

# Pressure Dependence of Itinerant Antiferromagnetism

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Possible Anomalies at a Semimetal-Semiconductor Transition. <i>Reviews of Modern Physics</i> , 1968, 40, 755-766.	45.6	418
2	Antiferromagnetic Energy Gap in Chromium. <i>Physical Review Letters</i> , 1968, 20, 384-387.	7.8	96
3	High-Field Galvanomagnetic Effects in Antiferromagnetic Chromium. <i>Physical Review</i> , 1968, 176, 671-683.	2.7	42
4	The Excitonic State at the Semiconductor-Semimetal Transition. <i>Solid State Physics</i> , 1968, , 115-192.	0.5	311
5	Thermal Expansion of Alpha-Uranium below 10Å°K. <i>Physical Review</i> , 1968, 170, 614-617.	2.7	20
6	Electrical Resistivity of Antiferromagnetic Chromium. <i>Journal of the Physical Society of Japan</i> , 1968, 24, 1168-1168.	1.6	5
7	Lattice Relaxation in Cr At Temperatures AboveTNAfter Rapid Heating from the Intermediate Temperature Phase. <i>Physical Review Letters</i> , 1969, 22, 466-470.	7.8	5
8	Antiferromagnetism in Chromium and its Alloys. <i>Journal of Applied Physics</i> , 1969, 40, 1337-1343.	2.5	83
9	Chromium-Like Model for an Itinerant Antiferromagnet. <i>Physical Review</i> , 1969, 183, 533-545.	2.7	31
10	Superconductivity and Electron Interaction in the3dBand. <i>Physical Review</i> , 1969, 178, 702-706.	2.7	62
11	Theory of Longitudinal Spin Fluctuations and the Antiferromagnetic Phase Transition in Chromium Metal. <i>Physical Review</i> , 1969, 187, 584-586.	2.7	7
12	Simultaneous measurement of the anomalous heat capacity and resistivity of chromium near TN. <i>Solid State Communications</i> , 1969, 7, 1035-1038.	1.9	35
13	Metal-Semiconductor Transition in Ytterbium and Strontium at High Pressure. <i>Physical Review</i> , 1969, 177, 1063-1071.	2.7	112
14	Pressure Effect on the Antiferromagnetism of Chromium-Vanadium-Manganese Alloys. <i>Journal of the Physical Society of Japan</i> , 1970, 28, 257-257.	1.6	3
15	Hydrostatic Pressure Effect on the NÅ©el Point of Chromium-Molybdenum Alloys. <i>Journal of the Physical Society of Japan</i> , 1970, 28, 531-531.	1.6	3
16	Magnetostriction of antiferromagnetic chromium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1970, 32, 117-118.	2.1	2
17	The effect of pressure on the NÅ©el temperature of chromium-vanadium alloys. <i>Physica</i> , 1970, 47, 337-344.	0.9	6
18	Anomalous Thermal Expansion of Chromium nearTN. <i>Physica Scripta</i> , 1970, 1, 281-285.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Lattice-Vibrational Properties of Chromium in the Harmonic Approximation on the Basis of the Tensor Model. <i>Physical Review B</i> , 1970, 1, 448-454.	3.2	23
20	Multiband-Moments Model for the Conductivities of Chromium. <i>Physical Review B</i> , 1970, 2, 3606-3612.	3.2	15
21	Effect of High Pressure on Antiferromagnetism in Cr Alloys. <i>Journal of Applied Physics</i> , 1970, 41, 869-870.	2.5	32
22	Optical Studies of Antiferromagnetism in Chromium and Its Alloys. <i>Physical Review B</i> , 1970, 1, 4378-4400.	3.2	106
23	Lorenz Number of Chromium. <i>Physical Review B</i> , 1970, 1, 1351-1362.	3.2	32
24	Pseudopotential Theory of Cohesion and Structure. <i>Solid State Physics</i> , 1970, 24, 249-463.	0.5	353
25	On the order of itinerant antiferromagnetic phase transitions and superconducting phase transitions in an exchange field. <i>European Physical Journal B</i> , 1971, 13, 193-202.	1.5	7
26	Multiband Model for the Electronic Heat Capacity of Chromium. <i>Physical Review B</i> , 1971, 4, 1121-1128.	3.2	4
27	Electrical Resistance of Single-Crystal Single-Domain Chromium from 77 to 325 Å°K. <i>Physical Review B</i> , 1971, 4, 988-991.	3.2	55
28	First-Order Transition in Chromium at the Néel Temperature. <i>Physical Review Letters</i> , 1971, 27, 1523-1526.	7.8	43
29	Electronic Transitions in Near-Equiatomic Vanadium-Ruthenium Alloys. <i>Physical Review B</i> , 1971, 4, 320-326.	3.2	40
30	Electrical Resistivity and the Depression of the Néel Temperature in Cr-Mo and Cr-Fe. <i>Physical Review B</i> , 1972, 5, 1163-1170.	3.2	17
31	Comment on the Behavior of the Lorenz Number of Chromium at the Néel Temperature. <i>Physical Review B</i> , 1972, 5, 3793-3795.	3.2	4
32	Statistical Exchange-Correlation in the Self-Consistent Field. <i>Advances in Quantum Chemistry</i> , 1972, 6, 1-92.	0.8	1,000
33	The Pressure Variable in Materials Research. <i>Science</i> , 1972, 176, 751-758.	12.6	44
34	Lattice-dynamical properties of chromium. <i>Physical Review B</i> , 1974, 9, 5144-5149.	3.2	6
35	High-pressure heat capacity of chromium near the Néel line. <i>Journal of Physics and Chemistry of Solids</i> , 1974, 35, 871-877.	4.0	14
36	Effects of Pressure on the Electronic Structure of Transition Metals. <i>Physica Status Solidi (B): Basic Research</i> , 1974, 63, 11-50.	1.5	38

#	ARTICLE	IF	CITATIONS
37	Diffusion in Alkali Halides. , 1975, , 381-444.		14
38	Spin-Density-Wave, Charge-Density-Wave and Stain-Wave in Chromium â€œOrder of the Phase Transition at the Néel Temperatureâ€. Journal of the Physical Society of Japan, 1975, 39, 851-859.	1.6	17
39	Effect of molybdenum and vanadium on the lattice thermal conductivity and Lorenz number of chromium. Physical Review B, 1975, 12, 1858-1867.	3.2	18
40	Phase relations and structures of solids at high pressures. Progress in Solid State Chemistry, 1976, 11, 1-151.	7.2	184
41	Stress dependence of the Fermi surface of antiferromagnetic chromium. Journal of Low Temperature Physics, 1976, 25, 771-792.	1.4	26
42	Spin-density-wave Q-vector of chromium under stress. Solid State Communications, 1976, 19, 1185-1188.	1.9	15
43	Temperature and Magnetic Field Dependence of the Hall Coefficient on the Antiferromagnetic Chromium. Journal of the Physical Society of Japan, 1976, 40, 490-497.	1.6	11
44	Size Effects on the Spin Density Wave in Cr Films. Journal of the Physical Society of Japan, 1977, 43, 468-476.	1.6	21
45	Stress dependence of the spin density wave in chromium. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1977, 91, 205-210.	0.9	7
46	The stress dependence of the SDW-state in antiferromagnetic chromium. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1977, 86-88, 325-326.	0.9	0
47	Crystal equilibrium and lattice vibrational properties of the materials of BCC structures. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1978, 94, 319-330.	0.9	0
48	Thermal expansion of Cr, Mo and W at low temperatures. Cryogenics, 1978, 18, 301-303.	1.7	25
49	Isothermal compression of bcc transition metals to 100 kbar. Journal of Applied Physics, 1978, 49, 208-212.	2.5	111
50	Applied Physics, 1979, 50, 1751-1753.	2.5	23
51	Pressure as a parameter in the study of dilute magnetic alloys. Advances in Physics, 1979, 28, 657-715.	14.4	136
52	Electromagnetic absorption in antiferromagnetic chromium. Physica Status Solidi (B): Basic Research, 1979, 91, 487-498.	1.5	0
53	High pressure studies of invar-related systems. Journal of Magnetism and Magnetic Materials, 1979, 10, 257-258.	2.3	5
54	Pressure Effect on the Resistance Minimum in Antiferromagnetic Crâ€œFe and Crâ€œCo Alloys. Journal of the Physical Society of Japan, 1980, 49, 1812-1819.	1.6	9

#	ARTICLE	IF	CITATIONS
55	Note on the Pressure Dependence of the Spin-Flip Transition in Chromium. Physica Status Solidi (B): Basic Research, 1980, 98, K21.	1.5	4
56	Volume dependence of the Fermi surface and of the spin-density-wave Q vector in antiferromagnetic chromium. Journal of Physics F: Metal Physics, 1980, 10, 2841-2856.	1.6	24
57	Antiferromagnetism and electrical resistivity of dilute chromium-germanium alloys. Physical Review B, 1980, 22, 5366-5368.	3.2	16
58	Spin-density functional calculations for chromium. Journal of Magnetism and Magnetic Materials, 1980, 20, 277-284.	2.3	100
59	Electrical resistivity and the spin density wave gap in CrMO. Journal of Physics F: Metal Physics, 1980, 10, 1467-1473.	1.6	19
60	The electronic structure of antiferromagnetic chromium. Journal of Physics F: Metal Physics, 1981, 11, 97-111.	1.6	118
61	Electrical Resistivity of Metals. Treatise on Materials Science and Technology, 1981, 21, 297-349.	0.1	2
62	Self-consistent band structure calculation of chromium: pressure influence. Journal of Physics F: Metal Physics, 1982, 12, 2291-2308.	1.6	30
63	The behaviour of Fe in Cr and CrMo spin density wave hosts. I. Neel temperature and electrical resistivity. Journal of Physics F: Metal Physics, 1982, 12, 1247-1257.	1.6	7
64	Electrical Resesrivity Due to Antiferromagnetic Spin Waves in Cr. Journal of the Physical Society of Japan, 1982, 51, 441-451.	1.6	8
65	Low-Temperature State of UCu5: Formation of Heavy Electrons in a Magnetically Ordered Material. Physical Review Letters, 1985, 55, 1595-1598.	7.8	121
66	Electronic and magnetic structure of ultrathin cobalt-chromium superlattices. Physical Review B, 1985, 31, 4394-4402.	3.2	72
67	Low-temperature thermal expansion of single-Qchromium and of dilute antiferromagneticCrV alloys. Physical Review B, 1985, 32, 7438-7443.	3.2	13
68	Electronic and magnetic structure of ultrathin cobalt-chromium multilayers. Journal of Applied Physics, 1985, 57, 3654-3656.	2.5	16
69	1.6.4 References for 1.6.1 - 1.6.3. , 0, , 46-47.		0
70	Physical properties of chromium. Journal of Magnetism and Magnetic Materials, 1986, 60, 137-144.	2.3	17
71	Effect of pressure and alloying on antiferromagnetism of chromium: Insight from thermal expansion measurements. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 1021-1022.	2.3	7
72	Magnetovolume in chromium. Physical Review B, 1986, 34, 6248-6257.	3.2	30

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73	Electrical resistivity of dilute $(\text{Cr}_{1-x}\text{Al}_x)\text{Mo}_5$ alloys. Journal of Physics and Chemistry of Solids, 1987, 48, 887-893.	4.0	11
74	Spin-density-wave antiferromagnetism in chromium. Reviews of Modern Physics, 1988, 60, 209-283.	45.6	1,015
75	Point-contact spectroscopy in incommensurate chromium. Physical Review B, 1988, 38, 5924-5930.	3.2	13
76	Magnetic Grüneisen parameters in chromium. Journal of Physics Condensed Matter, 1989, 1, 203-212.	1.8	21
77	Magnetotransport studies of epitaxial Cr thin films. Journal of Applied Physics, 1990, 67, 4889-4891.	2.5	23
78	Electrical resistivity of antiferromagnetic and paramagnetic $\text{Cr}_x\text{Mo}_{1-x}\text{Si}$ alloys. Journal of Applied Physics, 1991, 69, 4677-4679.	2.5	2
79	High pressure study of the antiferromagnetic state of chromium alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1991, 63, 979-992.	0.6	12
80	Pressure dependence of the Spin-Density Wave states in chromium doped with Si, Ge, and Sn. High Pressure Research, 1992, 10, 439-449.	1.2	0
81	Electrical transport properties and magnetism of $\text{Cr}_x\text{Mo}_{1-x}\text{Ru}$ alloys. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 2029-2030.	2.3	0
82	Enhanced magnetoresistance below the spin-flip transition of Cr(001) thin films. Journal of Magnetism and Magnetic Materials, 1992, 109, 179-184.	2.3	3
83	On superconductivity of the organic conductor $\hat{\Gamma}_\pm\text{-(BEDT-TTF)}_2\text{KHg(SCN)}_4$ . Solid State Communications, 1993, 85, 1005-1009.	1.9	29
84	Temperature dependence of electrical conductivity of $\hat{\Gamma}_\pm\text{-(BEDT-TTF)}_2\text{KHg(SCN)}_4$ below 1 K: Possible electronic phase change at 200 mK. Synthetic Metals, 1993, 56, 2228-2233.	3.9	2
85	Incommensurate spin density wave in metallic $\text{V}_2\text{VO}_3$ . Physical Review Letters, 1993, 71, 766-769.	7.8	93
86	Fermi Surface Instability and Symmetry Breaking in Heavy-Fermion Compound $\text{YbBiPt}$ . Physical Review Letters, 1994, 73, 492-495.	7.8	42
87	Spin-density-wave antiferromagnetism in chromium alloys. Reviews of Modern Physics, 1994, 66, 25-127.	45.6	404
88	Low-temperature transport properties of $\text{UCu}_5$ . European Physical Journal B, 1994, 94, 423-429.	1.5	9
89	Low-temperature phase diagram of $\text{YbBiPt}$ . Journal of Applied Physics, 1994, 76, 6121-6123.	2.5	14
90	The effects of overlayer thicknesses on the electrical resistivity of polycrystalline Cu/Cr double-layered thin films. Journal of Physics Condensed Matter, 1995, 7, 5229-5238.	1.8	5

#	ARTICLE	IF	CITATIONS
91	Effect of pressure on magnetic properties of U(Ga <sub>1</sub> -Sn) <sub>3</sub> alloys. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 702-703.	2.3	7
92	Electrical resistivity studies of Cr - Ir alloy single crystals. Journal of Physics Condensed Matter, 1996, 8, 10473-10481.	1.8	3
93	Uniaxial Fermi-surface nesting and spin-density-wave transition in the heavy-fermion compound Ce(Ru <sub>0.85</sub> Rh <sub>0.15</sub> ) <sub>2</sub> Si <sub>2</sub> . Physical Review B, 1997, 56, 11092-11096.	3.2	51
94	High-pressure <sup>1</sup> / <sub>4</sub> SR studies of ferro- and antiferromagnetic metals. , 1997, 104, 331-336.		3
95	Itinerant f-electron antiferromagnetism in UGa <sub>3</sub> . Physica B: Condensed Matter, 1997, 230-232, 35-38.	2.7	16
96	Metal-insulator transition in Kondo insulators: A functional-integral approach. Physical Review B, 1998, 57, 6943-6948.	3.2	14
97	The mechanism of antiferromagnetism in chromium. Journal of Physics Condensed Matter, 1998, 10, 6541-6552.	1.8	26
98	Magnetic correlations and quantum criticality in the insulating antiferromagnetic, insulating spin liquid, renormalized Fermi liquid, and metallic antiferromagnetic phases of the Mott system V <sub>2</sub> O <sub>3</sub> . Physical Review B, 1998, 58, 12727-12748.	3.2	53
99	Electrical resistivity of sputtered Cu/Cr multilayered thin films. Journal of Applied Physics, 1999, 85, 302-309.	2.5	33
100	High-pressure resistivity of Ce(Ru <sub>0.85</sub> Rh <sub>0.15</sub> ) <sub>2</sub> Si <sub>2</sub> . Physica B: Condensed Matter, 1999, 259-261, 63-65.	2.7	1
101	Magnetovolume effect in UGa <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 1999, 192, 137-147.	2.3	22
102	High-pressure ultrasonic study of monocrystalline Cr in the antiferromagnetic and paramagnetic phases. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 663-682.	0.6	12
103	Incommensurate magnetic structure of CeRhIn <sub>5</sub> . Physical Review B, 2000, 62, R14621-R14624.	3.2	163
104	High Resolution Study of Magnetic Ordering at Absolute Zero. Physical Review Letters, 2004, 92, 187201.	7.8	52
105	Energy dispersive x-ray diffraction of charge density waves via chemical filtering. Review of Scientific Instruments, 2005, 76, 063913.	1.3	19
106	Pressure-Tuned Spin and Charge Ordering in an Itinerant Antiferromagnet. Physical Review Letters, 2007, 99, 137201.	7.8	27
107	Pressure effect on the antiferromagnetic temperature of CePdSb <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 2007, 310, e22-e24.	2.3	0
108	The critical pressure of chromium. Physica B: Condensed Matter, 2008, 403, 1222-1224.	2.7	6

#	ARTICLE	IF	CITATIONS
109	Giant Uniaxial Anisotropy in the Magnetic and Transport Properties of $\text{CePd}_{5-x}\text{Al}_x$ . Journal of the Physical Society of Japan, 2008, 77, 074708.	1.6	23
110	Chromium at high pressures: Weak coupling and strong fluctuations in an itinerant antiferromagnet. Physical Review B, 2008, 77, .	3.2	19
111	Partial Gap of SDW in $\text{Ce}(\text{Ru}_{1-x}\text{Rh}_x)_2\text{Si}_2$ . Journal of the Magnetics Society of Japan, 2009, 33, 35-37.	0.9	0
112	Simple Experimental Procedure under Quasi-Hydrostatic Pressure up to 15 GPa at Low Temperature. Japanese Journal of Applied Physics, 2009, 48, 070221.	1.5	7
113	Breakdown of the Bardeen-Cooper-Schrieffer ground state at a quantum phase transition. Nature, 2009, 459, 405-409.	27.8	40
114	Effect of pressure on the magnetic properties of $\text{CrB}_2$ . Low Temperature Physics, 2009, 35, 531-535.	0.6	3
115	Signatures of quantum criticality in pure Cr at high pressure. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13631-13635.	7.1	51
116	Four-probe electrical measurements with a liquid pressure medium in a diamond anvil cell. Review of Scientific Instruments, 2012, 83, 103902.	1.3	10
117	Magnetic-field-tuned quantum criticality of the heavy-fermion system $\text{YbPtBi}$ . Physical Review B, 2013, 87, .	3.2	59
118	Superconductivity in the metallic elements at high pressures. Physica C: Superconductivity and Its Applications, 2015, 514, 59-76.	1.2	75
119	Unconventional drop in the electrical resistance of chromium metal thin films at low temperature. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3133-3137.	2.1	9
120	Anisotropic physical properties and pressure dependent magnetic ordering of $\text{CrAuTe}_4$ . Physical Review B, 2016, 94, .	3.2	3
121	Quantum critical point in the Sc-doped itinerant antiferromagnet $\text{TiAu}$ . Physical Review B, 2017, 95, .	3.2	8
122	The electrical resistivity of epitaxially deposited chromium films. Journal of Physics: Conference Series, 2017, 871, 012002.	0.4	7
123	Electrical and structural properties of epitaxially deposited chromium thin films. Physica B: Condensed Matter, 2018, 536, 790-792.	2.7	4
124	Low temperature thermopower and magnetoresistance of Sc-rich $\text{CeSc}_{1-x}\text{Ti}_x\text{Ge}$ . Physica B: Condensed Matter, 2018, 536, 133-136.	2.7	1
125	The electrical resistance of gold-capped chromium thin films. Journal of Physics: Conference Series, 2018, 969, 012029.	0.4	1
126	Search for pressure-induced tricriticality in Cr. Physical Review B, 2019, 100, .	3.2	1



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127	Study of Phase Transitions at High Pressure. , 1979, , 114-129.		1
128	The Thermal and Electrical Conductivities of Some Chromium Alloys. , 1976, , 49-56.		4
130	Pressure-induced Quantum Phase Transition in Cr <sub>1-x</sub> V <sub>x</sub> Alloys. Journal of the Magnetism Society of Japan, 2010, 34, 263-266.	0.9	2
131	Search for the Quantum Critical Point in Cr <sub>1-x</sub> V <sub>x</sub> Alloys. Transactions of the Magnetism Society of Japan, 2005, 5, 81-84.	0.5	5
132	3.1.1.1 Cr-V. , 2014, , 22-25.		0
133	Why are the Effects of Pressure and Composition Change Often Similar in Antiferromagnetic Chromium Alloys?. , 1994, , 397-402.		2
134	Atomic Volume Effect on Electronic Structure and Magnetic Properties of UGa <sub>3</sub> Compound. , 1998, , 323-335.		0
135	Alloying-driven transition between ferromagnetism and antiferromagnetism in UTe <sub>2</sub> compounds: $U_{1-x}Co_xTe_2$ Physical Review B, 2022, 105, 080401.		0
136	Strong magnetoelastic coupling in $Mn_3Tf_2O_7$ ( $T_f = 50.4$ K) Physical Review B, 2022, 105, 080402.		0
137	Resistive Memory Based on the Spin-Density-Wave Transition of Antiferromagnetic Chromium. Physical Review Applied, 2022, 18, .	3.8	3