Andreas Wacker

List of Publications by Year
in descending order

		76196	106150
181 papers	5,209 citations	40 h-index	65 g-index

185 all docs	185 docs citations	185 times ranked	2470 citing authors

#	Article	IF	Citations
1	Nonresonant two-level transitions: Insights from quantum thermodynamics. Physical Review A, 2022, 105, .	1.0	3
2	Heat Driven Transport in Serial Double Quantum Dot Devices. Nano Letters, 2021, 21, 988-994.	4.5	18
3	Positivity of entropy production for the three-level maser. Physical Review A, 2021, 103, .	1.0	7
4	Violating the thermodynamic uncertainty relation in the three-level maser. Physical Review E, 2021, 104, L012103.	0.8	37
5	Chaotic behavior of quantum cascade lasers at ignition. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 105952.	1.7	4
6	A thermodynamically consistent Markovian master equation beyond the secular approximation. New Journal of Physics, 2021, 23, 123013.	1.2	21
7	Field-resolved high-order sub-cycle nonlinearities in a terahertz semiconductor laser. Light: Science and Applications, 2021, 10, 246.	7.7	10
8	Estimating the SARS-CoV-2 infected population fraction and the infection-to-fatality ratio: a data-driven case study based on Swedish time series data. Scientific Reports, 2021, 11, 23963.	1.6	2
9	Electron extraction from excited quantum dots with higher order coulomb scattering. Journal of Physics Communications, 2020, 4, 035011.	0.5	0
10	Thermoelectrically cooled THz quantum cascade laser operating up to 210â€‰K. Applied Physics Letters, 2019, 115, .	1.5	178
11	Domain formation and self-sustained oscillations in quantum cascade lasers. European Physical Journal B, 2019, 92, 1.	0.6	5
12	Quantifying the impact of phonon scattering on electrical and thermal transport in quantum dots. European Physical Journal: Special Topics, 2019, 227, 1959-1967.	1.2	2
13	THz Quantum Cascade Lasers Operating up to 210 K. , 2019, , .		0
14	Quantum Szilard Engine with Attractively Interacting Bosons. Physical Review Letters, 2018, 120, 100601.	2.9	46
15	Phenomenological position and energy resolving Lindblad approach to quantum kinetics. Physical Review B, 2018, 97, .	1.1	45
16	Two-well quantum cascade laser optimization by non-equilibrium Green's function modelling. Applied Physics Letters, 2018, 112, .	1.5	53
17	Ignition of quantum cascade lasers in a state of oscillating electric field domains. Physical Review A, 2018, 98, .	1.0	15
18	QmeQ 1.0: An open-source Python package for calculations of transport through quantum dot devices. Computer Physics Communications, 2017, 221, 317-342.	3.0	16

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19	Theory and measurements of harmonic generation in semiconductor superlattices with applications in the 100 GHz to 1 THz range. Physical Review B, 2017, 96, .	1.1	52
20	Two-dimensional action spectroscopy of excitonic systems: Explicit simulation using a phase-modulation technique. Physical Review A, 2017, 96, .	1.0	29
21	Simulating terahertz quantum cascade lasers: Trends from samples from different labs. Journal of Applied Physics, 2016, 120, .	1.1	14
22	Optimization schemes for efficient multiple exciton generation and extraction in colloidal quantum dots. Journal of Chemical Physics, 2016, 145, 064703.	1.2	11
23	Nonlinear thermoelectric efficiency of superlattice-structured nanowires. Physical Review B, 2016, 94, .	1.1	30
24	Violation of Onsager's theorem in approximate master equation approaches. Physical Review B, 2016, 94, .	1.1	11
25	Transport in serial spinful multiple-dot systems: The role of electron-electron interactions and coherences. Scientific Reports, 2016, 6, 22761.	1.6	12
26	Thermopower signatures and spectroscopy of the canyon of conductance suppression. Physical Review B, 2016, 94, .	1.1	2
27	Superlattice gain in positive differential conductivity region. AIP Advances, 2016, 6, .	0.6	9
28	Simple electron-electron scattering in non-equilibrium Green's function simulations. Journal of Physics: Conference Series, 2016, 696, 012013.	0.3	28
29	Time Dependent Study of Multiple Exciton Generation in Nanocrystal Quantum Dots. Journal of Physics: Conference Series, 2016, 696, 012012.	0.3	3
30	Influence of interface roughness in quantum cascade lasers. Journal of Applied Physics, 2015, 118, 114501.	1.1	19
31	Impact of interface roughness distributions on the operation of quantum cascade lasers. Optics Express, 2015, 23, 5201.	1.7	35
32	Designing <i>Ï€</i>-stacked molecular structures to control heat transport through molecular junctions. Applied Physics Letters, 2014, 105, .	1.5	32
33	Thermopower as a tool to investigate many-body effects in quantum systems. Applied Physics Letters, 2014, 105, 083105.	1.5	2
34	Temperature dependent nonlinear response of quantum cascade structures. Optical and Quantum Electronics, 2014, 46, 533-539.	1.5	2
35	Free carrier absorption and inter-subband transitions in imperfect heterostructures. Semiconductor Science and Technology, 2014, 29, 023001.	1.0	8
36	Microscopic approach to second harmonic generation in quantum cascade lasers. Optics Express, 2014, 22, 18389.	1.7	7

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37	Absorption in disordered heterostructures: Contributions from intra- and inter-subband scattering and impact of localised states. , 2014, , .		0
38	Comparative analysis of quantum cascade laser modeling based on density matrices and non-equilibrium Green's functions. Applied Physics Letters, 2014, 105, .	1.5	44
39	One-dimensional massless Dirac bands in semiconductor superlattices. Physical Review B, 2014, 89, .	1.1	2
40	An indirectly pumped terahertz quantum cascade laser with low injection coupling strength operating above 150â€‰K. Journal of Applied Physics, 2013, 113, .	1.1	28
41	Injection schemes in THz quantum cascade lasers under operation. Proceedings of SPIE, 2013, , .	0.8	10
42	Nonequilibrium Greenâ€™s Function Model for Simulation of Quantum Cascade Laser Devices Under Operating Conditions. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1-11.	1.9	87
43	A diagrammatic description of the equations of motion, current and noise within the second-order von Neumann approach. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 065301.	0.7	18
44	Dopant Engineering of Inter-Subband Linewidth and Lineshape in Multiwell Heterostructures. Applied Physics Express, 2013, 6, 094101.	1.1	10
45	Total Current Blockade in an Ultracold Dipolar Quantum Wire. Physical Review Letters, 2013, 110, 085303.	2.9	15
46	Heat flow in InAs/InP heterostructure nanowires. Physical Review B, 2012, 86, .	1.1	11
47	Cotunneling renormalization in carbon nanotube quantum dots. Physical Review B, 2012, 86, .	1.1	5
48	Terahertz Quantum Cascade Lasers Based on Phonon Scattering Assisted Injection and Extraction. , 2012, , .		1
49	Nonlinear response of quantum cascade structures. Applied Physics Letters, 2012, 101, .	1.5	18
50	A phonon scattering assisted injection and extraction based terahertz quantum cascade laser. Journal of Applied Physics, 2012, 111, .	1.1	58
51	Relevance of intra- and inter-subband scattering on the absorption in heterostructures. Applied Physics Letters, 2012, 101, 191104.	1.5	11
52	Free-carrier absorption in quantum cascade structures. Physical Review B, 2012, 85, .	1.1	30
53	Unraveling of free-carrier absorption for terahertz radiation in heterostructures. Physical Review B, 2011, 84, .	1.1	16
54	Canyon of current suppression in an interacting two-level quantum dot. Physical Review B, 2011, 83, .	1.1	19

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55	Signatures of Wigner localization in epitaxially grown nanowires. Physical Review B, 2011, 83, .	1.1	28
56	Increasing thermoelectric performance using coherent transport. Physical Review B, 2011, 84, .	1.1	168
57	Acoustic Phonons in Nanowires with Embedded Heterostructures. Journal of Nanomaterials, 2011, 2011, 1-7.	1.5	3
58	Modeling of cotunneling in quantum dot systems. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 595-599.	1.3	24
59	Correlation-Induced Conductance Suppression at Level Degeneracy in a Quantum Dot. Physical Review Letters, 2010, 104, 186804.	2.9	52
60	Extraction-controlled quantum cascade lasers. Applied Physics Letters, 2010, 97, .	1.5	39
61	Probing Confined Phonon Modes by Transport through a Nanowire Double Quantum Dot. Physical Review Letters, 2010, 104, 036801.	2.9	50
62	Temperature dependence and screening models in quantum cascade structures. Journal of Applied Physics, 2009, 106, .	1.1	34
63	Interplay between interference and Coulomb interaction in the ferromagnetic Anderson model with applied magnetic field. Physical Review B, 2009, 79, .	1.1	14
64	Density-matrix theory of quantum cascade lasers: Localization effects. , 2009, , .		0
65	Zeroâ€phonon line broadening and satellite peaks in nanowire quantum dots: The role of piezoelectric coupling. Physica Status Solidi (B): Basic Research, 2009, 246, 337-341.	0.7	6
66	Temperature degradation of the gain transition in terahertz quantum cascade lasers - the role of acoustic phonon scattering. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 579-582.	0.8	4
67	Simulation of gain in quantum cascade lasers. Proceedings of SPIE, 2009, , .	0.8	8
68	Density-matrix theory of the optical dynamics and transport in quantum cascade structures: The role of coherence. Physical Review B, 2009, 79, .	1.1	52
69	Coherence and spatial resolution of transport in quantum cascade lasers. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 215-220.	0.8	26
70	Temperature dependence of the gain profile for terahertz quantum cascade lasers. Applied Physics Letters, 2008, 92, .	1.5	76
71	Theory of Nonlinear Transport for Ensembles ofÂQuantum Dots. Nanoscience and Technology, 2008, , 211-220.	1.5	0
72	InAs nanowire metal-oxide-semiconductor capacitors. Applied Physics Letters, 2008, 92, .	1.5	84

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73	Analysing the capacitanceâ€“voltage measurements of vertical wrapped-gated nanowires. Nanotechnology, 2008, 19, 435201.	1.3	27
74	The alpha factor of a quantum cascade laser. , 2008, , .		0
75	Coherence in optics and transport in terahertz quantum cascade lasers. , 2008, , .		0
76	Electron transport through nanosystems driven by Coulomb scattering. Physical Review B, 2007, 76, .	1.1	4
77	Zero-Phonon Linewidth and Phonon Satellites in the Optical Absorption of Nanowire-Based Quantum Dots. Physical Review Letters, 2007, 99, 087401.	2.9	30
78	Fingerprints of spatial charge transfer in quantum cascade lasers. Journal of Applied Physics, 2007, 102, .	1.1	32
79	Coherent transport through an interacting double quantum dot: Beyond sequential tunneling. Physical Review B, 2007, 75, .	1.1	59
80	Nonlinear carrier waves and gain oscillations in infrared and terahertz quantum cascade lasers. , 2007, , .		0
81	Few Electron Double Quantum Dots in InAs/InP Nanowire Heterostructures. Nano Letters, 2007, 7, 243-246.	4.5	104
82	Microscopic theory for intersubband spontaneous emission. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 356-359.	0.8	2
83	Coexistence of gain and absorption. Nature Physics, 2007, 3, 298-299.	6.5	23
84	Characterization of intersubband devices combining a nonequilibrium many body theory with transmission spectroscopy experiments. Journal of Materials Science: Materials in Electronics, 2007, 18, 689-694.	1.1	29
85	Counting statistics and decoherence in coupled quantum dots. Physical Review B, 2006, 73, .	1.1	81
86	Microscopic Intersubband Optics: Nonequilibrium Many-Body Physics Meets Device Engineering. , 2006, , .		0
87	Probing the electronic and optical properties of quantum cascade lasers under operating conditions. , 2006, 6386, 81.		0
88	Quantum mechanical wavepacket transport in quantum cascade laser structures. Physical Review B, 2006, 73, .	1.1	92
89	Theory of the ultrafast nonlinear response of terahertz quantum cascade laser structures. Applied Physics Letters, 2006, 89, 091112.	1.5	28
90	Phonon-assisted tunneling through quantum dot stacks. Physical Review B, 2006, 73, .	1.1	8

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91	Theory of the ultrafast nonlinear optical properties of quantum cascade lasers: From gain spectra to electronic wave packets. , 2006, , .		0
92	Super-Poissonian Current Fluctuations in Tunneling Through Coupled Quantum Dots. , 2006, , 23-27.		1
93	Self-consistent theory of the gain linewidth for quantum-cascade lasers. Applied Physics Letters, 2005, 86, 041108.	1.5	77
94	Effect of Coulomb corrections and mean field on gain and absorption in quantum cascade lasers. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3027-3030.	0.8	6
95	Decoherence and current fluctuations in tunneling through coupled quantum dots. AIP Conference Proceedings, 2005, , .	0.3	0
96	Tunneling through nanosystems: Combining broadening with many-particle states. Physical Review B, 2005, 72, .	1.1	115
97	Positive correlations in tunnelling through coupled quantum dots. Semiconductor Science and Technology, 2004, 19, S37-S39.	1.0	10
98	Coulomb scattering with remote continuum states in quantum dot devices. Journal of Applied Physics, 2004, 95, 7966-7970.	1.1	16
99	Controlling many-body effects in the midinfrared gain and terahertz absorption of quantum cascade laser structures. Physical Review B, 2004, 69, .	1.1	52
100	Non-local Auger effect in quantum dot devices. Semiconductor Science and Technology, 2004, 19, S43-S44.	1.0	6
101	Coulomb effects in tunneling through a quantum dot stack. Physical Review B, 2004, 69, .	1.1	23
102	Dependence of lasing properties of GaAs/AlxGa1ÂxAs quantum cascade lasers on injector doping density: theory and experiment. Semiconductor Science and Technology, 2004, 19, S45-S47.	1.0	14
103	Inhomogeneous charging and screening effects in semiconductor quantum dot arrays. New Journal of Physics, 2004, 6, 81-81.	1.2	7
104	Many-body theory for multiple intersubband absorption in heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 618-619.	1.3	2
105	Shot noise in tunneling through a quantum dot array. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1293-1296.	0.8	15
106	Nonlinear charging effect of quantum dots in apâ˘'iâ˘'ndiode. Physical Review B, 2003, 68, .	1.1	20
107	Self-consistent Coulomb effects and charge distribution of quantum dot arrays. Physical Review B, 2003, 68, .	1.1	10
108	Theoretical analysis of spectral gain in a terahertz quantum-cascade laser: Prospects for gain at 1 THz. Applied Physics Letters, 2003, 83, 2506-2508.	1.5	24

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109	Hybrid Model for Chaotic Front Dynamics: From Semiconductors to Water Tanks. Physical Review Letters, 2003, 91, 066601.	2.9	31
110	Shot noise of coupled semiconductor quantum dots. Physical Review B, 2003, 68, .	1.1	60
111	Feasibility of a semiconductor superlattice oscillator based on quenched domains for the generation of submillimeter waves. Applied Physics Letters, 2002, 81, 1515-1517.	1.5	25
112	High-frequency impedance of driven superlattices. Journal of Applied Physics, 2002, 92, 3137-3140.	1.1	10
113	Control of the dipole domain propagation in a GaAs/AlAs superlattice with a high-frequency field. Physical Review B, 2002, 65, .	1.1	20
114	Chaotic front dynamics in semiconductor superlattices. Physical Review B, 2002, 65, .	1.1	46
115	Dynamical bistability in quantum-dot structures: Role of Auger processes. Physical Review B, 2002, 66, .	1.1	12
116	<title>Synchronization of dipole domains in GHz-driven superlattices</title>. , 2002, , .		1
117	Gain in quantum cascade lasers and superlattices: A quantum transport theory. Physical Review B, 2002, 66, .	1.1	112
118	Nonequilibrium Greenâ€™s function theory for transport and gain properties of quantum cascade structures. Physical Review B, 2002, 66, .	1.1	205
119	Many-Particle Charging Effects and Recombination Current through a Quantum Dot Array. Physica Status Solidi (B): Basic Research, 2002, 234, 215-220.	0.7	2
120	Gain and loss in quantum cascade lasers. Physica B: Condensed Matter, 2002, 314, 327-331.	1.3	5
121	Nonlinear transport through an ensemble of quantum dots. Physica B: Condensed Matter, 2002, 314, 459-463.	1.3	10
122	Tripole current oscillations in superlattices. Physica B: Condensed Matter, 2002, 314, 404-408.	1.3	14
123	Ultrafast coherent electron transport in GaAs/AlGaAs quantum cascade structures. Physica B: Condensed Matter, 2002, 314, 314-322.	1.3	6
124	Optics with ballistic electrons: anti-reflection coatings for GaAs/AlGaAs superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 285-288.	1.3	4
125	Sequential tunneling through an array of electrostatically coupled quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 837-840.	1.3	6
126	Quantum transport calculations for quantum cascade laser structures. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 858-861.	1.3	9

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127	Semiconductor superlattices: a model system for nonlinear transport. Physics Reports, 2002, 357, 1-111.	10.3	411
128	Transport in Nanostructures: A Comparison between Nonequilibrium Green Functions and Density Matrices. , 2001, , 199-210.		4
129	Antireflection coating for miniband transport and Fabryâ€"PÃ©rot resonances in GaAs/AlGaAs superlattices. Applied Physics Letters, 2001, 79, 1486-1488.	1.5	50
130	Capacitance-Voltage Spectroscopy of Self-Organized InAs/GaAs Quantum Dots Embedded in a pn Diode. Physica Status Solidi (B): Basic Research, 2001, 224, 79-83.	0.7	3
131	Magnetotransport through semiconductor superlattices. Physical Review B, 2001, 63, .	1.1	5
132	Dynamic scenarios of multistable switching in semiconductor superlattices. Physical Review E, 2001, 63, 066207.	0.8	46
133	Optics with Ballistic Electrons: Anti-Reflection Coatings for GaAs-AlGaAs Superlattices. Springer Proceedings in Physics, 2001, , 743-744.	0.1	1
134	Field domains in semiconductor superlattices: Dynamic scenarios of multistable switching. Springer Proceedings in Physics, 2001, , 801-802.	0.1	1
135	Interminiband spectroscopy of biased superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 274-278.	1.3	1
136	Lateral current density fronts in globally coupled bistable semiconductors with S- or Z-shaped current voltage characteristics. European Physical Journal B, 2000, 13, 157-168.	0.6	50
137	Thermal breakdown, bistability, and complex high-frequency current oscillations due to carrier heating in superlattices. Applied Physics Letters, 2000, 76, 2059-2061.	1.5	11
138	Wave fronts may move upstream in semiconductor superlattices. Physical Review E, 2000, 61, 4866-4876.	0.8	34
139	Capacitanceâ€"voltage characteristics of InAs/GaAs quantum dots embedded in a pn structure. Applied Physics Letters, 2000, 77, 1671-1673.	1.5	41
140	Inelastic Quantum Transport in Superlattices: Success and Failure of the Boltzmann Equation. Physical Review Letters, 1999, 83, 836-839.	2.9	66
141	Theory of transmission through disordered superlattices. Physical Review B, 1999, 60, 16039-16049.	1.1	15
142	Continuum Wannier-Stark Ladders Strongly Coupled by Zener Resonances in Semiconductor Superlattices. Physical Review Letters, 1999, 82, 3120-3123.	2.9	30
143	Hot electrons in superlattices: quantum transport versus Boltzmann equation. Physica B: Condensed Matter, 1999, 272, 157-159.	1.3	2
144	Scattering and Bloch oscillation in semiconductor superlattices. Physica B: Condensed Matter, 1999, 272, 175-179.	1.3	1

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145	Simultaneous investigation of vertical transport and intersubband absorption in a superlattice: Continuum WannierÃ¢Â€Â“Stark ladders and next-nearest-neighbor tunneling. Physica B: Condensed Matter, 1999, 272, 194-197.	1.3	0
146	Complex behavior due to electron heating in superlattices exhibiting high-frequency current oscillations. Physica B: Condensed Matter, 1999, 272, 202-204.	1.3	3
147	Transmission through superlattices with interface roughness. Superlattices and Microstructures, 1999, 25, 43-46.	1.4	2
148	Geometry Effects at Conductance Quantization in Quantum Wires. Physica Status Solidi (B): Basic Research, 1999, 216, R5-R6.	0.7	0
149	Impact of interface roughness on perpendicular transport and domain formation in superlattices. Superlattices and Microstructures, 1998, 23, 297-300.	1.4	7
150	Strong impact of impurity bands on domain formation in superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 493-497.	1.3	0
151	Nonlinear and oscillatory electronic transport in superlattices as a probe of structural imperfections. Physica B: Condensed Matter, 1998, 249-251, 961-965.	1.3	4
152	Resonant tunnelling in superlattices with a basis. Semiconductor Science and Technology, 1998, 13, 910-914.	1.0	14
153	Transition Between Coherent and Incoherent Electron Transport inGaAs/GaAlAsSuperlattices. Physical Review Letters, 1998, 81, 3495-3498.	2.9	68
154	Quantum Transport: The Link between Standard Approaches in Superlattices. Physical Review Letters, 1998, 80, 369-372.	2.9	108
155	Vertical transport and domain formation in multiple quantum wells. , 1998, , 321-355.		9
156	Current-voltage characteristic and stability in resonant-tunneling n-dopedsemiconductor superlattices. Physical Review B, 1997, 55, 2466-2475.	1.1	69
157	Sequential tunneling in doped superlattices: Fingerprints of impurity bands and photon-assisted tunneling. Physical Review B, 1997, 56, 13268-13278.	1.1	30
158	Electrically tunable GHz oscillations in doped GaAs-AlAs superlattices. Physical Review B, 1997, 55, 2476-2488.	1.1	134
159	Microscopic modelling of perpendicular electronic transport in doped multiple quantum wells. Physica Scripta, 1997, T69, 321-324.	1.2	13
160	Transport in a Weakly-Coupled Superlattice: A Quantitative Approach for Photon-Assisted Tunneling. Physica Status Solidi (B): Basic Research, 1997, 204, 73-76.	0.7	4
161	Possible THz Gain in Superlattices at a Stable Operation Point. Physica Status Solidi (B): Basic Research, 1997, 204, 95-97.	0.7	9
162	Temperature persistent bistability and threshold switching in a single barrier heterostructure hotâ€electron diode. Journal of Applied Physics, 1996, 80, 3376-3380.	1.1	11

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163	Spiking in a semiconductor device: Experiments and comparison with a model. Physical Review E, 1996, 54, 1253-1260.	0.8	19
164	The influence of imperfections and weak disorder on domain formation in superlattices. Semiconductor Science and Technology, 1996, 11, 475-482.	1.0	14
165	Oscillatory Instabilities and Field Domain Formation in Imperfect Superlattices. , 1996, , 177-181.		2
166	Criteria for stability in bistable electrical devices with Sâ€•or Zâ€shaped current voltage characteristic. Journal of Applied Physics, 1995, 78, 7352-7357.	1.1	68
167	Probing growth-related disorder by high-field transport in semiconductor superlattices. Physical Review B, 1995, 52, 13788-13791.	1.1	29
168	Nonresonant carrier transport through high-field domains in semiconductor superlattices. Physical Review B, 1995, 51, 9943-9951.	1.1	48
169	Transient Spatio-Temporal Chaos in a Reaction-Diffusion Model. Europhysics Letters, 1995, 31, 257-262.	0.7	52
170	Oscillatory Transport Instabilities and Complex Spatio-Temporal Dynamics in Semiconductors. Springer Proceedings in Physics, 1995, , 21-45.	0.1	5
171	General Conditions for Stability in Bistable Electrical Devices with S- or Z-Shaped Current-Voltage Characteristics. NATO ASI Series Series B: Physics, 1995, , 489-492.	0.2	0
172	Spiking at vertical electrical transport in a heterostructure device. Semiconductor Science and Technology, 1994, 9, 592-594.	1.0	20
173	Dynamical behavior in a quantum-dot structure. Physical Review B, 1994, 49, 16785-16788.	1.1	4
174	Simple model for multistability and domain formation in semiconductor superlattices. Physical Review B, 1994, 50, 1705-1712.	1.1	130
175	Finite-size scaling of the specific heat of4 He near Tî». Physica B: Condensed Matter, 1994, 194-196, 611-612.	1.3	10
176	Bifurcation scenarios of spatio-temporal spiking in semiconductor devices. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 195, 144-150.	0.9	12
177	Spiking in an activator-inhibitor model for elements with S-shaped negative differential conductivity. European Physical Journal B, 1994, 93, 431-436.	0.6	38
178	Multistability of the currentâ€voltage characteristics in doped GaAsâ€AlAs superlattices. Applied Physics Letters, 1994, 65, 1808-1810.	1.5	115
179	Spatio-temporal dynamics of vertical charge transport in a semiconductor heterostructure. Semiconductor Science and Technology, 1992, 7, 1456-1463.	1.0	14
180	Oscillatory instability in the heterostructure hotâ€electron diode. Applied Physics Letters, 1991, 59, 1702-1704.	1.5	25

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181	Simulation of Transport and Gain in Quantum Cascade Lasers. Advances in Solid State Physics, 0, , 369-382.	0.8	6