

Teun M Klapwijk

List of Publications by Year in descending order

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349
papers

19,837
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351
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351
times ranked

12382
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition from metallic to tunneling regimes in superconducting microconstrictions: Excess current, charge imbalance, and supercurrent conversion. <i>Physical Review B</i> , 1982, 25, 4515-4532.	1.1	3,149
2	Solution-processed ambipolar organic field-effect transistors and inverters. <i>Nature Materials</i> , 2003, 2, 678-682.	13.3	908
3	A spin triplet supercurrent through the half-metallic ferromagnet CrO ₂ . <i>Nature</i> , 2006, 439, 825-827.	13.7	663
4	The Herschel-Heterodyne Instrument for the Far-Infrared (HIFI). <i>Astronomy and Astrophysics</i> , 2010, 518, L6.	2.1	557
5	Subharmonic energy-gap structure in superconducting constrictions. <i>Physical Review B</i> , 1983, 27, 6739-6746.	1.1	422
6	4π-periodic Josephson supercurrent in HgTe-based topological Josephson junctions. <i>Nature Communications</i> , 2016, 7, 10303.	5.8	301
7	Efficient Intermolecular Charge Transport in Self-Assembled Fibers of Mono- and Bithiophene Bisurea Compounds. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1393-1397.	7.2	274
8	Reversing the direction of the supercurrent in a controllable Josephson junction. <i>Nature</i> , 1999, 397, 43-45.	13.7	273
9	Excess conductance of superconductor-semiconductor interfaces due to phase conjugation between electrons and holes. <i>Physical Review Letters</i> , 1992, 69, 510-513.	2.9	269
10	Field-effect transistors on tetracene single crystals. <i>Applied Physics Letters</i> , 2003, 83, 4345-4347.	1.5	265
11	One-dimensional ring in the presence of Rashba spin-orbit interaction: Derivation of the correct Hamiltonian. <i>Physical Review B</i> , 2002, 66, .	1.1	248
12	Experimental Observation of Bias-Dependent Nonlocal Andreev Reflection. <i>Physical Review Letters</i> , 2005, 95, 027002.	2.9	244
13	Gapless Andreev bound states in the quantum spin Hall insulator HgTe. <i>Nature Nanotechnology</i> , 2017, 12, 137-143.	15.6	237
14	Indium contamination from the indium tin oxide electrode in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 1996, 69, 1764-1766.	1.5	233
15	Scaling of nano-Schottky-diodes. <i>Applied Physics Letters</i> , 2002, 81, 3852-3854.	1.5	229
16	Spin-orbit interaction in a two-dimensional electron gas in a InAs/AlSb quantum well with gate-controlled electron density. <i>Physical Review B</i> , 1998, 57, 11911-11914.	1.1	204
17	Dopant density determination in disordered organic field-effect transistors. <i>Journal of Applied Physics</i> , 2003, 93, 4831-4835.	1.1	200
18	Atomic-structure-dependent Schottky barrier at epitaxial Pb/Si(111) interfaces. <i>Physical Review Letters</i> , 1990, 64, 1589-1592.	2.9	196

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19	Ballistic Josephson junctions in edge-contacted graphene. <i>Nature Nanotechnology</i> , 2015, 10, 761-764.	15.6	194
20	Switch-on voltage in disordered organic field-effect transistors. <i>Applied Physics Letters</i> , 2002, 80, 3838-3840.	1.5	187
21	HARP/ACSIS: a submillimetre spectral imaging system on the James Clerk Maxwell Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 399, 1026-1043.	1.6	185
22	Sharp increase of the effective mass near the critical density in a metallic two-dimensional electron system. <i>Physical Review B</i> , 2002, 66, .	1.1	168
23	Terahertz heterodyne receiver based on a quantum cascade laser and a superconducting bolometer. <i>Applied Physics Letters</i> , 2005, 86, 244104.	1.5	167
24	Indication of the Ferromagnetic Instability in a Dilute Two-Dimensional Electron System. <i>Physical Review Letters</i> , 2001, 87, 086801.	2.9	166
25	Ensemble-Average Spectrum of Aharonov-Bohm Conductance Oscillations: Evidence for Spin-Orbit-Induced Berry's Phase. <i>Physical Review Letters</i> , 1998, 80, 1050-1053.	2.9	159
26	Scaling behavior and parasitic series resistance in disordered organic field-effect transistors. <i>Applied Physics Letters</i> , 2003, 82, 4576-4578.	1.5	156
27	Number Fluctuations of Sparse Quasiparticles in a Superconductor. <i>Physical Review Letters</i> , 2011, 106, 167004.	2.9	142
28	Space charge limited transport and time of flight measurements in tetracene single crystals: A comparative study. <i>Journal of Applied Physics</i> , 2004, 95, 1196-1202.	1.1	137
29	Coulomb-blockade transport in single-crystal organic thin-film transistors. <i>Nature</i> , 2000, 404, 977-980.	13.7	134
30	Resistive transition in two-dimensional arrays of superconducting weak links. <i>Physical Review B</i> , 1982, 26, 5268-5271.	1.1	129
31	Hot electron tunable supercurrent. <i>Applied Physics Letters</i> , 1998, 72, 966-968.	1.5	127
32	Critical pair-breaking current in superconducting aluminum strips far below T_c . <i>Physical Review B</i> , 1982, 26, 3648-3655.	1.1	124
33	Low noise superconducting single photon detectors on silicon. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	120
34	Phase-Dependent Resistance in a Superconductor-Two-Dimensional-Electron-Gas Quasiparticle Interferometer. <i>Physical Review Letters</i> , 1995, 74, 602-605.	2.9	118
35	The Meyer-Neldel rule in organic thin-film transistors. <i>Applied Physics Letters</i> , 2000, 76, 3433-3435.	1.5	111
36	Scaling of the Magnetoconductivity of Silicon MOSFETs: Evidence for a Quantum Phase Transition in Two Dimensions. <i>Physical Review Letters</i> , 2001, 87, 086401.	2.9	109

#	ARTICLE	IF	CITATIONS
37	Enhanced tunneling across nanometer-scale metal-semiconductor interfaces. Applied Physics Letters, 2002, 80, 2568-2570.	1.5	108
38	Spin-Independent Origin of the Strongly Enhanced Effective Mass in a Dilute 2D Electron System. Physical Review Letters, 2003, 91, 046403.	2.9	107
39	Entangled Andreev pairs and collective excitations in nanoscale superconductors. Nature Physics, 2007, 3, 455-459.	6.5	107
40	Strongly Disordered TiN and NbTiN s -Wave Superconductors Probed by Microwave Electrodynamics. Physical Review Letters, 2012, 109, 107003.	2.9	104
41	Proximity Effect From an Andreev Perspective. Journal of Superconductivity and Novel Magnetism, 2004, 17, 593-611.	0.5	101
42	Enhanced telecom wavelength single-photon detection with NbTiN superconducting nanowires on oxidized silicon. Applied Physics Letters, 2010, 96, .	1.5	99
43	Small-Angle Shubnikov-de Haas Measurements in a 2D Electron System: The Effect of a Strong In-Plane Magnetic Field. Physical Review Letters, 2000, 85, 2164-2167.	2.9	97
44	Observation of Andreev Reflection Enhanced Shot Noise. Physical Review Letters, 1997, 79, 3486-3489.	2.9	93
45	Fluctuations in the electron system of a superconductor exposed to a photon flux. Nature Communications, 2014, 5, 3130.	5.8	93
46	Evidence of a Nonequilibrium Distribution of Quasiparticles in the Microwave Response of a Superconducting Aluminum Resonator. Physical Review Letters, 2014, 112, 047004.	2.9	93
47	Minimal resonator loss for circuit quantum electrodynamics. Applied Physics Letters, 2010, 97, .	1.5	92
48	Mobile ionic impurities in organic semiconductors. Journal of Applied Physics, 2003, 93, 2082-2090.	1.1	89
49	Contribution of dielectrics to frequency and noise of NbTiN superconducting resonators. Applied Physics Letters, 2008, 92, .	1.5	88
50	Critical-current reduction in thin superconducting wires due to current crowding. Applied Physics Letters, 2012, 100, .	1.5	84
51	Flow diagram of the metal-insulator transition in two dimensions. Nature Physics, 2007, 3, 707-710.	6.5	82
52	Quasiparticle Relaxation in Optically Excited High- Q Superconducting Resonators. Physical Review Letters, 2008, 100, 257002.	2.9	81
53	Probing Dynamics of an Electron-Spin Ensemble via a Superconducting Resonator. Physical Review Letters, 2013, 110, 067004.	2.9	80
54	Quantum breakdown of superconductivity in low-dimensional materials. Nature Physics, 2020, 16, 734-746.	6.5	80

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55	Radiation-stimulated superconductivity. <i>Journal of Low Temperature Physics</i> , 1977, 26, 385-405.	0.6	79
56	Phase locking of a 27 THz quantum cascade laser to a microwave reference. <i>Optics Letters</i> , 2009, 34, 2958.	1.7	79
57	Temperature and angular dependence of the anisotropic magnetoresistance in epitaxial Fe films. <i>Physical Review B</i> , 2001, 63, .	1.1	76
58	Universal Behavior of the Resistance Noise across the Metal-Insulator Transition in Silicon Inversion Layers. <i>Physical Review Letters</i> , 2002, 89, 276401.	2.9	76
59	Doubling of sensitivity and bandwidth in phonon cooled hot electron bolometer mixers. <i>Applied Physics Letters</i> , 2004, 84, 1958-1960.	1.5	76
60	Efficient blue LEDs from a partially conjugated Si-containing PPV copolymer in a double-layer configuration. <i>Advanced Materials</i> , 1997, 9, 127-131.	11.1	75
61	Hot electron bolometer heterodyne receiver with a 4.7-THz quantum cascade laser as a local oscillator. <i>Applied Physics Letters</i> , 2013, 102, 011123.	1.5	75
62	Carrier transport in mesoscopic silicon-coupled superconducting junctions. <i>Physical Review B</i> , 1993, 47, 5170-5189.	1.1	74
63	Spin-accumulation-induced resistance in mesoscopic ferromagnet-superconductor junctions. <i>Physical Review B</i> , 1999, 60, 16549-16552.	1.1	74
64	Noise and Sensitivity of Aluminum Kinetic Inductance Detectors for Sub-mm Astronomy. <i>Journal of Low Temperature Physics</i> , 2008, 151, 524-529.	0.6	74
65	Extreme critical-temperature enhancement of Al by tunneling in Nb/AlO _x /Al/AlO _x /Nb tunnel junctions. <i>Physical Review Letters</i> , 1991, 66, 220-223.	2.9	71
66	Antenna Model for Wire Lasers. <i>Physical Review Letters</i> , 2006, 96, 173904.	2.9	71
67	Superconducting single photon detectors with minimized polarization dependence. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	70
68	High optical efficiency and photon noise limited sensitivity of microwave kinetic inductance detectors using phase readout. <i>Applied Physics Letters</i> , 2013, 103, 203503.	1.5	68
69	Flux sensitivity of a piecewise normal and superconducting metal loop. <i>Physical Review B</i> , 1986, 33, 5114-5117.	1.1	66
70	Nonlocal supercurrent in mesoscopic Josephson junctions. <i>Physical Review B</i> , 1998, 57, R5618-R5621.	1.1	64
71	Frequency behavior and the Mott-Schottky analysis in poly(3-hexyl thiophene) metal-insulator-semiconductor diodes. <i>Applied Physics Letters</i> , 2001, 78, 3902-3904.	1.5	63
72	Quantum noise in a terahertz hot electron bolometer mixer. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	63

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73	Hotspot mixing: A framework for heterodyne mixing in superconducting hot-electron bolometers. Applied Physics Letters, 1999, 74, 433-435.	1.5	62
74	In-plane magnetoconductivity of Si MOSFETs: A quantitative comparison of theory and experiment. Physical Review B, 2003, 67, .	1.1	62
75	Transport in MultiTerminal Normal-Superconductor Devices: Reciprocity Relations, Negative and Nonlocal Resistances, and Reentrance of the Proximity Effect. Physical Review Letters, 1996, 77, 4954-4957.	2.9	61
76	Sample-Specific Conductance Fluctuations Modulated by the Superconducting Phase. Physical Review Letters, 1996, 76, 4592-4595.	2.9	61
77	Metallic Low-Temperature Resistivity in a 2D Electron System Over an Extended Temperature Range. Physical Review Letters, 2000, 84, 2909-2912.	2.9	61
78	Enhancement of superconductivity far above the critical temperature in double-barrier tunnel junctions. Physical Review B, 1993, 47, 5157-5164.	1.1	60
79	Metal-Insulator Transition in a 2D Electron Gas: Equivalence of Two Approaches for Determining the Critical Point. Physical Review Letters, 2001, 87, 266402.	2.9	60
80	Low gap superconducting single photon detectors for infrared sensitivity. Applied Physics Letters, 2011, 98, .	1.5	60
81	Pauli Spin Susceptibility of a Strongly Correlated Two-Dimensional Electron Liquid. Physical Review Letters, 2006, 96, 036403.	2.9	58
82	Low noise NbN hot electron bolometer mixer at 4.3THz. Applied Physics Letters, 2007, 91, .	1.5	58
83	Millimetronâ€”a large Russian-European submillimeter space observatory. Experimental Astronomy, 2009, 23, 221-244.	1.6	58
84	Josephson junction dynamics in the presence of $2\pi\Phi_0$ and $4\pi\Phi_0$ -periodic supercurrents. Physical Review B, 2017, 95, .	1.1	57
85	Competition between spin-orbit interaction and Zeeman coupling in Rashba two-dimensional electron gases. Physical Review B, 2004, 70, .	1.1	56
86	Position controlled nanowires for infrared single photon emission. Applied Physics Letters, 2010, 97, .	1.5	55
87	The ALMA Band 9 receiver. Astronomy and Astrophysics, 2015, 577, A129.	2.1	55
88	Low-noise 1 THz superconductorâ€”insulatorâ€”superconductor mixer incorporating a NbTiN/SiO ₂ /Al tuning circuit. Applied Physics Letters, 2001, 79, 436-438.	1.5	54
89	Resistance of superconducting nanowires connected to normal-metal leads. Physical Review B, 2004, 69, .	1.1	54
90	Coherent flux tunneling through NbN nanowires. Physical Review B, 2013, 88, .	1.1	54

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91	Direct Observation of the Transition from the Conventional Superconducting State to the d -Wave State in a Controllable Josephson Junction. <i>Physical Review Letters</i> , 2002, 89, 207002.	2.9	51
92	Enhanced conductance near zero voltage bias in mesoscopic superconductor-semiconductor junctions. <i>Physical Review B</i> , 1994, 50, 4594-4599.	1.1	50
93	Universal Spin-Induced Time Reversal Symmetry Breaking in Two-Dimensional Electron Gases with Rashba Spin-Orbit Interaction. <i>Physical Review Letters</i> , 2005, 94, 186805.	2.9	49
94	Effect of the top electrode work function on the rectification ratio of light-emitting diodes (LEDs) based on poly(3-octylthiophene)., 1995, , .		48
95	Phase Conjugated Andreev Backscattering in Two-Dimensional Ballistic Cavities. <i>Physical Review Letters</i> , 1997, 78, 2636-2639.	2.9	47
96	Single crystallites in α -planar polycrystalline α -oligothiophene films: Determination of orientation and thickness by polarization microscopy. <i>Journal of Applied Physics</i> , 1998, 83, 3816-3824.	1.1	47
97	Response to parallel magnetic field of a dilute two-dimensional electron system across the metal-insulator transition. <i>Physical Review B</i> , 1999, 60, R5093-R5096.	1.1	47
98	Current contacts and the breakdown of the quantum Hall effect. <i>Physical Review B</i> , 1990, 42, 11267-11275.	1.1	46
99	Intrinsic charge transport properties of an organic single crystal determined using a multiterminal thin-film transistor. <i>Applied Physics Letters</i> , 1998, 73, 3884-3886.	1.5	45
100	Zero-bias conductance peak and Josephson effect in graphene-NbTiN junctions. <i>Physical Review B</i> , 2012, 85, .	1.1	45
101	Regimes in the behavior of superconducting microbridges. <i>Journal of Low Temperature Physics</i> , 1977, 27, 801-835.	0.6	44
102	Low noise NbN superconducting hot electron bolometer mixers at 1.9 and 2.5 THz. <i>Superconductor Science and Technology</i> , 2004, 17, S224-S228.	1.8	44
103	Monocrystalline NbN nanofilms on a 3C-SiC α -Si substrate. <i>Applied Physics Letters</i> , 2007, 91, 062504.	1.5	44
104	Niobium and Tantalum High Q Resonators for Photon Detectors. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 263-266.	1.1	44
105	Coherent Excited States in Superconductors due to a Microwave Field. <i>Physical Review Letters</i> , 2016, 117, 047002.	2.9	44
106	Proximity-Induced Shiba States in a Molecular Junction. <i>Physical Review Letters</i> , 2017, 118, 117001.	2.9	44
107	Influence of the gate leakage current on the stability of organic single-crystal field-effect transistors. <i>Applied Physics Letters</i> , 2005, 86, 032103.	1.5	43
108	Electrodynamic response and local tunneling spectroscopy of strongly disordered superconducting TiN films. <i>Physical Review B</i> , 2013, 88, .	1.1	43

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109	Influence of low energy Ar sputtering on the electronic properties of InAs-based quantum well structures. Applied Physics Letters, 1995, 67, 3569-3571.	1.5	42
110	Quantitative study of magnetotransport through a (Ga,Mn)As single ferromagnetic domain. Physical Review B, 2005, 71, .	1.1	41
111	High-resolution heterodyne spectroscopy using a tunable quantum cascade laser around 3.5 THz. Applied Physics Letters, 2011, 98, .	1.5	41
112	Self-Assembly of Low-Dimensional Arrays of Thiophene Oligomers from Solution on Solid Substrates. Advanced Materials, 2000, 12, 563-566.	11.1	40
113	Stark effect in shallow impurities in Si. Physical Review B, 2004, 70, .	1.1	40
114	Magnetic-Field Dependence of the Anomalous Noise Behavior in a Two-Dimensional Electron System in Silicon. Physical Review Letters, 2004, 92, 226403.	2.9	40
115	Superconducting NbTiN Thin Films With Highly Uniform Properties Over a \varnothing 100 mm Wafer. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	39
116	Current-induced vortex unbinding in bolometer mixers. Applied Physics Letters, 2005, 87, 263506.	1.5	38
117	Enhancement of quasiparticle recombination in Ta and Al superconductors by implantation of magnetic and nonmagnetic atoms. Physical Review B, 2009, 79, .	1.1	38
118	Energy Spectroscopy of Andreev Levels between Two Superconductors. Physical Review Letters, 1997, 79, 4010-4013.	2.9	37
119	Direct detection effect in small volume hot electron bolometer mixers. Applied Physics Letters, 2005, 86, 163503.	1.5	37
120	Reduced frequency noise in superconducting resonators. Applied Physics Letters, 2010, 97, .	1.5	37
121	Phase-slip centers in superconducting aluminum strips. Journal of Low Temperature Physics, 1983, 53, 633-671.	0.6	36
122	Heterodyne mixing with Nb tunnel junctions above the gap frequency. Applied Physics Letters, 1994, 64, 3039-3041.	1.5	36
123	First light demonstration of the integrated superconducting spectrometer. Nature Astronomy, 2019, 3, 989-996.	4.2	36
124	Light emission in reverse bias operation from poly(octylthiophene)-based light emitting diodes. Applied Physics Letters, 1995, 66, 2540-2542.	1.5	35
125	Microwave-induced excess quasiparticles in superconducting resonators measured through correlated conductivity fluctuations. Applied Physics Letters, 2012, 100, .	1.5	35
126	Critical Voltage of a Mesoscopic Superconductor. Physical Review Letters, 2006, 96, 147002.	2.9	34

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127	Surface plasmon quantum cascade lasers as terahertz local oscillators. <i>Optics Letters</i> , 2008, 33, 312.	1.7	34
128	Evanescent states and nonequilibrium in driven superconducting nanowires. <i>Physical Review B</i> , 2012, 85, .	1.1	33
129	Observation of double-gap-edge Andreev reflection at Si/Nb interfaces by point-contact spectroscopy. <i>Physical Review B</i> , 1994, 49, 10484-10494.	1.1	32
130	Spin polarization of strongly interacting two-dimensional electrons: The role of disorder. <i>Physical Review B</i> , 2002, 65, .	1.1	32
131	Gate-induced ionization of single dopant atoms. <i>Physical Review B</i> , 2003, 68, .	1.1	32
132	Noise temperature and beam pattern of an NbN hot electron bolometer mixer at 5.25 THz. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	32
133	Frequency locking of single-mode 3.5-THz quantum cascade lasers using a gas cell. <i>Applied Physics Letters</i> , 2012, 100, 041111.	1.5	32
134	Generation-Recombination Noise: The Fundamental Sensitivity Limit for Kinetic Inductance Detectors. <i>Journal of Low Temperature Physics</i> , 2012, 167, 335-340.	0.6	32
135	On-chip filter bank spectroscopy at 600–700 GHz using NbTiN superconducting resonators. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	32
136	Transport spectroscopy of induced superconductivity in the three-dimensional topological insulator HgTe. <i>Physical Review B</i> , 2017, 96, .	1.1	32
137	Full characterization and analysis of a terahertz heterodyne receiver based on a NbN hot electron bolometer. <i>Journal of Applied Physics</i> , 2006, 100, 074507.	1.1	31
138	Design of an Integrated Filterbank for DESHIMA: On-Chip Submillimeter Imaging Spectrograph Based on Superconducting Resonators. <i>Journal of Low Temperature Physics</i> , 2012, 167, 341-346.	0.6	31
139	Spatial conductivity mapping of unprotected and capped black phosphorus using microwave microscopy. <i>2D Materials</i> , 2016, 3, 021002.	2.0	31
140	Current Contacts and Current Distribution in the Quantum Hall Effect. <i>Europhysics Letters</i> , 1990, 12, 429-434.	0.7	30
141	Stability of heterodyne terahertz receivers. <i>Journal of Applied Physics</i> , 2006, 100, 064904.	1.1	30
142	Terahertz heterodyne spectrometer using a quantum cascade laser. <i>Applied Physics Letters</i> , 2010, 97, 161105.	1.5	30
143	Microwave Properties of Superconducting Atomic-Layer Deposited TiN Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 7500404-7500404.	1.1	30
144	Wideband on-chip terahertz spectrometer based on a superconducting filterbank. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.0	30

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145	Medium-energy ion-scattering study of a possible relation between the Schottky-barrier height and the defect density at NiSi ₂ /Si(111) interfaces. <i>Physical Review B</i> , 1990, 42, 9598-9608.	1.1	29
146	Interaction between moving flux lines and a two-dimensional electron gas. <i>Physical Review Letters</i> , 1991, 67, 2725-2728.	2.9	29
147	Temperature dependence of the resistivity of a dilute two-dimensional electron system in high parallel magnetic field. <i>Physical Review B</i> , 2001, 63, .	1.1	29
148	Magnetization of a Strongly Interacting Two-Dimensional Electron System in Perpendicular Magnetic Fields. <i>Physical Review Letters</i> , 2006, 96, 046409.	2.9	29
149	The electron-phonon relaxation time in thin superconducting titanium nitride films. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	29
150	Engineering Physics of Superconducting Hot-Electron Bolometer Mixers. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2017, 7, 627-648.	2.0	29
151	Temperature and interface-roughness dependence of the electron mobility in high-mobility Si(100) inversion layers below 4.2 K. <i>Physical Review B</i> , 1991, 43, 6642-6649.	1.1	28
152	Spin polarization of two-dimensional electrons determined from Shubnikovâ€ˆde Haas oscillations as a function of angle. <i>Physical Review B</i> , 2001, 64, .	1.1	28
153	Noise in NbTiN, Al, and Ta Superconducting Resonators on Silicon and Sapphire Substrates. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 936-939.	1.1	28
154	Nonlinear resistivity at the metal-insulator transition in a two-dimensional electron gas. <i>Physical Review B</i> , 1998, 58, R1754-R1757.	1.1	27
155	Optimization of RF- and DC-sputtered NbTiN films for integration with Nb-based SIS junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 1716-1719.	1.1	27
156	Frequency and amplitude stabilized terahertz quantum cascade laser as local oscillator. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	27
157	Electrically detected ferromagnetic resonance. <i>Applied Physics Letters</i> , 2007, 90, 162507.	1.5	26
158	3.4 THz heterodyne receiver using a hot electron bolometer and a distributed feedback quantum cascade laser. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	26
159	Hybrid rf SQUID qubit based on high kinetic inductance. <i>Scientific Reports</i> , 2018, 8, 10033.	1.6	26
160	Reentrant behavior in the superconducting phase-dependent resistance of a disordered two-dimensional electron gas. <i>Physical Review B</i> , 1997, 56, 13738-13741.	1.1	25
161	Direct response of twin-slot antenna-coupled hot-electron bolometer mixers designed for 2.5 THz radiation detection. <i>Applied Physics Letters</i> , 2000, 76, 3304-3306.	1.5	25
162	Coherent Backscattering near the Two-Dimensional Metal-Insulator Transition. <i>Physical Review Letters</i> , 2003, 91, 116402.	2.9	25

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163	Epitaxial aluminum nitride tunnel barriers grown by nitridation with a plasma source. Applied Physics Letters, 2007, 91, .	1.5	25
164	Photothermoelectric response in asymmetric carbon nanotube devices exposed to sub-terahertz radiation. Applied Physics Letters, 2013, 103, .	1.5	25
165	Compact integrated dc SQUID gradiometer. Applied Physics Letters, 1982, 41, 669-671.	1.5	24
166	Inelastic scattering rate for electrons in thin aluminum films determined from the minimum frequency for microwave stimulation of superconductivity. Physical Review B, 1984, 29, 1503-1505.	1.1	24
167	Nonequilibrium distribution of edge and bulk current in a quantum Hall conductor. Physical Review B, 1991, 43, 6764-6767.	1.1	24
168	Submicron niobium junctions for submillimeter-wave mixers using optical lithography. Applied Physics Letters, 1993, 62, 774-776.	1.5	24
169	Andreev reflection in nanoscale metal-superconductor devices. Physical Review B, 1994, 50, 631-634.	1.1	24
170	Giant Andreev Backscattering through a Quantum Point Contact Coupled via a Disordered Two-Dimensional Electron Gas to Superconductors. Physical Review Letters, 1997, 79, 3250-3253.	2.9	24
171	Resistive transition of niobium superconducting hot-electron bolometer mixers. Applied Physics Letters, 1998, 73, 2826-2828.	1.5	24
172	Critical currents in ballistic two-dimensional InAs-based superconducting weak links. Physical Review B, 1999, 60, 13135-13138.	1.1	24
173	NbN Hot Electron Bolometer Mixers: Sensitivity, LO Power, Direct Detection and Stability. IEEE Transactions on Applied Superconductivity, 2005, 15, 484-489.	1.1	24
174	IF impedance and mixer gain of NbN hot electron bolometers. Journal of Applied Physics, 2007, 101, 044511.	1.1	24
175	High-performance dc SQUIDs with submicrometer niobium Josephson junctions. Journal of Low Temperature Physics, 1983, 53, 287-312.	0.6	23
176	Observation of carrier-concentration-dependent reflectionless tunneling in a superconductor-two-dimensional-electron-gas superconductor structure. Physical Review B, 1994, 49, 13275-13278.	1.1	23
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