

H Van Houten

List of Publications by Year in descending order

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74
papers

8,830
citations

101543

36
h-index

102487

66
g-index

74
all docs

74
docs citations

74
times ranked

3730
citing authors

#	ARTICLE	IF	CITATIONS
1	Principles of Solid State Electron Optics. NATO ASI Series Series B: Physics, 1995, , 269-303.	0.2	7
2	Low-frequency noise in quantum point contacts. Semiconductor Science and Technology, 1994, 9, 2178-2189.	2.0	29
3	Sawtooth-like thermopower oscillations of a quantum dot in the Coulomb blockade regime. Semiconductor Science and Technology, 1994, 9, 903-906.	2.0	31
4	Experimental study of reduced shot noise in a diffusive mesoscopic conductor. Physical Review B, 1994, 49, 14066-14069.	3.2	84
5	Experimental study of reduced shot noise in a diffusive mesoscopic conductor. Superlattices and Microstructures, 1994, 16, 253-255.	3.1	4
6	Quantum transport in nanostructures: from electron waveguide to electron box. Microelectronic Engineering, 1994, 23, 31-39.	2.4	1
7	Coulomb blockade in the presence of adiabatically transmitted edge channels. Surface Science, 1994, 305, 520-526.	1.9	1
8	Single-electron tunneling in double-barrier junctions by scanning tunneling microscopy. Applied Surface Science, 1993, 67, 222-227.	6.1	21
9	Coulomb charging of a quantum dot in the presence of adiabatically transmitted edge channels. Physica B: Condensed Matter, 1993, 189, 80-87.	2.7	7
10	Coulomb-Blockade Oscillations in the Thermopower of a Quantum Dot. Europhysics Letters, 1993, 22, 57-62.	2.0	195
11	Quantum effects in thermal and thermo-electric transport in semiconductor nanostructures. Physica Scripta, 1993, T49B, 441-445.	2.5	8
12	Thermal and Thermo-Electric Transport Properties of Quantum Point Contacts. , 1993, , 365-378.		0
13	Thermo-electric properties of quantum point contacts. Semiconductor Science and Technology, 1992, 7, B215-B221.	2.0	159
14	Electron-electron scattering probed by a collimated electron beam. Semiconductor Science and Technology, 1992, 7, B228-B230.	2.0	32
15	Single-Electron Tunnelling Observed At Room Temperature by Scanning-Tunnelling Microscopy. Europhysics Letters, 1992, 20, 249-254.	2.0	125
16	Influence of adiabatically transmitted edge channels on single-electron tunneling through a quantum dot. Physical Review B, 1992, 46, 7236-7239.	3.2	53
17	Coulomb-blockade oscillations in disordered quantum wires. Physical Review B, 1992, 45, 9222-9236.	3.2	75
18	Magnetic field effects on switching noise in a quantum point contact. Physical Review B, 1992, 46, 15523-15525.	3.2	5

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19	Periodic envelope of Coulomb-blockade oscillations in the quantum Hall regime. <i>Physical Review B</i> , 1992, 46, 12869-12872.	3.2	53
20	Observation of excess conductance of a constricted electron gas in the fractional quantum Hall regime. <i>Physical Review B</i> , 1992, 45, 3890-3893.	3.2	12
21	Single-electron tunneling up to room temperature. <i>Physica Scripta</i> , 1992, T45, 289-291.	2.5	39
22	Chapter 2: Quantum Point Contacts. <i>Semiconductors and Semimetals</i> , 1992, 35, 9-112.	0.7	43
23	Selective backscattering and the breakdown of the quantum Hall effect. <i>Surface Science</i> , 1992, 263, 288-292.	1.9	1
24	Coulomb blockade oscillations in semiconductor nanostructures. <i>Surface Science</i> , 1992, 263, 442-445.	1.9	18
25	Resonant Josephson Current Through a Quantum Dot. <i>Springer Series in Electrophysics</i> , 1992, , 175-179.	0.2	15
26	LATERAL ELECTRON TRANSPORT THROUGH A QUANTUM DOT: COULOMB BLOCKADE AND QUANTUM TRANSPORT. , 1992, , 255-266.		0
27	Coulomb-Blockade Oscillations in Quantum Wires and Dots. <i>Springer Series in Electrophysics</i> , 1992, , 159-169.	0.2	2
28	Peltier coefficient and thermal conductance of a quantum point contact. <i>Physical Review Letters</i> , 1992, 68, 3765-3768.	7.8	152
29	Coulomb-Blockade Oscillations in Semiconductor Nanostructures. <i>NATO ASI Series Series B: Physics</i> , 1992, , 167-216.	0.2	36
30	THE SUPERCONDUCTING QUANTUM POINT CONTACT. , 1992, , 481-497.		9
31	Coulomb-Regulated Conductance Oscillations in a Disordered Quantum Wire. <i>Springer Series in Solid-state Sciences</i> , 1992, , 301-312.	0.3	0
32	Quantum Transport in Semiconductor Nanostructures. <i>Solid State Physics</i> , 1991, , 1-228.	0.5	892
33	Josephson current through a superconducting quantum point contact shorter than the coherence length. <i>Physical Review Letters</i> , 1991, 66, 3056-3059.	7.8	408
34	Quantum ballistic and adiabatic electron transport studied with quantum point contacts. <i>Physical Review B</i> , 1991, 43, 12431-12453.	3.2	230
35	Andreev reflection and the Josephson effect in a quantum point contact. <i>Physica B: Condensed Matter</i> , 1991, 175, 187-197.	2.7	28
36	Low-frequency noise of quantum point contacts in the ballistic and quantum Hall regime. <i>Physica B: Condensed Matter</i> , 1991, 175, 213-216.	2.7	24

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37	Coulomb-blockade oscillations in a quantum dot. <i>Physica B: Condensed Matter</i> , 1991, 175, 226-230.	2.7	25
38	Three-terminal quantum box resonant tunneling Josephson field-effect switch. <i>Applied Physics Letters</i> , 1991, 58, 1326-1328.	3.3	29
39	Voltage-probe-controlled breakdown of the quantum Hall effect. <i>Physical Review B</i> , 1991, 43, 12118-12121.	3.2	12
40	Influence of Coulomb repulsion on the Aharonov-Bohm effect in a quantum dot. <i>Physical Review B</i> , 1991, 44, 1657-1662.	3.2	62
41	Spontaneous resistance switching and low-frequency noise in quantum point contacts. <i>Physical Review Letters</i> , 1991, 66, 2148-2151.	7.8	94
42	Coulomb Blockade of the Aharonov-Bohm Effect. <i>NATO ASI Series Series B: Physics</i> , 1991, , 359-370.	0.2	2
43	Electron Optics in a Two-Dimensional Electron Gas. <i>NATO ASI Series Series B: Physics</i> , 1991, , 243-274.	0.2	0
44	Oscillating Transverse Voltage in a Channel with Quantum Point Contact Voltage Probes. <i>NATO ASI Series Series B: Physics</i> , 1991, , 335-345.	0.2	0
45	Photo-hall model for space charge effects in n-ZnSe/GaAs:Cr heterostructures. <i>Journal of Crystal Growth</i> , 1990, 101, 828-834.	1.5	3
46	Quantum oscillations in the transverse voltage of a channel in the nonlinear transport regime. <i>Physical Review Letters</i> , 1990, 65, 1052-1055.	7.8	183
47	Hot-electron spectrometry with quantum point contacts. <i>Physical Review B</i> , 1990, 41, 1207-1210.	3.2	46
48	Injection of ballistic hot electrons and cool holes in a two-dimensional electron gas. <i>Surface Science</i> , 1990, 229, 303-306.	1.9	11
49	Semi-Classical Theory of Magnetoresistance Anomalies in Ballistic Multi-Probe Conductors. <i>NATO ASI Series Series B: Physics</i> , 1990, , 75-94.	0.2	4
50	Comment on "Conductance oscillations periodic in the density of a one-dimensional electron gas". <i>Physical Review Letters</i> , 1989, 63, 1893-1893.	7.8	163
51	Beenakker and van Houten reply. <i>Physical Review Letters</i> , 1989, 62, 1921-1921.	7.8	3
52	Nonlinear conductance of quantum point contacts. <i>Physical Review B</i> , 1989, 39, 8040-8043.	3.2	163
53	Billiard model of a ballistic multiprobe conductor. <i>Physical Review Letters</i> , 1989, 63, 1857-1860.	7.8	289
54	Magnetotransport and nonadditivity of point-contact resistances in series. <i>Physical Review B</i> , 1989, 39, 10445-10448.	3.2	133

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55	Anomalous mobility and photo-Hall effect in ZnSe-GaAs heterostructures. Journal of Applied Physics, 1989, 66, 3047-3055.	2.5	22
56	Skipping orbits, traversing trajectories, and quantum ballistic transport in microstructures. Superlattices and Microstructures, 1989, 5, 127-132.	3.1	33
57	Anomalous integer quantum Hall effect in the ballistic regime with quantum point contacts. Physical Review Letters, 1989, 62, 1181-1184.	7.8	207
58	Coherent electron focusing with quantum point contacts in a two-dimensional electron gas. Physical Review B, 1989, 39, 8556-8575.	3.2	320
59	Coherent electron focusing. Festkörperrprobleme, 1989, , 299-316.	0.7	2
60	Quantum Wires and Ballistic Point Contacts. , 1989, , 317-417.		0
61	Quantized conductance of point contacts in a two-dimensional electron gas. Physical Review Letters, 1988, 60, 848-850.	7.8	2,851
62	Quenching of the Hall Effect. Physical Review Letters, 1988, 60, 2406-2409.	7.8	80
63	Quantized conductance of magnetoelectric subbands in ballistic point contacts. Physical Review B, 1988, 38, 3625-3627.	3.2	215
64	Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures. Surface Science, 1988, 196, 144-149.	1.9	57
65	Four-terminal magnetoresistance of a two-dimensional electron-gas constriction in the ballistic regime. Physical Review B, 1988, 37, 8534-8536.	3.2	130
66	Flux-cancellation effect on narrow-channel magnetoresistance fluctuations. Physical Review B, 1988, 37, 6544-6546.	3.2	121
67	Aharonov-bohm effect in a singly connected point contact. Physical Review B, 1988, 38, 10162-10165.	3.2	65
68	Characterization of very narrow quasi-one-dimensional quantum channels. Physical Review B, 1988, 37, 10118-10124.	3.2	197
69	Boundary scattering and weak localization of electrons in a magnetic field. Physical Review B, 1988, 38, 3232-3240.	3.2	144
70	Coherent Electron Focussing in a Two-Dimensional Electron Gas. Europhysics Letters, 1988, 5, 721-725.	2.0	143
71	Mode Interference Effect in Coherent Electron Focusing. Europhysics Letters, 1988, 7, 359-364.	2.0	41
72	Quantum and Classical Ballistic Transport in Constricted Two-Dimensional Electron Gases. Springer Series in Solid-state Sciences, 1988, , 198-207.	0.3	0

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73	Magnetic depopulation of subbands and universal conductance fluctuations in quasi-one dimensional GaAs/AlGaAs heterostructures. Superlattices and Microstructures, 1987, 3, 497-501.	3.1	50
74	Submicron conducting channels defined by shallow mesa etch in GaAs/AlGaAs heterojunctions. Applied Physics Letters, 1986, 49, 1781-1783.	3.3	131