Teun M Klapwijk

List of Publications by Year in Descending Order

329 papers	17,230 citations	62 h-index	121 g-index
351 ext. papers	18,604 ext. citations	4.8 avg, IF	6.21 L-index

#	Paper	IF	Citations
329	Direct evidence for Cooper pairing without a spectral gap in a disordered superconductor above. *Science*, **2021**, 374, 608-611	33.3	4
328	Directional electron filtering at a superconductor-semiconductor interface. *Physical Review B*, **2021**, 103,	3.3	2
327	Dependence of Photon Detection Efficiency on Normal-State Sheet Resistance in Marginally Superconducting Films of NbN. *IEEE Transactions on Applied Superconductivity*, **2021**, 31, 1-5	1.8	3
326	Quantum breakdown of superconductivity in low-dimensional materials. *Nature Physics*, **2020**, 16, 734-746	16.2	21
325	Analysis of a single-mode waveguide at sub-terahertz frequencies as a communication channel. *AIP Advances*, **2020**, 10, 015008	1.5	0
324	DESHIMA on ASTE: On-Sky Responsivity Calibration of the Integrated Superconducting Spectrometer. *Journal of Low Temperature Physics*, **2020**, 199, 231-239	1.3	2
323	First light demonstration of the integrated superconducting spectrometer. *Nature Astronomy*, **2019** , 3, 989-996	12.1	15
322	Wideband on-chip terahertz spectrometer based on a superconducting filterbank. *Journal of Astronomical Telescopes, Instruments, and Systems*, **2019**, 5, 1	1.1	11
321	Shielded cantilever with on-chip interferometer circuit for THz scanning probe impedance microscopy. *Review of Scientific Instruments*, **2019**, 90, 113701	1.7	1
320	Hybrid rf SQUID qubit based on high kinetic inductance. *Scientific Reports*, **2018**, 8, 10033	4.9	14
319	Transport regimes of a split gate superconducting quantum point contact in the two-dimensional LaAlO/SrTiO superfluid. *Nature Communications*, **2018**, 9, 2276	17.4	11
318	Josephson Parametric Reflection Amplifier with Integrated Directionality. *Physical Review Applied*, **2018**, 9,	4.3	9
317	Microwave Studies of the Fractional Josephson Effect in HgTe-Based Josephson Junctions. *Springer Series in Solid-state Sciences*, **2018**, 115-148	0.4	1
316	Superconductivity in the presence of microwaves: Full phase diagram. *Physical Review B*, **2018**, 97,	3.3	13
315	Reactive Magnetron Sputter Deposition of Superconducting Niobium Titanium Nitride Thin Films With Different Target Sizes. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-5	1.8	9
314	Superconducting NbTin Thin Films With Highly Uniform Properties Over a ${varnothing}$ 100 mm Wafer. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-5	1.8	25
313	Proximity-Induced Shiba States in a Molecular Junction. *Physical Review Letters*, **2017**, 118, 117001	7.4	29

312	Slow Electron–Phonon Cooling in Superconducting Diamond Films. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-4	1.8	3
311	Transport spectroscopy of induced superconductivity in the three-dimensional topological insulator HgTe. *Physical Review B*, **2017**, 96,	3.3	26
310	Performance of THz Components Based on Microstrip PECVD SiNx Technology. *IEEE Transactions on Terahertz Science and Technology*, **2017**, 7, 765-771	3.4	3
309	Josephson junction dynamics in the presence of 2- and 4-periodic supercurrents. *Physical Review B*, **2017**, 95,	3.3	38
308	Transport Properties of an Electron-Hole Bilayer in Contact with a Superconductor Hybrid Junction. *Physical Review Letters*, **2017**, 119, 067001	7.4	2
307	Gapless Andreev bound states in the quantum spin Hall insulator HgTe. *Nature Nanotechnology*, **2017**, 12, 137-143	28.7	163
306	Engineering Physics of Superconducting Hot-Electron Bolometer Mixers. *IEEE Transactions on Terahertz Science and Technology*, **2017**, 7, 627-648	3.4	21
305	Relaxation of the resistive superconducting state in boron-doped diamond films. *Physical Review B*, **2016**, 93,	3.3	9
304	Coherent Excited States in Superconductors due to a Microwave Field. *Physical Review Letters*, **2016** , 117, 047002	7.4	31
303	4-periodic Josephson supercurrent in HgTe-based topological Josephson junctions. *Nature Communications*, **2016**, 7, 10303	17.4	211
302	Spatial conductivity mapping of unprotected and capped black phosphorus using microwave microscopy. *2D Materials*, **2016**, 3, 021002	5.9	29
301	Branchline and directional THz coupler based on PECVD SiNx-technology **2016**,		1
300	Nonequilibrium interpretation of DC properties of NbN superconducting hot electron bolometers. *Applied Physics Letters*, **2016**, 109, 132602	3.4	12
299	Superconducting Coplanar Waveguide Filters for Submillimeter Wave On-Chip Filterbank Spectrometers. *Journal of Low Temperature Physics*, **2016**, 184, 412-417	1.3	1
298	Ballistic Josephson junctions in edge-contacted graphene. *Nature Nanotechnology*, **2015**, 10, 761-4	28.7	151
297	Electronic Transport and Possible Superconductivity at Van Hove Singularities in Carbon Nanotubes. *Nano Letters*, **2015**, 15, 7859-66	11.5	11
296	Superconducting molybdenum-rhenium electrodes for single-molecule transport studies. *Applied Physics Letters*, **2015**, 106, 222602	3.4	6
295	NbN Hot-Electron-Bolometer Mixer for Operation in the Near-IR Frequency Range. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	6

294	Electron-Phonon Energy Relaxation Time in Thin Strongly Disordered Titanium Nitride Films. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	4
293	The non-equilibrium response of a superconductor to pair-breaking radiation measured over a broad frequency band. *Applied Physics Letters*, **2015**, 106, 252602	3.4	11
292	The ALMA Band 9 receiver. *Astronomy and Astrophysics*, **2015**, 577, A129	5.1	42
291	Performance of hybrid NbTiN-Al microwave kinetic inductance detectors as direct detectors for sub-millimeter astronomy **2014**,		8
290	Direct observation of ballistic Andreev reflection. *Journal of Experimental and Theoretical Physics*, **2014**, 119, 997-1017	1	9
289	Large format antenna coupled micorwave kinetic iinductance detector arrays for radioastronomy **2014**,		3
288	A 4.7THz heterodyne receiver for a balloon borne telescope **2014**,		7
287	Equivalence of optical and electrical noise equivalent power of hybrid NbTiN-Al microwave kinetic inductance detectors. *Applied Physics Letters*, **2014**, 105, 193504	3.4	11
286	Heterodyne detection at near-infrared wavelengths with a superconducting NbN hot-electron bolometer mixer. *Optics Letters*, **2014**, 39, 1429-32	3	8
285	Fluctuations in the electron system of a superconductor exposed to a photon flux. *Nature Communications*, **2014**, 5, 3130	17.4	71
284	Fast and Sensitive Terahertz Direct Detector Based on Superconducting Antenna-Coupled Hot Electron Bolometer. *IEEE Transactions on Applied Superconductivity*, **2014**, 1-1	1.8	11
283	Evidence of a nonequilibrium distribution of quasiparticles in the microwave response of a superconducting aluminum resonator. *Physical Review Letters*, **2014**, 112, 047004	7.4	67
282	Anomalous response of superconducting titanium nitride resonators to terahertz radiation. *Applied Physics Letters*, **2014**, 105, 192601	3.4	17
281	Electrodynamic response and local tunneling spectroscopy of strongly disordered superconducting TiN films. *Physical Review B*, **2013**, 88,	3.3	37
280	Photothermoelectric response in asymmetric carbon nanotube devices exposed to sub-terahertz radiation. *Applied Physics Letters*, **2013**, 103, 181121	3.4	23
279	The electron-phonon relaxation time in thin superconducting titanium nitride films. *Applied Physics Letters*, **2013**, 103, 252602	3.4	23
278	High optical efficiency and photon noise limited sensitivity of microwave kinetic inductance detectors using phase readout. *Applied Physics Letters*, **2013**, 103, 203503	3.4	48
277	Possible Indications of Electronic Inhomogeneities in Superconducting Nanowire Detectors. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 2200705-2200705	1.8	7

276	Probing dynamics of an electron-spin ensemble via a superconducting resonator. *Physical Review Letters*, **2013**, 110, 067004	7.4	69
275	. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 7500404-7500404	1.8	20
274	On-chip filter bank spectroscopy at 600700 GHz using NbTiN superconducting resonators. *Applied Physics Letters*, **2013**, 103, 032601	3.4	20
273	Coherent flux tunneling through NbN nanowires. *Physical Review B*, **2013**, 88,	3.3	42
272	Hot electron bolometer heterodyne receiver with a 4.7-THz quantum cascade laser as a local oscillator. *Applied Physics Letters*, **2013**, 102, 011123	3.4	61
271	Improved Nb SIS devices for heterodyne mixers between 700 GHz and 1.3 THz with NbTiN transmission lines using a normal metal energy relaxation layer. *Journal of Applied Physics*, **2013**, 114, 124504	2.5	7
270	Evanescent states and nonequilibrium in driven superconducting nanowires. *Physical Review B*, **2012**, 85,	3.3	24
269	Strongly disordered TiN and NbTiN s-wave superconductors probed by microwave electrodynamics. *Physical Review Letters*, **2012**, 109, 107003	7.4	82
268	Frequency and amplitude stabilized terahertz quantum cascade laser as local oscillator. *Applied Physics Letters*, **2012**, 101, 101111	3.4	26
267	Zero-bias conductance peak and Josephson effect in graphene-NbTiN junctions. *Physical Review B*, **2012**, 85,	3.3	40
266	Critical-current reduction in thin superconducting wires due to current crowding. *Applied Physics Letters*, **2012**, 100, 182602	3.4	67
265	Power Handling and Responsivity of Submicron Wide Superconducting Coplanar Waveguide Resonators. *Journal of Low Temperature Physics*, **2012**, 167, 354-359	1.3	2
264	Design of an Integrated Filterbank for DESHIMA: On-Chip Submillimeter Imaging Spectrograph Based on Superconducting Resonators. *Journal of Low Temperature Physics*, **2012**, 167, 341-346	1.3	22
263	Generation-Recombination Noise: The Fundamental Sensitivity Limit for Kinetic Inductance Detectors. *Journal of Low Temperature Physics*, **2012**, 167, 335-340	1.3	26
262	Microwave-induced excess quasiparticles in superconducting resonators measured through correlated conductivity fluctuations. *Applied Physics Letters*, **2012**, 100, 162601	3.4	28
261	Microwave-induced nonequilibrium temperature in a suspended carbon nanotube. *Applied Physics Letters*, **2012**, 100, 223112	3.4	8
260	Frequency locking of single-mode 3.5-THz quantum cascade lasers using a gas cell. *Applied Physics Letters*, **2012**, 100, 041111	3.4	25
259	Development of DESHIMA: a redshift machine based on a superconducting on-chip filterbank **2012**,		17

258	Low gap superconducting single photon detectors for infrared sensitivity. *Applied Physics Letters*, **2011**, 98, 251102	3.4	45
257	Twin-Slot Antenna Coupled NbN Hot Electron Bolometer Mixer at 2.5 THz. *IEEE Transactions on Terahertz Science and Technology*, **2011**, 1, 378-382	3.4	8
256	Design and Performance of a 600720-GHz Sideband-Separating Receiver Using ${hbox{AlO}}_{x}$ and AlN SIS Junctions. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 166-177	4.1	15
255	Number fluctuations of sparse quasiparticles in a superconductor. *Physical Review Letters*, **2011**, 106, 167004	7.4	123
254	High-resolution heterodyne spectroscopy using a tunable quantum cascade laser around 3.5 THz. *Applied Physics Letters*, **2011**, 98, 231109	3.4	35
253	Substrate-dependent quasiparticle recombination time in superconducting resonators. *Applied Physics Letters*, **2011**, 99, 062509	3.4	20
252	TheHerschel-Heterodyne Instrument for the Far-Infrared (HIFI). *Astronomy and Astrophysics*, **2010**, 518, L6	5.1	500
251	Position controlled nanowires for infrared single photon emission. *Applied Physics Letters*, **2010**, 97, 171106	3.4	47
250	Minimal resonator loss for circuit quantum electrodynamics. *Applied Physics Letters*, **2010**, 97, 023508	3.4	77
249	Noise temperature and beam pattern of an NbN hot electron bolometer mixer at 5.25 THz. *Journal of Applied Physics*, **2010**, 108, 093102	2.5	30
248	Enhanced telecom wavelength single-photon detection with NbTiN superconducting nanowires on oxidized silicon. *Applied Physics Letters*, **2010**, 96, 221109	3.4	87
247	Terahertz heterodyne spectrometer using a quantum cascade laser. *Applied Physics Letters*, **2010**, 97, 161105	3.4	26
246	Quantum noise in a terahertz hot electron bolometer mixer. *Applied Physics Letters*, **2010**, 96, 111113	3.4	55
245	A high efficiency superconducting nanowire single electron detector. *Applied Physics Letters*, **2010**, 97, 183106	3.4	16
244	Reduced frequency noise in superconducting resonators. *Applied Physics Letters*, **2010**, 97, 033507	3.4	32
243	Frequency and quality factor of NbTiN/Au bilayer superconducting resonators **2009**,		4
242	Enhancement of quasiparticle recombination in Ta and Al superconductors by implantation of magnetic and nonmagnetic atoms. *Physical Review B*, **2009**, 79,	3.3	35
241	Noise in NbTiN, Al, and Ta Superconducting Resonators on Silicon and Sapphire Substrates. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 936-939	1.8	21

240	Magnetic field dependence of the coupling efficiency of a superconducting transmission line due to the proximity effect. *Applied Physics Letters*, **2009**, 95, 253502	3.4	5
239	Millimetron – large Russian-European submillimeter space observatory. *Experimental Astronomy*, **2009**, 23, 221-244	1.3	41
238	HARP/ACSIS: a submillimetre spectral imaging system on the James Clerk Maxwell Telescope. *Monthly Notices of the Royal Astronomical Society*, **2009**, 399, 1026-1043	4.3	148
237	Phase locking of a 2.7 THz quantum cascade laser to a microwave reference. *Optics Letters*, **2009**, 34, 2958-60	3	62
236	Bandwidth Limitations of Nb/AlN/Nb SIS Mixers Around 700 GHz. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 395-399	1.8	4
235	Quasiparticle relaxation in high Q superconducting resonators. *Journal of Physics: Conference Series*, **2009**, 150, 052016	0.3	
234	Superconducting single photon detectors with minimized polarization dependence. *Applied Physics Letters*, **2008**, 93, 161102	3.4	55
233	Surface plasmon quantum cascade lasers as terahertz local oscillators. *Optics Letters*, **2008**, 33, 312-4	3	30
232	Quasiparticle relaxation in optically excited high-Q superconducting resonators. *Physical Review Letters*, **2008**, 100, 257002	7.4	72
231	Scaling of thermoelectric voltage induced by microwave radiation at the boundary between two-dimensional electron systems. *Physical Review B*, **2008**, 77,	3.3	1
230	Contribution of dielectrics to frequency and noise of NbTiN superconducting resonators. *Applied Physics Letters*, **2008**, 92, 223502	3.4	78
229	3.4 THz heterodyne receiver using a hot electron bolometer and a distributed feedback quantum cascade laser. *Journal of Applied Physics*, **2008**, 104, 113106	2.5	24
228	Low noise superconducting single photon detectors on silicon. *Applied Physics Letters*, **2008**, 93, 131101	3.4	107
227	HARP: a submillimetre heterodyne array receiver operating on the James Clerk Maxwell Telescope **2008**,		9
226	An SIS-based sideband-separating heterodyne mixer optimized for the 600 to 720 GHz band. *Journal of Physics: Conference Series*, **2008**, 97, 012331	0.3	2
225	Quasiparticle Lifetime and Noise in Tantalum High Q Superconducting Resonators. *Journal of Low Temperature Physics*, **2008**, 151, 518-523	1.3	1
224	Noise and Sensitivity of Aluminum Kinetic Inductance Detectors for Sub-mm Astronomy. *Journal of Low Temperature Physics*, **2008**, 151, 524-529	1.3	54
223	Longitudinal resistivity in the quantum Hall effect regime in a split-gate Si MOSFET with variable electron density. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 839-841		1

222	Niobium and Tantalum High Q Resonators for Photon Detectors. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 263-266	1.8	37
221	Electrically detected ferromagnetic resonance. *Applied Physics Letters*, **2007**, 90, 162507	3.4	26
220	Terahertz Superconducting Hot Electron Bolometer Heterodyne Receivers. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 252-258	1.8	14
219	Development of high-Q superconducting resonators for use as kinetic inductance detectors. *Advances in Space Research*, **2007**, 40, 708-713	2.4	12
218	Entangled Andreev pairs and collective excitations in nanoscale superconductors. *Nature Physics*, **2007**, 3, 455-459	16.2	98
217	Flow diagram of the metal□nsulator transition in two dimensions. *Nature Physics*, **2007**, 3, 707-710	16.2	69
216	Correlation effects in the density of states of annealed Ga1⊠MnxAs. *Physical Review B*, **2007**, 75,	3.3	3
215	Adiabatic quantum pumping at the Josephson frequency. *Physical Review Letters*, **2007**, 99, 086601	7.4	11
214	IF impedance and mixer gain of NbN hot electron bolometers. *Journal of Applied Physics*, **2007**, 101, 044515	2.5	19
213	Planar Hall effect and magnetic anisotropy in epitaxially strained chromium dioxide thin films. *Applied Physics Letters*, **2007**, 90, 142509	3.4	20
212	Epitaxial aluminum nitride tunnel barriers grown by nitridation with a plasma source. *Applied Physics Letters*, **2007**, 91, 233102	3.4	21
211	Monocrystalline NbN nanofilms on a 3C-SiC□Si substrate. *Applied Physics Letters*, **2007**, 91, 062504	3.4	39
210	Low noise NbN hot electron bolometer mixer at 4.3THz. *Applied Physics Letters*, **2007**, 91, 221111	3.4	51
209	Optimizing Superconducting Matching Circuits for Nb SIS Mixers Operating Around the Gap Frequency. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 375-378	1.8	5
208	Resistivity of Ultrathin Superconducting NbN Films for Bolometer Mixers. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 387-390	1.8	2
207	Optimized Sensitivity of NbN Hot Electron Bolometer Mixers by Annealing. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 399-402	1.8	2
206	Magnetization of a strongly interacting two-dimensional electron system in perpendicular magnetic fields. *Physical Review Letters*, **2006**, 96, 046409	7.4	27
205	Antenna model for wire lasers. *Physical Review Letters*, **2006**, 96, 173904	7.4	55

204	Influence of the direct response on the heterodyne sensitivity of hot electron bolometer mixers. *Journal of Applied Physics*, **2006**, 100, 084510	2.5	7
203	Full characterization and analysis of a terahertz heterodyne receiver based on a NbN hot electron bolometer. *Journal of Applied Physics*, **2006**, 100, 074507	2.5	28
202	Conductivity of a spin-polarized two-dimensional electron liquid in the ballistic regime. *Physical Review B*, **2006**, 73,	3.3	10
201	Critical voltage of a mesoscopic superconductor. *Physical Review Letters*, **2006**, 96, 147002	7.4	23
200	Pauli spin susceptibility of a strongly correlated two-dimensional electron liquid. *Physical Review Letters*, **2006**, 96, 036403	7.4	53
199	Critical behaviour of the Pauli spin susceptibility of strongly correlated electrons in two dimensions. *Philosophical Magazine*, **2006**, 86, 2761-2770	1.6	
198	Stability of heterodyne terahertz receivers. *Journal of Applied Physics*, **2006**, 100, 064904	2.5	26
197	Performance of the flight model HIFI band 3 and 4 mixer units **2006**, 6275, 384		3
196	CHAMP+: a powerful array receiver for APEX **2006**,		20
195	A spin triplet supercurrent through the half-metallic ferromagnet CrO2. *Nature*, **2006**, 439, 825-7	50.4	569
194	Niobium titanium nitride-based superconductor-insulator-superconductor mixers for low-noise terahertz receivers. *Journal of Applied Physics*, **2005**, 97, 113904	2.5	20
193	Local resistivity and the current-voltage characteristics of hot electron bolometer mixers. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 495-498	1.8	10
192	Experimental observation of bias-dependent nonlocal Andreev reflection. *Physical Review Letters*, **2005**, 95, 027002	7.4	213
191	Current-induced vortex unbinding in bolometer mixers. *Applied Physics Letters*, **2005**, 87, 263506	3.4	34
190	Direct detection effect in small volume hot electron bolometer mixers. *Applied Physics Letters*, **2005**, 86, 163503	3.4	30
189	Influence of the gate leakage current on the stability of organic single-crystal field-effect transistors. *Applied Physics Letters*, **2005**, 86, 032103	3.4	40
188	NbN hot electron bolometer mixers: sensitivity, LO power, direct detection and stability. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 484-489	1.8	19
187	Terahertz heterodyne receiver based on a quantum cascade laser and a superconducting bolometer. *Applied Physics Letters*, **2005**, 86, 244104	3.4	129

186	Quantitative study of magnetotransport through a (Ga,Mn)As single ferromagnetic domain. *Physical Review B*, **2005**, 71,	3.3	40
185	Universal spin-induced time reversal symmetry breaking in two-dimensional electron gases with Rashba spin-orbit interaction. *Physical Review Letters*, **2005**, 94, 186805	7.4	42
184	Magnetoconductivity of insulating silicon inversion layers. *Physical Review B*, **2005**, 71,	3.3	6
183	Conductivity of silicon inversion layers: Comparison with and without an in-plane magnetic field. *Physical Review B*, **2005**, 71,	3.3	13
182	Electron transport and tunnelling spectroscopy in alkali doped metal phthalocyanines. *European Physical Journal Special Topics*, **2004**, 114, 607-610		6
181	Group-theoretical analysis of double acceptors in a magnetic field: Identification of the Si:B+ ground state. *Physical Review B*, **2004**, 69,	3.3	2
180	Stark effect in shallow impurities in Si. *Physical Review B*, **2004**, 70,	3.3	38
179	Direct observation by resonant tunneling of the B+ level in a □doped silicon barrier. *Physical Review B*, **2004**, 69,	3.3	10
178	Magnetic-field dependence of the anomalous noise behavior in a two-dimensional electron system in silicon. *Physical Review Letters*, **2004**, 92, 226403	7.4	37
177	Conductance distribution in nanometer-sized semiconductor devices due to dopant statistics. *Physical Review B*, **2004**, 69,	3.3	12
176	Competition between spin-orbit interaction and Zeeman coupling in Rashba two-dimensional electron gases. *Physical Review B*, **2004**, 70,	3.3	54
175	Statistical significance of the fine structure in the frequency spectrum of Aharonov-Bohm conductance oscillations. *Physical Review B*, **2004**, 69,	3.3	16
174	Resistance of superconducting nanowires connected to normal-metal leads. *Physical Review B*, **2004**, 69,	3.3	46
173	Doubling of sensitivity and bandwidth in phonon cooled hot electron bolometer mixers. *Applied Physics Letters*, **2004**, 84, 1958-1960	3.4	63
172	Low noise NbN superconducting hot electron bolometer mixers at 1.9 and 2.5 THz. *Superconductor Science and Technology*, **2004**, 17, S224-S228	3.1	37
171	Improved superconducting hot-electron bolometer devices for the THz range **2004**,		11
170	Proximity Effect From an Andreev Perspective. *Journal of Superconductivity and Novel Magnetism*, **2004**, 17, 593-611		75
169	Space charge limited transport and time of flight measurements in tetracene single crystals: A comparative study. *Journal of Applied Physics*, **2004**, 95, 1196-1202	2.5	120

168	Development of the HIFI band 3 and 4 mixer units **2004**,		2
167	Doubling of sensitivity and bandwidth in phonon-cooled hot-electron bolometer mixers **2004**, 5498, 168		1
166	Sharply increasing effective mass: a precursor of a spontaneous spin polarization in a dilute two-dimensional electron system. *Journal of Physics A*, **2003**, 36, 9237-9247		8
165	Metal-insulator transition and glassy behavior in two-dimensional electron systems **2003**,		2
164	Higher-order tunneling processes and enhanced shot noise in superconducting tunnel devices **2003** , 5112, 185		
163	HARP-B: a 350-GHz 16-element focal plane array for the James Clerk Maxwell telescope **2003**,		12
162	Solution-processed ambipolar organic field-effect transistors and inverters. *Nature Materials*, **2003**, 2, 678-82	27	810
161	Spin-independent origin of the strongly enhanced effective mass in a dilute 2D electron system. *Physical Review Letters*, **2003**, 91, 046403	7.4	100
160	Coherent backscattering near the two-dimensional metal-insulator transition. *Physical Review Letters*, **2003**, 91, 116402	7.4	23
159	Field-effect transistors on tetracene single crystals. *Applied Physics Letters*, **2003**, 83, 4345-4347	3.4	250
158	Dopant density determination in disordered organic field-effect transistors. *Journal of Applied Physics*, **2003**, 93, 4831-4835	2.5	192
157	Development of THz Nb diffusion-cooled hot electron bolometer mixers **2003**,		4
156	In-plane magnetoconductivity of Si MOSFETs: A quantitative comparison of theory and experiment. *Physical Review B*, **2003**, 67,	3.3	55
155	Gate-induced ionization of single dopant atoms. *Physical Review B*, **2003**, 68,	3.3	30
154	Mobile ionic impurities in organic semiconductors. *Journal of Applied Physics*, **2003**, 93, 2082-2090	2.5	86
153	Scaling behavior and parasitic series resistance in disordered organic field-effect transistors. *Applied Physics Letters*, **2003**, 82, 4576-4578	3.4	146
152	Single domain transport measurements of C60 films. *Physical Review B*, **2003**, 67,	3.3	2
151	1-THz low-noise SIS mixer with a double-dipole antenna. *Technical Physics*, **2002**, 47, 1152-1157	0.5	4

150	Sharp increase of the effective mass near the critical density in a metallic two-dimensional electron system. *Physical Review B*, **2002**, 66,	3.3	155
149	Direct demonstration of circulating currents in a controllable □SQUID generated by a 0 to □ transition of the weak links. *Physical Review B*, **2002**, 65,	3.3	17
148	Direct observation of the transition from the conventional superconducting state to the pi state in a controllable Josephson junction. *Physical Review Letters*, **2002**, 89, 207002	7.4	45
147	Switch-on voltage in disordered organic field-effect transistors. *Applied Physics Letters*, **2002**, 80, 3838-3840	3.4	173
146	Texture formation in sputter-deposited (Nb0.7,Ti0.3)N thin films. *Journal of Applied Physics*, **2002**, 92, 4999-5005	2.5	20
145	Spin polarization of strongly interacting two-dimensional electrons: The role of disorder. *Physical Review B*, **2002**, 65,	3.3	29
144	Universal behavior of the resistance noise across the metal-insulator transition in silicon inversion layers. *Physical Review Letters*, **2002**, 89, 276401	7.4	62
143	Characterization of the fabrication process of Nb/Al$ndash$AlNx/Nb tunnel junctions with low RnA values up to 1 $Omega$ mum2. *Superconductor Science and Technology*, **2002**, 15, 945-951	3.1	12
142	Enhanced tunneling across nanometer-scale metal□emiconductor interfaces. *Applied Physics Letters*, **2002**, 80, 2568-2570	3.4	94
141	One-dimensional ring in the presence of Rashba spin-orbit interaction: Derivation of the correct Hamiltonian. *Physical Review B*, **2002**, 66,	3.3	221
140	Scaling of nano-Schottky-diodes. *Applied Physics Letters*, **2002**, 81, 3852-3854	3.4	212
139	A 350GHz Radial-Probe SIS Mixer for Astronomical Imaging Arrays. *Journal of Infrared, Millimeter and Terahertz Waves*, **2001**, 22, 1305-1312		4
138	Hot electron effect in terahertz hybrid devices. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 649-652	1.8	4
137	Nb superconducting hot electron bolometer mixers coupled with microstrip lines. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 570-573	1.8	1
136	NbTiN/SiO/sub 2//Al tuning circuits for low-noise 1 THz SIS mixers. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 653-656	1.8	12
135	Indication of the ferromagnetic instability in a dilute two-dimensional electron system. *Physical Review Letters*, **2001**, 87, 086801	7.4	156
134	Scaling of the magnetoconductivity of silicon MOSFETs: evidence for a quantum phase transition in two dimensions. *Physical Review Letters*, **2001**, 87, 086401	7.4	102
133	Electron heating by photon-assisted tunneling in niobium terahertz mixers with integrated niobium titanium nitride striplines. *Applied Physics Letters*, **2001**, 78, 1616-1618	3.4	11

132	Hall coefficient of a dilute two-dimensional electron system in a parallel magnetic field. *Physical Review B*, **2001**, 63,	3.3	14
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