

H Van Houten

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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	Quantized conductance of point contacts in a two-dimensional electron gas. <i>Physical Review Letters</i> , 1988 , 60, 848-850	7.4	2596
73	Quantum Transport in Semiconductor Nanostructures. <i>Solid State Physics</i> , 1991 , 1-228	2	797
72	Josephson current through a superconducting quantum point contact shorter than the coherence length. <i>Physical Review Letters</i> , 1991 , 66, 3056-3059	7.4	348
71	Coherent electron focusing with quantum point contacts in a two-dimensional electron gas. <i>Physical Review B</i> , 1989 , 39, 8556-8575	3.3	295
70	Billiard model of a ballistic multiprobe conductor. <i>Physical Review Letters</i> , 1989 , 63, 1857-1860	7.4	272
69	Quantum ballistic and adiabatic electron transport studied with quantum point contacts. <i>Physical Review B</i> , 1991 , 43, 12431-12453	3.3	215
68	Quantized conductance of magnetoelectric subbands in ballistic point contacts. <i>Physical Review B</i> , 1988 , 38, 3625-3627	3.3	207
67	Anomalous integer quantum Hall effect in the ballistic regime with quantum point contacts. <i>Physical Review Letters</i> , 1989 , 62, 1181-1184	7.4	199
66	Characterization of very narrow quasi-one-dimensional quantum channels. <i>Physical Review B</i> , 1988 , 37, 10118-10124	3.3	185
65	Coulomb-Blockade Oscillations in the Thermopower of a Quantum Dot. <i>Europhysics Letters</i> , 1993 , 22, 57-62	1.6	175
64	Quantum oscillations in the transverse voltage of a channel in the nonlinear transport regime. <i>Physical Review Letters</i> , 1990 , 65, 1052-1055	7.4	173
63	Nonlinear conductance of quantum point contacts. <i>Physical Review B</i> , 1989 , 39, 8040-8043	3.3	155
62	Comment on "Conductance oscillations periodic in the density of a one-dimensional electron gas". <i>Physical Review Letters</i> , 1989 , 63, 1893	7.4	152
61	Peltier coefficient and thermal conductance of a quantum point contact. <i>Physical Review Letters</i> , 1992 , 68, 3765-3768	7.4	141
60	Thermo-electric properties of quantum point contacts. <i>Semiconductor Science and Technology</i> , 1992 , 7, B215-B221	1.8	137
59	Boundary scattering and weak localization of electrons in a magnetic field. <i>Physical Review B</i> , 1988 , 38, 3232-3240	3.3	137
58	Coherent Electron Focussing in a Two-Dimensional Electron Gas. <i>Europhysics Letters</i> , 1988 , 5, 721-725	1.6	135

57	Magnetotransport and nonadditivity of point-contact resistances in series. <i>Physical Review B</i> , 1989 , 39, 10445-10448	3.3	127
56	Four-terminal magnetoresistance of a two-dimensional electron-gas constriction in the ballistic regime. <i>Physical Review B</i> , 1988 , 37, 8534-8536	3.3	125
55	Submicron conducting channels defined by shallow mesa etch in GaAs-AlGaAs heterojunctions. <i>Applied Physics Letters</i> , 1986 , 49, 1781-1783	3.4	124
54	Flux-cancellation effect on narrow-channel magnetoresistance fluctuations. <i>Physical Review B</i> , 1988 , 37, 6544-6546	3.3	115
53	Single-Electron Tunnelling Observed At Room Temperature by Scanning-Tunnelling Microscopy. <i>Europhysics Letters</i> , 1992 , 20, 249-254	1.6	112
52	Spontaneous resistance switching and low-frequency noise in quantum point contacts. <i>Physical Review Letters</i> , 1991 , 66, 2148-2151	7.4	88
51	Quenching of the Hall effect. <i>Physical Review Letters</i> , 1988 , 60, 2406-2409	7.4	75
50	Experimental study of reduced shot noise in a diffusive mesoscopic conductor. <i>Physical Review B</i> , 1994 , 49, 14066-14069	3.3	73
49	Coulomb-blockade oscillations in disordered quantum wires. <i>Physical Review B</i> , 1992 , 45, 9222-9236	3.3	71
48	Aharonov-Bohm effect in a singly connected point contact. <i>Physical Review B</i> , 1988 , 38, 10162-10165	3.3	61
47	Influence of Coulomb repulsion on the Aharonov-Bohm effect in a quantum dot. <i>Physical Review B</i> , 1991 , 44, 1657-1662	3.3	59
46	Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures. <i>Surface Science</i> , 1988 , 196, 144-149	1.8	56
45	Periodic envelope of Coulomb-blockade oscillations in the quantum Hall regime. <i>Physical Review B</i> , 1992 , 46, 12869-12872	3.3	51
44	Influence of adiabatically transmitted edge channels on single-electron tunneling through a quantum dot. <i>Physical Review B</i> , 1992 , 46, 7236-7239	3.3	49
43	Magnetic depopulation of subbands and universal conductance fluctuations in quasi-one dimensional GaAs/AlGaAs heterostructures. <i>Superlattices and Microstructures</i> , 1987 , 3, 497-501	2.8	49
42	Hot-electron spectrometry with quantum point contacts. <i>Physical Review B</i> , 1990 , 41, 1207-1210	3.3	44
41	Mode Interference Effect in Coherent Electron Focusing. <i>Europhysics Letters</i> , 1988 , 7, 359-364	1.6	41
40	Single-electron tunneling up to room temperature. <i>Physica Scripta</i> , 1992 , T45, 289-291	2.6	37

39	Chapter 2: Quantum Point Contacts. <i>Semiconductors and Semimetals</i> , 1992 , 35, 9-112	0.6	36
38	Skipping orbits, traversing trajectories, and quantum ballistic transport in microstructures. <i>Superlattices and Microstructures</i> , 1989 , 5, 127-132	2.8	32
37	Coulomb-Blockade Oscillations in Semiconductor Nanostructures. <i>NATO ASI Series Series B: Physics</i> , 1992 , 167-216		32
36	Sawtooth-like thermopower oscillations of a quantum dot in the Coulomb blockade regime. <i>Semiconductor Science and Technology</i> , 1994 , 9, 903-906	1.8	29
35	Electron-electron scattering probed by a collimated electron beam. <i>Semiconductor Science and Technology</i> , 1992 , 7, B228-B230	1.8	29
34	Three-terminal quantum box resonant tunneling Josephson field-effect switch. <i>Applied Physics Letters</i> , 1991 , 58, 1326-1328	3.4	28
33	Low-frequency noise in quantum point contacts. <i>Semiconductor Science and Technology</i> , 1994 , 9, 2178-2189	1.8	25
32	Low-frequency noise of quantum point contacts in the ballistic and quantum Hall regime. <i>Physica B: Condensed Matter</i> , 1991 , 175, 213-216	2.8	24
31	Andreev reflection and the Josephson effect in a quantum point contact. <i>Physica B: Condensed Matter</i> , 1991 , 175, 187-197	2.8	21
30	Coulomb-blockade oscillations in a quantum dot. <i>Physica B: Condensed Matter</i> , 1991 , 175, 226-230	2.8	21
29	Anomalous mobility and photo-Hall effect in ZnSe-GaAs heterostructures. <i>Journal of Applied Physics</i> , 1989 , 66, 3047-3055	2.5	21
28	Single-electron tunneling in double-barrier junctions by scanning tunneling microscopy. <i>Applied Surface Science</i> , 1993 , 67, 222-227	6.7	20
27	Resonant Josephson Current Through a Quantum Dot. <i>Springer Series in Electrophysics</i> , 1992 , 175-179		14
26	Voltage-probe-controlled breakdown of the quantum Hall effect. <i>Physical Review B</i> , 1991 , 43, 12118-12124	3.3	12
25	Observation of excess conductance of a constricted electron gas in the fractional quantum Hall regime. <i>Physical Review B</i> , 1992 , 45, 3890-3893	3.3	12
24	Injection of ballistic hot electrons and cool holes in a two-dimensional electron gas. <i>Surface Science</i> , 1990 , 229, 303-306	1.8	11
23	Coulomb blockade oscillations in semiconductor nanostructures. <i>Surface Science</i> , 1992 , 263, 442-445	1.8	9
22	Quantum effects in thermal and thermo-electric transport in semiconductor nanostructures. <i>Physica Scripta</i> , 1993 , T49B, 441-445	2.6	8

21	Coulomb charging of a quantum dot in the presence of adiabatically transmitted edge channels. <i>Physica B: Condensed Matter</i> , 1993 , 189, 80-87	2.8	7
20	Magnetic field effects on switching noise in a quantum point contact. <i>Physical Review B</i> , 1992 , 46, 15523-15525	3.5	5
19	THE SUPERCONDUCTING QUANTUM POINT CONTACT 1992 , 481-497		5
18	Principles of Solid State Electron Optics. <i>NATO ASI Series Series B: Physics</i> , 1995 , 269-303		5
17	Experimental study of reduced shot noise in a diffusive mesoscopic conductor. <i>Superlattices and Microstructures</i> , 1994 , 16, 253-255	2.8	4
16	Semi-Classical Theory of Magnetoresistance Anomalies in Ballistic Multi-Probe Conductors. <i>NATO ASI Series Series B: Physics</i> , 1990 , 75-94		4
15	Beenakker and van Houten reply. <i>Physical Review Letters</i> , 1989 , 62, 1921	7.4	3
14	Photo-hall model for space charge effects in n-ZnSe/GaAs:Cr heterostructures. <i>Journal of Crystal Growth</i> , 1990 , 101, 828-834	1.6	3
13	Coulomb-Blockade Oscillations in Quantum Wires and Dots. <i>Springer Series in Electrophysics</i> , 1992 , 159-169		2
12	Coherent electron focusing. <i>Festkörperprobleme</i> , 1989 , 299-316		2
11	Quantum transport in nanostructures: from electron waveguide to electron box. <i>Microelectronic Engineering</i> , 1994 , 23, 31-39	2.5	1
10	Coulomb blockade in the presence of adiabatically transmitted edge channels. <i>Surface Science</i> , 1994 , 305, 520-526	1.8	1
9	Selective backscattering and the breakdown of the quantum Hall effect. <i>Surface Science</i> , 1992 , 263, 288-292	2.8	1
8	Coulomb Blockade of the Aharonov-Bohm Effect. <i>NATO ASI Series Series B: Physics</i> , 1991 , 359-370		1
7	LATERAL ELECTRON TRANSPORT THROUGH A QUANTUM DOT: COULOMB BLOCKADE AND QUANTUM TRANSPORT 1992 , 255-266		
6	Quantum and Classical Ballistic Transport in Constricted Two-Dimensional Electron Gases. <i>Springer Series in Solid-state Sciences</i> , 1988 , 198-207	0.4	
5	Quantum Wires and Ballistic Point Contacts 1989 , 317-417		
4	Electron Optics in a Two-Dimensional Electron Gas. <i>NATO ASI Series Series B: Physics</i> , 1991 , 243-274		

- 3 Oscillating Transverse Voltage in a Channel with Quantum Point Contact Voltage Probes. *NATO ASI Series Series B: Physics*, **1991**, 335-345
- 2 Coulomb-Regulated Conductance Oscillations in a Disordered Quantum Wire. *Springer Series in Solid-state Sciences*, **1992**, 301-312 0.4
- 1 Thermal and Thermo-Electric Transport Properties of Quantum Point Contacts **1993**, 365-378