Andreas Wacker

List of Publications by Year
in descending order

181 papers	5,209 citations	76196 40 h-index	106150 65 g-index
185 all docs	185 docs citations	185 times ranked	2470 citing authors

#	Article	IF	Citations
1	Semiconductor superlattices: a model system for nonlinear transport. Physics Reports, 2002, 357, 1-111.	10.3	411
2	Nonequilibrium Greenâ€™s function theory for transport and gain properties of quantum cascade structures. Physical Review B, 2002, 66, .	1.1	205
3	Thermoelectrically cooled THz quantum cascade laser operating up to 210â€‰K. Applied Physics Letters, 2019, 115, .	1.5	178
4	Increasing thermoelectric performance using coherent transport. Physical Review B, 2011, 84, .	1.1	168
5	Electrically tunable GHz oscillations in doped GaAs-AlAs superlattices. Physical Review B, 1997, 55, 2476-2488.	1.1	134
6	Simple model for multistability and domain formation in semiconductor superlattices. Physical Review B, 1994, 50, 1705-1712.	1.1	130
7	Multistability of the currentâ€voltage characteristics in doped GaAsâ€AlAs superlattices. Applied Physics Letters, 1994, 65, 1808-1810.	1.5	115
8	Tunneling through nanosystems: Combining broadening with many-particle states. Physical Review B, 2005, 72, .	1.1	115
9	Gain in quantum cascade lasers and superlattices: A quantum transport theory. Physical Review B, 2002, 66, .	1.1	112
10	Quantum Transport: The Link between Standard Approaches in Superlattices. Physical Review Letters, 1998, 80, 369-372.	2.9	108
11	Few Electron Double Quantum Dots in InAs/InP Nanowire Heterostructures. Nano Letters, 2007, 7, 243-246.	4.5	104
12	Quantum mechanical wavepacket transport in quantum cascade laser structures. Physical Review B, 2006, 73, .	1.1	92
13	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
14	InAs nanowire metal-oxide-semiconductor capacitors. Applied Physics Letters, 2008, 92, .	1.5	84
15	Counting statistics and decoherence in coupled quantum dots. Physical Review B, 2006, 73, .	1.1	81
16	Self-consistent theory of the gain linewidth for quantum-cascade lasers. Applied Physics Letters, 2005, 86, 041108.	1.5	77
17	Temperature dependence of the gain profile for terahertz quantum cascade lasers. Applied Physics Letters, 2008, 92, .	1.5	76
18	Current-voltage characteristic and stability in resonant-tunneling n-dopedsemiconductor superlattices. Physical Review B, 1997, 55, 2466-2475.	1.1	69

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19	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
20	Transition Between Coherent and Incoherent Electron Transport inGaAs/GaAlAsSuperlattices. Physical Review Letters, 1998, 81, 3495-3498.	2.9	68
21	Inelastic Quantum Transport in Superlattices: Success and Failure of the Boltzmann Equation. Physical Review Letters, 1999, 83, 836-839.	2.9	66
22	Shot noise of coupled semiconductor quantum dots. Physical Review B, 2003, 68, .	1.1	60
23	Coherent transport through an interacting double quantum dot: Beyond sequential tunneling. Physical Review B, 2007, 75, .	1.1	59
24	A phonon scattering assisted injection and extraction based terahertz quantum cascade laser. Journal of Applied Physics, 2012, 111, .	1.1	58
25	Two-well quantum cascade laser optimization by non-equilibrium Green's function modelling. Applied Physics Letters, 2018, 112, .	1.5	53
26	Transient Spatio-Temporal Chaos in a Reaction-Diffusion Model. Europhysics Letters, 1995, 31, 257-262.	0.7	52
27	Controlling many-body effects in the midinfrared gain and terahertz absorption of quantum cascade laser structures. Physical Review B, 2004, 69, .	1.1	52
28	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
29	Correlation-Induced Conductance Suppression at Level Degeneracy in a Quantum Dot. Physical Review Letters, 2010, 104, 186804.	2.9	52
30	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
31	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
32	Antireflection coating for miniband transport and Fabryâ€“PÃ©rot resonances in GaAs/AlGaAs superlattices. Applied Physics Letters, 2001, 79, 1486-1488.	1.5	50
33	Probing Confined Phonon Modes by Transport through a Nanowire Double Quantum Dot. Physical Review Letters, 2010, 104, 036801.	2.9	50
34	Nonresonant carrier transport through high-field domains in semiconductor superlattices. Physical Review B, 1995, 51, 9943-9951.	1.1	48
35	Dynamic scenarios of multistable switching in semiconductor superlattices. Physical Review E, 2001, 63, 066207.	0.8	46
36	Chaotic front dynamics in semiconductor superlattices. Physical Review B, 2002, 65, .	1.1	46

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37	Quantum Szilard Engine with Attractively Interacting Bosons. Physical Review Letters, 2018, 120, 100601.	2.9	46
38	Phenomenological position and energy resolving Lindblad approach to quantum kinetics. Physical Review B, 2018, 97, .	1.1	45
39	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
40	Capacitanceâ€œvoltage characteristics of InAs/GaAs quantum dots embedded in a pn structure. Applied Physics Letters, 2000, 77, 1671-1673.	1.5	41
41	Extraction-controlled quantum cascade lasers. Applied Physics Letters, 2010, 97, .	1.5	39
42	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
43	Violating the thermodynamic uncertainty relation in the three-level maser. Physical Review E, 2021, 104, L012103.	0.8	37
44	Impact of interface roughness distributions on the operation of quantum cascade lasers. Optics Express, 2015, 23, 5201.	1.7	35
45	Wave fronts may move upstream in semiconductor superlattices. Physical Review E, 2000, 61, 4866-4876.	0.8	34
46	Temperature dependence and screening models in quantum cascade structures. Journal of Applied Physics, 2009, 106, .	1.1	34
47	Fingerprints of spatial charge transfer in quantum cascade lasers. Journal of Applied Physics, 2007, 102, .	1.1	32
48	Designing <i>Ï€</i>-stacked molecular structures to control heat transport through molecular junctions. Applied Physics Letters, 2014, 105, .	1.5	32
49	Hybrid Model for Chaotic Front Dynamics: From Semiconductors to Water Tanks. Physical Review Letters, 2003, 91, 066601.	2.9	31
50	Sequential tunneling in doped superlattices: Fingerprints of impurity bands and photon-assisted tunneling. Physical Review B, 1997, 56, 13268-13278.	1.1	30
51	Continuum Wannier-Stark Ladders Strongly Coupled by Zener Resonances in Semiconductor Superlattices. Physical Review Letters, 1999, 82, 3120-3123.	2.9	30
52	Zero-Phonon Linewidth and Phonon Satellites in the Optical Absorption of Nanowire-Based Quantum Dots. Physical Review Letters, 2007, 99, 087401.	2.9	30
53	Free-carrier absorption in quantum cascade structures. Physical Review B, 2012, 85, .	1.1	30
54	Nonlinear thermoelectric efficiency of superlattice-structured nanowires. Physical Review B, 2016, 94, .	1.1	30

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55	Probing growth-related disorder by high-field transport in semiconductor superlattices. Physical Review B, 1995, 52, 13788-13791.	1.1	29
56	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
57	Two-dimensional action spectroscopy of excitonic systems: Explicit simulation using a phase-modulation technique. Physical Review A, 2017, 96, .	1.0	29
58	Theory of the ultrafast nonlinear response of terahertz quantum cascade laser structures. Applied Physics Letters, 2006, 89, 091112.	1.5	28
59	Signatures of Wigner localization in epitaxially grown nanowires. Physical Review B, 2011, 83, .	1.1	28
60	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
61	Simple electron-electron scattering in non-equilibrium Green's function simulations. Journal of Physics: Conference Series, 2016, 696, 012013.	0.3	28
62	Analysing the capacitanceâ€“voltage measurements of vertical wrapped-gated nanowires. Nanotechnology, 2008, 19, 435201.	1.3	27
63	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
64	Oscillatory instability in the heterostructure hotâ€electron diode. Applied Physics Letters, 1991, 59, 1702-1704.	1.5	25
65	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
66	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
67	Modeling of cotunneling in quantum dot systems. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 595-599.	1.3	24
68	Coulomb effects in tunneling through a quantum dot stack. Physical Review B, 2004, 69, .	1.1	23
69	Coexistence of gain and absorption. Nature Physics, 2007, 3, 298-299.	6.5	23
70	A thermodynamically consistent Markovian master equation beyond the secular approximation. New Journal of Physics, 2021, 23, 123013.	1.2	21
71	Spiking at vertical electrical transport in a heterostructure device. Semiconductor Science and Technology, 1994, 9, 592-594.	1.0	20
72	Control of the dipole domain propagation in a GaAs/AlAs superlattice with a high-frequency field. Physical Review B, 2002, 65, .	1.1	20

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73	Nonlinear charging effect of quantum dots in apâ`'iâ`'ndiode. Physical Review B, 2003, 68, .	1.1	20
74	Spiking in a semiconductor device: Experiments and comparison with a model. Physical Review E, 1996, 54, 1253-1260.	0.8	19
75	Canyon of current suppression in an interacting two-level quantum dot. Physical Review B, 2011, 83, .	1.1	19
76	Influence of interface roughness in quantum cascade lasers. Journal of Applied Physics, 2015, 118, 114501.	1.1	19
77	Nonlinear response of quantum cascade structures. Applied Physics Letters, 2012, 101, .	1.5	18
78	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
79	Heat Driven Transport in Serial Double Quantum Dot Devices. Nano Letters, 2021, 21, 988-994.	4.5	18
80	Coulomb scattering with remote continuum states in quantum dot devices. Journal of Applied Physics, 2004, 95, 7966-7970.	1.1	16
81	Unraveling of free-carrier absorption for terahertz radiation in heterostructures. Physical Review B, 2011, 84, .	1.1	16
82	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
83	Theory of transmission through disordered superlattices. Physical Review B, 1999, 60, 16039-16049.	1.1	15
84	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
85	Total Current Blockade in an Ultracold Dipolar Quantum Wire. Physical Review Letters, 2013, 110, 085303.	2.9	15
86	Ignition of quantum cascade lasers in a state of oscillating electric field domains. Physical Review A, 2018, 98, .	1.0	15
87	Spatio-temporal dynamics of vertical charge transport in a semiconductor heterostructure. Semiconductor Science and Technology, 1992, 7, 1456-1463.	1.0	14
88	The influence of imperfections and weak disorder on domain formation in superlattices. Semiconductor Science and Technology, 1996, 11, 475-482.	1.0	14
89	Resonant tunnelling in superlattices with a basis. Semiconductor Science and Technology, 1998, 13, 910-914.	1.0	14
90	Tripole current oscillations in superlattices. Physica B: Condensed Matter, 2002, 314, 404-408.	1.3	14

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91	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
92	Interplay between interference and Coulomb interaction in the ferromagnetic Anderson model with applied magnetic field. Physical Review B, 2009, 79, .	1.1	14
93	Simulating terahertz quantum cascade lasers: Trends from samples from different labs. Journal of Applied Physics, 2016, 120, .	1.1	14
94	Microscopic modelling of perpendicular electronic transport in doped multiple quantum wells. Physica Scripta, 1997, T69, 321-324.	1.2	13
95	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
96	Dynamical bistability in quantum-dot structures: Role of Auger processes. Physical Review B, 2002, 66, .	1.1	12
97	Transport in serial spinful multiple-dot systems: The role of electron-electron interactions and coherences. Scientific Reports, 2016, 6, 22761.	1.6	12
98	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
99	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
100	Heat flow in InAs/InP heterostructure nanowires. Physical Review B, 2012, 86, .	1.1	11
101	Relevance of intra- and inter-subband scattering on the absorption in heterostructures. Applied Physics Letters, 2012, 101, 191104.	1.5	11
102	Optimization schemes for efficient multiple exciton generation and extraction in colloidal quantum dots. Journal of Chemical Physics, 2016, 145, 064703.	1.2	11
103	Violation of Onsager's theorem in approximate master equation approaches. Physical Review B, 2016, 94, .	1.1	11
104	Finite-size scaling of the specific heat of4 He near TÎ». Physica B: Condensed Matter, 1994, 194-196, 611-612.	1.3	10
105	High-frequency impedance of driven superlattices. Journal of Applied Physics, 2002, 92, 3137-3140.	1.1	10
106	Nonlinear transport through an ensemble of quantum dots. Physica B: Condensed Matter, 2002, 314, 459-463.	1.3	10
107	Self-consistent Coulomb effects and charge distribution of quantum dot arrays. Physical Review B, 2003, 68, .	1.1	10
108	Positive correlations in tunnelling through coupled quantum dots. Semiconductor Science and Technology, 2004, 19, S37-S39.	1.0	10

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109	Injection schemes in THz quantum cascade lasers under operation. Proceedings of SPIE, 2013, , .	0.8	10
110	Dopant Engineering of Inter-Subband Linewidth and Lineshape in Multiwell Heterostructures. Applied Physics Express, 2013, 6, 094101.	1.1	10
111	Field-resolved high-order sub-cycle nonlinearities in a terahertz semiconductor laser. Light: Science and Applications, 2021, 10, 246.	7.7	10
112	Possible THz Gain in Superlattices at a Stable Operation Point. Physica Status Solidi (B): Basic Research, 1997, 204, 95-97.	0.7	9
113	Quantum transport calculations for quantum cascade laser structures. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 858-861.	1.3	9
114	Superlattice gain in positive differential conductivity region. AIP Advances, 2016, 6, .	0.6	9
115	Vertical transport and domain formation in multiple quantum wells. , 1998, , 321-355.		9
116	Phonon-assisted tunneling through quantum dot stacks. Physical Review B, 2006, 73, .	1.1	8
117	Simulation of gain in quantum cascade lasers. Proceedings of SPIE, 2009, , .	0.8	8
118	Free carrier absorption and inter-subband transitions in imperfect heterostructures. Semiconductor Science and Technology, 2014, 29, 023001.	1.0	8
119	Impact of interface roughness on perpendicular transport and domain formation in superlattices. Superlattices and Microstructures, 1998, 23, 297-300.	1.4	7
120	Inhomogeneous charging and screening effects in semiconductor quantum dot arrays. New Journal of Physics, 2004, 6, 81-81.	1.2	7
121	Microscopic approach to second harmonic generation in quantum cascade lasers. Optics Express, 2014, 22, 18389.	1.7	7
122	Positivity of entropy production for the three-level maser. Physical Review A, 2021, 103, .	1.0	7
123	Ultrafast coherent electron transport in GaAs/AlGaAs quantum cascade structures. Physica B: Condensed Matter, 2002, 314, 314-322.	1.3	6
124	Sequential tunneling through an array of electrostatically coupled quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 837-840.	1.3	6
125	Simulation of Transport and Gain in Quantum Cascade Lasers. Advances in Solid State Physics, 0, , 369-382.	0.8	6
126	Non-local Auger effect in quantum dot devices. Semiconductor Science and Technology, 2004, 19, S43-S44.	1.0	6

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127	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
128	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
129	Magnetotransport through semiconductor superlattices. Physical Review B, 2001, 63, .	1.1	5
130	Gain and loss in quantum cascade lasers. Physica B: Condensed Matter, 2002, 314, 327-331.	1.3	5
131	Cotunneling renormalization in carbon nanotube quantum dots. Physical Review B, 2012, 86, .	1.1	5
132	Domain formation and self-sustained oscillations in quantum cascade lasers. European Physical Journal B, 2019, 92, 1.	0.6	5
133	Oscillatory Transport Instabilities and Complex Spatio-Temporal Dynamics in Semiconductors. Springer Proceedings in Physics, 1995, , 21-45.	0.1	5
134	Dynamical behavior in a quantum-dot structure. Physical Review B, 1994, 49, 16785-16788.	1.1	4
135	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
136	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
137	Transport in Nanostructures: A Comparison between Nonequilibrium Green Functions and Density Matrices. , 2001, , 199-210.		4
138	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
139	Electron transport through nanosystems driven by Coulomb scattering. Physical Review B, 2007, 76, .	1.1	4
140	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
141	Chaotic behavior of quantum cascade lasers at ignition. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 105952.	1.7	4
142	Complex behavior due to electron heating in superlattices exhibiting high-frequency current oscillations. Physica B: Condensed Matter, 1999, 272, 202-204.	1.3	3
143	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
144	Acoustic Phonons in Nanowires with Embedded Heterostructures. Journal of Nanomaterials, 2011, 2011, 1-7.	1.5	3

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145	Time Dependent Study of Multiple Exciton Generation in Nanocrystal Quantum Dots. Journal of Physics: Conference Series, 2016, 696, 012012.	0.3	3
146	Nonresonant two-level transitions: Insights from quantum thermodynamics. Physical Review A, 2022, 105, .	1.0	3
147	Hot electrons in superlattices: quantum transport versus Boltzmann equation. Physica B: Condensed Matter, 1999, 272, 157-159.	1.3	2
148	Transmission through superlattices with interface roughness. Superlattices and Microstructures, 1999, 25, 43-46.	1.4	2
149	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
150	Many-body theory for multiple intersubband absorption in heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 618-619.	1.3	2
151	Microscopic theory for intersubband spontaneous emission. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 356-359.	0.8	2
152	Thermopower as a tool to investigate many-body effects in quantum systems. Applied Physics Letters, 2014, 105, 083105.	1.5	2
153	Temperature dependent nonlinear response of quantum cascade structures. Optical and Quantum Electronics, 2014, 46, 533-539.	1.5	2
154	One-dimensional massless Dirac bands in semiconductor superlattices. Physical Review B, 2014, 89, .	1.1	2
155	Thermopower signatures and spectroscopy of the canyon of conductance suppression. Physical Review B, 2016, 94, .	1.1	2
156	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
157	Oscillatory Instabilities and Field Domain Formation in Imperfect Superlattices. , 1996, , 177-181.		2
158	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
159	Scattering and Bloch oscillation in semiconductor superlattices. Physica B: Condensed Matter, 1999, 272, 175-179.	1.3	1
160	Interminiband spectroscopy of biased superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 274-278.	1.3	1
161	<title>Synchronization of dipole domains in GHz-driven superlattices</title>. , 2002, , .		1
162	Terahertz Quantum Cascade Lasers Based on Phonon Scattering Assisted Injection and Extraction. , 2012, , .		1

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163	Super-Poissonian Current Fluctuations in Tunneling Through Coupled Quantum Dots. , 2006, , 23-27.		1
164	Optics with Ballistic Electrons: Anti-Reflection Coatings for GaAs-AlGaAs Superlattices. Springer Proceedings in Physics, 2001, , 743-744.	0.1	1
165	Field domains in semiconductor superlattices: Dynamic scenarios of multistable switching. Springer Proceedings in Physics, 2001, , 801-802.	0.1	1
166	Strong impact of impurity bands on domain formation in superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 493-497.	1.3	0
167	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
168	Geometry Effects at Conductance Quantization in Quantum Wires. Physica Status Solidi (B): Basic Research, 1999, 216, R5-R6.	0.7	0
169	Decoherence and current fluctuations in tunneling through coupled quantum dots. AIP Conference Proceedings, 2005, , .	0.3	0
170	Microscopic Intersubband Optics: Nonequilibrium Many-Body Physics Meets Device Engineering. , 2006, , .		0
171	Probing the electronic and optical properties of quantum cascade lasers under operating conditions. , 2006, 6386, 81.		0
172	Theory of the ultrafast nonlinear optical properties of quantum cascade lasers: From gain spectra to electronic wave packets. , 2006, , .		0
173	Nonlinear carrier waves and gain oscillations in infrared and terahertz quantum cascade lasers. , 2007, , .		0
174	Theory of Nonlinear Transport for Ensembles ofÂQuantum Dots. Nanoscience and Technology, 2008, , 211-220.	1.5	0
175	The alpha factor of a quantum cascade laser. , 2008, , .		0
176	Coherence in optics and transport in terahertz quantum cascade lasers. , 2008, , .		0
177	Density-matrix theory of quantum cascade lasers: Localization effects. , 2009, , .		0
178	Absorption in disordered heterostructures: Contributions from intra- and inter-subband scattering and impact of localised states. , 2014, , .		0
179	THz Quantum Cascade Lasers Operating up to 210 K. , 2019, , .		0
180	Electron extraction from excited quantum dots with higher order coulomb scattering. Journal of Physics Communications, 2020, 4, 035011.	0.5	0

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181	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