

Peng Tong

List of Publications by Year in descending order

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docs citations

121
times ranked

3255
citing authors

#	ARTICLE	IF	CITATIONS
1	Colossal and reversible barocaloric effect in liquid-solid-transition materials n-alkanes. Nature Communications, 2022, 13, 596.	5.8	29
2	Secondary-field boosted caloric effect associated with first-order phase transition, a quasi-direct measurement. Scripta Materialia, 2022, 218, 114836.	2.6	0
3	Chemical Solution Route for High-Quality Multiferroic BiFeO ₃ Thin Films. Small, 2021, 17, e1903663.	5.2	38
4	High-contrast, reversible change of thermal conductivity in hexagonal nickel-iron sulfides. Acta Materialia, 2021, 208, 116709.	3.8	13
5	Room-temperature multiferrocity and magnetodielectric properties of ternary BiFeO ₃ -Bi _{0.5} Na _{0.5} TiO ₃ -CaTiO ₃ ceramics across the rhombohedral-orthorhombic phase boundary. Journal of Materials Science: Materials in Electronics, 2021, 32, 11524.	1.1	1
6	Large negative thermal expansion promoted by microstructure in hexagonal Fe _{1-x} CoxS. Journal of Alloys and Compounds, 2021, 862, 158616.	2.8	4
7	Chiral charge density waves induced by Ti-doping in 1-T-TaS ₂ . Applied Physics Letters, 2021, 118, .	1.5	19
8	Large Thermal Rectification in a Solid-State Thermal Diode Constructed of Iron-Doped Nickel Sulfide and Alumina. Physical Review Applied, 2021, 16, .	1.5	6
9	Giant reversible barocaloric effect with low hysteresis in antiperovskite PdNMn ₃ compound. Scripta Materialia, 2021, 203, 114049.	2.6	10
10	Nonhysteretic metamagnetic phase transition in Ho ₂ In _{1-x} Al _x (0 ≤ x ≤ 0.4) by hetero-structural alloying. Journal of Magnetism and Magnetic Materials, 2021, 538, 168305.	1.0	3
11	Tunable thermal expansion in zinc-bonded composites: Zn/Si/Zn _{0.75} Sn _{0.2} Mn _{0.05} NMn ₃ . Scripta Materialia, 2020, 177, 166-171.	2.6	8
12	Large and antiferromagnetic negative thermal expansion over a wide temperature zone in MnNiGe ₁ -Pb (0.04 ≤ x ≤ 0.2) alloys. Journal of Alloys and Compounds, 2020, 820, 153151.	2.8	3
13	Giant room-temperature barocaloric effect at the electronic phase transition in Ni _{1-x} Fe _x S. Materials Horizons, 2020, 7, 2690-2695.	6.4	33
14	Structural, piezoelectric, multiferroic and magnetoelectric properties of (1-x)BiFeO ₃ -xBa _{1-y} Sr _y TiO ₃ solid solutions. Journal of Electroceramics, 2020, 44, 256-264.	0.8	10
15	Magnetic anisotropy and anomalous Hall effect in monoclinic single crystal Cr ₅ Mn ₈ S ₁₆ . Physical Review B, 2020, 102, .	1.1	8
16	Origin of the large magnetoresistance in the candidate chiral superconductor H ₄ S ₂ . Physical Review B, 2020, 102, .	1.1	8
17	Temperature-Induced Lifshitz Transition and Possible Excitonic Instability in ZrSiSe. Physical Review Letters, 2020, 124, 236601.	2.9	34
18	Superconducting and Topological Properties in Centrosymmetric PbTaS ₂ Single Crystals. Journal of Physical Chemistry C, 2020, 124, 6349-6355.	1.5	16

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19	Near-zero thermal expansion and high thermal conductivity from ambient to cryogenic temperatures in Hf _{0.87} Ta _{0.13} Fe ₂ Cu. <i>Materialia</i> , 2020, 9, 100637.	1.3	2
20	Strong Electron-Phonon Coupling in the Excitonic Insulator Ta ₂ NiSe ₅ . <i>Inorganic Chemistry</i> , 2019, 58, 9036-9042.	1.9	29
21	Topological domain-engineered antiferroelectric-like behavior with enhanced energy storage properties in ferroelectric hexagonal Cr-doped YMnO ₃ . <i>Ceramics International</i> , 2019, 45, 20276-20281.	2.3	3
22	Substantially enhanced ferroelectricity in JT ion Cu ²⁺ -doped Co _{1-x} Cu _x Cr ₂ O ₄ (0 ≤ x ≤ 0.4). <i>Applied Physics Letters</i> , 2019, 115, 082903.	1.5	4
23	Room-temperature angular-dependent topological Hall effect in chiral antiferromagnetic Weyl semimetal Mn ₃ Sn. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	25
24	Anisotropic magnetic entropy change in the hard ferromagnetic semiconductor $V\text{Mn}_3$. <i>Physical Review B</i> , 2019, 100, .	1.1	29
25	Structural and magnetic studies of Co _{1-x} Ni _x Cr ₂ O ₄ (0 ≤ x ≤ 1). <i>Journal of Applied Physics</i> , 2019, 125, 203904.	1.1	2
26	Quantum paraelectricity to dipolar glass transition in Sc doped BaFe ₁₂ O ₁₉ single crystals. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	3
27	Low Thermal Expansion Modulated by Off-Stoichiometric Effect in Nonstoichiometric Laves Phase Hf _{0.87} Ta _{0.13} Fe _{2+x} Compounds. <i>Inorganic Chemistry</i> , 2019, 58, 16818-16822.	1.9	13
28	Coexistence of ferromagnetism and ferroelectricity in Mn-doped chromites YCr ₁ -Mn O ₃ single crystals. <i>Journal of Alloys and Compounds</i> , 2019, 771, 602-606.	2.8	4
29	Difference in physical properties of MAX-phase compounds Cr ₂ GaC and Cr ₂ GaN induced by an anomalous structure change in Cr ₂ GaN. <i>Intermetallics</i> , 2019, 105, 39-43.	1.8	6
30	Giant antiferromagnetic negative thermal expansion in (MnNiGe) ₁ -(MnCoSn) compounds. <i>Journal of Alloys and Compounds</i> , 2019, 782, 881-886.	2.8	14
31	Tuning the ferroelectric transition and magnetic ordering by the polar Ba _{0.1} Sr _{0.9} TiO ₃ substitution in the multiferroic (1-x) Ba _{0.1} Sr _{0.9} TiO ₃ - xBiFeO ₃ (0.2 ≤ x ≤ 0.8) solid solution. <i>Journal of Alloys and Compounds</i> , 2018, 744, 321-327.		6
32	Mobility spectrum analytical approach for the type-II Weyl semimetal Td-MoTe ₂ . <i>Applied Physics Letters</i> , 2018, 112, .	1.5	6
33	The effects of quenching on electrical properties, and leakage behaviors of 0.67BiFeO ₃ -0.33BaTiO ₃ solid solutions. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7311-7317.	1.1	19
34	Magnetoelectric and Raman spectroscopic studies of monocrystalline MnCr ₂ O ₄ . <i>Physical Review B</i> , 2018, 97, .	1.1	18
35	Critical behavior of two-dimensional intrinsically ferromagnetic semiconductor CrI ₃ . <i>Applied Physics Letters</i> , 2018, 112, .	1.5	47
36	Crossover of thermal expansion from positive to negative by removing the excess fluorines in cubic ReO ₃ -type TiZrF _{7-x} . <i>Journal of Materials Chemistry C</i> , 2018, 6, 5148-5152.	2.7	17

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37	Enhanced mechanical properties and large magnetocaloric effect in epoxy-bonded Mn _{0.98} CoGe. Scripta Materialia, 2018, 150, 96-100.	2.6	27
38	Origin of the structural phase transition in single-crystal TaTe_2 . Physical Review B, 2018, 98, .	1.1	22
39	Good comprehensive performance of Laves phase Hf ₁ -Ta Fe ₂ as negative thermal expansion materials. Acta Materialia, 2018, 161, 258-265.	3.8	61
40	Isotropic Low Thermal Expansion over a Wide Temperature Range in Ti _{1-x} Zr _x F _{3+x} (0.1 ≤ x ≤ 0.5) Solid Solutions. Inorganic Chemistry, 2018, 57, 14396-14400.	1.9	11
41	Origin of the extremely large magnetoresistance in topological semimetal PtS_4 . Physical Review B, 2018, 97, .	1.1	21
42	Planar Hall effect in the type-II Weyl semimetal TaTe_2 . Physical Review B, 2018, 98, .	1.1	54
43	Critical behavior in the itinerant ferromagnet AsNCr_3 with tetragonal-antiperovskite structure. Physical Review B, 2018, 98, .	1.1	18
44	Effects of Cr Substitution on Negative Thermal Expansion and Magnetic Properties of Antiperovskite Ga _{1-x} Cr _x N _{0.83} Mn ₃ Compounds. Frontiers in Chemistry, 2018, 6, 75. Electric properties via combinatorial	1.8	7
45	Cr_3 ion off-center displacement in perovskite CaMn_3 . Physical Review B, 2018, 98, .	1.1	14
46	Large and constant coefficient of negative thermal expansion covering a wide temperature range in Zn _{1-x} Mn _x NMn ₃ (0 ≤ x ≤ 0.3). Scripta Materialia, 2018, 152, 6-10.	2.6	19
47	Anomalous low-temperature heat capacity in antiperovskite compounds. Chinese Physics B, 2017, 26, 026501.	0.7	2
48	Electronic structures and crystal field splitting of antiperovskite XNMn ₃ (X = 3 d and 4 d elements). Computational Materials Science, 2017, 132, 132-136.	1.4	5
49	Giant isotropic magnetostrain of GaMn ₃ . Applied Physics Letters, 2017, 110, .	1.5	3
50	Manipulating superconductivity of 1T-TiTe ₂ by high pressure. Journal of Materials Chemistry C, 2017, 5, 4167-4173.	2.7	19
51	Large Positive Thermal Expansion and Small Band Gap in Double-ReO ₃ -Type Compound NaSbF ₆ . Inorganic Chemistry, 2017, 56, 4990-4995.	1.9	8
52	Magnetocaloric effect and influence of Fe/Cr disorder on the magnetization reversal and dielectric relaxation in $\text{Fe}_{0.5}\text{Cr}_{0.5}\text{O}_3$ systems. Applied Physics Letters, 2017, 110, .	1.5	40
53	The GaNMn ₃ -Epoxy composites with tunable coefficient of thermal expansion and good dielectric performance. Composites Science and Technology, 2017, 146, 177-182.	3.8	36
54	Resistivity plateau and large magnetoresistance in the charge density wave system TaTe ₄ . Applied Physics Letters, 2017, 110, .	1.5	13

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55	Manipulating charge density wave order in monolayer TaTe_2 by strain and charge doping: A first-principles investigation. <i>Physical Review B</i> , 2017, 96, .	1.7	49
56	Edge-controlled half-metallic ferromagnetism and direct-gap semiconductivity in ZrS_2 nanoribbons. <i>RSC Advances</i> , 2017, 7, 33408-33412.	1.7	7
57	Room temperature multiferrocity and magnetodielectric properties of ternary $(1-x)(0.94\text{Bi}0.5\text{Na}0.5\text{TiO}_3-0.06\text{BaTiO}_3)-x\text{BiFeO}_3$ ($0 \leq x \leq 0.9$) solid solutions. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	15
58	Anomalous Hall effect in two-dimensional non-collinear antiferromagnetic semiconductor $\text{Cr}_0.68\text{Se}$. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	19
59	Manipulation of type-I and type-II Dirac points in PdTe_2 superconductor by external pressure. <i>Physical Review B</i> , 2017, 96, .	1.1	12
60	Origin of the turn-on phenomenon in PdTe_2 superconductor. <i>Physical Review B</i> , 2017, 96, .	1.1	27
61	Temperature and field induced spin reorientation and dielectric properties in $\text{YCr}_0.88\text{Fe}_0.12\text{O}_3$ single crystal. <i>Applied Physics Letters</i> , 2017, 111, 072402.	1.5	2
62	Tricritical behavior of the two-dimensional intrinsically ferromagnetic semiconductor CrGeTe_3 . <i>Physical Review B</i> , 2017, 95, .	1.1	103
63	Large negative thermal expansion in $(\text{Ga}_{0.7}\text{Cu}_{0.3})_1\text{-Mn NMn}_3$ ($x \leq 0.4$), compensating for the thermal expansion of cryogenic materials. <i>Scripta Materialia</i> , 2017, 128, 74-77.	2.6	30
64	Size effects on negative thermal expansion in cubic ScF_3 . <i>Applied Physics Letters</i> , 2016, 109, .	1.5	33
65	Colossal negative thermal expansion with an extended temperature interval covering room temperature in fine-powdered $\text{Mn}_{0.98}\text{CoGe}$. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	38
66	Alloying effects on structural, magnetic, and electrical/thermal transport properties in MAX-phase Cr_2MGeC ($\text{M} = \text{Ti}, \text{V}, \text{Mn}, \text{Fe}, \text{and Mo}$). <i>Journal of Alloys and Compounds</i> , 2016, 680, 452-461.	2.8	39
67	Nature of charge density waves and superconductivity in TaTe_2 . <i>Physical Review B</i> , 2016, 94, .	1.1	27
68	Role of chemical doping on the enhancement of thermoelectric performance in metal-based thermoelectric system SnCCo_3 . <i>Journal of Alloys and Compounds</i> , 2016, 688, 565-570.	2.8	2
69	Anomalous Hall effect in tetragonal antiperovskite GeNFe_3 with a frustrated ferromagnetic state. <i>RSC Advances</i> , 2016, 6, 104433-104437.	1.7	8
70	Role of rare earth ions in the magnetic, magnetocaloric and magnetoelectric properties of RCrO_3 ($\text{R} = \text{Dy}, \text{Nd}, \text{Tb}, \text{Er}$) crystals. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11198-11204.	2.7	85
71	Magnetic/structural phase diagram and zero temperature coefficient of resistivity in GaCr_3Co ($0 \leq x \leq 1$). <i>Journal of Alloys and Compounds</i> , 2016, 663, 94-99.	2.8	8
72	Magnetically driven negative thermal expansion in antiperovskite $\text{Ga}_{1-x}\text{Mn}_x\text{NO}_3$ ($0.1 \leq x \leq 0.3$). <i>Applied Physics Letters</i> , 2015, 107, .	1.5	29

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73	Giant negative thermal expansion covering room temperature in nanocrystalline GaN _{1-x} Mn ₃ . Applied Physics Letters, 2015, 107, .	1.5	32
74	Unusual ferromagnetic critical behavior owing to short-range antiferromagnetic correlations in antiperovskite Cu _{1-x} NMn _{3+x} (0.1 ≤ x ≤ 0.4). Scientific Reports, 2015, 5, 7933.	1.6	43
75	Strong ferromagnetism beyond the mechanism of uncompensated surface spins in nanocrystalline GaCMn ₃ . RSC Advances, 2015, 5, 106213-106218.	1.7	4
76	Effects of carbon deficiency on the magnetic interactions in GaCMn ₃ , a critical behavior study. Journal of Magnetism and Magnetic Materials, 2015, 382, 93-97.	1.0	3
77	Exchange bias induced after zero-field cooling in antiperovskite compounds Ga _{1-x} NMn _{3+x} . Physica Status Solidi (B): Basic Research, 2015, 252, 582-588.	0.7	10
78	Tunable negative thermal expansion related with the gradual evolution of antiferromagnetic ordering in antiperovskite manganese nitrides Ag _{1-x} NMn _{3+x} (0 ≤ x ≤ 1.0). Applied Physics Letters, 2015, 106, .	1.0	10
79	Self-assembled c-axis oriented antiperovskite soft-magnetic CuNCo ₃ thin films by chemical solution deposition. Journal of Materials Chemistry C, 2015, 3, 4438-4444.	2.7	16
80	Spin-glass behavior and zero-field-cooled exchange bias in a Cr-based antiperovskite compound PdNCr ₃ . Journal of Materials Chemistry C, 2015, 3, 5683-5696.	2.7	53
81	Continuously tunable temperature coefficient of resistivity in antiperovskite AgN _{1-x} CxMn ₃ (0 ≤ x ≤ 0.15). Journal of Applied Physics, 2014, 116, .	1.1	7
82	Large magnetic entropy change associated with the weakly first-order paramagnetic to ferrimagnetic transition in antiperovskite manganese nitride CuNMn ₃ . Journal of Applied Physics, 2014, 116, 033902.	1.1	6
83	Prediction of Superconductivity in 3d Transition-Metal Based Antiperovskites via Magnetic Phase Diagram. Journal of the Physical Society of Japan, 2014, 83, 054704.	0.7	11
84	Synthesis and characterization of antiperovskite nitrides GaNCr _{3-x} Mnx. Journal of Solid State Chemistry, 2014, 209, 127-134.	1.4	11
85	Good Thermoelectric Performance in Strongly Correlated System SnCCo ₃ with Antiperovskite Structure. Inorganic Chemistry, 2014, 53, 3709-3715.	1.9	25
86	Mn-based antiperovskite functional materials: Review of research. Chinese Physics B, 2013, 22, 067501.	0.7	48
87	Extremely low temperature coefficient of resistivity in antiperovskite compounds M _{1-x} Ga _{1-x} CFe ₃ (M=Cu,). Tj ETQg1.1 0.784314 rgB	2.8	10
88	Magnetic transition broadening and local lattice distortion in the negative thermal expansion antiperovskite Cu _{1-x} Sn _x NMn ₃ . Applied Physics Letters, 2013, 102, .	1.5	51
89	Magnetic and electrical/thermal transport properties of Mn-doped M _{1-x} N _{1+x} AX _n phase compounds Cr _{2-x} Mn _x GaC (0 ≤ x ≤ 1). Journal of Applied Physics, 2013, 113, .	1.1	54
90	Role of nitrogen in AlN _x Mn ₃ : A density functional theory study. Journal of Applied Physics, 2013, 113, 023905.	1.1	10

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91	Structural, Elastic, and Electronic Properties of Antiperovskite Chromium-Based Carbides ACr_3 (A = Al and Ga). <i>Advances in Condensed Matter Physics</i> , 2013, 2013, 1-7.	0.4	8
92	The study of negative thermal expansion and magnetic evolution in antiperovskite compounds $Cu_{0.8-x}Sn_xMn_{0.2}NMn_3$ (0 ≤ x ≤ 0.3). <i>Journal of Applied Physics</i> , 2012, 111, 043905.	1.1	18
93	The study of structure, magnetism, electricity, and their correlations at martensitic transition for magnetostriction system $Cu_{1-x}Mn_xNMn_3$ (0 ≤ x ≤ 0.5). <i>Journal of Applied Physics</i> , 2012, 111, 113914.	1.1	14
94	Tunable room-temperature zero temperature coefficient of resistivity in antiperovskite compounds $Ga_{1-x}CFe_3$ and $Ga_{1-y}Al_yCFe_3$. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	29
95	First-principles prediction of layered antiperovskite superconductors A_2CNi_4 (A = Al, Ga, and Sn). <i>AIP Advances</i> , 2012, 2, .	0.6	5
96	Oxygen displacements and magnetoelectric coupling in $LuMnO_3$. <i>Physical Review B</i> , 2012, 86, .	1.1	14
97	Critical behavior in the antiperovskite ferromagnet $AlCMn_3$. <i>Physical Review B</i> , 2012, 85, .	1.1	53
98	Suppression of superconductivity in layered $Bi_4O_4S_3$ by Ag doping. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	18
99	The magnetic phase diagram and large reversible room-temperature magnetocaloric effect in antiperovskite compounds $Zn_{1-x}Sn_xCFe_3$ (0 ≤ x ≤ 1). <i>Journal of Applied Physics</i> , 2012, 112, 063907.	1.1	4
100	The Effects of Fatigue on the Atomic Structure with Cyclic Loading in $Zr_{50}Cu_{40}Al_{10}$ and $Zr_{60}Cu_{30}Al_{10}$ Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2676-2679.	1.1	4
101	Magnetic/structural diagram, chemical composition-dependent magnetocaloric effect in self-doped antiperovskite compounds $Sn_{1-x}CMn_{3+x}$ (0 ≤ x ≤ 0.40). <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 773-781.	1.0	9
102	AlN_xMn_3 : A possible high-temperature soft magnetic material and strongly correlated system. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	18
103	Tunable temperature coefficient of resistivity in C- and Co-doped $CuNMn_3$. <i>Scripta Materialia</i> , 2011, 65, 452-455.	2.6	49
104	Fluctuations of the Local Atomic Environment with Chemical Alloying in Fe Bulk Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 1481-1485.	1.1	0
105	Elastic properties of Ca-based metallic glasses predicted by first-principles simulations. <i>Physical Review B</i> , 2011, 84, .	1.1	21
106	Possible Link of a Structurally Driven Spin Flip Transition and the Insulator-Metal Transition in the Perovskite La_1-xMn_x . <i>Physical Review Letters</i> , 2011, 106, 156407.	2.9	24
107	The magnetic, electrical transport and thermal transport properties of Fe-based antiperovskite compounds $Zn_{1-x}Fe_x$. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	20
108	The Effects of Annealing on Fatigue Behavior in Zr-based Bulk Metallic Glasses. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1300, 1.	0.1	1

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109	Local atomic structure of superconducting FeSe . Physical Review B, 2010, 81, .	1.1	78
110	Magnetism, magnetocaloric effect and positive magnetoresistance in Fe-doped antiperovskite compounds $\text{SnCMn}_3\text{Fe}_x$ ($x=0.05\text{--}0.20$). Journal of Magnetism and Magnetic Materials, 2010, 322, 163-168.	1.0	28
111	Observation of spin-glass behavior in antiperovskite compound SnCFe_3 . Applied Physics Letters, 2010, 97, .	1.5	55
112	Metastability across the antiferromagnetic-ferromagnetic intermediate phase transition and enhanced giant magnetoresistance in Zn-doped antiperovskite compounds $\text{Ga}_1\text{Zn}_x\text{CMn}_3$. Applied Physics Letters, 2010, 97, .	1.5	20
113	Structural, magnetic, electrical transport properties, and reversible room-temperature magnetocaloric effect in antiperovskite compound AlCMn_3 . Journal of Applied Physics, 2010, 108, .	1.1	44
114	The observation of a positive magnetoresistance and close correlation among lattice, spin, and charge around TC in antiperovskite SnCMn_3 . Journal of Applied Physics, 2009, 106, .	1.1	20
115	Large magnetic entropy change near room temperature in antiperovskite SnCMn_3 . Europhysics Letters, 2009, 85, 47004.	0.7	100
116	Enhanced giant magnetoresistance in Ni-doped antiperovskite compounds $\text{GaCMn}_3\text{Ni}_x$ ($x=0.05, 0.10$). Applied Physics Letters, 2009, 95, .	1.5	79
117	Reversible room-temperature magnetocaloric effect with large temperature span in antiperovskite compounds $\text{Ga}_1\text{CMn}_{3+x}$ ($x=, 0.06, 0.07, \text{ and } 0.08$). Journal of Applied Physics, 2009, 105, .	1.1	41
118	Strong spin fluctuations and possible non-Fermi-liquid behavior in AlCNi_3 . Physical Review B, 2006, 74, .	1.1	57
119	Strong electron-electron correlation in the antiperovskite compound GaCNi_3 . Physical Review B, 2006, 73, .	1.1	74
120	Influence of carbon intercalation on the structural and magnetic properties of Ni_3Al . Physica B: Condensed Matter, 2006, 371, 63-67.	1.3	12
121	Influence of carbon concentration on structural, magnetic and electrical transport properties for antiperovskite compounds AlC_xMn_3 . Solid State Communications, 2006, 138, 64-67.	0.9	27