

Fausto Rossi

List of Publications by Year in descending order

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243
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8,564
citations

71004

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all docs

252
docs citations

252
times ranked

4666
citing authors

#	ARTICLE	IF	CITATIONS
1	Signature of Generalized Gibbs Ensemble Deviation from Equilibrium: Negative Absorption Induced by a Local Quench. <i>Entropy</i> , 2021, 23, 220.	1.1	6
2	Confinement versus interface bound states in spin-orbit coupled nanowires. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	2
3	Majorana-like localized spin density without bound states in topologically trivial spin-orbit coupled nanowires. <i>Physical Review B</i> , 2020, 101, .	1.1	10
4	Simulation of Electronic Quantum Devices: Failure of Semiclassical Models. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1114.	1.3	2
5	Energy Dissipation and Decoherence in Solid-State Quantum Devices: Markovian versus non-Markovian Treatments. <i>Entropy</i> , 2020, 22, 489.	1.1	3
6	Coherent charge and spin oscillations induced by local quenches in nanowires with spin-orbit coupling. <i>Physical Review B</i> , 2019, 100, .	1.1	3
7	Monte Carlo Kinetic Modeling of the Combined Carrier-Phonon Nonequilibrium Dynamics in Semiconductor Heterostructure Devices. , 2018, , .		0
8	Microscopic Theory of Energy Dissipation and Decoherence in Solid-State Quantum Devices: Need for Nonlocal Scattering Models. <i>Entropy</i> , 2018, 20, 726.	1.1	3
9	Photoexcitation in two-dimensional topological insulators. <i>European Physical Journal: Special Topics</i> , 2018, 227, 1323-1344.	1.2	7
10	Magnetic field effects on a nanowire with inhomogeneous Rashba spin-orbit coupling: Spin properties at equilibrium. <i>Physical Review B</i> , 2018, 98, .	1.1	15
11	Wigner-function formalism applied to semiconductor quantum devices: Need for nonlocal scattering models. <i>Physical Review B</i> , 2017, 96, .	1.1	17
12	Symmetry-protected topological phases of one-dimensional interacting fermions with spin-charge separation. <i>Physical Review B</i> , 2017, 95, .	1.1	34
13	Phonon-induced dissipation and decoherence in solid-state quantum devices: Markovian versus non-Markovian treatments. <i>European Physical Journal B</i> , 2017, 90, 1.	0.6	3
14	Electron-phonon dissipation in quantum nanodevices. <i>Journal of Computational Electronics</i> , 2016, 15, 1170-1178.	1.3	1
15	Photoexcitation of electron wave packets in quantum spin Hall edge states: Effects of chiral anomaly from a localized electric pulse. <i>Physical Review B</i> , 2016, 94, .	1.1	28
16	Challenges towards the simulation of GaN-based LEDs beyond the semiclassical framework. <i>Proceedings of SPIE</i> , 2016, , .	0.8	6
17	Microscopic Modeling of Solid-State Quantum Devices. , 2016, , 2222-2239.		0
18	Electron-phonon coupling in metallic carbon nanotubes: Dispersionless electron propagation despite dissipation. <i>Physical Review B</i> , 2015, 92, .	1.1	13

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19	Dispersionless propagation of electron wavepackets in single-walled carbon nanotubes. Applied Physics Letters, 2015, 106, 243101.	1.5	10
20	Phonon-induced quantum diffusion in Carbon-based materials. Journal of Physics: Conference Series, 2015, 647, 012045.	0.3	0
21	Microscopic treatment of energy dissipation and decoherence via many-body Lindblad superoperators. Journal of Physics: Conference Series, 2015, 647, 012027.	0.3	1
22	Electronic phase coherence vs. dissipation in solid-state quantum devices: Two approximations are better than one. Europhysics Letters, 2015, 112, 67005.	0.7	9
23	Microscopic Modeling of Solid-State Quantum Devices. , 2015, , 1-21.		0
24	Derivation of nonlinear single-particle equations via many-body Lindblad superoperators: A density-matrix approach. Physical Review B, 2014, 90, .	1.1	38
25	Microscopic modeling of quantum devices at high carrier densities via Lindblad-type scattering superoperators. , 2014, , .		0
26	Scattering nonlocality in quantum charge transport: Application to semiconductor nanostructures. Physical Review B, 2014, 89, .	1.1	20
27	Quantum diffusion due to scattering non-locality in nanoscale semiconductors. Europhysics Letters, 2014, 105, 17010.	0.7	6
28	Phonon-induced quantum diffusion in semiconductors. , 2014, , .		0
29	Coupled carrier-phonon nonequilibrium dynamics in terahertz quantum cascade lasers: a Monte Carlo analysis. New Journal of Physics, 2013, 15, 075027.	1.2	13
30	Microscopic modeling of scattering quantum non-locality in semiconductor nanostructures. Applied Physics Letters, 2013, 103, 113105.	1.5	12
31	Interplay between energy dissipation and reservoir-induced thermalization in nonequilibrium quantum nanodevices. Physical Review B, 2013, 88, .	1.1	25
32	Wigner-function formalism applied to semiconductor quantum devices: Failure of the conventional boundary condition scheme. Physical Review B, 2013, 88, .	1.1	54
33	Non-equilibrium longitudinal and transverse optical phonons in terahertz quantum cascade lasers. Applied Physics Letters, 2012, 100, .	1.5	24
34	Microscopic theory of energy dissipation and decoherence in solid-state systems: A reformulation of the conventional Markov limit. Physica Status Solidi (B): Basic Research, 2012, 249, 2125-2136.	0.7	7
35	Monte Carlo Study of Temperature and Bias dependence of Spin Transport in GaAs. Journal of Physics: Conference Series, 2011, 303, 012095.	0.3	1
36	Semiconductor-Based Quantum Logic Gates. Nanoscience and Technology, 2011, , 311-332.	1.5	0

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37	Few-Electron/Exciton Quantum Devices. <i>Nanoscience and Technology</i> , 2011, , 275-309.	1.5	0
38	Simulation Strategies. <i>Nanoscience and Technology</i> , 2011, , 167-211.	1.5	1
39	Fundamentals of Semiconductor Materials and Devices. <i>Nanoscience and Technology</i> , 2011, , 1-51.	1.5	0
40	Quantum-Cascade Lasers. <i>Nanoscience and Technology</i> , 2011, , 249-272.	1.5	0
41	Modeling of Unipolar Semiconductor Nanodevices. <i>Nanoscience and Technology</i> , 2011, , 215-231.	1.5	0
42	Ultrashort Space- and Time-Scales: Need for a Quantum Description. <i>Nanoscience and Technology</i> , 2011, , 53-86.	1.5	1
43	Impact of nonequilibrium phonons on the electron dynamics in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	22
44	Non-equilibrium LO and TO phonon generation by electron transport in Terahertz quantum cascade lasers. , 2010, , .		0
45	Dissipation and decoherence in nanodevices: a generalized Fermi's golden rule. <i>Semiconductor Science and Technology</i> , 2009, 24, 065004.	1.0	4
46	Modeling of dark current in mid-infrared quantum-well infrared photodetectors. <i>Infrared Physics and Technology</i> , 2009, 52, 220-223.	1.3	3
47	Microscopic modeling of energy relaxation and decoherence in quantum optoelectronic devices at the nanoscale. <i>European Physical Journal B</i> , 2009, 72, 305-322.	0.6	33
48	Modeling of dark current in midinfrared quantum well infrared photodetectors. <i>Physical Review B</i> , 2009, 79, .	1.1	14
49	Miniband quantum transport in semiconductor nanodevices under broadband illumination. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012089.	0.3	0
50	Microscopic theory of energy dissipation and decoherence in open systems: A quantum Fermi's golden rule. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012135.	0.3	0
51	Microscopic Modeling of Energy Dissipation and Decoherence in Open Quantum Systems: Application to Semiconductor Nanodevices. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 1956-1964.	0.4	0
52	Quantum Fermi's golden rule for semiconductor nanodevices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 35-38.	0.8	2
53	Feasibility of sequential multiphoton absorption for terahertz radiation detection. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 273-276.	0.8	1
54	Quantum non-locality in systems with open boundaries: From the Wigner-function formalism to non-homogeneous Markovian master equations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 66-69.	0.8	1

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55	Nonequilibrium Langevin approach to quantum optics in semiconductor microcavities. <i>Physical Review B</i> , 2008, 77, .	1.1	27
56	Sequential multiphoton strategy for semiconductor-based terahertz detectors. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	5
57	Completely positive Markovian quantum dynamics in the weak-coupling limit. <i>Physical Review A</i> , 2008, 78, .	1.0	10
58	Dynamics-controlled truncation scheme for quantum optics and nonlinear dynamics in semiconductor microcavities. <i>Physical Review B</i> , 2008, 77, .	1.1	21
59	Improving the operation temperature of semiconductor-based terahertz photodetectors: A multiphoton design. <i>Applied Physics Letters</i> , 2008, 92, 091108.	1.5	5
60	Quantum Non-Locality in Systems with Open Boundaries: Limitations of the Wigner function formalism. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
61	Electron-photon Coupling in Opto-electronic Quantum Devices: from Electroluminescence to Lasing. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
62	Terahertz detection schemes based on sequential multi-photon absorption. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
63	Influence of the phonon-exciton interaction on exciton-exciton quantum correlation in semiconductor microcavities. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2436-2439.	0.8	0
64	Transport in quantum devices: modelling contacts in the Wigner formalism. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2419-2422.	0.8	3
65	Polariton entanglement in the self-stimulated regime. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2432-2435.	0.8	1
66	Quantum-transport simulations with the Wigner-function formalism: Failure of conventional boundary-condition schemes. <i>Europhysics Letters</i> , 2006, 74, 1060-1066.	0.7	27
67	Decoherence-free emergence of macroscopic local realism for entangled photons in a cavity. <i>Physical Review A</i> , 2006, 73, .	1.0	9
68	Terahertz detection schemes based on sequential multiphoton absorption. <i>Applied Physics Letters</i> , 2006, 88, 182111.	1.5	5
69	Near-field light emission from mesoscopic complex structures. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
70	Modelling of open quantum devices within the closed-system paradigm. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
71	Microscopic modeling of THz quantum cascade lasers and other optoelectronic quantum devices. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
72	Quantum transport theory for semiconductor nanostructures: A density-matrix formulation. <i>Physical Review B</i> , 2005, 72, .	1.1	59

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73	Microscopic theory of semiconductor-based optoelectronic devices. Reports on Progress in Physics, 2005, 68, 2533-2571.	8.1	64
74	Pure dephasing and phonon dynamics in GaAs- and GaN-based quantum dot structures: Interplay between material parameters and geometry. Physical Review B, 2005, 71, .	1.1	101
75	Microscopic modelling of semiconductor-based infrared photodetectors: a weighted Monte Carlo approach. Semiconductor Science and Technology, 2004, 19, S107-S109.	1.0	3
76	Gauge-invariant formulation of Fermi's golden rule: Application to high-field transport in semiconductors. Europhysics Letters, 2004, 65, 242-248.	0.7	5
77	Generalized Weyl-Wigner formalism for the simulation of open quantum devices: a density-matrix approach. Semiconductor Science and Technology, 2004, 19, S257-S259.	1.0	4
78	Ultrafast carrier and phonon dynamics in GaAs and GaN quantum dots. Semiconductor Science and Technology, 2004, 19, S31-S33.	1.0	4
79	Intracollisional field effect: a gauge-invariant formulation in semiconductors. Semiconductor Science and Technology, 2004, 19, S212-S214.	1.0	0
80	Optical read-out devices based on quantum dots with intrinsic bias. Semiconductor Science and Technology, 2004, 19, S483-S485.	1.0	0
81	Monte Carlo simulation of hot-carrier phenomena in open quantum devices: A kinetic approach. Applied Physics Letters, 2004, 84, 139-141.	1.5	8
82	Modeling of open quantum devices within the closed-system paradigm. Physical Review B, 2004, 70, .	1.1	4
83	Gauge-invariant formulation of high-field transport in semiconductors. Physical Review B, 2004, 69, .	1.1	13
84	Weighted simulation of steady-state transport within the standard Monte Carlo paradigm. Monte Carlo Methods and Applications, 2004, 10, .	0.3	1
85	Silicon-based microcavities: theory and experiment. Semiconductor Science and Technology, 2004, 19, S489-S491.	1.0	1
86	Theory of optoelectronic quantum devices. Physica Status Solidi A, 2004, 201, 405-411.	1.7	0
87	Intrinsic electric field effects on few-particle interactions in coupled GaN quantum dots. Physical Review B, 2004, 69, .	1.1	41
88	The Excitonic Quantum Computer. IEEE Nanotechnology Magazine, 2004, 3, 165-172.	1.1	10
89	Microscopic theory of quantum-cascade lasers. Semiconductor Science and Technology, 2004, 19, S323-S326.	1.0	14
90	Spin-based quantum gating with semiconductor quantum dots by bichromatic radiation method. Europhysics Letters, 2004, 66, 14-20.	0.7	20

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91	All Optical Spin-Based Quantum Information Processing. Journal of Superconductivity and Novel Magnetism, 2003, 16, 383-385.	0.5	6
92	Microscopic Modelling of Quantum Open Systems: A Generalized Wigner-Function Approach. Journal of Computational Electronics, 2003, 2, 141-145.	1.3	0
93	Gauge-Invariant Formulation of Fermi's Golden Rule and Its Application to High-Field Transport in Semiconductors. Journal of Computational Electronics, 2003, 2, 173-176.	1.3	0
94	Microscopic Modelling of Opto-Electronic Quantum Devices: A Predictive Simulation Tool. Journal of Computational Electronics, 2003, 2, 191-195.	1.3	5
95	Implementation of an all-optical spin-based quantum computer. Physica Status Solidi (B): Basic Research, 2003, 238, 411-418.	0.7	6
96	Microscopic modelling of semiconductor-based quantum devices: a predictive simulation strategy. Physica Status Solidi (B): Basic Research, 2003, 238, 462-469.	0.7	9
97	Holonomic quantum gates: A semiconductor-based implementation. Physical Review A, 2003, 67, .	1.0	43
98	Semiconductor-based geometrical quantum gates. Physical Review B, 2003, 67, .	1.1	114
99	On the problem of generalizing the semiconductor Bloch equation from a closed to an open system. Physical Review B, 2003, 67, .	1.1	34
100	Spin-based optical quantum computation via Pauli blocking in semiconductor quantum dots. Europhysics Letters, 2003, 62, 175-181.	0.7	103
101	Near-field light emission from nano- and micrometric complex structures. Applied Physics Letters, 2003, 83, 2480-2482.	1.5	6
102	Spin-based quantum-information processing with semiconductor quantum dots and cavity QED. Physical Review A, 2003, 67, .	1.0	47
103	Nonadiabatic geometrical quantum gates in semiconductor quantum dots. Physical Review A, 2003, 67, .	1.0	47
104	Polarization revival of a Bloch-oscillating wave packet in conjunction with resonant Zener tunneling. Physical Review B, 2002, 65, .	1.1	3
105	Exciton-exciton interaction engineering in coupled GaN quantum dots. Applied Physics Letters, 2002, 81, 4236-4238.	1.5	23
106	Electro-optical properties of semiconductor quantum dots: Application to quantum information processing. Physical Review B, 2002, 65, .	1.1	111
107	Intrinsic exciton-exciton coupling in GaN-based quantum dots: Application to solid-state quantum computing. Physical Review B, 2002, 65, .	1.1	91
108	Theory of ultrafast phenomena in photoexcited semiconductors. Reviews of Modern Physics, 2002, 74, 895-950.	16.4	495

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109	All-optical single-electron read-out devices based on GaN quantum dots. Applied Physics Letters, 2002, 81, 5213-5215.	1.5	27
110	Quantum Information/Computation Processing with Self-Assembled Macroatoms. Physica Status Solidi (B): Basic Research, 2002, 233, 377-384.	0.7	2
111	The Excitonic Quantum Computer. Physica Status Solidi (B): Basic Research, 2002, 234, 58-69.	0.7	4
112	Field-Induced Exciton-Exciton Coupling in Semiconductor Quantum Dots. Physica Status Solidi A, 2002, 190, 511-515.	1.7	0
113	Entanglement of Excitonic States and Quantum Information Processing in Semiconductors. Physica Status Solidi A, 2002, 190, 817-825.	1.7	0
114	Ultrafast quantum information processing in nanostructured semiconductors. Superlattices and Microstructures, 2002, 31, 107-116.	1.4	0
115	GaN quantum dot based quantum information/computation processing. Superlattices and Microstructures, 2002, 31, 117-125.	1.4	9
116	Gauge-invariant formulation of high-field transport in semiconductors. Physica B: Condensed Matter, 2002, 314, 91-94.	1.3	0
117	Quantum information processing using semiconductor nanostructures. Physica B: Condensed Matter, 2002, 314, 1-9.	1.3	2
118	Quantum measurement of excitonic states using stimulated Raman adiabatic passage. Physica B: Condensed Matter, 2002, 314, 20-24.	1.3	1
119	Tailoring excitonâ€“exciton Coulomb coupling in semiconductor macroatoms using an external electric field. Physica B: Condensed Matter, 2002, 314, 469-473.	1.3	0
120	Hot-carrier relaxation and thermalization in quantum-cascade lasers: phase coherence versus energy relaxation. Physica B: Condensed Matter, 2002, 314, 323-326.	1.3	2
121	Simulation of entangled electronic states in semiconductor quantum wires. Physica B: Condensed Matter, 2002, 314, 10-14.	1.3	14
122	All-optical quantum dot implementation for quantum computing. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 620-623.	1.3	5
123	Intrinsic dipoleâ€“dipole excitonic coupling in GaN quantum dots: application to quantum information processing. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 624-629.	1.3	7
124	Hot-carrier dynamics in semiconductor-based quantum-cascade lasers: a Monte Carlo study. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 715-718.	1.3	3
125	Terahertz semiconductor-heterostructure laser. Nature, 2002, 417, 156-159.	13.7	2,539
126	Design and simulation of terahertz quantum cascade lasers. Applied Physics Letters, 2001, 79, 3920-3922.	1.5	100

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127	Ab-initio study of Coulomb-correlated optical properties in conjugated polymers. <i>Synthetic Metals</i> , 2001, 119, 257-258.	2.1	6
128	Testing Bell's inequality with ballistic electrons in semiconductors. <i>Physical Review A</i> , 2001, 63, .	1.0	42
129	Nonlinear transport in superlattices: Bloch oscillations and Zener breakdown. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 11, 268-276.	1.3	1
130	Optical quantum gates with semiconductor nanostructures. <i>International Journal of Circuit Theory and Applications</i> , 2001, 29, 137-150.	1.3	1
131	Carrier thermalization versus phonon-assisted relaxation in quantum-cascade lasers: A Monte Carlo approach. <i>Applied Physics Letters</i> , 2001, 78, 2902-2904.	1.5	83
132	Nature of Charge Transport in Quantum-Cascade Lasers. <i>Physical Review Letters</i> , 2001, 87, 146603.	2.9	218
133	Storage qubits and their potential implementation through a semiconductor double quantum dot. <i>Physical Review B</i> , 2001, 64, .	1.1	54
134	Field-induced Coulomb coupling in semiconductor macroatoms: Application to single-electron quantum devices. <i>Applied Physics Letters</i> , 2001, 79, 1676-1678.	1.5	29
135	Field-Induced Delocalization and Zener Breakdown in Semiconductor Superlattices. <i>Physical Review Letters</i> , 2001, 86, 1307-1310.	2.9	59
136	Low-frequency photocurrent noise in semiconductors: Effect of nonlinear current-voltage characteristics. <i>Applied Physics Letters</i> , 2001, 78, 2518-2520.	1.5	7
137	Microscopic simulation of hot-carrier intersubband relaxation in quantum-cascade lasers. <i>Springer Proceedings in Physics</i> , 2001, , 615-616.	0.1	0
138	Polarization Grating in Semiconductor Films Induced by Exciton Polaritons. <i>Physica Status Solidi A</i> , 2000, 178, 581-585.	1.7	0
139	Theoretical analysis of the optical spectra of $\text{In}_x\text{Ga}_{1-x}\text{N}$ quantum dots in $\text{In}_y\text{Ga}_{1-y}\text{N}$ layers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 934-938.	1.3	2
140	Enhancement of Coulomb interactions in semiconductor nanostructures by dielectric confinement. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 482-485.	1.3	16
141	Local optical spectroscopy of semiconductor nanostructures in the linear regime. <i>Physical Review B</i> , 2000, 62, 8204-8211.	1.1	11
142	Photonic Bloch oscillations in laterally confined Bragg mirrors. <i>Physical Review B</i> , 2000, 61, 4413-4416.	1.1	46
143	Microscopic theory of hot-carrier relaxation in semiconductor-based quantum-cascade lasers. <i>Applied Physics Letters</i> , 2000, 76, 2265-2267.	1.5	42
144	Nanoscale compositional fluctuations in multiple InGaAs/GaAs quantum wires. <i>Journal of Applied Physics</i> , 2000, 87, 2261-2264.	1.1	9

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145	Optimization of semiconductor quantum devices by evolutionary search. <i>Optics Letters</i> , 2000, 25, 1025.	1.7	11
146	Quantum Information Processing with Semiconductor Macroatoms. <i>Physical Review Letters</i> , 2000, 85, 5647-5650.	2.9	454
147	Local Optical Spectroscopy in Quantum Confined Systems: A Theoretical Description. <i>Physical Review Letters</i> , 1999, 82, 847-850.	2.9	53
148	Subdecoherent information encoding in a quantum-dot array. <i>Physical Review B</i> , 1999, 59, 8170-8181.	1.1	43
149	Optical polarization grating in semiconductors induced by exciton polaritons. <i>Physical Review B</i> , 1999, 60, 15554-15557.	1.1	8
150	Few-particle effects in the optical spectra of semiconductor quantum dots. <i>Solid State Communications</i> , 1999, 111, 187-192.	0.9	33
151	Multiple quantum phases in artificial double-dot molecules. <i>Solid State Communications</i> , 1999, 112, 151-155.	0.9	43
152	Excitonic and biexcitonic effects in the coherent optical response of semiconductor quantum dots. <i>Physica B: Condensed Matter</i> , 1999, 272, 1-4.	1.3	6
153	Photon Bloch oscillations in laterally confined Bragg mirrors. <i>Physica B: Condensed Matter</i> , 1999, 272, 491-494.	1.3	3
154	Quantum information in semiconductor-based nanostructures. <i>Physica B: Condensed Matter</i> , 1999, 272, 57-60.	1.3	3
155	Excitonic polarization grating in semiconductors induced by short light pulses. <i>Physica B: Condensed Matter</i> , 1999, 272, 509-512.	1.3	0
156	Strong exciton binding in hybrid GaAs-based nanostructures. <i>Physica B: Condensed Matter</i> , 1999, 272, 518-521.	1.3	3
157	Optical spectra of nitride quantum dots: Quantum confinement and electron-hole coupling. <i>Applied Physics Letters</i> , 1999, 75, 3449-3451.	1.5	17
158	Ultrafast carrier dynamics in semiconductor nanostructures: interplay between coherence and relaxation. <i>Superlattices and Microstructures</i> , 1999, 26, 129-140.	1.4	1
159	Theory of excitonic confinement in semiconductor quantum wires. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 5969-5988.	0.7	16
160	Coulomb correlation effects in semiconductor quantum dots: The role of dimensionality. <i>Physical Review B</i> , 1999, 59, 10165-10175.	1.1	82
161	Microscopic theory of vertical-transport phenomena in semiconductor heterostructures: Interplay between two- and three-dimensional hot-carrier relaxation. <i>Physical Review B</i> , 1999, 60, 1953-1963.	1.1	22
162	Few-Particle Effects in Nonlinear Optical Spectra of Semiconductor Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 1999, 571, 241.	0.1	0

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163	Theory of Addition Spectra in Double Quantum Dots: Single-Particle Tunneling vs Coulomb Interactions. Materials Research Society Symposia Proceedings, 1999, 571, 179.	0.1	1
164	Semiconductor-based Quantum Information. , 1999, , 73-76.		0
165	Engineering the strain field for the control of quantum confinement: An analytical model for arbitrary shape nanostructures. Journal of Applied Physics, 1998, 84, 3437-3441.	1.1	5
166	Microscopic Theory of Quantum-Transport Phenomena in Mesoscopic Systems: A Monte Carlo Approach. Physical Review Letters, 1998, 80, 3348-3351.	2.9	54
167	Strong Exciton Binding in Quantum Structures through Remote Dielectric Confinement. Physical Review Letters, 1998, 80, 4995-4998.	2.9	33
168	Coherent phenomena in semiconductors. Semiconductor Science and Technology, 1998, 13, 147-168.	1.0	61
169	Addition energies in semiconductor quantum dots: Role of electron-electron interaction. Applied Physics Letters, 1998, 72, 957-959.	1.5	36
170	Quantum Information in Semiconductors: Noiseless Encoding in a Quantum-Dot Array. Physical Review Letters, 1998, 81, 4752-4755.	2.9	168
171	Exciton formation and relaxation in GaAs epilayers. Physical Review B, 1998, 58, R13403-R13406.	1.1	35
172	Coherent electric-field effects in semiconductors. , 1998, 3277, 20.		1
173	Bloch oscillations and Wannier-Stark localization in semiconductor superlattices. , 1998, , 283-320.		10
174	Band structure and optical anisotropy in V-shaped and T-shaped semiconductor quantum wires. Physical Review B, 1997, 55, 7110-7123.	1.1	36
175	Phonon-assisted exciton formation and relaxation in GaAs/Al _x Ga _{1-x} As quantum wells. Physical Review B, 1997, 55, R16049-R16052.	1.1	36
176	Microscopic theory of the intracollisional field effect in semiconductor superlattices. Physical Review B, 1997, 55, 13799-13807.	1.1	29
177	Shape-Independent Scaling of Excitonic Confinement in Realistic Quantum Wires. Physical Review Letters, 1997, 78, 3527-3530.	2.9	76
178	Quantum interference in nanometric devices: Ballistic transport across arrays of T-shaped quantum wires. Applied Physics Letters, 1997, 71, 1519-1521.	1.5	13
179	Phonon-Assisted Exciton Formation and Relaxation: Bulk and Two-Dimensional Systems. Physica Status Solidi (B): Basic Research, 1997, 204, 223-226.	0.7	5
180	Coulomb-Correlation Effects on the Non-Linear Optical Properties of Realistic Quantum Wires. Physica Status Solidi (B): Basic Research, 1997, 204, 241-246.	0.7	2

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181	Analysis of Quantum-Transport Phenomena in Mesoscopic Systems: A Monte Carlo Approach. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 339-342.	0.7	7
182	Excitonic Effects in Quantum Wires. <i>Physica Status Solidi A</i> , 1997, 164, 265-271.	1.7	12
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