

Jan M Van Ruitenbeek

List of Publications by Year in descending order

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156
papers

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all docs

160
docs citations

160
times ranked

6467
citing authors

#	ARTICLE	IF	CITATIONS
1	Current-Induced One-Dimensional Diffusion of Co Adatoms on Graphene Nanoribbons. Nano Letters, 2021, 21, 8794-8799.	4.5	4
2	Direct evidence for Cooper pairing without a spectral gap in a disordered superconductor above T_c . Science, 2021, 374, 608-611.	6.0	23
3	Advances and challenges in single-molecule electron transport. Reviews of Modern Physics, 2020, 92, .	16.4	184
4	Identification of vibration modes in single-molecule junctions by strong inelastic signals in noise. Nanoscale, 2019, 11, 19462-19467.	2.8	7
5	Intuitive human interface to a scanning tunnelling microscope: observation of parity oscillations for a single atomic chain. Beilstein Journal of Nanotechnology, 2019, 10, 337-348.	1.5	2
6	Dynamic Tunneling Junctions at the Atomic Intersection of Two Twisted Graphene Edges. Nano Letters, 2018, 18, 2505-2510.	4.5	15
7	On the Formation of a Conducting Surface Channel by Ionic-Liquid Gating of an Insulator. Annalen Der Physik, 2018, 530, 1700449.	0.9	2
8	Anomalous Nonlinear Shot Noise at High Voltage Bias. Nano Letters, 2018, 18, 5217-5223.	4.5	12
9	ON the Nature of Ionic Liquid Gating of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. International Journal of Molecular Sciences, 2018, 19, 566.	1.8	1
10	Towards Controlled Single-Molecule Manipulation Using "Real-Time" Molecular Dynamics Simulation: A GPU Implementation. Micromachines, 2018, 9, 270.	1.4	4
11	In situ transmission electron microscope formation of a single-crystalline Bi film on an amorphous substrate. Applied Physics Letters, 2017, 110, 103101.	1.5	5
12	On the nature of ionic liquid gating of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ thin films. Low Temperature Physics, 2017, 43, 290-295.	0.2	2
13	Efficient seed-mediated method for the large-scale synthesis of Au nanorods. Journal of Nanoparticle Research, 2017, 19, 115.	0.8	19
14	Fast and accurate shot noise measurements on atomic-size junctions in the MHz regime. Review of Scientific Instruments, 2017, 88, 093903.	0.6	11
15	Synthesis and surface enhanced raman scattering properties of gold nanoworms. Materials Today: Proceedings, 2017, 4, 7143-7148.	0.9	2
16	Inhomogeneous broadening of the conductance histograms for molecular junctions. Low Temperature Physics, 2017, 43, 905-909.	0.2	4
17	Robust procedure for creating and characterizing the atomic structure of scanning tunneling microscope tips. Beilstein Journal of Nanotechnology, 2017, 8, 2389-2395.	1.5	12
18	Molecular machines and devices. Beilstein Journal of Nanotechnology, 2016, 7, 310-311.	1.5	0

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19	Molecular Electronics: A Brief Overview of the Status of the Field. , 2016, , 1-23.		3
20	Temperature dependence of spin pumping and Gilbert damping in thin Co/Pt bilayers. Journal of Physics Condensed Matter, 2016, 28, 056004.	0.7	21
21	One-step Synthesis of Cetyltrimethylammonium Bromide Stabilized Spherical Gold Nanoparticles. Journal of Nanoscience With Advanced Technology, 2016, 1, 20-24.	0.8	8
22	Evidence for non-conservative current-induced forces in the breaking of Au and Pt atomic chains. Beilstein Journal of Nanotechnology, 2015, 6, 2338-2344.	1.5	26
23	Detecting Rashba fields at the interface between Co and Si oxide by ferromagnetic resonance. Physical Review B, 2015, 91, .	1.1	7
24	Molecule-assisted ferromagnetic atomic chain formation. Physical Review B, 2015, 91, .	1.1	9
25	Magnetic properties of Sm-Co thin films grown on MgO(100) deposited from a single alloy target. Journal of Applied Physics, 2014, 116, 053903.	1.1	2
26	Tuning the morphology of lead zirconate titanate (PZT) nanostructures. Materials Letters, 2014, 125, 71-74.	1.3	5
27	Facile synthesis of gold nanoworms with a tunable length and aspect ratio through oriented attachment of nanoparticles. Nanoscale, 2014, 6, 13222-13227.	2.8	17
28	Tuning the oriented deposition of gold nanorods on patterned substrates. Nanotechnology, 2014, 25, 035301.	1.3	20
29	Large tunable image-charge effects in single-molecule junctions. Nature Nanotechnology, 2013, 8, 282-287.	15.6	258
30	Electron tunneling into surface states through an inhomogeneous barrier: Asymptotically exact solution of the problem, and STM theory. Low Temperature Physics, 2013, 39, 299-303.	0.2	3
31	Fermi surface contours obtained from scanning tunneling microscope images around surface point defects. New Journal of Physics, 2013, 15, 123013.	1.2	5
32	Shot noise and magnetism of Pt atomic chains: Accumulation of points at the boundary. Physical Review B, 2013, 88, .	1.1	35
33	New directions in point-contact spectroscopy based on scanning tunneling microscopy techniques (Review Article). Low Temperature Physics, 2013, 39, 189-198.	0.2	9
34	Aharonov-Bohm type oscillations in the system of two tunnel point-contacts in the presence of single scatterer: determination of the depth of the buried impurity. Journal of Physics: Conference Series, 2012, 400, 042031.	0.3	0
35	High Currents, When Hot. Physics Magazine, 2012, 5, .	0.1	2
36	Dispersion forces unveiled. Nature Materials, 2012, 11, 834-835.	13.3	13

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37	Conductance of a STM contact on the surface of a thin film. <i>Low Temperature Physics</i> , 2012, 38, 503-510.	0.2	1
38	Observing "quantized" conductance steps in silver sulfide: Two parallel resistive switching mechanisms. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	65
39	Detection of Vibration-Mode Scattering in Electronic Shot Noise. <i>Physical Review Letters</i> , 2012, 108, 146602.	2.9	87
40	Inelastic scattering effects and electronic shot noise. , 2011, , .		1
41	Bulk and surface nucleation processes in Ag $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} / \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ S conductance switches. <i>Physical Review B</i> , 2011, 84, .	1.1	33
42	Quantum interference effects in a system of two tunnel point-contacts in the presence of a single scatterer: simulation of a double-tip STM experiment. <i>Low Temperature Physics</i> , 2011, 37, 53-58.	0.2	7
43	Transition Voltage Spectroscopy and the Nature of Vacuum Tunneling. <i>Nano Letters</i> , 2011, 11, 614-617.	4.5	60
44	Transport through molecular junctions. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 691-692.	1.5	3
45	Charge transport in a zinc "porphyrin single-molecule junction. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 714-719.	1.5	31
46	Influence of the Chemical Structure on the Stability and Conductance of Porphyrin Single-Molecule Junctions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11223-11226.	7.2	56
47	A versatile low-temperature setup for the electrical characterization of single-molecule junctions. <i>Review of Scientific Instruments</i> , 2011, 82, 053907.	0.6	44
48	Theory of oscillations in STM conductance caused by subsurface defects (Review Article). <i>Low Temperature Physics</i> , 2010, 36, 849-864.	0.2	11
49	Sandwich-type gated mechanical break junctions. <i>Nanotechnology</i> , 2010, 21, 265201.	1.3	52
50	Towards a quantitative description of solid electrolyte conductance switches. <i>Nanoscale</i> , 2010, 2, 2275.	2.8	29
51	Molecular signature of highly conductive metal-molecule-metal junctions. <i>Physical Review B</i> , 2009, 80, .	1.1	30
52	Magneto-orientation and quantum size effects in spin-polarized STM conductance in the presence of a subsurface magnetic cluster. <i>Physical Review B</i> , 2009, 80, .	1.1	5
53	Metallic properties of magnesium point contacts. <i>New Journal of Physics</i> , 2009, 11, 073043.	1.2	7
54	Conductance switching in Ag $\langle \text{sub} \rangle 2 \langle / \text{sub} \rangle$ S devices fabricated by <i>in situ</i> sulfurization. <i>Nanotechnology</i> , 2009, 20, 095710.	1.3	75

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55	A Nanoelectromechanical Single-Atom Switch. <i>Nano Letters</i> , 2009, 9, 2940-2945.	4.5	67
56	Atomic wires of carbon. <i>Physics Magazine</i> , 2009, 2, .	0.1	6
57	The signature of a single subsurface defect in the conductance of a tunnel point-contact. <i>Journal of Physics: Conference Series</i> , 2009, 150, 022045.	0.3	2
58	Lithographic mechanical break junctions for single-molecule measurements in vacuum: possibilities and limitations. <i>New Journal of Physics</i> , 2008, 10, 065008.	1.2	123
59	Fullerene-Based Anchoring Groups for Molecular Electronics. <i>Journal of the American Chemical Society</i> , 2008, 130, 13198-13199.	6.6	282
60	The signature of subsurface Kondo impurities in the local tunnel current. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 115208.	0.7	8
61	Formation and properties of metal- α -oxygen atomic chains. <i>New Journal of Physics</i> , 2008, 10, 033005.	1.2	39
62	Mechanical properties of Pt monatomic chains. <i>Physical Review B</i> , 2008, 77, .	1.1	32
63	Electron-Vibration Interaction in Single-Molecule Junctions: From Contact to Tunneling Regimes. <i>Physical Review Letters</i> , 2008, 100, 196804.	2.9	156
64	Aluminum nanowires: Influence of work hardening on conductance histograms. <i>Physical Review B</i> , 2008, 77, .	1.1	17
65	Highly Conductive Molecular Junctions Based on Direct Binding of Benzene to Platinum Electrodes. <i>Physical Review Letters</i> , 2008, 101, 046801.	2.9	287
66	Conductance of a tunnel point contact of noble metals in the presence of a single defect. <i>Low Temperature Physics</i> , 2008, 34, 207-210.	0.2	10
67	Influence of a single defect on the conductance of a tunnel point contact between a normal metal and a superconductor. <i>Low Temperature Physics</i> , 2008, 34, 936-942.	0.2	2
68	Controlled damaging and repair of self-organized nanostructures by atom manipulation at room temperature. <i>Nanotechnology</i> , 2007, 18, 365305.	1.3	8
69	Electronic and atomic shell structure in aluminium nanowires. <i>Nanotechnology</i> , 2007, 18, 265403.	1.3	7
70	The effect of bonding of a CO molecule on the conductance of atomic metal wires. <i>Nanotechnology</i> , 2007, 18, 035205.	1.3	39
71	Formation of a Metallic Contact: Jump to Contact Revisited. <i>Physical Review Letters</i> , 2007, 98, 206801.	2.9	73
72	Magneto-quantum oscillations of the conductance of a tunnel point contact in the presence of a single defect. <i>Physical Review B</i> , 2007, 75, .	1.1	11

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73	Evidence for a Single Hydrogen Molecule Connected by an Atomic Chain. <i>Physical Review Letters</i> , 2007, 98, 146802.	2.9	78
74	Formation of atomic-sized contacts controlled by electrochemical methods. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1677-1685.	0.8	9
75	Contacting Individual Molecules Using Mechanically Controllable Break Junctions. , 2006, , 253-274.		15
76	Oxygen-Enhanced Atomic Chain Formation. <i>Physical Review Letters</i> , 2006, 96, 026806.	2.9	135
77	Shot Noise Measurements on a Single Molecule. <i>Nano Letters</i> , 2006, 6, 789-793.	4.5	172
78	Live-action alloy nanowires. <i>Nature Nanotechnology</i> , 2006, 1, 164-165.	15.6	1
79	Vibrationally Induced Two-Level Systems in Single-Molecule Junctions. <i>Physical Review Letters</i> , 2006, 97, 226806.	2.9	85
80	Signature of Fermi-surface anisotropy in point contact conductance in the presence of defects. <i>Physical Review B</i> , 2006, 74, .	1.1	20
81	éŠ€ã\$ã\$ããŸãfŠãfŽã,1ã,ãffãf+ <i>Nature Digest</i> , 2005, 2, 24-25.	0.0	0
82	Observation of shell effects in nanowires for the noble metals Cu, Ag, and Au. <i>Physical Review B</i> , 2005, 72, .	1.1	59
83	Silver nanoswitch. <i>Nature</i> , 2005, 433, 21-22.	13.7	25
84	Atomic-Size Oscillations in Conductance Histograms for Gold Nanowires and the Influence of Work Hardening. <i>Physical Review Letters</i> , 2005, 95, 256806.	2.9	54
85	Method to determine defect positions below a metal surface by STM. <i>Physical Review B</i> , 2005, 71, .	1.1	28
86	A force sensor for atomic point contacts. <i>Review of Scientific Instruments</i> , 2005, 76, 103903.	0.6	27
87	Stretching dependence of the vibration modes of a single-moleculePtâˆ”H2âˆ”Ptbridge. <i>Physical Review B</i> , 2005, 71, .	1.1	142
88	Absence of magnetically induced fractional quantization in atomic contacts. <i>Physical Review B</i> , 2004, 69, .	1.1	124
89	Observation of electronic and atomic shell effects in gold nanowires. <i>Physical Review B</i> , 2004, 70, .	1.1	30
90	The high-bias stability of monatomic chains. <i>Nanotechnology</i> , 2004, 15, S472-S478.	1.3	98

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91	Quantum properties of atomic-sized conductors. <i>Physics Reports</i> , 2003, 377, 81-279.	10.3	1,404
92	Conductance of single-atom platinum contacts: Voltage dependence of the conductance histogram. <i>Physical Review B</i> , 2003, 67, .	1.1	49
93	Observation of a Parity Oscillation in the Conductance of Atomic Wires. <i>Physical Review Letters</i> , 2003, 91, 076805.	2.9	209
94	Current-induced transition in atomic-sized contacts of metallic alloys. <i>Physical Review B</i> , 2003, 67, .	1.1	33
95	Effect of disorder on the conductance of a Cu atomic point contact. <i>Physical Review B</i> , 2002, 65, .	1.1	44
96	Point-contact studies of the Kondo size effect in the alloys CuMn, CuCr, and AuFe in a magnetic field. <i>Low Temperature Physics</i> , 2002, 28, 123-127.	0.2	1
97	Current-Voltage Curves of Atomic-Sized Transition Metal Contacts: An Explanation of Why Au is Ohmic and Pt is Not. <i>Physical Review Letters</i> , 2002, 89, 066804.	2.9	95
98	Measurement of the conductance of a hydrogen molecule. <i>Nature</i> , 2002, 419, 906-909.	13.7	861
99	Shell effects in alkali metal nanowires. <i>Low Temperature Physics</i> , 2001, 27, 807-820.	0.2	25
100	Atomic-size metallic conductors. <i>Die Naturwissenschaften</i> , 2001, 88, 59-66.	0.6	14
101	Noisy times ahead. <i>Nature</i> , 2001, 410, 424-425.	13.7	3
102	Common Origin for Surface Reconstruction and the Formation of Chains of Metal Atoms. <i>Physical Review Letters</i> , 2001, 87, 266102.	2.9	264
103	Crossover from Electronic to Atomic Shell Structure in Alkali Metal Nanowires. <i>Physical Review Letters</i> , 2001, 87, 216805.	2.9	59
104	Point-contact-spectroscopy investigation of the Kondo size effect in CuCr and AuFe alloys. <i>Low Temperature Physics</i> , 2000, 26, 497-501.	0.2	1
105	Conductance fluctuations as a tool for investigating the quantum modes in atomic-size metallic contacts. <i>Physical Review B</i> , 2000, 61, 2273-2285.	1.1	113
106	Multiple Andreev reflection in single-atom niobium junctions. <i>Physical Review B</i> , 2000, 61, 8561-8569.	1.1	64
107	Supershell Structure in Alkali Metal Nanowires. <i>Physical Review Letters</i> , 2000, 84, 5832-5835.	2.9	73
108	Conductance Quantisation in Metallic Point Contacts. <i>Springer Series in Cluster Physics</i> , 2000, , 175-210.	0.3	6

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109	Observation of Shell Structure in Sodium Nanowires. Lecture Notes in Physics, 2000, , 305-305.	0.3	1
110	Quantum Suppression of Shot Noise in Atom-Size Metallic Contacts. Physical Review Letters, 1999, 82, 1526-1529.	2.9	151
111	Evidence for Saturation of Channel Transmission from Conductance Fluctuations in Atomic-Size Point Contacts. Physical Review Letters, 1999, 82, 1530-1533.	2.9	124
112	Observation of shell structure in sodium nanowires. Nature, 1999, 400, 144-146.	13.7	159
113	Thermopower of atomic-size metallic contacts. Physical Review B, 1999, 59, 12290-12293.	1.1	106
114	Formation and manipulation of a metallic wire of single gold atoms. Nature, 1998, 395, 783-785.	13.7	942
115	The signature of chemical valence in the electrical conduction through a single-atom contact. Nature, 1998, 394, 154-157.	13.7	597
116	Characterization of individual conductance steps in metallic quantum point contacts. Physica B: Condensed Matter, 1998, 252, 69-75.	1.3	51
117	Size-effect of Kondo scattering in point contacts (revisited). Low Temperature Physics, 1998, 24, 495-500.	0.2	0
118	Do Histograms Constitute a Proof for Conductance Quantization?. Physical Review Letters, 1997, 79, 2157-2157.	2.9	74
119	Conductance quantization in metals: The influence of subband formation on the relative stability of specific contact diameters. Physical Review B, 1997, 56, 12566-12572.	1.1	59
120	High stability STM made of a break junction. European Physical Journal D, 1996, 46, 2853-2854.	0.4	3
121	Atomic structure and quantized conductance in metal point contacts. Physica B: Condensed Matter, 1996, 218, 228-233.	1.3	47
122	Adjustable nanofabricated atomic size contacts. Review of Scientific Instruments, 1996, 67, 108-111.	0.6	295
123	Size-dependence study of the spin glassCuMn (1%). Physical Review B, 1996, 53, 15106-15112.	1.1	10
124	Size dependence of Kondo scattering in point contacts: Fe impurities in Cu. Physical Review B, 1996, 53, R476-R479.	1.1	12
125	The signature of conductance quantization in metallic point contacts. Nature, 1995, 375, 767-769.	13.7	555
126	Comment on "Quantized Conductance in an Atom-Sized Point Contact". Physical Review Letters, 1995, 74, 2146-2146.	2.9	55

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127	Size Dependence of Kondo Scattering in Point Contacts. <i>Physical Review Letters</i> , 1995, 74, 302-305.	2.9	69
128	Subgap Structure as Function of the Barrier in Atom-Size Superconducting Tunnel Junctions. <i>Physical Review Letters</i> , 1994, 73, 2611-2613.	2.9	96
129	Subquantum conductance steps in atom-sized contacts of the semimetal Sb. <i>Physical Review B</i> , 1994, 50, 17659-17661.	1.1	42
130	Quenching of Magnetic Moments by Ligand-Metal Interactions in Nanosized Magnetic Metal Clusters. <i>Physical Review Letters</i> , 1994, 73, 1432-1435.	2.9	181
131	Magnetic Properties of Metal Cluster Compounds. <i>Physics and Chemistry of Materials With Low-dimensional Structures</i> , 1994, , 277-306.	1.0	7
132	SIZE EFFECTS IN ORBITAL MAGNETISM. <i>Modern Physics Letters B</i> , 1993, 07, 1053-1069.	1.0	11
133	One-atom point contacts. <i>Physical Review B</i> , 1993, 48, 14721-14724.	1.1	330
134	Classical limit of microwave detection in atomic-sized superconducting contacts. <i>Physical Review B</i> , 1993, 48, 10622-10625.	1.1	0
135	Conductance and supercurrent discontinuities in atomic-scale metallic constrictions of variable width. <i>Physical Review Letters</i> , 1992, 69, 140-143.	2.9	420
136	Experimental observation of the transition from weak link to tunnel junction. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 191, 485-504.	0.6	334
137	Size-dependent magnetisation of Pd clusters and colloids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 170, 325-333.	0.9	50
138	Orbital magnetism in finite size systems. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1991, 19, 247-250.	1.0	13
139	Metallic susceptibility in giant molecule: Pd ₅₆₁ Phen ₃₆ O ₂₀₀ . <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1991, 19, 267-270.	1.0	6
140	Model calculation of size effects in orbital magnetism. <i>Physical Review Letters</i> , 1991, 67, 640-643.	2.9	47
141	Oxygen 1s-x-ray absorption of BaPb _{1-x} Bi _x O ₃ . <i>Physical Review B</i> , 1991, 44, 5280-5285.	1.1	15
142	Measurement of the London moment in two high-temperature superconductors. <i>Nature</i> , 1990, 345, 418-419.	13.7	38
143	The effect of the oxygen content in Pb ₂ SrLaCu ₂ O _{6+δ} and Pb ₂ Ba ₂ YCu ₃ O _{8+δ} on the structural and superconducting properties. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 166, 502-512.	0.6	21
144	Properties of a new copper ternary compound La ₂ Sr ₆ Cu ₈ O _{18+δ} . <i>Solid State Communications</i> , 1990, 73, 291-295.	0.9	17

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145	Shubnikovâ€™de Haas oscillations in intercalation compounds of 2H-TaS ₂ . Physical Review B, 1989, 40, 115-118.	1.1	6
146	Superconductivity in (Pb, Bi) ₂ Sr ₂ ~xLa _x Cu ₂ O ₆ +Î. Physica C: Superconductivity and Its Applications, 1989, 159, 81-86.	0.6	95
147	Structural and transport properties of the triple-layer compounds Ba ₄ (Pb ₁ ~xBi _x) ₃ O ₁₀ (0â‰% x<0.3). Solid State Communications, 1989, 70, 1117-1121.	0.9	46
148	Magnetic field dependence of the cyclotron effective mass in the Kondo lattice CeB ₆ . Journal of Applied Physics, 1988, 63, 3893-3895.	1.1	3
149	MAGNETIC FIELD DEPENDENCE OF THE CYCLOTRON MASS IN THE KONDO LATTICE CeB ₆ . Journal De Physique Colloque, 1988, 49, C8-747-C8-751.	0.2	0
150	de Haasâ€™van Alphen effect in MoSi ₂ . Physical Review B, 1987, 35, 7936-7938.	1.1	18
151	Observation of the magnetic field dependence of the cyclotron mass in the Kondo lattice CeB ₆ . Physical Review Letters, 1987, 59, 1609-1612.	2.9	93
152	Suppression of the Mass Enhancement in CeB ₆ in High Magnetic Fields. Japanese Journal of Applied Physics, 1987, 26, 507.	0.8	3
153	Study of 2D Electron Gas Properties in Acceptor Graphite Intercalated Compounds. Japanese Journal of Applied Physics, 1987, 26, 633.	0.8	4
154	Magnetoresistivity of the spin-fluctuation materials TiBe ₂ and UAl ₂ . Physical Review B, 1986, 34, 8507-8511.	1.1	10
155	Geometry and field dependence of the Fermi surface in TiBe ₂ studied with the DHVA effect in fields up to 35 T. Journal of Physics F: Metal Physics, 1984, 14, 2555-2569.	1.6	6
156	A de Haas-van Alphen study of the field dependence of the Fermi surface in ZrZn ₂ . Journal of Physics F: Metal Physics, 1982, 12, 2919-2928.	1.6	39