

Andrew Christianson

List of Publications by Year in descending order

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172
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172
docs citations

172
times ranked

4880
citing authors

#	ARTICLE	IF	CITATIONS
1	Damped Dirac magnon in the metallic kagome antiferromagnet FeSn. Physical Review B, 2022, 105, .	1.1	15
2	CHESS: The future direct geometry spectrometer at the second target station. Review of Scientific Instruments, 2022, 93, .	0.6	9
3	Effect of non-vacancies on magnetic order and spin dynamics of the spin ladder BaFe_2S_3 . Physical Review B, 2022, 105, .	1.1	3
4	Enhanced low-energy magnetic excitations evidencing the Cu-induced localization in the Fe-based superconductor $\text{Fe}_{1-x}\text{Co}_x\text{S}_2$. Physical Review B, 2022, 105, .	1.1	2
5	CENTAUR™ The small- and wide-angle neutron scattering diffractometer/spectrometer for the Second Target Station of the Spallation Neutron Source. Review of Scientific Instruments, 2022, 93, .	0.6	9
6	Van Hove singularity in the magnon spectrum of the antiferromagnetic quantum honeycomb lattice. Nature Communications, 2021, 12, 171.	5.8	24
7	A Catastrophic Charge Density Wave in BaFe_2Al_9 . Chemistry of Materials, 2021, 33, 2855-2863.	3.2	9
8	Tuning the flat bands of the kagome metal CoSn with Fe, In, or Ni doping. Physical Review Materials, 2021, 5, .	0.9	17
9	Oxygen magnetic polarization, nodes in spin density, and zigzag spin order in oxides. Physical Review B, 2021, 103, .	1.1	9
10	Hierarchical excitations from correlated spin tetrahedra on the breathing pyrochlore lattice. Physical Review B, 2021, 103, .	1.1	5
11	Magnetic properties of the Shastry-Sutherland lattice material BaNd_2O_7 . Physical Review Materials, 2021, 5, .	1.1	1
12	Decay and renormalization of a longitudinal mode in a quasi-two-dimensional antiferromagnet. Nature Communications, 2021, 12, 5331.	5.8	11
13	Complex magnetic phases in the polar tetragonal intermetallic NdCoGe_3 . Physical Review B, 2021, 103, .	1.1	1
14	Suppressed incommensurate order in swedenborgite $\text{Ca}_{0.5}\text{Y}_{0.5}\text{BaCo}_4\text{O}_7$. Physical Review B, 2021, 104, .	1.1	4
15	Spin dynamics of the spin-chain antiferromagnet RbFeS_2 . Physical Review B, 2021, 104, .	1.1	1
16	Physical properties of the quasi-two-dimensional square lattice antiferromagnet Ba_7O_7 . Physical Review B, 2021, 104, .	1.1	9
17	Spin dynamics in the skyrmion-host lacunar spinel GaV_4 . Physical Review B, 2021, 104, .	1.1	3
18	Cluster Frustration in the Breathing Pyrochlore Magnet LiGaCr_4 . Physical Review Letters, 2020, 125, 167201.	1.1	1

#	ARTICLE	IF	CITATIONS
19	Magnetism of Nd ₂ O ₃ single crystals near the Néel temperature. Physical Review B, 2020, 102, .	1.1	0
20	Signatures of a liquid-crystal transition in spin-wave excitations of skyrmions. Communications Physics, 2020, 3, .	2.0	10
21	Weakly coupled alternating S chains in the distorted honeycomb lattice compound Na ₂ Phonons. Physical Review B, 2019, 100, .	1.1	11
22	Q-dependent Kondo spin fluctuations, and phonon resonance in Yb ₄ f ₃ . Physical Review B, 2019, 100, .	1.1	3
23	High-pressure synthesis, crystal structure, and magnetic properties of the Shastry-Sutherland-lattice oxides BaLn ₂ ZnO ₅ (Ln = Pr, Sm, Eu). Journal of Solid State Chemistry, 2020, 289, 121489.	1.4	10
24	Spin and orbital excitations through the metal-to-insulator transition in Cd ₂ O ₇ probed with high-resolution resonant inelastic x-ray scattering. Physical Review B, 2020, 101, .	1.1	5
25	Robust cycloid crossover driven by anisotropy in the skyrmion host GaV ₄ S ₈ . Physical Review B, 2020, 101, .	1.1	8
26	Coexisting spin resonance and long-range magnetic order of Eu in EuRbFe ₄ . Physical Review B, 2019, 100, .	1.1	4
27	Multicomponent fluctuation spectrum at the quantum critical point in CeCu _{6-x} Ag _x . Npj Quantum Materials, 2019, 4, .	1.8	4
28	Antiferromagnetic ordering and dipolar interactions of YbAlO ₃ . Physical Review B, 2019, 99, .	1.1	2
29	Tomonaga-Luttinger liquid behavior and spinon confinement in YbAlO ₃ . Nature Communications, 2019, 10, 698.	5.8	56
30	Reorientation of antiferromagnetism in cobalt doped FeSn. Physical Review B, 2019, 100, .	1.1	14
31	Crystal field splitting, local anisotropy, and low-energy excitations in the quantum magnet YbCl ₃ . Physical Review B, 2019, 100, .	1.1	26
32	Influence of cobalt substitution on the magnetism of NiBr ₂ . Physical Review Materials, 2019, 3, .	0.9	3
33	Coherent band excitations in CePd ₃ : A comparison of neutron scattering and ab initio theory. Science, 2018, 359, 186-191.	6.0	36
34	Negative thermal expansion and magnetoelastic coupling in the breathing pyrochlore lattice material LiGaCr ₄ S ₈ . Physical Review B, 2018, 97, .	1.1	4
35	Origin of magnetic excitation gap in double perovskite Sr ₂ Physical Review B, 2018, 98, .	1.1	15
36	Behavior of the breathing pyrochlore lattice Ba ₃ Yb ₂ Zn ₅ O ₁₁ in applied magnetic field. Journal of Physics Condensed Matter, 2018, 30, 455801.	0.7	11

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37	Stabilization of Polar Nanoregions in Pb-free Ferroelectrics. <i>Physical Review Letters</i> , 2018, 120, 207603.	2.9	46
38	Evolution of the Magnetic Excitations in NaOsO_3 through its Metal-Insulator Transition. <i>Physical Review Letters</i> , 2018, 120, 227203.	2.9	19
39	Crossover from itinerant to localized magnetic excitations through the metal-insulator transition in NaOsO_3 . <i>Physical Review B</i> , 2018, 97, .	1.1	15
40	Unusual phonon density of states and response to the superconducting transition in the In-doped topological crystalline insulator $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$. <i>Physical Review B</i> , 2018, 97, .	1.1	10
41	Spin-orbit coupled systems in the atomic limit: rhenates, osmates, iridates. <i>Physical Review B</i> , 2018, 97, .	1.1	25
42	Physical properties of the trigonal binary compound Nd_2O_3 . <i>Physical Review Materials</i> , 2018, 2, .	0.9	9
43	Strongly gapped spin-wave excitation in the insulating phase of NaOsO_3 . <i>Physical Review B</i> , 2017, 95, .	1.1	24
44	Terahertz dielectric analysis and spin-phonon coupling in multiferroic GeV_4S_8 . <i>Physical Review B</i> , 2017, 96, .	1.1	9
45	Structure of spin excitations in heavily electron-doped $\text{Li}_{0.8}\text{Fe}_{0.2}\text{ODFeSe}$ superconductors. <i>Nature Communications</i> , 2017, 8, 123.	5.8	33
46	Temperature and polarization dependence of low-energy magnetic fluctuations in nearly optimally doped $\text{NaFe}_{0.9785}\text{Co}_{0.0215}\text{As}$. <i>Physical Review B</i> , 2017, 96, .	1.1	6
47	Interplay of spin-orbit coupling and hybridization in Ca_3Mn_3 and Ca_3Mn_2 . <i>Physical Review B</i> , 2017, 96, .	1.1	12
48	Strong ferromagnetic exchange interaction under ambient pressure in BaFe_2S_3 . <i>Physical Review B</i> , 2017, 95, .	1.1	20
49	Electronic Ground State in $\text{J}_2\text{Mn}_2\text{O}_7$. <i>Physical Review Letters</i> , 2017, 118, 207202.	2.9	31
50	Commensurate antiferromagnetic excitations as a signature of the pseudogap in the tetragonal high-Tc cuprate $\text{HgBa}_2\text{CuO}_4$. <i>Nature Communications</i> , 2016, 7, 10819.	5.8	55
51	Candidate Elastic Quantum Critical Point in LaCu_6 . <i>Physical Review Letters</i> , 2016, 117, 235701.	2.9	14
52	Strong anisotropy within a Heisenberg model in the insulating state of $\text{J}_1\text{Sr}_2\text{MgOsO}_6$. <i>Physical Review B</i> , 2016, 94, .	1.1	6
53	Extended magnetic exchange interactions in the high-temperature ferromagnet MnBi . <i>Applied Physics Letters</i> , 2016, 108, .	1.5	32
54	Spin-orbit coupling control of anisotropy, ground state and frustration in $5d_2$ $\text{Sr}_2\text{MgOsO}_6$. <i>Scientific Reports</i> , 2016, 6, 32462.	1.6	25

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55	Spin-orbit-driven magnetic structure and excitation in the 5d pyrochlore Cd ₂ Os ₂ O ₇ . Nature Communications, 2016, 7, 11651.	5.8	56
56	Spin waves and magnetic exchange interactions in the spin-ladder compound $RbFe_2O_2$. Physical Review B, 2016, 94, .	1.1	33
57	Electron doping evolution of the neutron spin resonance in $NaFe_3O_7$. Physical Review B, 2016, 93, .	1.1	33
58	Experimental elucidation of the origin of the \tilde{d} double spin resonances in $Ba(Fe_{1-x}Co_x)_2As_2$. Physical Review B, 2016, 93, .	1.1	12
59	Highly anisotropic exchange interactions of J_{eff} moments on the fcc lattice in La_2O_3 . Physical Review B, 2016, 93, .	1.1	33
60	Spin-orbit coupling controlled ground state in Sr_2O_3 . Physical Review B, 2016, 93, .	2.9	55
61	Anisotropic Exchange within Decoupled Tetrahedra in the Quantum Breathing Pyrochlore Ba_3O_3 . Physical Review Letters, 2016, 116, 257204.	2.9	55
62	Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations. Science Advances, 2016, 2, e1501814.	4.7	91
63	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. Physical Review Letters, 2016, 117, 176603.	2.9	36
64	Magnetic ground state of FeSe. Nature Communications, 2016, 7, 12182.	5.8	158
65	Magnetic order and electronic structure of the Sr_2O_3 perovskite. Physical Review B, 2015, 91, .	1.1	58
66	Spectroscopic evidence for strong quantum spin fluctuations with itinerant character in YFe_2Ge_2 . Physical Review B, 2015, 91, .	1.1	21
67	Influence of interstitial Mn on magnetism in the room-temperature ferromagnet MnO . Physical Review B, 2015, 91, .	1.1	33
68	Evolution of competing magnetic order in the J_{eff} state of Sr_2O_3 . Physical Review B, 2015, 92, .	1.1	33
69	Spin dynamics near a putative antiferromagnetic quantum critical point in Cu-substituted $BaFe_2O_7$ and its relation to high-temperature superconductivity. Physical Review B, 2015, 92, .		
70	Structural and magnetic phase transitions in $CeCu_6$.		

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73	Enhanced spin-phonon-electronic coupling in a 5d oxide. Nature Communications, 2015, 6, 8916.	5.8	45
74	Quantum critical fluctuations in the heavy fermion compound Ce(Ni _{0.935} Pd _{0.065}) ₂ Ge ₂ . Journal of Physics Condensed Matter, 2015, 27, 015602.	0.7	4
75	Development of a compact <i>in situ</i> polarized 3He neutron spin filter at Oak Ridge National Laboratory. Review of Scientific Instruments, 2014, 85, 075112.	0.6	22
76	Soft striped magnetic fluctuations competing with superconductivity in $\text{FeAs}_{1-x}\text{P}_x$. Physical Review B, 2014, 90, .	1.1	29
77	Spin-orbit insulating state close to the cubic limit in $\text{Ca}_4\text{IrO}_{10}$. Physical Review B, 2014, 89, .	1.1	27
78	Crossover from spin waves to diffusive spin excitations in underdoped BaFe_2As_2 . Physical Review B, 2014, 89, .	1.1	18
79	<i>Q</i> -dependence of the spin fluctuations in the intermediate valence compound CePd ₃ . Journal of Physics Condensed Matter, 2014, 26, 225602.	0.7	16
80	Phonon Self-Energy and Origin of Anomalous Neutron Scattering Spectra in SnTe and PbTe Thermoelectrics. Physical Review Letters, 2014, 112, 175501.	2.9	125
81	Low-energy magnetic excitations from the FeO_4 units in BaMn_2O_7 . Physical Review B, 2014, 89, .	1.1	6
82	Magnon structure and spin excitations in BaMn_2O_7 . Physical Review B, 2014, 89, .	1.1	8
83	Magnons and a two-component spin gap in FeV_2O_4 . Physical Review B, 2014, 89, .	1.1	19
84	Low-energy magnetic excitations from the FeO_4 units in $\text{Ni}_2\text{V}_2\text{O}_7$. Physical Review B, 2014, 89, .	1.1	9
85	Origins of large enhancement in electromechanical coupling for nonpolar directions in ferroelectric BaTiO_3 . Physical Review B, 2013, 88, .	1.1	80
86	Origins of large enhancement in electromechanical coupling for nonpolar directions in ferroelectric BaTiO_3 . Physical Review B, 2013, 88, .	1.1	5
87	Flux growth and physical properties of Mo_3Sb_7 . Physical Review B, 2013, 87, .	1.1	13
88	Doping dependence of the spin excitations in the Fe-based superconductors $\text{Fe}_{1+y}\text{Te}_{1-x}\text{S}_x$. Physical Review B, 2013, 87, .	1.1	12
89	In-plane spin excitation anisotropy in the paramagnetic state of NaFeAs. Physical Review B, 2013, 88, .	1.1	34
90	Magnonlike Dispersion of Spin Resonance in Ni-doped BaFe_2As_2 . Physical Review Letters, 2013, 110, 177002.	2.9	21

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91	Low-energy magnetic excitations via suppression of the itinerancy in Fe _{1-x} Cu _x As ₂ . Physical Review B, 2012, 85, .	1.1	14
92	Effect of molybdenum 4d hole substitution in BaFe ₂ As ₂ . Physical Review B, 2012, 85, .	1.1	27
93	Magnetically Driven Metal-Insulator Transition in NaOsO ₃ . Physical Review Letters, 2012, 108, 257209.	2.9	115
94	Magnetic structural change of Sr ₂ IrO ₄ upon Mn doping. Physical Review B, 2012, 86, .	1.1	43
95	Competing Ferri- and Antiferromagnetic Phases in Geometrically Frustrated LuFe ₂ O ₇ . Physical Review B, 2012, 86, .	1.1	55
96	Effect of pressure on the neutron spin resonance in the unconventional superconductor FeTe _{1-x} Se _x . Physical Review B, 2012, 86, .	1.1	6
97	Magnetic properties of the S=12 quasisquare lattice antiferromagnet Cu ₂ (H ₂ O) ₂ (pyz) (pyz=pyrazine) investigated by neutron scattering. Physical Review B, 2012, 86, .	1.1	15
98	Magnetic structure determination of CaLiOsO ₆ using neutron and x-ray scattering. Physical Review B, 2012, 86, .	1.1	19
99	Experimental Determination of Ionicity in MnO Nanoparticles. Chemistry of Materials, 2011, 23, 2956-2960.	1.1	8
100	Experimental Determination of Ionicity in MnO Nanoparticles. Chemistry of Materials, 2011, 23, 2956-2960.	3.2	15
101	Antiferromagnetic order in MnO spherical nanoparticles. Physical Review B, 2011, 83, .	1.1	17
102	Quantum critical behavior in the heavy Fermion single crystal Ce(Ni _{0.935} Pd _{0.065}) ₂ Ge ₂ . Journal of Physics: Conference Series, 2011, 273, 012018.	0.3	0
103	Neutron scattering of iron-based superconductors. Physica C: Superconductivity and Its Applications, 2011, 471, 639-642.	0.6	1
104	Magnetic excitations in the geometric frustrated multiferroic CuCrO ₂ . Physical Review B, 2011, 84, .	1.1	50
105	Spin glass and semiconducting behavior in one-dimensional BaFe ₂ Se ₃ (x=0.2) crystals. Physical Review B, 2011, 84, .	1.1	58
106	Spatial inhomogeneity in RFeAsO _{1-x} F _x (R=Pr, Nd) determined from rare-earth crystal-field excitations. Physical Review B, 2011, 83, .	1.1	11
107	Magnetoelastic coupling in bulk and nanoscale MnO. Physical Review B, 2011, 84, .	1.1	12
108	Competing magnetic ground states in non-superconducting Ba(Tl _{1-x} Bi _x) ₂ Te ₃ . Physical Review B, 2011, 83, .	1.1	69

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127	Phonon Density of States of LaFeAsO . Physical Review Letters, 2008, 101, 157004.	2.9	65
128	Phase transitions in LaFeAsO : Structural, magnetic, elastic, and transport properties, heat capacity and Mössbauer spectra. Physical Review B, 2008, 78, .	1.1	284
129	Charge Order, Dynamics, and Magnetostructural Transition in Multiferroic LuFe_2O_4 . Physical Review Letters, 2008, 100, 107601.	2.9	141
130	Three-Dimensional Magnetic Correlations in Multiferroic LuFe_2O_4 . Physical Review Letters, 2008, 100, 107601.	2.9	130
131	Charge Order in LuFe_2O_4 : Antiferroelectric Ground State and Coupling to Magnetism. Physical Review Letters, 2008, 101, 227601.	2.9	120
132	Publisher's Note: Novel Coexistence of Superconductivity with Two Distinct Magnetic Orders [Phys. Rev. Lett. 95, 217002 (2005)]. Physical Review Letters, 2007, 99, .	2.9	0
133	Ytterbium divalency and lattice disorder in near-zero thermal expansion YbGaGe . Physical Review B, 2007, 75, .	1.1	12
134	Crystal field excitations in the singlet ground state compound Pr_3In . Journal of Applied Physics, 2007, 101, 09D505.	1.1	8
135	Low temperature behavior of the heavy fermion. Journal of Magnetism and Magnetic Materials, 2007, 310, 266-267.	1.0	22
136	Pr_3InO : re-assessment of the cubic Pr_3In structure. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, i184-i184.	0.2	2
137	Observation of field-induced single impurity behavior in the heavy fermion compound. Physica B: Condensed Matter, 2006, 378-380, 113-114.	1.3	37
138	Anisotropic intermediate valence in $\text{Yb}_2\text{Rh}_3\text{Ga}_9$. Physica B: Condensed Matter, 2006, 378-380, 752-753.	1.3	0
139	Physical properties of the ferromagnetic heavy-fermion compound $\text{Uir}_2\text{Zn}_{20}$. Physical Review B, 2006, 74, .	1.1	24
140	Localized Excitation in the Hybridization Gap in YbAl_3 . Physical Review Letters, 2006, 96, 117206.	2.9	19
141	Antiferromagnetism in Pr_3In . Physical Review B, 2005, 72, .	1.1	9
142	Anisotropic intermediate valence in $\text{Yb}_2\text{M}_3\text{Ga}_9$ (M=Rh,Ir). Physical Review B, 2005, 72, .	1.1	4
143	Novel Coexistence of Superconductivity with Two Distinct Magnetic Orders. Physical Review Letters, 2005, 95, 217002.	2.9	43
144	Crystalline electric field effects in CeMIn_5 (M=Co,Rh,Ir): Superconductivity and the influence of Kondo spin fluctuations. Physical Review B, 2004, 70, .	1.1	63

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145	Magnetotransport and superconductivity of $\hat{\pm}$ -uranium. Philosophical Magazine, 2004, 84, 2001-2022.	0.7	12
146	Anisotropy of thermal conductivity and possible signature of the Fulde-Ferrell-Larkin-Ovchinnikov state in CeCoIn5. Physical Review B, 2004, 70, .	1.1	95
147	Crystalline electric field excitations in the heavy fermion superconductor CeCoIn5. Journal of Applied Physics, 2004, 95, 7201-7203.	1.1	12
148	Effect of temperature on hybridization and magnetism in U2Pd2Sn and U2Ni2In. Journal of Alloys and Compounds, 2004, 369, 273-276.	2.8	1
149	Magnetic Properties of Heavy Fermion Superconductors CeRhIn5 and Ce2RhIn8. ChemInform, 2003, 34, no.	0.1	0
150	High-field ordered and superconducting phases in the heavy-fermion compound PrOs4Sb12. Physical Review B, 2003, 67, .	1.1	51
151	Superconductivity and the high-field ordered phase in the heavy-fermion compound PrOs4Sb12. Journal of Physics Condensed Matter, 2003, 15, S2071-S2080.	0.7	26
152	Low-temperature magnetic structure of UPdGe. Journal of Applied Physics, 2003, 93, 8352-8354.	1.1	6
153	Neutron scattering study of crystal fields in CeRhIn5. Physical Review B, 2002, 66, .	1.1	44
154	Magnetotransport of CeRhIn5. Physical Review B, 2002, 66, .	1.1	18
155	Ce-site dilution studies in the antiferromagnetic heavy fermions $\text{Ce}_m\text{Rh}_n\text{In}_{3m+2n}$ ($m=1,2;n=0,1$). Physical Review B, 2002, 66, .	1.1	43
156	MAGNETIC PROPERTIES OF HEAVY FERMION SUPERCONDUCTORS CeRhIn5 AND Ce2RhIn8. International Journal of Modern Physics B, 2002, 16, 3244-3249.	1.0	3
157	High Field Magnetotransport in CeRh1-xIrxIn5 Heavy Electron Alloys. International Journal of Modern Physics B, 2002, 16, 3045-3048.	1.0	0
158	Effect of La doping on magnetic structure in heavy fermion CeRhIn5. Physica B: Condensed Matter, 2002, 312-313, 120-122.	1.3	7
159	High field magnetotransport in $\text{Ce}_{1-x}\text{La}_x\text{RhIn}_5$ heavy electron alloys. Physica B: Condensed Matter, 2002, 312-313, 241-243.	1.3	3
160	High-field c-axis magnetotransport of single crystal YbNi2B2C. Physica B: Condensed Matter, 2001, 294-295, 225-228.	1.3	3
161	Magnetoresistance measurements in $\text{UCu}_{4+x}\text{Al}_8\hat{\sim}x$ compounds. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 42-44.	1.0	3
162	Field-Induced Dynamic Diamagnetism in a Charge-Density-Wave System. Physical Review Letters, 2001, 86, 1586-1589.	2.9	25

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163	Properties of UNiAlD _{2.1} and UNiAlH _{2.3} . Physica B: Condensed Matter, 2000, 276-278, 706-707.	1.3	16
164	Low-energy excitations, symmetry breaking and specific heat in YbBiPt. Physica B: Condensed Matter, 1999, 259-261, 138-139.	1.3	8
165	Structural and magnetic properties of the Kondo insulator UFe ₄ P ₁₂ . Physica B: Condensed Matter, 1999, 259-261, 280-282.	1.3	12
166	Inelastic neutron scattering study of Mn ₁₂ acetate. Journal of Applied Physics, 1999, 85, 5636-5638.	1.1	56
167	Spin-glass ordering in the diluted magnetic semiconductor Zn _{1-x} Mn _x Te. Physical Review B, 1998, 58, 12876-12882.	1.1	34
168	Spin glass behavior of Zn _{1-x} Mn _x Te. Journal of Applied Physics, 1996, 79, 6164.	1.1	8