

# H Van Houten

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74  
papers

8,104  
citations

36  
h-index

74  
g-index

74  
ext. papers

8,462  
ext. citations

3.4  
avg, IF

5.17  
L-index

#	Paper	IF	Citations
74	Principles of Solid State Electron Optics. <i>NATO ASI Series Series B: Physics</i> , <b>1995</b> , 269-303		5
73	Low-frequency noise in quantum point contacts. <i>Semiconductor Science and Technology</i> , <b>1994</b> , 9, 2178-2189		25
72	Sawtooth-like thermopower oscillations of a quantum dot in the Coulomb blockade regime. <i>Semiconductor Science and Technology</i> , <b>1994</b> , 9, 903-906	1.8	29
71	Experimental study of reduced shot noise in a diffusive mesoscopic conductor. <i>Physical Review B</i> , <b>1994</b> , 49, 14066-14069	3.3	73
70	Experimental study of reduced shot noise in a diffusive mesoscopic conductor. <i>Superlattices and Microstructures</i> , <b>1994</b> , 16, 253-255	2.8	4
69	Quantum transport in nanostructures: from electron waveguide to electron box. <i>Microelectronic Engineering</i> , <b>1994</b> , 23, 31-39	2.5	1
68	Coulomb blockade in the presence of adiabatically transmitted edge channels. <i>Surface Science</i> , <b>1994</b> , 305, 520-526	1.8	1
67	Coulomb-Blockade Oscillations in the Thermopower of a Quantum Dot. <i>Europhysics Letters</i> , <b>1993</b> , 22, 57-62	1.6	175
66	Quantum effects in thermal and thermo-electric transport in semiconductor nanostructures. <i>Physica Scripta</i> , <b>1993</b> , T49B, 441-445	2.6	8
65	Single-electron tunneling in double-barrier junctions by scanning tunneling microscopy. <i>Applied Surface Science</i> , <b>1993</b> , 67, 222-227	6.7	20
64	Coulomb charging of a quantum dot in the presence of adiabatically transmitted edge channels. <i>Physica B: Condensed Matter</i> , <b>1993</b> , 189, 80-87	2.8	7
63	Thermal and Thermo-Electric Transport Properties of Quantum Point Contacts <b>1993</b> , 365-378		
62	Thermo-electric properties of quantum point contacts. <i>Semiconductor Science and Technology</i> , <b>1992</b> , 7, B215-B221	1.8	137
61	Electron-electron scattering probed by a collimated electron beam. <i>Semiconductor Science and Technology</i> , <b>1992</b> , 7, B228-B230	1.8	29
60	Single-Electron Tunnelling Observed At Room Temperature by Scanning-Tunnelling Microscopy. <i>Europhysics Letters</i> , <b>1992</b> , 20, 249-254	1.6	112
59	Influence of adiabatically transmitted edge channels on single-electron tunneling through a quantum dot. <i>Physical Review B</i> , <b>1992</b> , 46, 7236-7239	3.3	49
58	Coulomb-blockade oscillations in disordered quantum wires. <i>Physical Review B</i> , <b>1992</b> , 45, 9222-9236	3.3	71

57	Magnetic field effects on switching noise in a quantum point contact. <i>Physical Review B</i> , <b>1992</b> , 46, 15523-15525		
56	Periodic envelope of Coulomb-blockade oscillations in the quantum Hall regime. <i>Physical Review B</i> , <b>1992</b> , 46, 12869-12872	3.3	51
55	Observation of excess conductance of a constricted electron gas in the fractional quantum Hall regime. <i>Physical Review B</i> , <b>1992</b> , 45, 3890-3893	3.3	12
54	Single-electron tunneling up to room temperature. <i>Physica Scripta</i> , <b>1992</b> , T45, 289-291	2.6	37
53	Chapter 2: Quantum Point Contacts. <i>Semiconductors and Semimetals</i> , <b>1992</b> , 35, 9-112	0.6	36
52	Selective backscattering and the breakdown of the quantum Hall effect. <i>Surface Science</i> , <b>1992</b> , 263, 288-292		1
51	Coulomb blockade oscillations in semiconductor nanostructures. <i>Surface Science</i> , <b>1992</b> , 263, 442-445	1.8	9
50	Resonant Josephson Current Through a Quantum Dot. <i>Springer Series in Electrophysics</i> , <b>1992</b> , 175-179		14
49	LATERAL ELECTRON TRANSPORT THROUGH A QUANTUM DOT: COULOMB BLOCKADE AND QUANTUM TRANSPORT <b>1992</b> , 255-266		
48	Coulomb-Blockade Oscillations in Quantum Wires and Dots. <i>Springer Series in Electrophysics</i> , <b>1992</b> , 159-169		2
47	Peltier coefficient and thermal conductance of a quantum point contact. <i>Physical Review Letters</i> , <b>1992</b> , 68, 3765-3768	7.4	141
46	THE SUPERCONDUCTING QUANTUM POINT CONTACT <b>1992</b> , 481-497		5
45	Coulomb-Regulated Conductance Oscillations in a Disordered Quantum Wire. <i>Springer Series in Solid-state Sciences</i> , <b>1992</b> , 301-312	0.4	
44	Coulomb-Blockade Oscillations in Semiconductor Nanostructures. <i>NATO ASI Series Series B: Physics</i> , <b>1992</b> , 167-216		32
43	Andreev reflection and the Josephson effect in a quantum point contact. <i>Physica B: Condensed Matter</i> , <b>1991</b> , 175, 187-197	2.8	21
42	Low-frequency noise of quantum point contacts in the ballistic and quantum Hall regime. <i>Physica B: Condensed Matter</i> , <b>1991</b> , 175, 213-216	2.8	24
41	Coulomb-blockade oscillations in a quantum dot. <i>Physica B: Condensed Matter</i> , <b>1991</b> , 175, 226-230	2.8	21
40	Three-terminal quantum box resonant tunneling Josephson field-effect switch. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 1326-1328	3.4	28

39	Voltage-probe-controlled breakdown of the quantum Hall effect. <i>Physical Review B</i> , <b>1991</b> , 43, 12118-12121	3-3	12
38	Influence of Coulomb repulsion on the Aharonov-Bohm effect in a quantum dot. <i>Physical Review B</i> , <b>1991</b> , 44, 1657-1662	3-3	59
37	Spontaneous resistance switching and low-frequency noise in quantum point contacts. <i>Physical Review Letters</i> , <b>1991</b> , 66, 2148-2151	7-4	88
36	Quantum Transport in Semiconductor Nanostructures. <i>Solid State Physics</i> , <b>1991</b> , 1-228	2	797
35	Josephson current through a superconducting quantum point contact shorter than the coherence length. <i>Physical Review Letters</i> , <b>1991</b> , 66, 3056-3059	7-4	348
34	Quantum ballistic and adiabatic electron transport studied with quantum point contacts. <i>Physical Review B</i> , <b>1991</b> , 43, 12431-12453	3-3	215
33	Coulomb Blockade of the Aharonov-Bohm Effect. <i>NATO ASI Series Series B: Physics</i> , <b>1991</b> , 359-370		1
32	Electron Optics in a Two-Dimensional Electron Gas. <i>NATO ASI Series Series B: Physics</i> , <b>1991</b> , 243-274		
31	Oscillating Transverse Voltage in a Channel with Quantum Point Contact Voltage Probes. <i>NATO ASI Series Series B: Physics</i> , <b>1991</b> , 335-345		
30	Photo-hall model for space charge effects in n-ZnSe/GaAs:Cr heterostructures. <i>Journal of Crystal Growth</i> , <b>1990</b> , 101, 828-834	1.6	3
29	Quantum oscillations in the transverse voltage of a channel in the nonlinear transport regime. <i>Physical Review Letters</i> , <b>1990</b> , 65, 1052-1055	7-4	173
28	Hot-electron spectrometry with quantum point contacts. <i>Physical Review B</i> , <b>1990</b> , 41, 1207-1210	3-3	44
27	Injection of ballistic hot electrons and cool holes in a two-dimensional electron gas. <i>Surface Science</i> , <b>1990</b> , 229, 303-306	1.8	11
26	Semi-Classical Theory of Magnetoresistance Anomalies in Ballistic Multi-Probe Conductors. <i>NATO ASI Series Series B: Physics</i> , <b>1990</b> , 75-94		4
25	Comment on "Conductance oscillations periodic in the density of a one-dimensional electron gas". <i>Physical Review Letters</i> , <b>1989</b> , 63, 1893	7-4	152
24	Beenakker and van Houten reply. <i>Physical Review Letters</i> , <b>1989</b> , 62, 1921	7-4	3
23	Nonlinear conductance of quantum point contacts. <i>Physical Review B</i> , <b>1989</b> , 39, 8040-8043	3-3	155
22	Billiard model of a ballistic multiprobe conductor. <i>Physical Review Letters</i> , <b>1989</b> , 63, 1857-1860	7-4	272

21	Magnetotransport and nonadditivity of point-contact resistances in series. <i>Physical Review B</i> , <b>1989</b> , 39, 10445-10448	3.3	127
20	Anomalous mobility and photo-Hall effect in ZnSe-GaAs heterostructures. <i>Journal of Applied Physics</i> , <b>1989</b> , 66, 3047-3055	2.5	21
19	Skipping orbits, traversing trajectories, and quantum ballistic transport in microstructures. <i>Superlattices and Microstructures</i> , <b>1989</b> , 5, 127-132	2.8	32
18	Anomalous integer quantum Hall effect in the ballistic regime with quantum point contacts. <i>Physical Review Letters</i> , <b>1989</b> , 62, 1181-1184	7.4	199
17	Coherent electron focusing with quantum point contacts in a two-dimensional electron gas. <i>Physical Review B</i> , <b>1989</b> , 39, 8556-8575	3.3	295
16	Coherent electron focusing. <i>Festkörperprobleme</i> , <b>1989</b> , 299-316		2
15	Quantum Wires and Ballistic Point Contacts <b>1989</b> , 317-417		
14	Quantized conductance of point contacts in a two-dimensional electron gas. <i>Physical Review Letters</i> , <b>1988</b> , 60, 848-850	7.4	2596
13	Quenching of the Hall effect. <i>Physical Review Letters</i> , <b>1988</b> , 60, 2406-2409	7.4	75
12	Quantized conductance of magnetoelectric subbands in ballistic point contacts. <i>Physical Review B</i> , <b>1988</b> , 38, 3625-3627	3.3	207
11	Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures. <i>Surface Science</i> , <b>1988</b> , 196, 144-149	1.8	56
10	Four-terminal magnetoresistance of a two-dimensional electron-gas constriction in the ballistic regime. <i>Physical Review B</i> , <b>1988</b> , 37, 8534-8536	3.3	125
9	Flux-cancellation effect on narrow-channel magnetoresistance fluctuations. <i>Physical Review B</i> , <b>1988</b> , 37, 6544-6546	3.3	115
8	Aharonov-Bohm effect in a singly connected point contact. <i>Physical Review B</i> , <b>1988</b> , 38, 10162-10165	3.3	61
7	Characterization of very narrow quasi-one-dimensional quantum channels. <i>Physical Review B</i> , <b>1988</b> , 37, 10118-10124	3.3	185
6	Boundary scattering and weak localization of electrons in a magnetic field. <i>Physical Review B</i> , <b>1988</b> , 38, 3232-3240	3.3	137
5	Coherent Electron Focussing in a Two-Dimensional Electron Gas. <i>Europhysics Letters</i> , <b>1988</b> , 5, 721-725	1.6	135
4	Mode Interference Effect in Coherent Electron Focusing. <i>Europhysics Letters</i> , <b>1988</b> , 7, 359-364	1.6	41

3	Quantum and Classical Ballistic Transport in Constricted Two-Dimensional Electron Gases. <i>Springer Series in Solid-state Sciences</i> , <b>1988</b> , 198-207	0.4	
2	Magnetic depopulation of subbands and universal conductance fluctuations in quasi-one dimensional GaAs/AlGaAs heterostructures. <i>Superlattices and Microstructures</i> , <b>1987</b> , 3, 497-501	2.8	49
1	Submicron conducting channels defined by shallow mesa etch in GaAs-AlGaAs heterojunctions. <i>Applied Physics Letters</i> , <b>1986</b> , 49, 1781-1783	3.4	124