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List of Publications by Year
in descending order

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143 papers	2,735 citations	218677 26 h-index	206112 48 g-index
145 all docs	145 docs citations	145 times ranked	2271 citing authors

#	Article	IF	Citations
1	Boosting Room Temperature Tunnel Magnetoresistance in Hybrid Magnetic Tunnel Junctions Under Electric Bias. Advanced Electronic Materials, 2022, 8, 2100805.	5.1	2
2	Advances in Magnetics Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetics, 2022, 58, 1-72.	2.1	179
3	Edge spin wave transmission through a vertex domain wall in triangular dots. SN Applied Sciences, 2022, 4, .	2.9	3
4	Superconductivity assisted change of the perpendicular magnetic anisotropy in V/MgO/Fe junctions. Scientific Reports, 2021, 11, 19041.	3.3	9
5	Low-Frequency 1/f Noise Characteristics of Ultra-Thin AlOx-Based Resistive Switching Memory Devices with Magneto-Resistive Responses. Electronics (Switzerland), 2021, 10, 2525.	3.1	0
6	Superconductivity-induced change in magnetic anisotropy in epitaxial ferromagnet-superconductor hybrids with spin-orbit interaction. Physical Review B, 2020, 102, .	3.2	23
7	Moving flux quanta cool superconductors by a microwave breath. Communications Physics, 2020, 3, .	5.3	9
8	Interfacial Spin-Orbit Coupling: A Platform for Superconducting Spintronics. Physical Review Applied, 2020, 13, .	3.8	32
9	Time-dependent Ginzburg-Landau simulations of superconducting vortices in three dimensions. Low Temperature Physics, 2020, 46, 316-324.	0.6	9
10	Reduction of Microwave Loss by Mobile Fluxons in Grooved Nb Films. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800223.	2.4	16
11	Dynamics of spiral spin waves in magnetic nanopatches: Influence of thickness and shape. Physical Review B, 2019, 100, .	3.2	8
12	Problemas resueltos de mÃ©todos matemÃ¡ticos de la FÃsica: MÃ©todo de Fourier. , 2019, , .		0
13	Magnetic-State Controlled Molecular Vibrational Dynamics at Buried Molecularâ€“Metal Interfaces. Journal of Physical Chemistry C, 2018, 122, 26499-26505.	3.1	2
14	Symmetry broken spin reorientation transition in epitaxial MgO/Fe/MgO layers with competing anisotropies. Scientific Reports, 2018, 8, 9463.	3.3	7
15	Thermally Driven Inhibition of Superconducting Vortex Avalanches. Physical Review Applied, 2017, 8, .	3.8	17
16	Photodoping-Driven Crossover in the Low-Frequency Noise of MoS2 Transistors. Physical Review Applied, 2017, 7, .	3.8	6
17	Information processing in patterned magnetic nanostructures with edge spin waves. Scientific Reports, 2017, 7, 5597.	3.3	21
18	Electron transport and noise spectroscopy in organic magnetic tunnel junctions with PTCDA and Alq3 barriers. , 2016, , .		0

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19	Shot noise in magnetic tunneling structures with two-level quantum dots. Physical Review B, 2016, 94, .	3.2	4
20	Band structure of topological insulators from noise measurements in tunnel junctions. Applied Physics Letters, 2015, 107, .	3.3	9
21	Magnetic state dependent transient lateral photovoltaic effect in patterned ferromagnetic metal-oxide-semiconductor films. AIP Advances, 2015, 5, .	1.3	5
22	Microwave-stimulated superconductivity due to presence of vortices. Scientific Reports, 2015, 5, 9187.	3.3	31
23	Transient lateral photovoltaic effect in patterned ferromagnetic metal-oxide-semiconductor films. , 2015, , .		0
24	Detection of spin torque magnetization dynamics through low frequency noise. Applied Physics Letters, 2015, 107, 052401.	3.3	3
25	SPIN WAVES ALONG THE EDGE STATES. Spin, 2014, 04, 1440003.	1.3	1
26	Superpoissonian shot noise in organic magnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	3.3	10
27	Transient lateral photovoltaic effect in patterned metal-oxide-semiconductor films. Applied Physics Letters, 2014, 104, .	3.3	25
28	Magnetization reversal assisted by half antivortex states in nanostructured circular cobalt disks. Applied Physics Letters, 2014, 105, .	3.3	22
29	Band-Edge Noise Spectroscopy of a Magnetic Tunnel Junction. Physical Review Letters, 2014, 112, .	7.8	8
30	Spin Wave Excitations and Winterâ€™s Magnons in Vertically Coupled Vortex State Permalloy Dots. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2057-2061.	1.8	1
31	Shot Noise in Epitaxial Double-Barrier Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2013, 49, 4347-4350.	2.1	0
32	Magnetization reversal in sub-100â€‰nm magnetic tunnel junctions with ultrathin MgO barrier biased along the hard axis. Applied Physics Letters, 2013, 102, .	3.3	8
33	Observation of propagating edge spin waves modes. Journal of Applied Physics, 2013, 114, .	2.5	12
34	Shot noise in magnetic double-barrier tunnel junctions. Physical Review B, 2013, 87, .	3.2	9
35	Controlling Shot Noise in Double-Barrier Magnetic Tunnel Junctions. Physical Review Letters, 2012, 109, 066601.	7.8	20
36	Broadband probing magnetization dynamics of the coupled vortex state permalloy layers in nanopillars. Applied Physics Letters, 2012, 100, .	3.3	18

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37	Localized domain-wall excitations in patterned magnetic dots probed by broadband ferromagnetic resonance. Physical Review B, 2011, 84, .	3.2	30
38	Low frequency noise due to magnetic inhomogeneities in submicron FeCoB/MgO/FeCoB magnetic tunnel junctions. Applied Physics Letters, 2011, 99, 062511.	3.3	17
39	Flux avalanches triggered by microwave depinning of magnetic vortices in Pb superconducting films. Physical Review B, 2011, 84, .	3.2	19
40	Interface and Temperature Dependent Magnetic Properties in Permalloy Thin Films and Tunnel Junction Structures. Journal of Nanoscience and Nanotechnology, 2011, 11, 7653-7664.	0.9	14
41	Impact of electron-electron interactions induced by disorder at interfaces on spin-dependent tunneling in Co-Fe-B/MgO/Co-Fe-B magnetic tunnel junctions. Physical Review B, 2010, 82, .	3.2	19
42	Conductance inCo/Al2O3/Si/Al2O3permalloy with asymmetrically doped barrier. Physical Review B, 2010, 81, .	3.2	2
43	Strongly suppressed 1/f noise and enhanced magnetoresistance in epitaxial Feâ€“V/MgO/Fe magnetic tunnel junctions. Applied Physics Letters, 2010, 96, .	3.3	26
44	Precise probing spin wave mode frequencies in the vortex state of circular magnetic dots. Applied Physics Letters, 2010, 96, .	3.3	29
45	Probing ground state in circular magnetic dots: Single vs. double magnetic vortex. , 2010, , .		1
46	Spin excitation frequencies in magnetostatically coupled arrays of vortex state circular Permalloy dots. Applied Physics Letters, 2010, 97, 132501.	3.3	50
47	Tunneling in Double Barrier Junctions with â€œHot Spotsâ€• Physical Review Letters, 2010, 105, 047207.	7.8	19
48	Unexpected Resonant Response in[Fe(001)/Cr(001)]10/MgO(001)Multilayers in a Magnetic Field. Physical Review Letters, 2009, 102, 035503.	7.8	1
49	Broadband ferromagnetic resonance linewidth measurement of magnetic tunnel junction multilayers. Applied Physics Letters, 2009, 94, 012506.	3.3	13
50	Anomalous low-frequency noise in synthetic antiferromagnets: Possible evidence of current-induced domain-wall motion. Physical Review B, 2009, 79, .	3.2	14
51	Unusual dc electric fields induced by a high frequency alternating current in superconducting Nb films under a perpendicular magnetic field. New Journal of Physics, 2009, 11, 063033.	2.9	4
52	Spin waves in circular soft magnetic dots at the crossover between vortex and single domain state. Physical Review B, 2009, 79, .	3.2	76
53	Low frequency noise in Co/Al2O3âŒ©SiâŒª/Py magnetic tunnel junctions. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1040-1042.	1.8	0
54	Broadband Magnetic Response of Periodic Arrays of FeNi Dots. IEEE Transactions on Magnetics, 2008, 44, 3063-3066.	2.1	8

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55	Fully epitaxial Fe(110)/MgO(111)/Fe(110) magnetic tunnel junctions: Growth, transport, and spin filtering properties. Applied Physics Letters, 2008, 93, 083512.	3.3	11
56	Temperature dependent dynamic and static magnetic response in magnetic tunnel junctions with Permalloy layers. Applied Physics Letters, 2008, 93, .	3.3	11
57	High bias voltage effect on spin-dependent conductivity and shot noise in carbon-doped Fe(001)âˆ•MgO(001)âˆ•Fe(001) magnetic tunnel junctions. Applied Physics Letters, 2007, 91, 132504.	3.3	49
58	Very low 1âˆ•f noise at room temperature in fully epitaxial Feâˆ•MgOâˆ•Fe magnetic tunnel junctions. Applied Physics Letters, 2007, 91, .	3.3	41
59	Enhanced magnetic viscosity at low temperatures in [Fe/Cr(001)]10 multilayers. Journal of Magnetism and Magnetic Materials, 2007, 316, 344-347.	2.3	0
60	Shot noise in Co/Al2O3â€ˆMâ€‰/Py (M=Cr, Si) magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2007, 316, e990-e993.	2.3	0
61	Shot Noise in Magnetic Tunnel Junctions: Evidence for Sequential Tunneling. Physical Review Letters, 2006, 97, 266602.	7.8	51
62	Magnetic field induced suppression of vortex flow resistance in superconductors with periodic pinning centers. Physica C: Superconductivity and Its Applications, 2006, 437-438, 345-348.	1.2	2
63	Generation of DC electric fields due to vortex rectification in superconducting films. Physica C: Superconductivity and Its Applications, 2006, 437-438, 1-6.	1.2	3
64	Low-frequency noise and inelastic tunneling spectroscopy in Fe(110)/MgO(111)/Fe(110) epitaxial magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2006, 300, 132-135.	2.3	1
65	Plain superconducting films as magnetic field tunable two-dimensional rectifiers. Applied Physics Letters, 2006, 88, 062517.	3.3	15
66	Unusual magnetic susceptibility and magnetoresistance in [Feâˆ•Cr(001)]10 multilayers at low temperatures. Journal of Applied Physics, 2005, 97, 10C505.	2.5	1
67	Low-frequency noise and tunneling magnetoresistance in Fe(110)âˆ•MgO(111)âˆ•Fe(110) epitaxial magnetic tunnel junctions. Applied Physics Letters, 2005, 87, 042501.	3.3	36
68	Non equilibrium magnetization in antiferromagnetically coupled [Fe/Cr]10 multilayers on large time scales. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 299-301.	2.3	2
69	Low frequency noise and complex AC magnetoresistance in superconducting Pb/Ge with square antidot lattice. Physica C: Superconductivity and Its Applications, 2004, 404, 30-33.	1.2	0
70	Electron interaction with domain walls in antiferromagnetically coupled multilayers. Europhysics Letters, 2003, 63, 888-894.	2.0	9
71	Low Frequency Magnetic Response in Antiferromagnetically CoupledFe/CrMultilayers. Physical Review Letters, 2002, 88, 187201.	7.8	7
72	Low frequency noise in Co/Al2O3$langle$$delta(Fe)angle$/Ni80Fe20 magnetic tunnel junctions. Journal Physics D: Applied Physics, 2002, 35, 1761-1764.	2.8	9

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73	Domain Wall Magnetoresistance and Complex magnetic Response in Antiferromagnetically Coupled Fe/Cr Multilayers. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
74	Complex magnetic response in magnetic tunnel junctions determined via magnetic and transport measurements. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
75	Low frequency magnetic noise in epitaxial antiferromagnetically coupled Fe/Cr multilayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 165-167.	2.3	1
76	Low-frequency response in the magnetic susceptibility of antiferromagnetically coupled Fe/Cr multilayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 501-503.	2.3	1
77	The evanescence of ferromagnetic order in the Ce $ mathsf {_{1-x}}$ Y $ mathsf {_{x}}$ Ni $ mathsf {_{0.8}}$ Pt $ mathsf {_{0.2}}$ dense Kondo system. European Physical Journal B, 2002, 28, 103-109.	1.5	0
78	Electron interaction with domain walls in Fe/Cr multilayers at low temperatures. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 745-746.	2.3	3
79	Low-frequency response in antiferromagnetically coupled Fe/Cr multilayers. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1806-1807.	2.3	1
80	Electron interaction with domain walls in antiferromagnetically coupled multilayers. Physica B: Condensed Matter, 2000, 284-288, 1243-1244.	2.7	1
81	Quantum phase transition in Fe/Cr magnetic multilayers. Physica B: Condensed Matter, 2000, 284-288, 1307-1308.	2.7	1
82	Ground-state crossover in U1-xThxBe13(0â©½xâ©½0.15). Journal of Physics Condensed Matter, 2000, 12, 4187-4193.	1.8	0
83	Impurity Spin Magnetization of Thin Fe Doped Au Films. Physical Review Letters, 2000, 85, 2593-2596.	7.8	14
84	Stratified Assemblies of Magnetite Nanoparticles and Montmorillonite Prepared by the Layer-by-Layer Assembly. Langmuir, 2000, 16, 3941-3949.	3.5	170
85	Nonlinear electron transport in magnetic multilayers. Applied Physics Letters, 1999, 75, 704-706.	3.3	2
86	Non-Fermi liquid ground state in magnetic multilayers tuned by electric and magnetic fields. Physica B: Condensed Matter, 1999, 259-261, 429-430.	2.7	0
87	Ground state properties of Ce1âˆ’xYxNi0.8Pt0.2 for 0â©½xâ©½0.3 near ferromagnetic instability. Physica B: Condensed Matter, 1999, 259-261, 40-41.	2.7	0
88	Ground state properties of. Physica B: Condensed Matter, 1999, 259-261, 419-420.	2.7	1
89	Layer-By-Layer Assembly of Core-Shell Magnetite Nanoparticles: Effect of Silica Coating on Interparticle Interactions and Magnetic Properties. Advanced Materials, 1999, 11, 1006-1010.	21.0	197
90	Anomalous electron transport in magnetic multilayers tuned by electric and magnetic fields. Scripta Materialia, 1999, 12, 377-382.	0.5	1

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91	Quantum Phase Transition in Fe/Cr Multilayers Tuned by a Magnetic Field. Physical Review Letters, 1998, 81, 5884-5887.	7.8	19
92	Anomalous low-temperature resistivity of metallic trilayers: Possible evidence for electron scattering on symmetrical two-level systems. Physical Review B, 1998, 58, 3625-3628.	3.2	12
93	Coupling and Magnetoresistance in Co/Cr/Ag/Co Structures. , 1998, , 501-506.		0
94	Periodic Enhancement of the Electron-Electron Interactions and the Magnetoresistance in Magnetic Co/(Cr/Ag)/Co Multilayers. Physical Review Letters, 1997, 78, 134-137.	7.8	29
95	Point-contact spectroscopy onURu2Si2. Physical Review B, 1997, 55, 14318-14322.	3.2	40
96	Crossover from non-Fermi-liquid to Fermi-liquid behavior in the magnetoresistivity of U0.9Th0.1Be13. Physical Review B, 1997, 56, 11169-11173.	3.2	14
97	Magnetic fluctuations in the heavy fermion YbPdSb. Physica B: Condensed Matter, 1997, 230-232, 266-268.	2.7	13
98	Low temperature specific heat of ferroelectric trisarcosine calcium chloride. Ferroelectrics, Letters Section, 1996, 20, 127-130.	1.0	0
99	Quadrupolar kondo ground state in U0.9Th0.1Be13. European Physical Journal D, 1996, 46, 2585-2586.	0.4	0
100	Nonlinear susceptibility as a probe for magnetic correlations in CeNiSn. European Physical Journal D, 1996, 46, 1995-1996.	0.4	1
101	Magnetic structure of antiferromagnetic superconductor Tb2Mo3Si4. Physica C: Superconductivity and Its Applications, 1996, 270, 159-166.	1.2	0
102	Evolution of calorimetric, magnetic and transport properties of UxTh1â^'xBe13 (0.64 â‰¤ x â‰¤ 1) solid solutions. Physica B: Condensed Matter, 1996, 223-224, 464-466.	2.7	3
103	Nonlinear susceptibility in U0.9Th0.1Be13: Direct test of a quadrupolar Kondo ground state. Physica B: Condensed Matter, 1996, 223-224, 475-477.	2.7	1
104	Hall effect in the quadrupolar Kondo ground state. Physical Review B, 1996, 53, 11320-11323.	3.2	2
105	On the Hall effect in the two-channel Kondo ground state. Europhysics Letters, 1996, 34, 605-610.	2.0	8
106	The quadrupolar Kondo ground state in. Journal of Physics Condensed Matter, 1996, 8, 9807-9814.	1.8	14
107	Anomalous ground state in U0.9Th0.1Be13. Physica B: Condensed Matter, 1995, 206-207, 454-456.	2.7	16
108	119Sn MÃ¶ssbauer study of CexLa1â^'xNiSn. Physica B: Condensed Matter, 1995, 206-207, 832-833.	2.7	1

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109	Non-Linear Susceptibility in U 0.9 Th 0.1 Be 13 : Evidence of a Transition from a Paramagnetic to a Quadrupolar Kondo Ground State. Europhysics Letters, 1995, 32, 765-770.	2.0	29
110	Local symmetry lowering in the cubic intermetallics YbPdBi and YbNiSb. Journal of Physics Condensed Matter, 1995, 7, 5665-5680.	1.8	13
111	A Superconducting Magnet: Tb 2 Mo 3 Si 4. Europhysics Letters, 1994, 25, 143-148.	2.0	12
112	Antiferromagnetism of superconducting Tb2Mo3Si4. Physica B: Condensed Matter, 1994, 194-196, 171-172.	2.7	4
113	Localization induced transformation of the lattice modes of MNiSn (M=Zr, Hf, Ti) compounds.. Physica B: Condensed Matter, 1994, 194-196, 1089-1090.	2.7	2
114	Gapping of the electronic spectrum induced by magnetic instability in CeNiSn. Physica B: Condensed Matter, 1994, 199-200, 433-434.	2.7	5
115	Anomalous ground state of U0.9Th0.1Be13: Temperature dependence of the resistivity and magnetoresistance. Solid State Communications, 1994, 91, 775-778.	1.9	23
116	Electron localization in the disordered conductors TiNiSn and HfNiSn observed by Raman and infrared spectroscopies. Solid State Communications, 1994, 91, 779-784.	1.9	8
117	Thermal expansion of the disordered conductorsMNiSn (M=Ti,Zr,Hf). Physical Review B, 1994, 50, 17881-17885.	3.2	6
118	TRANSFORMATION OF THE U GROUND STATE IN UXTh1â^'XBe13 (1 > X > 0.07) COMPOUNDS. International Journal of Modern Physics B, 1993, 07, 22-25.	2.0	1
119	COMPETITION BETWEEN GAPPING OF THE ELECTRONIC SPECTRUM AND MAGNETIC ORDER IN CeNiSn. International Journal of Modern Physics B, 1993, 07, 26-29.	2.0	2
120	ANOMALOUS LATTICE PROPERTIES OF ZrNiSn CAUSED BY ELECTRON LOCALIZATION. International Journal of Modern Physics B, 1993, 07, 383-386.	2.0	2
121	Energy gap of the ground state of CeNiSn caused by local and long-range magnetic-moment interactions. Physical Review B, 1993, 47, 769-772.	3.2	19
122	Thermal conductivity of TmBa2Cu3Ox and Bi2Sr2CaCu2Ox single crystals in the vicinity of the superconducting transition. Solid State Communications, 1992, 82, 241-244.	1.9	7
123	Gap at Fermi level in some new d- and f-electron intermetallic compounds. Physica B: Condensed Matter, 1991, 171, 199-205.	2.7	89
124	Thermal expansion and infrared optical properties of heavy-fermion CeNiSn. Physica B: Condensed Matter, 1991, 171, 381-383.	2.7	3
125	Anisotropy of upper critical field near TC and magnetic gap of superconducting URu2Si2 single crystal.. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2623-2624.	1.2	0
126	Anisotropy of the upper critical field near Tc and the properties of URu2Si2 and UBe13 in the normal state. Journal of Low Temperature Physics, 1991, 85, 359-376.	1.4	32

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127	Narrow band in the intermetallic compounds MNiSn (M=Ti, Zr, Hf). European Physical Journal B, 1990, 80, 353-357.	1.5	220
128	Gap formation in CeNiSn at low temperatures. Physica B: Condensed Matter, 1990, 163, 358-360.	2.7	32
129	Thermal conductivity of the Bi2(Ca0.5Sr0.5)3Cu2Ox, Tl2Ba2Ca2Ox ceramics and GdBa2Cu3Ox single crystals. Physica B: Condensed Matter, 1990, 163, 647-648.	2.7	1
130	Vibrational properties of MeNiSn (Me = Ti, Zr, Hf). Solid State Communications, 1990, 74, 829-832.	1.9	18
131	Gap at the Fermi level in the intermetallic vacancy system RBiSn(R=Ti,Zr,Hf). European Physical Journal B, 1989, 75, 167-171.	1.5	229
132	Thermal conductivity of the Bi 2 (Ca 0.5 Sr 0.5) 3 Cu 2 O x , Tl 2 Ba 2 Ca 2 Cu 3 O x ceramics and ErBa 2 Cu 3 O x single crystal. Physica C: Superconductivity and Its Applications, 1989, 162-164, 572-573.	1.2	11
133	Hall effect and magnetotransport of CeAl3 under pressure. Journal of Magnetism and Magnetic Materials, 1988, 76-77, 272-274.	2.3	3
134	Transport and magnetic properties of intermetallic systems RNiM (R = U, Ce, Er, Ho, Tm, Yb, Sc, Ti, Zr, Hf;) Tj ETQq0 0 0 rgBT /Overlock 1	2.3	33
135	Anisotropy of the upper critical field in the magnetic heavyâ€fermion superconductor URu2Si2. Journal of Applied Physics, 1988, 63, 3414-3416.	2.5	9
136	Heavy fermions in kondo lattices. Journal of the Less Common Metals, 1987, 127, 321-327.	0.8	7
137	Hall effect in Kondo lattices in the coherent regime. Solid State Communications, 1987, 61, 161-165.	1.9	4
138	Hall effect and the upper critical field in UBe 13. Journal of Magnetism and Magnetic Materials, 1987, 63-64, 458-460.	2.3	10
139	The superconducting Kondo lattice: CeCu 2 Si 2. Journal of Magnetism and Magnetic Materials, 1987, 63-64, 472-474.	2.3	7
140	The superconducting Kondo lattice: CeCu2Si2. European Physical Journal B, 1985, 58, 213-217.	1.5	7
141	Electric and magnetic properties of the Kondo-lattice compound CeCu2Si2. Journal of Low Temperature Physics, 1984, 57, 61-93.	1.4	94
142	Superconductivity in CeCu2Si2. Solid State Communications, 1983, 45, 215-218.	1.9	68
143	The appearance of the many-body resonance at the Fermi level in Kondo-lattices. Solid State Communications, 1983, 47, 693-697.	1.9	40