Shintaro Nakamura

List of Publications by Year
in descending order

60	2,624	361413	182427
papers	citations	20 h-index	51 g-index

61	61	61	3219
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electric-field-induced superconductivity in an insulator. Nature Materials, 2008, 7, 855-858.	27.5	864
2	Discovery of superconductivity in KTaO3 by electrostatic carrier doping. Nature Nanotechnology, 2011, 6, 408-412.	31.5	400
3	Quantum Hall effect in a bulk antiferromagnet EuMnBi ₂ with magnetically confined two-dimensional Dirac fermions. Science Advances, 2016, 2, e1501117.	10.3	171
4	Quadrupole-Strain Interaction in Rare Earth Hexaborides. Journal of the Physical Society of Japan, 1994, 63, 623-636.	1.6	137
5	Quadrupolar ordering and magnetic properties of tetragonalTmAu2. Physical Review B, 1998, 58, 6339-6345.	3.2	96
6	Magnetic Phase Diagrams of Kondo Compounds Ce0.75La0.25B6and Ce0.6La0.4B6. Journal of the Physical Society of Japan, 1998, 67, 4243-4250.	1.6	92
7	Magnetic Field-Induced Insulator-Semimetal Transition in a Pyrochlore<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Nd</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:mrow></ Physical Review Letters, 2015, 115, 056402.	7.8	86
8	Low Temperature Properties of the Magnetic Semiconductor TmTe. Journal of the Physical Society of Japan, 1998, 67, 612-621.	1.6	81
9	Magnetic Phase Diagrams of the Dense Kondo Compounds CeB6and Ce0.5La0.5B6. Journal of the Physical Society of Japan, 1995, 64, 3941-3945.	1.6	77
10	Trigonal Lattice Distortion and Ferro-Quadrupole Ordering in Phase IV of CexLa1-xB6(x= 0.75 and 0.70). Journal of the Physical Society of Japan, 2003, 72, 205-208.	1.6	47
11	Observation of Low-Temperature Elastic Softening due to Vacancy in Crystalline Silicon. Journal of the Physical Society of Japan, 2006, 75, 044602.	1.6	44
12	Lattice Instability and Elastic Response in the Heavy Electron System URu2Si2. Journal of the Physical Society of Japan, 1997, 66, 3251-3258.	1.6	40
13	Electron-Strain Interaction in ValenceFluctuation Compound SmB6. Journal of the Physical Society of Japan, 1991, 60, 4311-4318.	1.6	37
14	Spin trimer formation in the metallic compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Gd</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>Ru</mml:mi><mml:mn>2</mml:mn></mml: with a distorted kagome lattice structure. Physical Review B, 2018, 98, .	3.2	37
15	Insulating phase of a two-dimensional electron gas in Mg<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Zn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>O/ZnO heterostructures below<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inlin	3.2	31
16	Low-Temperature Properties of the Dense Kondo System Ce0.5La0.5B6. Journal of the Physical Society of Japan, 1997, 66, 552-555.	1.6	28
17	Elastic Properties of Dense Kondo CompoundsCeNiSn and CePdSn. Journal of the Physical Society of Japan, 1991, 60, 2305-2310.	1.6	26
18			

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19	Ferromagnetism and spin-glass transitions in the Heusler compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ru</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Physical Review B, 2009, 79, .	3.2	21
20	Low-temperature properties of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:m</mml:mfrac></mml:mrow></mml:math> system<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> a distorted kag. Physical Review B, 2015, 91, .	3.2	21
21	Magnetic Anisotropy of the Antiferroquadrupole Phase inCe0.50La0.50B6. Physical Review Letters, 2004, 93, 156409.	7.8	20
22	Evolution of Fermi Surface Properties in CexLa1-xB6 and PrxLa1-xB6. Journal of the Physical Society of Japan, 2006, 75, 114704.	1.6	20
23	Helical Ordering of Spin Trimers in a Distorted Kagome Lattice of Gd₃Ru₄Al₁₂ Studied by Resonant X-ray Diffraction. Journal of the Physical Society of Japan, 2019, 88, 023704.	1.6	20
24	Elastic Properties and Magnetic Phase Diagrams of Dense Kondo Compound Ce0.75La0.25B6. Journal of the Physical Society of Japan, 2005, 74, 735-741.	1.6	17
25	High-Field Magnetization Measurements of Fe2MnSi. Journal of the Physical Society of Japan, 2013, 82, 044802.	1.6	14
26	Yb₂(Pd_{1-x}Ni_x)₂Sn: Interplay of Geometrical Frustration and Kondo Effect in Quantum Spin System. Journal of the Physical Society of Japan, 2009, 78, 083708.	1.6	13
27	Vacancies in defect-free zone of point-defect-controlled CZ silicon observed by low-temperature ultrasonic measurements. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 134, 240-243.	3.5	11
28	A New Multipolar Ordering Compound, Rare-Earth Palladium Bronze PrPd₃S₄. Journal of the Physical Society of Japan, 2007, 76, 073707.	1.6	11
29	Dielectric Dispersion of Valence Fluctuation Compound Sm3Se4. Journal of the Physical Society of Japan, 1993, 62, 1365-1371.	1.6	10
30	Low-temperature behavior of the elastic constant C44 in CexLa1â^'xB6. Physica B: Condensed Matter, 2002, 312-313, 191-193.	2.7	10
31	Thermal expansion and ultrasonic measurements of ferroquadrupole ordering in HoB6. Physica B: Condensed Matter, 2003, 329-333, 622-623.	2.7	9
32	Spin Waves and Transport Properties in Ferromagnetic Coâ€“Alâ€“O and Feâ€“Alâ€“O Granular Films: A Brillouin Scattering Study. Journal of the Physical Society of Japan, 2008, 77, 094704.	1.6	8
33	Electrical Resistivity in Ferromagnetic TMâ€“Alâ€“O (TM=Fe, Co) Granular Films: Scattering by Spin Waves and Kondo Like Behavior. Journal of the Physical Society of Japan, 2009, 78, 074708.	1.6	8
34	Unconventional magnetic phase transition in antiferromagnetic heavy-fermion YbIrGe. Physica B: Condensed Matter, 2013, 429, 63-67.	2.7	8
35	Antiferromagnetic ground state and heavy-fermion behavior in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ce</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 98, .	3.2	8
36	Quadrupolar Response of Kondo Compound CePd2Al3. Journal of the Physical Society of Japan, 1996, 65, 2571-2576.	1.6	7

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37	Observation of Vacancy in High Purity Silicon Crystal Using Low-Temperature Ultrasonic Measurements. ECS Transactions, 2006, 3, 375-385.	0.5	7
38	Anisotropy in the Magnetic Phase Diagrams of CexLa1-xB6. Journal of the Physical Society of Japan, 2002, 71, 112-114.	1.6	6
39	Low Temperature Properties of Yb3Ru4Al12 with Layered Structure. , 2014, , .		6
40	Direct observation of vacancy in silicon using sub-Kelvin ultrasonic measurements. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 134, 233-239.	3.5	5
41	Temperature dependence of the coercive force of ferromagnetic TM-Al-O (TM=Fe, Co) granular films. Journal of the Korean Physical Society, 2013, 63, 773-777.	0.7	4
42	Competing Exchange Interactions in Lanthanide Triangular Lattice Compounds LnZn₃P₃ (Ln = Laâ€“Nd, Sm, Gd). Journal of the Physical Society of Japan, 2020, 89, 074707.	1.6	4
43	Thermal Expansion Measurements on Ce0.75La0.25B6. Journal of the Physical Society of Japan, 2002, 71, 115-117.	1.6	3
44	Vacancies in Growth-Rate-Varied CZ Silicon Crystal Observed by Low-Temperature Ultrasonic Measurements. Solid State Phenomena, 2007, 131-133, 455-460.	0.3	3
45	Vacancies in as-grown CZ silicon crystals observed by low-temperature ultrasonic measurements. Journal of Materials Science: Materials in Electronics, 2008, 19, 19-23.	2.2	3
46	Brillouin Light Scattering from Magnetic Excitations in Superparamagnetic and Ferromagnetic Coâ€“Alâ€“O Granular Films. Journal of the Physical Society of Japan, 2018, 87, 044707.	1.6	3
47	Magnetic and Transport Properties of YbNiGe with a TiNiSi-Type Structure. Journal of the Physical Society of Japan, 2019, 88, 114709.	1.6	3
48	Quadrupolar susceptibility and magnetic phase diagram of PrNi₂Cd₂₀ with non-Kramers doublet ground state. Philosophical Magazine, 2020, 100, 1268-1281.	1.6	3
49	Transport properties of the dense Kondo system Ce0.5La0.5B6. Physica B: Condensed Matter, 2003, 329-333, 564-565.	2.7	2
50	Elastic and magnetic properties of the bilayer manganese oxide(Pr0.6La0.4)1.2Sr1.8Mn2O7. Physical Review B, 2007, 76, .	3.2	2
51	Observation of vacancy in crystalline silicon using low-temperature ultrasonic measurements. Physica B: Condensed Matter, 2007, 401-402, 109-114.	2.7	2
52	Compositional optimization of magnetite thin films prepared by rf sputtering from a composite target of wÃ¼stite and Ge. Thin Solid Films, 2011, 520, 106-109.	1.8	2
53	Metal-Doped Magnetite Thin Films. Journal of Nanoscience and Nanotechnology, 2012, 12, 5087-5090.	0.9	2
54	Quadrupole and lattice effects of orbitally degenerate 4f-electron systems. Journal of Physics Condensed Matter, 2003, 15, S2101-S2107.	1.8	1

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55	Antiferro-quadrupole ordering of CeLaB under high magnetic fields. Physica B: Condensed Matter, 2005, 359-361, 962-964.	2.7	1
56	Electrical resistivity of in the vicinity of quantum phase transition. Physica B: Condensed Matter, 2005, 359-361, 71-73.	2.7	1
57	Vacancies in CZ silicon crystals observed by low-temperature ultrasonic measurements. Physica B: Condensed Matter, 2007, 401-402, 138-143.	2.7	1
58	Lattice distortion and spontaneous Î“5g ferro-quadrupole moment in phase IV of CexLa1â^'xB6. Physica B: Condensed Matter, 2005, 359-361, 956-958.	2.7	0
59	Non-Fermi liquid and heavy fermion behavior in with quadrupolar moments. Physica B: Condensed Matter, 2006, 378-380, 148-149.	2.7	0
60	Magnetic Phase Transitions of CeTe at 50â€…mK in Fields Up to 28â€…T. , 2020, , .		0