Vidar Gudmundsson

List of Publications by Year
in descending order

185	3,070	201385	233125
papers	citations	27 h-index	45 g-index

185	185	185	1013
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of a Hartree, a Hartree-Fock, and an exact treatment of quantum-dot helium. Physical Review B, 1993, 47, 2244-2250.	1.1	323
2	Self-consistent model of magnetoplasmons in quantum dots with nearly parabolic confinement potentials. Physical Review B, 1991, 43, 12098-12101.	1.1	113
3	Screening properties of the two-dimensional electron gas in the quantum Hall regime. Physical Review B, 1988, 38, 4218-4230.	1.1	98
4	Theory of quantum dot helium. Physica B: Condensed Matter, 1993, 189, 6-15.	1.3	90
5	Bernstein modes in quantum wires and dots. Physical Review B, 1995, 51, 17744-17754.	1.1	78
6	Interpretation of experiments implying density of states between Landau levels of a two-dimensional electron gas by a statistical model for inhomogeneities. Physical Review B, 1987, 35, 8005-8014.	1.1	73
7	Statistical model for inhomogeneities in a two-dimensional electron gas implying a background density of states between Landau levels. Physical Review B, 1986, 34, 2999-3002.	1.1	62
8	Far-infrared spectroscopy of quantum wires and dots, breaking Kohnâ€™s theorem. Physica E: Low-Dimensional Systems and Nanostructures, 1997, 1, 204-210.	1.3	55
9	Detection of Compressible and Incompressible States in Quantum Dots and Antidots by Far-Infrared Spectroscopy. Physical Review Letters, 1996, 76, 2774-2777.	2.9	50
10	Coherent electronic transport in a multimode quantum channel with Gaussian-type scatterers. Physical Review B, 2004, 70, .	1.1	48
11	Transient regime in nonlinear transport through many-level quantum dots. Physical Review B, 2007, 76, .	1.1	44
12	Geometrical effects and signal delay in time-dependent transport at the nanoscale. New Journal of Physics, 2009, 11, 073019.	1.2	43
13	Influence of the shape of quantum dots on their far-infrared absorption. Physical Review B, 1999, 60, 16591-16596.	1.1	41
14	Time-dependent transport via the generalized master equation through a finite quantum wire with an embedded subsystem. New Journal of Physics, 2009, 11, 113007.	1.2	41
15	Effects of geometry and linearly polarized cavity photons on charge and spin currents in a quantum ring with spin-orbit interactions. European Physical Journal B, 2014, 87, 1.	0.6	41
16	Effects of screening on the Hofstadter butterfly. Physical Review B, 1995, 52, 16744-16752.	1.1	39
17	Coulomb interaction and transient charging of excited states in open nanosystems. Physical Review B, 2010, 81, .	1.1	39
18	Manifestation of the Hofstadter butterfly in far-infrared absorption. Physical Review B, 1996, 54, R5223-R5226.	1.1	38

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19	Time-dependent transport of electrons through a photon cavity. Physical Review B, 2012, 85, .	1.1	37
20	Low temperature scanning tunneling spectroscopy on InAs(110). Journal of Electron Spectroscopy and Related Phenomena, 2000, 109, 127-145.	0.8	36
21	Electronic charge and spin density distribution in a quantum ring with spin-orbit and Coulomb interactions. Physical Review B, 2011, 84, .	1.1	33
22	Origin of Landau oscillations observed in scanning tunneling spectroscopy onn-InAs(110). Physical Review B, 2000, 62, 7257-7263.	1.1	31
23	Far-infrared response of quantum dots: From few electron excitations to magnetoplasmons. Solid-State Electronics, 1994, 37, 1221-1226.	0.8	30
24	Nonadiabatic current generation in a finite width semiconductor ring. Physical Review B, 2003, 67, .	1.1	30
25	Stepwise introduction of model complexity in a generalized master equation approach to timeâ€dependent transport. Fortschritte Der Physik, 2013, 61, 305-316.	1.5	29
26	Properties of BC<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e615" altimg="si37.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub></mml:math>N monolayer derived by first-principle computation: Influences of interactions between dopant atoms on thermoelectric and optical properties. Materials Science in Semiconductor Processing, 2021, 135, 106073.	1.9	29
27	Transport through a quantum ring, dot, and barrier embedded in a nanowire in magnetic field. Physical Review B, 2005, 71, .	1.1	28
28	Nonadiabatic transport in a quantum dot turnstile. Physical Review B, 2007, 76, .	1.1	28
29	Modeling electronic, mechanical, optical and thermal properties of graphene-like BC6N materials: Role of prominent BN-bonds. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126807.	0.9	28
30	Effects of bonded and non-bonded B/N codoping of graphene on its stability, interaction energy, electronic structure, and power factor. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126350.	0.9	28
31	Electronic, thermal, and optical properties of graphene like SiC structures: Significant effects of Si atom configurations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126578.	0.9	27
32	Far-infrared absorption of acoustic and optical magnetoplasmons in double-layered quantum wires. Physical Review B, 1997, 56, 6742-6747.	1.1	26
33	Far-infrared excitations below the Kohn mode: Internal motion in a quantum dot. Physical Review B, 2001, 63, .	1.1	26
34	Electron localization and optical absorption of polygonal quantum rings. Physical Review B, 2015, 91, .	1.1	26
35	Majorana states in prismatic core-shell nanowires. Physical Review B, 2017, 96, .	1.1	25
36	Magnetic field effects in a confined two-dimensional electron gas: A comparison between continuum and lattice model. European Physical Journal B, 1988, 70, 453-460.	0.6	23

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37	Magnetization of noncircular quantum dots. Physical Review B, 2000, 61, 10229-10234.	1.1	23
38	Silicon on a graphene nanosheet with triangle- and dot-shape: Electronic structure, specific heat, and thermal conductivity from first-principle calculations. Results in Physics, 2019, 15, 102625.	2.0	23
39	Spin-polarised DFT modeling of electronic, magnetic, thermal and optical properties of silicene doped with transition metals. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 129, 114644.	1.3	22
40	The plateau widths of the quantized Hall conductance. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 102, 130-132.	0.9	21
41	Oscillating impurity spectra caused by non-linear screening in the quantum hall regime. Solid State Communications, 1990, 74, 63-67.	0.9	21
42	Orbital magnetization of single and double quantum dots in a tight-binding model. Physical Review B, 2003, 67, .	1.1	21
43	Time-dependent magnetotransport in an interacting double quantum wire with window coupling. Physical Review B, 2010, 82, .	1.1	21
44	Quantum magneto-electrodynamics of electrons embedded in a photon cavity. New Journal of Physics, 2012, 14, 013036.	1.2	21
45	Cavity-Photon Controlled Thermoelectric Transport through a Quantum Wire. ACS Photonics, 2016, 3, 249-254.	3.2	21
46	Nonlocality of the exchange interaction probed by scanning tunneling spectroscopy. Physical Review B, 2001, 63, .	1.1	20
47	A microscopic theory of the quantized Hall effects. Physica A: Statistical Mechanics and Its Applications, 1985, 132, 164-178.	1.2	19
48	Magnetic field dependence of gate voltage and current in a GaAs-heterostructure in the quantum hall regime. Solid State Communications, 1987, 62, 89-91.	0.9	19
49	Dielectric response of a two-dimensional electron gas in a quantizing magnetic field. Solid State Communications, 1988, 67, 845-849.	0.9	19
50	Magnetic-field-influenced nonequilibrium transport through a quantum ring with correlated electrons in a photon cavity. Physical Review B, 2013, 87, .	1.1	19
51	Delocalization of electrons by cavity photons in transport through a quantum dot molecule. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 64, 254-262.	1.3	19
52	Efficient determination of the Markovian time-evolution towards a steady-state of a complex open quantum system. Computer Physics Communications, 2017, 220, 81-90.	3.0	19
53	Current correlations for the transport of interacting electrons through parallel quantum dots in a photon cavity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1672-1678.	0.9	19
54	Hofstadter-type energy spectra in lateral superlattices defined by periodic magnetic and electrostatic fields. Physical Review B, 1996, 53, 9591-9594.	1.1	18

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55	Electron-spin resonance in a quantum dot. Physical Review B, 1998, 57, R12685-R12688.	1.1	18
56	Net current generation in a 1D quantum ring at zero magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 27, 278-283.	1.3	17
57	Snaking states on a cylindrical surface in a perpendicular magnetic field. European Physical Journal B, 2013, 86, 1.	0.6	17
58	Coupled Collective and Rabi Oscillations Triggered by Electron Transport through a Photon Cavity. ACS Photonics, 2015, 2, 930-934.	3.2	17
59	Multi-domain electromagnetic absorption of triangular quantum rings. Nanotechnology, 2016, 27, 225202.	1.3	17
60	Electron transport through a quantum dot assisted by cavity photons. Journal of Physics Condensed Matter, 2013, 25, 465302.	0.7	16
61	Cavityâ€photon contribution to the effective interaction of electrons in parallel quantum dots. Annalen Der Physik, 2016, 528, 394-403.	0.9	16
62	Nonadiabatic generation of a pure spin current in a one-dimensional quantum ring with spin-orbit interaction. Physical Review B, 2011, 83, .	1.1	15
63	Spin and impurity effects on flux-periodic oscillations in core-shell nanowires. Physical Review B, 2014, 90, .	1.1	15
64	Nonperturbative approach to circuit quantum electrodynamics. Physical Review E, 2012, 86, 046701.	0.8	14
65	Thermoelectric current and Coulomb-blockade plateaus in a quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 53, 178-185.	1.3	14
66	Signature of Snaking States in the Conductance of Coreâ€“Shell Nanowires. Nano Letters, 2015, 15, 254-258.	4.5	14
67	Excitons in Coreâ€“Shell Nanowires with Polygonal Cross Sections. Nano Letters, 2018, 18, 2581-2589.	4.5	13
68	Role of interlayer spacing on electronic, thermal and optical properties of BN-codoped bilayer graphene: Influence of the interlayer and the induced dipole-dipole interactions. Journal of Physics and Chemistry of Solids, 2021, 155, 110095.	1.9	13
69	Far-infrared absorption of a confined two-dimensional electron gas with an imbedded Coulomb impurity. Physical Review B, 1994, 50, 17433-17439.	1.1	12
70	Magnetoplasmon mode in connected quantum-wire pairs. Physical Review B, 1997, 55, R1950-R1953.	1.1	12
71	Persistent oscillatory currents in a 1D ring with Rashba and Dresselhaus spinâ€“orbit interactions excited by a terahertz pulse. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 46, 12-20.	1.3	12
72	Conductance oscillations of core-shell nanowires in transversal magnetic fields. Physical Review B, 2016, 93, .	1.1	12

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73	Regimes of radiative and nonradiative transitions in transport through an electronic system in a photon cavity reaching a steady state. Annalen Der Physik, 2017, 529, 1600177.	0.9	12
74	Interlayer interaction controlling the properties of AB- and AA-stacked bilayer graphene-like BC14n and si2c14. Surfaces and Interfaces, 2020, 21, 100740.	1.5	12
75	Electronic and optical properties of metallic nitride: A comparative study between the MN (M = Al, Ga,) Tj ETQq1 1 0.784314 rgBT /Over	0.9	12
76	Retarded transverse current-current response functions of a two-dimensional electron gas. Physica A: Statistical Mechanics and Its Applications, 1984, 127, 529-548.	1.2	11
77	Magnetization in short-period mesoscopic electron systems. Physical Review B, 2000, 61, 4835-4843.	1.1	11
78	Fano regime of one-dot Aharonov-Bohm interferometers. Physical Review B, 2005, 72, .	1.1	11
79	Coherent switching by detuning a side-coupled quantum-dot system. Physical Review B, 2008, 78, .	1.1	11
80	Optical switching of electron transport in a waveguide-QED system. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 84, 280-284.	1.3	11
81	Spin-dependent heat and thermoelectric currents in a Rashba ring coupled to a photon cavity. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 95, 102-107.	1.3	11
82	Electroluminescence Caused by the Transport of Interacting Electrons through Parallel Quantum Dots in a Photon Cavity. Annalen Der Physik, 2018, 530, 1700334.	0.9	11
83	Manifestation of the Purcell Effect in Current Transport through a Dotâ€“Cavityâ€“QED System. Nanomaterials, 2019, 9, 1023.	1.9	11
84	Coexisting spin and Rabi oscillations at intermediate time regimes in electron transport through a photon cavity. Beilstein Journal of Nanotechnology, 2019, 10, 606-616.	1.5	11
85	Hartree-Fock dynamics in highly excited quantum dots. Physical Review B, 2001, 64, .	1.1	10
86	Bound state with negative binding energy induced by coherent transport in a two-dimensional quantum wire. Physical Review B, 2005, 72, .	1.1	10
87	Transient magnetotransport through a quantum wire. Physical Review B, 2008, 77, .	1.1	10
88	Dynamic correlations induced by Coulomb interactions in coupled quantum dots. Physical Review B, 2010, 82, .	1.1	10
89	Nonlinear SchrÃ¶dingerâ€“Poisson theory for quantum-dot Helium. Physica D: Nonlinear Phenomena, 2012, 241, 902-907.	1.3	10
90	Coherent transient transport of interacting electrons through a quantum waveguide switch. Journal of Physics Condensed Matter, 2015, 27, 015301.	0.7	10

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91	Time-dependent current into and through multilevel parallel quantum dots in a photon cavity. Physical Review B, 2017, 95, .	1.1	10
92	Photon-induced tunability of the thermospin current in a Rashba ring. Journal of Physics Condensed Matter, 2018, 30, 145303.	0.7	10
93	Effects of photon field on heat transport through a quantum wire attached to leads. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 199-204.	0.9	10
94	Conductance features of core-shell nanowires determined by their internal geometry. Physical Review B, 2018, 98, .	1.1	10
95	Study of BC14N-bilayer graphene: Effects of atomic spacing and interatomic interaction between B and N atoms. Superlattices and Microstructures, 2021, 156, 106981.	1.4	10
96	High thermoelectric and optical conductivity driven by the interaction of Boron and Nitrogen dopant atoms with a 2D monolayer Beryllium Oxide. Materials Science in Semiconductor Processing, 2022, 141, 106409.	1.9	10
97	DFT study of tunable electronic, magnetic, thermal, and optical properties of a Ga2Si6 monolayer. Solid State Sciences, 2022, 125, 106835.	1.5	10
98	Collective excitations in realistic quantum wires. Journal of Physics Condensed Matter, 1996, 8, L325-L330.	0.7	9
99	Tuning of coupling modes in laterally parallel double open quantum dots. Physical Review B, 2005, 72, .	1.1	9
100	Magnetotransport in a double quantum wire: Modeling using a scattering formalism built on the Lippmann-Schwinger equation. Physical Review B, 2006, 74, .	1.1	9
101	Time-dependent magnetotransport of a wave packet in a quantum wire with embedded quantum dots. Physical Review B, 2007, 76, .	1.1	9
102	Excitation spectra of a quantum ring embedded in a photon cavity. Journal of Optics (United Kingdom), 2015, 17, 015201.	1.0	9
103	In-gap corner states in core-shell polygonal quantum rings. Scientific Reports, 2017, 7, 40197.	1.6	9
104	Generalized Master Equation Approach to
Time-Dependent Many-Body Transport. Entropy, 2019, 21, 731.	1.1	9
105	The photocurrent generated by photon replica states of an off-resonantly coupled dot-cavity system. Scientific Reports, 2019, 9, 14703.	1.6	9
106	Controlling physical properties of bilayer graphene by stacking orientation caused by interaction between B and N dopant atoms. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 276, 115554.	1.7	9
107	Memorization of short-range potential fluctuations in Landau levels. Physical Review B, 1999, 59, 5426-5430.	1.1	8
108	Theoretical investigation of modulated currents in open nanostructures. Physical Review B, 2009, 80, .	1.1	8

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109	Correlated time-dependent transport through a two-dimensional quantum structure. Physical Review B, 2010, 81, .	1.1	8
110	Nonlinear interference in a mean-field quantum model. European Physical Journal B, 2011, 84, 699-705.	0.6	8
111	Spin magneto-transport in a Rashbaâ€“Dresselhaus quantum channel with single and double finger gates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1529-1533.	0.9	8
112	Spin effects in a confined two-dimensional electron gas: Enhancement of thegfactor, spin-inversion states, and their far-infrared absorption. Physical Review B, 1995, 52, 11266-11272.	1.1	7
113	Far-infrared absorption of interaction-induced ground states of two weakly coupled quantum wires. Physical Review B, 1998, 58, 13944-13950.	1.1	7
114	Far-infrared-active collective modes of short-period arrays of quantum dots and antidots. Physical Review B, 1998, 57, 3989-3993.	1.1	7
115	Reduction of ballistic spin scattering in a spin-FET using stray electric fields. Journal of Physics: Conference Series, 2012, 338, 012012.	0.3	7
116	Cavity-photon-switched coherent transient transport in a double quantum waveguide. Journal of Applied Physics, 2014, 116, 233104.	1.1	7
117	Impact of a circularly polarized cavity photon field on the charge and spin flow through an Aharonovâ€“Casher ring. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 60, 170-182.	1.3	7
118	Competition of static magnetic and dynamic photon forces in electronic transport through a quantum dot. Journal of Physics Condensed Matter, 2016, 28, 375301.	0.7	7
119	Single-photon controlled thermospin transport in a resonant ring-cavity system. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 104, 223-228.	1.3	7
120	Thermoelectric Inversion in a Resonant Quantum Dot-Cavity System in the Steady-State Regime. Nanomaterials, 2019, 9, 741.	1.9	7
121	Screening of an impurity in a two-dimensional electron gas within the Hartree and the Hartree-Fock approximation in the quantum Hall regime. Physical Review B, 1994, 49, 13712-13720.	1.1	6
122	Excitation of radial collective modes in a quantum dot: Beyond linear response. Annalen Der Physik, 2014, 526, 235-248.	0.9	6
123	Transport signatures of top-gate bound states with strong Rashbaâ€“Zeeman effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3960-3963.	0.9	6
124	Cavityâ€Photonâ€Induced Highâ€Order Transitions between Ground States of Quantum Dots. Annalen Der Physik, 2019, 531, 1900306.	0.9	6
125	The interplay of electronâ€“photon and cavity-environment coupling on the electron transport through a quantum dot system. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 113996.	1.3	6
126	Modulation of electronic and thermal proprieties of TaMoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e372" altimg="si53.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> by controlling the repulsive interaction between Ta dopant atoms. Solid State Communications, 2022, 342, 114590.	0.9	6

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127	Far-infrared spectroscopy of tailored quantum wires, quantum dots and antidot arrays. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 37-44.	1.3	5
128	Coherent magnetotransport spectroscopy in an edge-blocked double quantum wire with window and resonator coupling. Physical Review B, 2006, 74, .	1.1	5
129	Properties of BSi6N monolayers derived by first-principle computation. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 127, 114556.	1.3	5
130	Bound state energy of finger gate and top gate with consideration of Rashba-Dresselhaus-Zeeman effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 407, 127447.	0.9	5
131	Study of the buckling effects on the electrical and optical properties of the group III-Nitride monolayers. Materials Science in Semiconductor Processing, 2022, 150, 106943.	1.9	5
132	The Hofstadter energy spectrum for an interacting 2DEG. Surface Science, 1996, 361-362, 505-508.	0.8	4
133	The evolution of Bernstein modes in quantum wires with increasing deviation from parabolic confinement. Journal of Physics Condensed Matter, 1996, 8, 4797-4804.	0.7	4
134	Spin-density and charge-density excitations in quantum wires. Physical Review B, 1997, 55, 13161-13172.	1.1	4
135	Coherent magnetotransport and time-dependent transport through split-gated quantum constrictions. Physical Review B, 2009, 80, .	1.1	4
136	Oscillations in electron transport caused by multiple resonances in a quantum dot-QED system in the steady-state regime. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 123, 114221.	1.3	4
137	Self-induction and magnetic effects in electron transport through a photon cavity. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 127, 114544.	1.3	4
138	AC-gate controlled transport sideband spectroscopy in GaAs quantum channels. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 419, 127755.	0.9	4
139	Enhanced electronic and optical responses of nitrogen- or boron-doped BeO monolayer: First principle computation. Superlattices and Microstructures, 2022, 162, 107102.	1.4	4
140	The generalized dielectric function of the Tao-Thouless superlattice model for the anomalous quantized Hall effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 106, 275-277.	0.9	3
141	Interpretation of activated resistivity in the quantum Hall regime by a statistical model of inhomogeneities. Physical Review B, 1988, 37, 10361-10363.	1.1	3
142	Collective modes and the far-infrared absorption of the two-dimensional electron gas in a periodic quantizing magnetic field. Superlattices and Microstructures, 1998, 23, 1169-1180.	1.4	3
143	Hysteresis effect due to the exchange Coulomb interaction in short-period superlattices in tilted magnetic fields. Physical Review B, 2000, 61, R7858-R7860.	1.1	3
144	Multi-mode transport through a quantum nanowire with two embedded dots. European Physical Journal B, 2005, 45, 339-345.	0.6	3

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145	Turnstile pumping through an open quantum wire. New Journal of Physics, 2011, 13, 013014.	1.2	3
146	Excitation of collective modes in a quantum flute. Physical Review B, 2012, 85, .	1.1	3
147	Thermal transport controlled by intra- and inter-dot Coulomb interactions in sequential and cotunneling serially-coupled double quantum dots. Physica B: Condensed Matter, 2022, 629, 413646.	1.3	3
148	Transverse plasmon in two-dimensional electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 100, 91-93.	0.9	2
149	The f-sum rule and Tao-Thouless theory for the anomalous quantized hall effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 108, 207-209.	0.9	2
150	Remarks on Laughlin's wavefunction for anomalous quantized Hall effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 113, 482-484.	0.9	2
151	Collective intersubband spin-density excitations in a quantum wire in a magnetic field. Journal of Physics Condensed Matter, 1998, 10, 4267-4279.	0.7	2
152	Characterization of Bernstein modes in quantum dots. European Physical Journal B, 2002, 28, 111-115.	0.6	2
153	Impurity and spin effects on the magneto-spectroscopy of a THz-modulated nanostructure. Physical Review B, 2003, 68, .	1.1	2
154	Non-Adiabatic Current Excitation in Quantum Rings. Physica Scripta, 2004, T114, 41-43.	1.2	2
155	Coherent nonlinear quantum model for composite fermions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1566-1570.	0.9	2
156	Double-finger-gate controlled spin-resolved resonant quantum transport in the presence of a Rashbaâ€“Zeeman gap. Journal of Physics Condensed Matter, 2015, 27, 085801.	0.7	2
157	Electromagnetic field emitted by coreâ€“shell semiconductor nanowires driven by an alternating current. Journal of Applied Physics, 2021, 130, 034301.	1.1	2
158	Photon and magnetic field controlled electron transport of a multiply-resonant photon-cavity double quantum dot system. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 144, 115405.	1.3	2
159	Bollweg, Kurth, Heitmann, and Gudmundsson Reply:. Physical Review Letters, 1996, 77, 2594-2594.	2.9	1
160	The effects of compressible and incompressible states on the FIR-absorption of quantum wires and dots in a magnetic field. Physica Scripta, 1997, T69, 150-154.	1.2	1
161	Far-IR absorption of short-period quantum wires and the transition from one to two dimensions. Physical Review B, 1998, 57, 1668-1673.	1.1	1
162	Influence of potential fluctuations on Landau quantization and spin splitting studied by low temperature scanning tunneling spectroscopy on InAs(110). Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 2032.	1.6	1

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163	From single dots to interacting arrays. , 2002, , 213-235.		1
164	Magnetotransport in a time-modulated double quantum point contact system. Computer Physics Communications, 2011, 182, 65-67.	3.0	1
165	Nonadiabatic generation of spin currents in a quantum ring with Rashba and Dresselhaus spin-orbit interactions. Journal of Physics: Conference Series, 2012, 338, 012013.	0.3	1
166	Generalized Master equation approach to mesoscopic time-dependent transport. Journal of Physics: Conference Series, 2012, 338, 012017.	0.3	1
167	Coulomb Interaction Effects on the Spin Polarization and Currents in Quantum Wires with Spin Orbit Interaction. The Nanoscale Systems: Mathematical Modelingory and Applications, 2012, 1, 23-37.	0.3	1
168	Symmetric excitation and de-excitation of a cavity QED system. European Physical Journal B, 2013, 86, 1.	0.6	1
169	Symmetry dependent electron localization and optical absorption of polygonal quantum rings. , 2015, , .		1
170	Electronic states in core-shell quantum rings. , 2016, , .		1
171	Screening of Impurities in the Quantum Hall Regime. NATO ASI Series Series B: Physics, 1989, , 517-533.	0.2	1
172	Controlling thermoelectric, heat, and energy currents through a quantum dot in sequential and cotunneling Coulomb-blockade regimes. Physica B: Condensed Matter, 2022, 628, 413607.	1.3	1
173	Unified approach to cyclotron and plasmon resonances in a periodic two-dimensional GaAs electron gas hosting the Hofstadter butterfly. Physical Review B, 2022, 105, .	1.1	1
174	Quantum transport in p-type narrow channel with DC-biased double finger gate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 439, 128140.	0.9	1
175	Effects of coupling strength of the electronâ€“photon and the photonâ€“environment interactions on the electron transport through multiple-resonances of a double quantum dot system in a photon cavity. Physica B: Condensed Matter, 2022, 641, 414097.	1.3	1
176	The far-infrared absorption of a periodic 2DEG in the transition regime between weak and strong modulation. Physica E: Low-Dimensional Systems and Nanostructures, 1997, 1, 235-237.	1.3	0
177	Finite-size effects in the magnetization of periodic mesoscopic systems. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 763-766.	1.3	0
178	Excitations Below the Kohn Mode; FIR-Absorption in Quantum Dots. Physica Scripta, 2002, T101, 136.	1.2	0
179	Inter-dot interaction in an array of elliptical quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 892-895.	1.3	0
180	Time-dependent magnetotransport in semiconductor nanostructures via the generalized master equation. Computer Physics Communications, 2011, 182, 46-48.	3.0	0

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181	Controlled Coulomb effects in core-shell quantum rings. , 2017, , .		0
182	Magneto-optical quantum interferences in a system of spinor excitons. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 98, 125-134.	1.3	0
183	Radiated fields by polygonal core-shell nanowires. , 2018, , .		0
184	Backaction effects in cavity-coupled quantum conductors. Physical Review B, 2019, 100, .	1.1	0
185	Topological Phases Beyond the Hofstadter Butterfly. Physics Magazine, 2020, 13, .	0.1	0