Atsushi Goto

List of Publications by Year
in descending order

120 papers	1,352 citations	394421 19 h-index	395702 33 g-index
120 all docs	120 docs citations	120 times ranked	1457 citing authors

#	Article	IF	Citations
1	Enhancing Radio-frequency Pulses Using a Field Shielding Device in a Solid-state NMR Sample Tube. Chemistry Letters, 2022, 51, 574-576.	1.3	1
2	Optically induced nuclear spinâ€“spin couplings in GaAs manifested by spin echo decays under optical pumping. Npj Quantum Information, 2022, 8, .	6.7	3
3	High-Temperature Pulsed-Field-Gradient 7Li-NMR Measurements of Li2CO3 over 700 K. Analytical Sciences, 2021, 37, 1477-1479.	1.6	1
4	Experimental Comparison of Solid-state NMR Spectra for Quadrupolar Nuclei Using Various Spin-echo Sequences. Chemistry Letters, 2020, 49, 68-70.	1.3	0
5	Highly swellable hydrogel of regioselectively aminated (1â†’3)-Î±-d-glucan crosslinked with ethylene glycol diglycidyl ether. Carbohydrate Polymers, 2020, 237, 116189.	10.2	14
6	Field-stepwise-swept QCPMG solid-state 115In NMR of indium oxide. Solid State Nuclear Magnetic Resonance, 2020, 109, 101688.	2.3	2
7	47,49Ti solid-state NMR and DFT study of Ziegler-Natta catalyst: Adsorption of TiCl4 molecule onto the surface of MgCl2. Journal of Physics and Chemistry of Solids, 2019, 135, 109088.	4.0	14
8	Relationship between Strength in Magnetic Field and Spectral Width of Solid-state ³³S NMR in an Organosulfur Compound. Chemistry Letters, 2019, 48, 601-603.	1.3	2
9	⁷¹Ga NMR characterization of an n-doped free-standing gallium nitride wafer. Japanese Journal of Applied Physics, 2019, 58, 031003.	1.5	0
10	Chemical Shift Tensor Analysis of Uniaxially Oriented Cellulose Microcrystals. Zairyo/Journal of the Society of Materials Science, Japan, 2019, 68, 643-648.	0.2	0
11	Interface-sensitive nuclear magnetic resonance at a semiconductor heterojunction using hyperpolarization. Physical Review Materials, 2017, 1, .	2.4	2
12	Development of an NMR Spectrometer Operated beyond 1 GHz. TEION KOGAKU (Journal of Cryogenics) Tj ETQq0 0 0 rgBT /Overlock 10	0.1	0
13	Efficiency of High Magnetic Fields in Solid-state NMR. Chemistry Letters, 2016, 45, 209-210.	1.3	11
14	24 T High-Resolution and -Sensitivity Solid-State NMR Measurements of Low-Gamma Half-Integer Quadrupolar Nuclei 35Cl and 37Cl. Analytical Sciences, 2016, 32, 1339-1345.	1.6	5
15	Successful Upgrading of 920-MHz NMR Superconducting Magnet to 1020 MHz Using Bi-2223 Innermost Coil. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	31
16	Operation of 1020-MHz NMR Superconducting Magnet. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	10
17	Achievement of 1020 MHz NMR. Journal of Magnetic Resonance, 2015, 256, 30-33.	2.1	127
18	1020 MHz single-channel proton fast magic angle spinning solid-state NMR spectroscopy. Journal of Magnetic Resonance, 2015, 261, 1-5.	2.1	38

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19	NMR study for electrochemically inserted Na in hard carbon electrode of sodium ion battery. Journal of Power Sources, 2013, 225, 137-140.	7.8	165
20	NMR study of thermally activated paramagnetism in metallic low-silica X zeolite filled with sodium atoms. Physical Review B, 2013, 87, .	3.2	14
21	Fabrication of a porous alumina mask on the large surface area of a semi-insulating semiconductor substrate. Journal of the Ceramic Society of Japan, 2013, 121, 516-519.	1.1	2
22	NMR property of rubidium loaded sodalite. Journal of Physics and Chemistry of Solids, 2012, 73, 1534-1537.	4.0	5
23	Analysis of bis(trifluoromethylsulfonyl)imide-doped paramagnetic graphite intercalation compound using 19F very fast magic angle spinning nuclear magnetic resonance. Carbon, 2011, 49, 4064-4066.	10.3	2
24	Optical-Pumping Double-Nuclear-Magnetic-Resonance System with a Giffordâ€“McMahon Cryocooler. Japanese Journal of Applied Physics, 2011, 50, 126701.	1.5	2
25	Optical switching of nuclear spinâ€“spin couplings in semiconductors. Nature Communications, 2011, 2, 378.	12.8	12
26	Optical-Pumping Double-Nuclear-Magnetic-Resonance System with a Giffordâ€“McMahon Cryocooler. Japanese Journal of Applied Physics, 2011, 50, 126701.	1.5	1
27	Development of a Flux Stabilizer for Solid-state Nuclear Magnetic Resonance with a Hybrid Magnet. Chemistry Letters, 2010, 39, 1307-1308.	1.3	0
28	Development of a Flux Stabilizer for NMR Measurements with a Hybrid Magnet. Journal of Low Temperature Physics, 2010, 159, 288-291.	1.4	1
29	NMR property of sodalite loaded with potassium. Journal of Physics and Chemistry of Solids, 2010, 71, 638-641.	4.0	6
30	²⁷Al NMR/NQR Studies of YbAl₃C₃. Journal of the Physical Society of Japan, 2009, 78, 014709.	1.6	3
31	High-Field Nuclear Magnetic Resonance with a Newly Designed Hybrid Magnet System. Japanese Journal of Applied Physics, 2009, 48, 010220.	1.5	4
32	Temperature dependence of the optical nuclear orientation in InP. Journal of Physics: Conference Series, 2009, 150, 022018.	0.4	1
33	Molecular dynamics and structural phase transition in C₆₀nanowhiskers. Journal of Physics: Conference Series, 2009, 159, 012022.	0.4	3
34	Surface-sensitive NMR in optically pumped semiconductors. Applied Physics A: Materials Science and Processing, 2008, 93, 533-536.	2.3	3
35	Oneâ€Dimensional Bromoâ€Bridged Ni^{III} Complexes [Ni(<i>S,S</i>â€bn)₂Br]Br₂ (<i>S</i>,<i>S</i>â€bn=2<i>S</i>,3<i>S</i>â€diaminobutane): Synthesis, Physical Properties, and Electrostatic Carrier Doping. Chemistry - A European Journal, 2008, 14, 472-477.	3.3	27
36	Dynamics of electron-nuclear and heteronuclear polarization transfers in optically oriented semi-insulating InP:Fe. Physical Review B, 2008, 77, .	3.2	5

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37	NMR Study of YbAl3C3in High Magnetic Field. Journal of the Physical Society of Japan, 2008, 77, 291-293.	1.6	2
38	NUCLEAR HYPERPOLARIZATION AND POLARIZATION TRANSFER SYSTEM FOR SEMICONDUCTORS. International Journal of Modern Physics B, 2007, 21, 1664-1668.	2.0	1
39	Magic-angle-spinning NMR at 30 T with a Hybrid Magnet. Chemistry Letters, 2007, 36, 884-885.	1.3	3
40	NMR Evidence for Field-induced Magnetic Ordering at 30 T in the Haldane Compound PbNi2V2O8. Journal of the Physical Society of Japan, 2007, 76, 064705.	1.6	1
41	Anomalous property of the spinâ€"spin relaxation of 27Al NMR in dehydrated zeolite A. Chemical Physics Letters, 2007, 436, 80-83.	2.6	0
42	Development of a dynamic nuclear polarization system based on the optical pumping method. Journal of Magnetism and Magnetic Materials, 2007, 310, 2716-2718.	2.3	0
43	NMR property of low silica X zeolite with incorporated potassium. Journal of Magnetism and Magnetic Materials, 2007, 310, e307-e309.	2.3	4
44	NMR study of field-induced magnetic ordering in the Haldane system. Journal of Magnetism and Magnetic Materials, 2007, 310, 1242-1244.	2.3	2
45	High Field NMR Study of Yb0.9Y0.1InCu4 up to 30 T. Journal of the Physical Society of Japan, 2006, 75, 084714.	1.6	0
46	Trial measurements of MAS-NMR with a hybrid magnet. Journal of Physics: Conference Series, 2006, 51, 573-575.	0.4	2
47	Anisotropic indirect nuclear spinâ€"spin coupling in InP: 31P CP NMR study under slow MAS condition. Chemical Physics Letters, 2006, 419, 28-32.	2.6	6
48	High-field In-NMR in YbYInCu. Physica B: Condensed Matter, 2006, 378-380, 734-735.	2.7	0
49	NMR property of arrayed K clusters in zeolite LTA with Si/Al=1.5. Journal of Physics and Chemistry of Solids, 2006, 67, 1063-1066.	4.0	5
50	Properties of a novel hard-carbon optimized to large size Li ion secondary battery studied by 7Li NMR. Journal of Power Sources, 2006, 162, 1322-1328.	7.8	79
51	75As,113,115In, and123Sb NMR Studies of Indirect Nuclear Spinâ€"Spin Coupling in InX(X=As, Sb). Japanese Journal of Applied Physics, 2006, 45, 651-655.	1.5	4
52	Optical-pumping double-resonance NMR system for semiconductors. Review of Scientific Instruments, 2006, 77, 093904.	1.3	18
53	Nuclear Spin Polarizer for Solid-State NMR Quantum Computers. AIP Conference Proceedings, 2005, , .	0.4	0
54	High-Field NMR up to 30 T with a Hybrid Magnet. Japanese Journal of Applied Physics, 2005, 44, 4194-4199.	1.5	19

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55	Indirect Spinâ€"Spin Coupling in InP Investigated by Triple-Resonance NMR under Magic-Angle Spinning. Journal of the Physical Society of Japan, 2004, 73, 1045-1049.	1.6	6
56	Shallow Donor Impurity States of InP Studied by31P NMR Spectra under Magic-Angle Spinning. Japanese Journal of Applied Physics, 2004, 43, L1387-L1389.	1.5	3
57	NMR Measurements with a Hybrid Magnet. Japanese Journal of Applied Physics, 2004, 43, L1020-L1022.	1.5	4
58	Optical pumping NMR in the compensated semiconductor InP:Fe. Physical Review B, 2004, 69, .	3.2	30
59	Development of an Optical Pumping Nuclear Spin Polarizer. IEEE Transactions on Applied Superconductivity, 2004, 14, 1635-1638.	1.7	5
60	NMR at 23.5 T by a Resistive Magnet in NIMS. IEEE Transactions on Applied Superconductivity, 2004, 14, 1632-1634.	1.7	2
61	Indirect nuclear spinâ€"spin coupling in InP studied by CP/MAS NMR. Physica B: Condensed Matter, 2004, 346-347, 476-478.	2.7	2
62	Overview of the development of high-resolution NMR in NIMS. Physica B: Condensed Matter, 2004, 346-347, 528-530.	2.7	1
63	Efficiency of the optical pumping qubit initializer for solid-state NMR quantum computers. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1669-E1670.	2.3	3
64	High field NMR up to 23.5T with a resistive magnet. Physica B: Condensed Matter, 2004, 346-347, 531-533.	2.7	3
65	The NQR Observation of Spin-Peierls Transition in an Antiferromagnetic MX-Chain Complex [NiBr(chxn)2]Br2. Journal of the American Chemical Society, 2004, 126, 1614-1615.	13.7	61
66	Trial Measurement of NMR in a Bitter Magnet of NIMS. Chemistry Letters, 2004, 33, 1502-1503.	1.3	7
67	NMR study of Rb clusters in zeolite LTA. Physica B: Condensed Matter, 2003, 327, 72-78.	2.7	7
68	NMR study on the quantum spin ladder NH4CuCl3. Physica B: Condensed Matter, 2003, 329-333, 977-978.	2.7	7
69	Optically pumped NMR in semiconductor InP. Physica B: Condensed Matter, 2003, 329-333, 1235-1236.	2.7	9
70	A decoupling-free solid-state NMR quantum computer. Physica B: Condensed Matter, 2003, 329-333, 1621-1622.	2.7	1
71	Cu?O?Cu bond-angle dependence of magnetic interactions in antiferromagnetic cuprates. Physica B: Condensed Matter, 2003, 329-333, 765-766.	2.7	7
72	Magnetic Dimensionality of the Antiferromagnet CuO. Journal of the Physical Society of Japan, 2003, 72, 2165-2168.	1.6	22

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73	Spin susceptibility and superexchange interaction in the antiferromagnet CuO. Physical Review B, 2003, 68, .	3.2	51
74	Decoupling-free NMR quantum computer on a quantum spin chain. Physical Review A, 2003, 67, .	2.5	23
75	Optical Pumping System for a Qubit Initializer in a Solid-state NMR Quantum Computer. Japanese Journal of Applied Physics, 2003, 42, 2864-2866.	1.5	14
76	Homonuclear and Heteronuclear Indirect Spin-Spin Couplings in InP Studied Using31P Cross Polarization NMR Spectra under Magic-Angle Spinning. Japanese Journal of Applied Physics, 2003, 42, L1411-L1413.	1.5	6
77	Origin of the Enhanced Copper Spin Echo Decay Rate in the Pseudogap Regime of the Multilayer High-TcCuprates. Physical Review Letters, 2002, 89, 127002.	7.8	6
78	High-magnetic-field NMR studies ofLiVGe2O6:A quasi-one-dimensional spinS=1system. Physical Review B, 2002, 65, .	3.2	18
79	Observation of a High Resolution Proton NMR with a 920 MHz Superconducting Magnet. Chemistry Letters, 2002, 31, 370-371.	1.3	2
80	SPIN DENSITY WAVE ORDER AND FLUCTUATIONS IN (TMTSF)2PF6 AT VERY HIGH MAGNETIC FIELDS. International Journal of Modern Physics B, 2002, 16, 3252-3257.	2.0	4
81	Achievement of a 920-MHz High Resolution NMR. Journal of Magnetic Resonance, 2002, 156, 318-321.	2.1	29
82	Investigation of nuclear-spin couplings in the lithium fluorides as possible candidates for crystal nuclear magnetic resonance quantum computing devices. Applied Physics A: Materials Science and Processing, 2002, 74, 73-77.	2.3	6
83	Development of a nuclear spin polarizer with the optical pumping method. Superlattices and Microstructures, 2002, 32, 303-307.	3.1	6
84	Possible 6-qubit NMR quantum computer device material; simulator of the NMR line width. Superlattices and Microstructures, 2002, 32, 309-312.	3.1	1
85	An NMR quantum computer of the semiconductor CdTe. Superlattices and Microstructures, 2002, 32, 313-316.	3.1	7
86	NMR study of YP and YPO4 as 2-qubits quantum computers. Superlattices and Microstructures, 2002, 32, 317-322.	3.1	1
87	Magnon-Mediated NMR Quantum Gates in a One-Dimensional Antiferromagnet. Journal of the Physical Society of Japan, 2002, 71, 2125-2128.	1.6	4
88	Charge Segregation in the Metal-Insulator Transition of the Thiospinel Cu1-xZnxIr2S4. Journal of the Physical Society of Japan, 2001, 70, 9-12.	1.6	17
89	Progress of solid-state quantum computers at NRIM. Physica B: Condensed Matter, 2001, 298, 567-572.	2.7	2
90	Investigation for the possible crystal NMR quantum computing device with BaLiF3. Physica B: Condensed Matter, 2001, 298, 585-589.	2.7	5

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91	Electrochemical Measurement of Dissolved Oxygen from Atmosphere in a Highly Homogeneous Magnetic Field. Chemistry Letters, 2000, 29, 656-657.	1.3	3
92	Magnetic scaling in the underdoped cuprates studied by NMR. Physica B: Condensed Matter, 2000, 281-282, 810-811.	2.7	1
93	Superconductivity in the thiospinel, Cu0.7Zn0.3Ir2S4 studied by Cu-NMR. Physica C: Superconductivity and Its Applications, 2000, 341-348, 737-738.	1.2	7
94	Experimental aspects of an NMR quantum computer with CeP. Applied Physics A: Materials Science and Processing, 2000, 70, 359-360.	2.3	4
95	Zigzag Charge Ordering in Î±â€²-NaV 2O 5. Journal of the Physical Society of Japan, 2000, 69, 2751-2754.	1.6	27
96	Magnetic scaling in the underdoped superconductorHg0.8Re0.2Ba2Ca2Cu3O8studied by63CuNMR. Physical Review B, 1999, 59, R14169-R14172.	3.2	3
97	Spin susceptibility of the quasi-one-dimensional antiferromagnet CuO. Physica B: Condensed Matter, 1999, 259-261, 573-575.	2.7	4
98	Interrelation between the spin pseudogap and the staggered susceptibility in bilayered cuprates. Physica B: Condensed Matter, 1999, 259-261, 468-470.	2.7	2
99	Anisotropy Study of the Spin-Lattice Relaxation Rates at the Cu(1) Chain Sites of YBa2Cu3O7and YBa2Cu4O8. Journal of the Physical Society of Japan, 1998, 67, 759-762.	1.6	3
100	Roles of the interlayer spin correlations in the Cu NMR relaxation rates of bi- and tri-layered high-Tccuprates. Physical Review B, 1998, 57, 7977-7985.	3.2	9
101	Anomalous Metallic State Coexisting with the Charge Density Wave in Rb3Cu8S6Studied by NMR and Spin Echo Double Resonance (SEDOR). Journal of the Physical Society of Japan, 1998, 67, 1560-1563.	1.6	0
102	Phase diagram for the spin pseudogap inLaBa2Cu3Oystudied by NMR. Physical Review B, 1997, 55, 12736-12741.	3.2	6
103	Giant magnetoresistance and microstructure in Crî—¸Fe and Cuî—¸Co heterogeneous alloys. Thin Solid Films, 1996, 275, 106-110.	1.8	20
104	NMR and magnetic susceptibility in superconducting and antiferromagnetic Ga-based cuprates Y1â^'Ca Sr2Cu2GaO7 (0â‰xâ‰0.3). Physica C: Superconductivity and Its Applications, 1996, 257, 86-98.	1.2	13
105	Carrier Concentration Dependence of the Spin Pseudo-Gap Behaviors in YBa2Cu3Oy. Journal of the Physical Society of Japan, 1996, 65, 3043-3048.	1.6	22
106	NMR study of the anomalous metallic state below the CDW transition temperature inRb3Cu8S6: A possibility of self-organized spinless solitons. Physical Review B, 1996, 53, R13223-R13226.	3.2	3
107	NMR studies of magnetic multilayers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1995, 31, 177-185.	3.5	7
108	NMR Study of Anomalous CDW Behaviors in a Layered Copper Sulfide, K3Cu8S6. Journal of the Physical Society of Japan, 1995, 64, 1223-1229.	1.6	7

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109	Correlation between the interface structure and magnetic and transport properties for Co/Cu(110) andNi8Fe2/Cu/Co/Cu(110) superlattices. Physical Review B, 1995, 52, 6500-6512.	3.2	23
110	Magnon-excitation contribution to the interface magnetization in Co/Cu superlattices. Physical Review B, 1995, 51, 3930-3932.	3.2	5
111	Carrier Concentration Dependence of the Pseudo Spin Gap Behavior inLaBa2Cu3Oy. Journal of the Physical Society of Japan, 1995, 64, 367-370.	1.6	8
112	Interface Structure and Magnetic and Transport Properties for Co/Cu(111) Multilayers. Japanese Journal of Applied Physics, 1995, 34, 3088-3092.	1.5	3
113	X-ray diffraction and NMR study on the structure of Co/Cu superlattices with artificially modified interfaces. Physical Review B, 1994, 50, 18580-18585.	3.2	14
114	NMR study of copper in [Ni/Cu] magnetic superlattices. Journal of Magnetism and Magnetic Materials, 1993, 124, 285-292.	2.3	7
115	NMR study of copper in [Ni/Cu], [Co/Cu] magnetic superlattices synthesized by the ion beam sputtering method. Journal of Magnetism and Magnetic Materials, 1993, 126, 358-360.	2.3	6
116	Correlation between the magnetoresistance ratio and the interface structure investigated by 59Co NMR. Journal of Magnetism and Magnetic Materials, 1993, 126, 466-469.	2.3	13
117	The critical thickness of Fe buffer layer in giant magnetoresistance of Co/Cu superlattices. Journal of Magnetism and Magnetic Materials, 1993, 126, 495-497.	2.3	15
118	Correlation between the Magnetoresistance Ratio and the Interface Structure, and Local Strain of Co/Cu Superlattices Investigated by59Co NMR. Journal of the Physical Society of Japan, 1993, 62, 1450-1454.	1.6	35
119	NMR Investigation on the Spin Polarization Oscillation in Cu Layers of [Ni/Cu] Magnetic Superlattices. Journal of the Physical Society of Japan, 1993, 62, 2129-2140.	1.6	31
120	NMR Study of Metallic Thallic Oxides; Tl2O3-Î´. Journal of the Physical Society of Japan, 1992, 61, 1178-1181.	1.6	6