Condensed Matter, 2003, 329-333, 1261-1262.	1.3	3

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55	NMR study of enriched ^{195}Pt metal. <i>Physica B: Condensed Matter</i> , 2003, 329-333, 1101-1102.	1.3	3
56	Magneto caloric effect in $(\text{Dy}_{1-x}\text{Gd}_x)_3\text{Ga}_5\text{O}_{12}$ for adiabatic demagnetization refrigeration. <i>Physica B: Condensed Matter</i> , 2003, 329-333, 1656-1657.	1.3	37
57	Hyperfine-enhanced nuclear spin order of PrPb_3 . <i>Physica B: Condensed Matter</i> , 2003, 329-333, 637-638.	1.3	7
58	ac susceptibility and static magnetization measurements of CeRu_2Si_2 at small magnetic fields and ultralow temperatures. <i>Physical Review B</i> , 2003, 67, .	1.1	58
59	Sound velocity of liquid ^4He in aerogel. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 101-102.	1.3	4
60	Density of liquid ^3He in 8 T magnetic field. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 194-195.	1.3	1
61	Dynamics of the BCC-HCP transition of solid ^4He . <i>Physica B: Condensed Matter</i> , 2000, 284-288, 347-348.	1.3	4
62	Surface Tension of Liquid ^3He Under 8 T Magnetic Field. <i>Journal of Low Temperature Physics</i> , 1998, 113, 567-572.	0.6	3
63	Suppression of ^3He superfluidity by aerogel. <i>Journal of Non-Crystalline Solids</i> , 1998, 225, 205-209.	1.5	0
64	Quantum Phase Transition of ^3He in Aerogel at a Nonzero Pressure. <i>Physical Review Letters</i> , 1997, 79, 253-256.	2.9	115
65	Optimum structure of multilayer regenerator with magnetic materials. <i>Cryogenics</i> , 1997, 37, 11-14.	0.9	11
66	Pressure dependence of quantum zero sound attenuation in normal liquid ^3He . <i>European Physical Journal D</i> , 1996, 46, 63-64.	0.4	44
67	Sound velocity in normal liquid ^3He under 8 tesla. <i>European Physical Journal D</i> , 1996, 46, 65-66.	0.4	42
68	An experiment to measure the effect of magnetic fields on the superfluid fraction and transition temperature of ^3He in aerogel. <i>European Physical Journal D</i> , 1996, 46, 125-126.	0.4	0
69	Precise measurement of zero sound velocity in normal ^3He . <i>Physica B: Condensed Matter</i> , 1996, 219-220, 675-677.	1.3	0
70	Zero and first sound velocity and Fermi liquid parameter F_2 in normal ^3He . <i>Journal of Low Temperature Physics</i> , 1996, 102, 227-235.	0.6	46
71	Cryocooler with Magnetic Regenerator Materials Review Article. Optimum Structure of Multilayer Regenerator with Magnetic Materials.. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity)</i> Tj ETQq1 1 07.84314 rgBT /Oved	0.7	0
72	New Magnetic Regenerator Materials with Broad Peaks of Magnetic Specific Heat. <i>Japanese Journal of Applied Physics</i> , 1995, 34, L1003-L1006.	0.8	2

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73	Heat capacity of ternary compounds RNiGe(R=Gd, Dy, Er, and Y). Journal of Applied Physics, 1995, 78, 7410-7412.	1.1	8
74	Observation of quantum limit of zero sound absorption in normal ³ He at 400 MHz. Physica B: Condensed Matter, 1994, 194-196, 743-744.	1.3	2
75	Installation of 4K refrigerator in dilution refrigerator with nuclear demagnetization apparatus. Cryogenics, 1993, 33, 1018-1022.	0.9	4
76	Electrochemical Behavior of Ti ³⁺ in LiCl-KCl Eutectic Melt. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1992, 56, 399-405.	0.2	1
77	New Nonlinear Phenomena in Focused Acoustic Beam in Pressurized Superfluid ⁴ He. Journal of the Physical Society of Japan, 1991, 60, 360-363.	0.7	6
78	Nonlinear resolution improvement and second harmonic generation of a pressurized superfluid ⁴ He acoustic microscope. Applied Physics Letters, 1991, 59, 908-910.	1.5	9
79	Observation of new nonlinear phenomena in focused acoustic beam in pressurized superfluid helium-4. Physica B: Condensed Matter, 1990, 165-166, 131-132.	1.3	14
80	Thermodynamic analysis of magnetically active regenerator from 30 to 70 K with a Brayton-like cycle. Cryogenics, 1990, 30, 840-845.	0.9	23
81	Thermal regenerator analysis: analytical solution for effectiveness and entropy production in regenerative process. Cryogenics, 1989, 29, 888-894.	0.9	9
82	An Ericsson Magnetic Refrigerator for Low Temperature. Advances in Cryogenic Engineering, 1988, , 743-750.	0.3	13
83	Investigation of the Magnetic Refrigerant for the Ericsson Magnetic Refrigerator. Japanese Journal of Applied Physics, 1987, 26, 1673.	0.8	9
84	New Complex Magnetic Material for Ericsson Magnetic Refrigerator. Japanese Journal of Applied Physics, 1987, 26, 1677.	0.8	2
85	A new method of producing the magnetic refrigerant suitable for the ericsson magnetic refrigeration. IEEE Transactions on Magnetics, 1987, 23, 2847-2849.	1.2	20
86	A study of ericsson magnetic refrigerator for low temperature - Design and test of a refrigerator.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 1987, 22, 368-375.	0.1	1