

Antti-Pekka Jauho

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224
papers

10,337
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53
h-index

96
g-index

240
ext. papers

11,345
ext. citations

4.4
avg, IF

6.36
L-index

#	Paper	IF	Citations
224	Time-dependent transport in interacting and noninteracting resonant-tunneling systems. <i>Physical Review B</i> , 1994 , 50, 5528-5544	3.3	1531
223	Graphene antidot lattices: designed defects and spin qubits. <i>Physical Review Letters</i> , 2008 , 100, 136804	7.4	409
222	Inelastic transport theory from first principles: Methodology and application to nanoscale devices. <i>Physical Review B</i> , 2007 , 75,	3.3	330
221	Time-dependent transport through a mesoscopic structure. <i>Physical Review B</i> , 1993 , 48, 8487-8490	3.3	283
220	Coulomb drag between parallel two-dimensional electron systems. <i>Physical Review B</i> , 1993 , 47, 4420-4428	3.3	208
219	Modified field enhancement and extinction by plasmonic nanowire dimers due to nonlocal response. <i>Optics Express</i> , 2012 , 20, 4176-88	3.3	196
218	Acoustic phonon limited mobility in two-dimensional semiconductors: Deformation potential and piezoelectric scattering in monolayer MoS2 from first principles. <i>Physical Review B</i> , 2013 , 87,	3.3	195
217	Inelastic scattering and local heating in atomic gold wires. <i>Physical Review Letters</i> , 2004 , 93, 256601	7.4	194
216	Unusual resonances in nanoplasmonic structures due to nonlocal response. <i>Physical Review B</i> , 2011 , 84,	3.3	180
215	Dynamical Franz-Keldysh effect. <i>Physical Review Letters</i> , 1996 , 76, 4576-4579	7.4	169
214	Counting statistics of non-Markovian quantum stochastic processes. <i>Physical Review Letters</i> , 2008 , 100, 150601	7.4	166
213	Excitonic Dynamical Franz-Keldysh Effect. <i>Physical Review Letters</i> , 1998 , 81, 457-460	7.4	156
212	Electron and phonon transport in silicon nanowires: Atomistic approach to thermoelectric properties. <i>Physical Review B</i> , 2009 , 79,	3.3	154
211	Blueshift of the surface plasmon resonance in silver nanoparticles studied with EELS. <i>Nanophotonics</i> , 2013 , 2, 131-138	6.3	149
210	Surface-decorated silicon nanowires: a route to high-ZT thermoelectrics. <i>Physical Review Letters</i> , 2009 , 103, 055502	7.4	132
209	. <i>IEEE Photonics Technology Letters</i> , 1991 , 3, 606-609	2.2	130
208	Theory of high-electric-field quantum transport for electron-resonant impurity systems. <i>Physical Review B</i> , 1984 , 29, 1919-1938	3.3	125

207	Nonlocal response of metallic nanospheres probed by light, electrons, and atoms. <i>ACS Nano</i> , 2014 , 8, 1745-58	16.7	120
206	Electronic properties of graphene antidot lattices. <i>New Journal of Physics</i> , 2009 , 11, 095020	2.9	118
205	Full counting statistics of nano-electromechanical systems. <i>Europhysics Letters</i> , 2005 , 69, 475-481	1.6	118
204	Optical bistability of graphene in the terahertz range. <i>Physical Review B</i> , 2014 , 90,	3.3	112
203	Thermoelectric properties of finite graphene antidot lattices. <i>Physical Review B</i> , 2011 , 84,	3.3	112
202	Counting statistics of transport through Coulomb blockade nanostructures: High-order cumulants and non-Markovian effects. <i>Physical Review B</i> , 2010 , 82,	3.3	108
201	Quantum shuttle in phase space. <i>Physical Review Letters</i> , 2003 , 90, 256801	7.4	103
200	Scaling theory put into practice: first-principles modeling of transport in doped silicon nanowires. <i>Physical Review Letters</i> , 2007 , 99, 076803	7.4	100
199	Optical properties of graphene antidot lattices. <i>Physical Review B</i> , 2008 , 77,	3.3	98
198	Shot noise of a quantum shuttle. <i>Physical Review Letters</i> , 2004 , 92, 248302	7.4	98
197	Current noise in a vibrating quantum dot array. <i>Physical Review B</i> , 2004 , 70,	3.3	97
196	Quantum Transport: The Link between Standard Approaches in Superlattices. <i>Physical Review Letters</i> , 1998 , 80, 369-372	7.4	97
195	Bloch oscillations, Zener tunneling, and Wannier-Stark ladders in the time domain. <i>Physical Review Letters</i> , 1995 , 74, 1831-1834	7.4	96
194	Electronic transport through Si nanowires: Role of bulk and surface disorder. <i>Physical Review B</i> , 2006 , 74,	3.3	89
193	Linear-response theory of Coulomb drag in coupled electron systems. <i>Physical Review B</i> , 1995 , 52, 14761-14774	3.3	89
192	Clar sextet analysis of triangular, rectangular, and honeycomb graphene antidot lattices. <i>ACS Nano</i> , 2011 , 5, 523-9	16.7	88
191	Graphene Nanobubbles as Valley Filters and Beam Splitters. <i>Physical Review Letters</i> , 2016 , 117, 276801	7.4	86
190	Quantum dot as a spin-current diode: A master-equation approach. <i>Physical Review B</i> , 2007 , 75,	3.3	83

189	Heat conductance is strongly anisotropic for pristine silicon nanowires. <i>Nano Letters</i> , 2008 , 8, 3771-5	11.5	82
188	Non-markovian model of photon-assisted dephasing by electron-phonon interactions in a coupled quantum-dot-cavity system. <i>Physical Review Letters</i> , 2010 , 104, 157401	7.4	81
187	Quantum kinetic equation for electronic transport in nondegenerate semiconductors. <i>Physical Review B</i> , 1987 , 36, 6602-6608	3.3	80
186	Thermal rectification in nonlinear quantum circuits. <i>Physical Review B</i> , 2009 , 79,	3.3	79
185	Localized plasmons in graphene-coated nanospheres. <i>Physical Review B</i> , 2015 , 91,	3.3	78
184	Quantum Corrections in Nanoplasmonics: Shape, Scale, and Material. <i>Physical Review Letters</i> , 2017 , 118, 157402	7.4	77
183	Mesoscopic photon heat transistor. <i>Physical Review Letters</i> , 2008 , 100, 155902	7.4	77
182	Dephasing times in quantum dots due to elastic LO phonon-carrier collisions. <i>Physical Review Letters</i> , 2000 , 85, 1516-9	7.4	73
181	Optical response and excitons in gapped graphene. <i>Physical Review B</i> , 2009 , 79,	3.3	65
180	Spin-polarized current and shot noise in the presence of spin flip in a quantum dot via nonequilibrium Green's functions. <i>Physical Review B</i> , 2008 , 78,	3.3	63
179	Refractive-Index Sensing with Ultrathin Plasmonic Nanotubes. <i>Plasmonics</i> , 2013 , 8, 193-199	2.4	59
178	Linear optical absorption spectra of mesoscopic structures in intense THz fields: Free-particle properties. <i>Physical Review B</i> , 1998 , 57, 8860-8872	3.3	58
177	Kerr nonlinearity and plasmonic bistability in graphene nanoribbons. <i>Physical Review B</i> , 2015 , 92,	3.3	57
176	Classical and quantum plasmonics in graphene nanodisks: Role of edge states. <i>Physical Review B</i> , 2014 , 90,	3.3	57
175	Inelastic Quantum Transport in Superlattices: Success and Failure of the Boltzmann Equation. <i>Physical Review Letters</i> , 1999 , 83, 836-839	7.4	56
174	Angle dependence of Andreev scattering at semiconductor-superconductor interfaces. <i>Physical Review B</i> , 1999 , 59, 10176-10182	3.3	55
173	Nonlocal response in plasmonic waveguiding with extreme light confinement. <i>Nanophotonics</i> , 2013 , 2, 161-166	6.3	54
172	Magneto-Coulomb Drag: Interplay of Electron-Electron Interactions and Landau Quantization. <i>Physical Review Letters</i> , 1996 , 77, 1366-1369	7.4	54

171	Gauge-invariant formulation of the intracollisional field effect including collisional broadening. <i>Physical Review B</i> , 1991 , 44, 3655-3664	3-3	53
170	Dynamical polarizability of graphene irradiated by circularly polarized ac electric fields. <i>Physical Review B</i> , 2012 , 85,	3-3	52
169	Density functional study of graphene antidot lattices: Roles of geometrical relaxation and spin. <i>Physical Review B</i> , 2009 , 80,	3-3	52
168	Theory of coherent time-dependent transport in one-dimensional multiband semiconductor superlattices. <i>Physical Review B</i> , 1996 , 54, 17691-17700	3-3	49
167	Plasmonic eigenmodes in individual and bow-tie graphene nanotriangles. <i>Scientific Reports</i> , 2015 , 5, 9535-9	4.9	48
166	Quasienergy Spectroscopy of Excitons. <i>Physical Review Letters</i> , 1999 , 83, 1207-1210	7-4	48
165	Lithographic band structure engineering of graphene. <i>Nature Nanotechnology</i> , 2019 , 14, 340-346	28.7	44
164	Microscopic theory of phonon-induced effects on semiconductor quantum dot decay dynamics in cavity QED. <i>Physical Review B</i> , 2012 , 86,	3-3	43
163	Microscopic theory of indistinguishable single-photon emission from a quantum dot coupled to a cavity: The role of non-Markovian phonon-induced decoherence. <i>Physical Review B</i> , 2013 , 87,	3-3	42
162	Surface-enhanced Raman spectroscopy: nonlocal limitations. <i>Optics Letters</i> , 2012 , 37, 2538-40	3	42
161	Numerical simulations of resonant tunneling in the presence of inelastic processes. <i>Physical Review B</i> , 1990 , 41, 12327-12329	3-3	40
160	Monte Carlo algorithms for collisional broadening and intracollisional field effect in semiconductor high-field transport. <i>Journal of Applied Physics</i> , 1988 , 64, 3072-3078	2.5	39
159	Plasmon-emitter interactions at the nanoscale. <i>Nature Communications</i> , 2020 , 11, 366	17.4	38
158	Current noise spectrum of a quantum shuttle. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 29, 411-418	3	38
157	Pseudomagnetic fields and triaxial strain in graphene. <i>Physical Review B</i> , 2016 , 93,	3-3	36
156	Thermally Driven Pure Spin and Valley Currents via the Anomalous Nernst Effect in Monolayer Group-VI Dichalcogenides. <i>Physical Review Letters</i> , 2015 , 115, 246601	7-4	36
155	Optical properties and optimization of electromagnetically induced transparency in strained InAs/GaAs quantum dot structures. <i>Physical Review B</i> , 2009 , 80,	3-3	36
154	Ab initio study of spin-dependent transport in carbon nanotubes with iron and vanadium adatoms. <i>Physical Review B</i> , 2008 , 78,	3-3	36

153	Tunneling times in heterostructures. <i>Superlattices and Microstructures</i> , 1989 , 6, 303-307	2.8	36
152	Time-dependent tunneling of wave-packets through heterostructures in an applied field. <i>Superlattices and Microstructures</i> , 1986 , 2, 407-413	2.8	35
151	Strain-engineered Majorana zero energy modes and $\bar{0}$ Josephson state in black phosphorus. <i>Physical Review B</i> , 2018 , 98,	3.3	32
150	Fundamental limitations to gain enhancement in periodic media and waveguides. <i>Physical Review Letters</i> , 2012 , 108, 183903	7.4	32
149	Localized edge vibrations and edge reconstruction by joule heating in graphene nanostructures. <i>Physical Review Letters</i> , 2010 , 104, 036807	7.4	32
148	Intershell resistance in multiwall carbon nanotubes: A Coulomb drag study. <i>Physical Review B</i> , 2005 , 71,	3.3	32
147	Coulomb drag in coherent mesoscopic systems. <i>Physical Review Letters</i> , 2001 , 86, 1841-4	7.4	32
146	Current responsivity of semiconductor superlattice THz-photon detectors. <i>Journal of Applied Physics</i> , 1999 , 85, 3643-3654	2.5	32
145	Modeling transport in ultrathin Si nanowires: charged versus neutral impurities. <i>Nano Letters</i> , 2008 , 8, 2825-8	11.5	31
144	Nonequilibrium green function techniques applied to hot electron quantum transport. <i>Solid-State Electronics</i> , 1989 , 32, 1265-1271	1.7	31
143	Ballistic tracks in graphene nanoribbons. <i>Nature Communications</i> , 2018 , 9, 4426	17.4	31
142	Electronic transport in disordered graphene antidot lattice devices. <i>Physical Review B</i> , 2014 , 90,	3.3	30
141	Electronic properties of disordered graphene antidot lattices. <i>Physical Review B</i> , 2013 , 87,	3.3	30
140	Integral formulation of transport equations: Quantum theory versus Boltzmann equation. <i>Physical Review B</i> , 1985 , 32, 2248-2253	3.3	30
139	Thermoelectrics in Coulomb-coupled quantum dots: Cotunneling and energy-dependent lead couplings. <i>Physical Review B</i> , 2017 , 96,	3.3	29
138	Probing nonlocal effects in metals with graphene plasmons. <i>Physical Review B</i> , 2018 , 97,	3.3	29
137	Failure of standard approximations of the exchange coupling in nanostructures. <i>Physical Review B</i> , 2007 , 76,	3.3	29
136	Sequential tunneling in doped superlattices: Fingerprints of impurity bands and photon-assisted tunneling. <i>Physical Review B</i> , 1997 , 56, 13268-13278	3.3	28

135	Patched Green's function techniques for two-dimensional systems: Electronic behavior of bubbles and perforations in graphene. <i>Physical Review B</i> , 2015 , 91,	3.3	27
134	Electronic transport properties of fullerene functionalized carbon nanotubes: Ab initio and tight-binding calculations. <i>Physical Review B</i> , 2009 , 80,	3.3	27
133	Tunnelling through a time-modulated barrier-relation to tunnelling times. <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 9027-9033	1.8	27
132	Atomic carbon chains as spin-transmitters: An ab initio transport study. <i>Europhysics Letters</i> , 2010 , 91, 37002	1.6	26
131	Electron Waiting Times of a Cooper Pair Splitter. <i>Physical Review Letters</i> , 2018 , 120, 087701	7.4	25
130	Electron transport in edge-disordered graphene nanoribbons. <i>Physical Review B</i> , 2011 , 83,	3.3	25
129	Correlated Coulomb Drag in Capacitively Coupled Quantum-Dot Structures. <i>Physical Review Letters</i> , 2016 , 116, 196801	7.4	24
128	Theoretical analysis of a dual-probe scanning tunneling microscope setup on graphene. <i>Physical Review Letters</i> , 2014 , 112, 096801	7.4	24
127	Frictional Coulomb drag in strong magnetic fields. <i>Physical Review B</i> , 1997 , 56, 10314-10325	3.3	24
126	Simple models suffice for the single-dot quantum shuttle. <i>New Journal of Physics</i> , 2005 , 7, 237-237	2.9	24
125	Symmetry-forbidden intervalley scattering by atomic defects in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2017 , 96,	3.3	23
124	Theory of phase-sensitive measurement of photon-assisted tunneling through a quantum dot. <i>Physical Review B</i> , 1998 , 58, 9619-9622	3.3	23
123	Comparison of electromagnetically induced transparency schemes in semiconductor quantum dot structures: Impact of many-body interactions. <i>Physical Review B</i> , 2009 , 79,	3.3	21
122	Rigorous Formulation of High-Field Quantum Transport Applied to the Case of Electrons Scattered by Dilute Resonant Impurities. <i>Physical Review Letters</i> , 1982 , 49, 762-765	7.4	21
121	Electron Interference in Ballistic Graphene Nanoconstrictions. <i>Physical Review Letters</i> , 2016 , 116, 186607.	7.4	20
120	Field enhancement at metallic interfaces due to quantum confinement. <i>Journal of Nanophotonics</i> , 2011 , 5, 051602	1.1	20
119	Quantum computing via defect states in two-dimensional antidot lattices. <i>Nano Letters</i> , 2005 , 5, 2515-8	11.5	20
118	Fraunhofer response and supercurrent spin switching in black phosphorus with strain and disorder. <i>Physical Review B</i> , 2018 , 98,	3.3	20

117	Electronic and transport properties of kinked graphene. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 103-10	3	19
116	Observation of Dynamical Franz-Keldysh Effect. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 204, 52-54	1.3	19
115	Symmetry of superconducting correlations in displaced bilayers of graphene. <i>Physical Review B</i> , 2019 , 99,	3.3	18
114	Conductance quantization suppression in the quantum Hall regime. <i>Nature Communications</i> , 2018 , 9, 659	17.4	18
113	Transient charging and discharging of spin-polarized electrons in a quantum dot. <i>Physical Review B</i> , 2007 , 76,	3.3	18
112	Quantum Interference Engineering of Nanoporous Graphene for Carbon Nanocircuitry. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13081-13088	16.4	17
111	Atomistic theory for the damping of vibrational modes in monoatomic gold chains. <i>Physical Review B</i> , 2009 , 80,	3.3	17
110	Transport in silicon nanowires: role of radial dopant profile. <i>Journal of Computational Electronics</i> , 2008 , 7, 324-327	1.8	15
109	Control of superconducting pairing symmetries in monolayer black phosphorus. <i>Physical Review B</i> , 2019 , 99,	3.3	14
108	Mesoscopic fluctuations of Coulomb drag between quasiballistic one-dimensional wires. <i>Physical Review B</i> , 2002 , 65,	3.3	14
107	Self-consistent modelling of resonant tunnelling structures. <i>Surface Science</i> , 1992 , 267, 392-395	1.8	14
106	Self-consistent model for two-dimensional accumulation layer states in resonant tunneling devices. <i>Applied Physics Letters</i> , 1991 , 59, 2245-2247	3.4	14
105	Graphene on graphene antidot lattices: Electronic and transport properties. <i>Physical Review B</i> , 2015 , 91,	3.3	13
104	Screening in graphene antidot lattices. <i>Physical Review B</i> , 2011 , 84,	3.3	13
103	Spin qubits in antidot lattices. <i>Physical Review B</i> , 2008 , 77,	3.3	13
102	Nanostructure design for surface-enhanced Raman spectroscopy -- prospects and limits. <i>Journal of the European Optical Society-Rapid Publications</i> , 2008 , 3,	2.5	13
101	Modeling of Inelastic Transport in One-Dimensional Metallic Atomic Wires. <i>Journal of Computational Electronics</i> , 2004 , 3, 423-427	1.8	13
100	Plasma instabilities in high electric fields. <i>Physical Review E</i> , 1994 , 50, 474-479	2.4	13

99	Nanostructured graphene for spintronics. <i>Physical Review B</i> , 2017 , 95,	3.3	12
98	Slow-light enhanced absorption in a hollow-core fiber. <i>Optics Express</i> , 2010 , 18, 14270-9	3.3	12
97	Microscopic modelling of perpendicular electronic transport in doped multiple quantum wells. <i>Physica Scripta</i> , 1997 , T69, 321-324	2.6	12
96	Modelling of inelastic effects in molecular electronics. <i>Journal of Physics: Conference Series</i> , 2006 , 35, 313-323	0.3	12
95	Quantum transport in graphene in presence of strain-induced pseudo-Landau levels. <i>2D Materials</i> , 2016 , 3, 034005	5.9	12
94	Electron and hole transport in disordered monolayer MoS ₂ : Atomic vacancy induced short-range and Coulomb disorder scattering. <i>Physical Review B</i> , 2019 , 100,	3.3	11
93	Electron trajectories and magnetotransport in nanopatterned graphene under commensurability conditions. <i>Physical Review B</i> , 2017 , 96,	3.3	11
92	Electronic transport in graphene-based structures: An effective cross-section approach. <i>Physical Review B</i> , 2012 , 85,	3.3	11
91	Screening and collective modes in disordered graphene antidot lattices. <i>Physical Review B</i> , 2013 , 88,	3.3	11
90	Corrections to the density-functional theory electronic spectrum: copper phthalocyanine. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 257-263	2.6	11
89	Quantum Kinetic Equations for Strongly Inhomogenous Systems. <i>Physica Scripta</i> , 1989 , T25, 329-332	2.6	11
88	Elastic and inelastic resonant tunnelling in narrow-band systems: application to transport in minibands of semiconductor superlattices. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 8725-8729	1.8	11
87	Quantum corrections to the Monte Carlo solution of hot-electron transport in semiconductors. <i>Solid-State Electronics</i> , 1988 , 31, 535-538	1.7	11
86	Quantum surface-response of metals revealed by acoustic graphene plasmons. <i>Nature Communications</i> , 2021 , 12, 3271	17.4	11
85	Fermi velocity renormalization in graphene probed by terahertz time-domain spectroscopy. <i>2D Materials</i> , 2020 , 7, 035009	5.9	10
84	Electronic transport in graphene nanoribbons with sublattice-asymmetric doping. <i>Physical Review B</i> , 2016 , 93,	3.3	10
83	Electron polarization function and plasmons in metallic armchair graphene nanoribbons. <i>Physical Review B</i> , 2015 , 91,	3.3	10
82	Bubbles in graphene - a computational study. <i>Journal of Physics: Conference Series</i> , 2015 , 647, 012022	0.3	10

81	Plasmonic nanostructures: local versus nonlocal response 2010 ,		10
80	TMR effect in a FM-QD-FM system. <i>Brazilian Journal of Physics</i> , 2004 , 34, 565-567	1.2	10
79	Dephasing in semiconductor-superconductor structures by coupling to a voltage probe. <i>Superlattices and Microstructures</i> , 2000 , 28, 67-76	2.8	10
78	Quantum transport theory for electron-phonon systems in strong electric fields. <i>Physical Review Letters</i> , 1992 , 68, 2826-2829	7.4	10
77	Studies of the magnetic ordering and spin structure of K3Fe(CN)6. <i>Physical Review B</i> , 1977 , 15, 1445-1453	3.3	10
76	Correlated Topological States in Graphene Nanoribbon Heterostructures. <i>Nano Letters</i> , 2019 , 19, 9045-9050	6.6	10
75	Strong Plasmon-Phonon Splitting and Hybridization in 2D Materials Revealed through a Self-Energy Approach. <i>ACS Photonics</i> , 2017 , 4, 2908-2915	6.3	9
74	Dual-probe spectroscopic fingerprints of defects in graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	9
73	Possible THz Gain in Superlattices at a Stable Operation Point. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 204, 95-97	1.3	9
72	Current and current fluctuations in quantum shuttles. <i>Physics of Fluids</i> , 2005 , 17, 100613	4.4	9
71	Time-dependent transport in mesoscopic systems: general formalism and applications. <i>Semiconductor Science and Technology</i> , 1994 , 9, 926-929	1.8	9
70	Investigation of the magnetism of terbium ethylsulphate below 1 K using the Faraday effect. <i>Physical Review B</i> , 1975 , 11, 4409-4420	3.3	9
69	Scattering cross section of metal catalyst atoms in silicon nanowires. <i>Physical Review B</i> , 2010 , 81,	3.3	8
68	Plasma wave instabilities in nonequilibrium graphene. <i>Physical Review B</i> , 2016 , 94,	3.3	8
67	Probing the nanoscale origin of strain and doping in graphene-hBN heterostructures. <i>2D Materials</i> , 2019 , 6, 015022	5.9	8
66	Classification of DNA nucleotides with transverse tunneling currents. <i>Nanotechnology</i> , 2017 , 28, 015502	3.4	7
65	All-graphene edge contacts: Electrical resistance of graphene T-junctions. <i>Carbon</i> , 2016 , 101, 101-106	10.4	7
64	Fluctuation-driven Coulomb drag in interacting quantum dot systems. <i>Physical Review B</i> , 2019 , 100,	3.3	7

63	Sign reversal of drag in bilayer systems with in-plane periodic potential modulation. <i>Physical Review B</i> , 2002 , 66,	3.3	7
62	Conductance enhancement in quantum-point-contact semiconductor-superconductor devices. <i>Physical Review B</i> , 1999 , 60, 13762-13769	3.3	7
61	Model spectral density for hot-electron quantum transport. <i>Physica Scripta</i> , 1988 , 38, 117-121	2.6	7
60	Spin-Caloritronic Batteries. <i>Physical Review Applied</i> , 2017 , 8,	4.3	7
59	Magnetic edge states and magnetotransport in graphene antidot barriers. <i>Physical Review B</i> , 2016 , 94,	3.3	7
58	Robust band gap and half-metallicity in graphene with triangular perforations. <i>Physical Review B</i> , 2016 , 93,	3.3	6
57	Clar sextets in square graphene antidot lattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 967-970	3	6
56	Optics of Excitons in THz Irradiated Quantum Wells. <i>Physica Status Solidi A</i> , 1997 , 164, 553-556		6
55	Impact of interface roughness on perpendicular transport and domain formation in superlattices. <i>Superlattices and Microstructures</i> , 1998 , 23, 297-300	2.8	6
54	Resonant tunneling in a pulsed phonon field. <i>Physical Review B</i> , 1999 , 59, 7656-7662	3.3	6
53	Numerical studies of tunneling in a nonharmonic time-dependent potential. <i>Physical Review B</i> , 1993 , 47, 10446-10451	3.3	6
52	Position broadening effect in hot-electron transport. <i>Solid-State Electronics</i> , 1989 , 32, 1167-1171	1.7	6
51	Quantum electron-phonon transport equations revisited. <i>Journal of Physics F: Metal Physics</i> , 1983 , 13, L203-L206		6
50	Dilute resonant scatterers in a parabolic band: Density of states as a function of scattering strength. <i>Physical Review B</i> , 1983 , 28, 4628-4634	3.3	6
49	Signatures of adatom effects in the quasiparticle spectrum of Li-doped graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	6
48	Role of diffusive surface scattering in nonlocal plasmonics. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 395702	1.8	5
47	Plasmon-mediated Coulomb drag between graphene waveguides. <i>Physical Review B</i> , 2014 , 89,	3.3	5
46	Plasmons in Dimensionally Mismatched Coulomb Coupled Graphene Systems. <i>Physical Review Letters</i> , 2017 , 119, 126801	7.4	5

45	Quantum theory of shuttling instability in a movable quantum dot array. <i>Semiconductor Science and Technology</i> , 2004 , 19, S430-S432	1.8	5
44	Contact resistance of quantum tubes. <i>Superlattices and Microstructures</i> , 1999 , 26, 351-361	2.8	5
43	Anomalous skin effect with general elastic boundary scattering. <i>Journal of Physics F: Metal Physics</i> , 1985 , 15, 1951-1962		5
42	Coulomb drag between a carbon nanotube and monolayer graphene. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
41	Charge and spin transport anisotropy in nanopatterned graphene. <i>JPhys Materials</i> , 2018 , 1, 015005	4.2	5
40	Influence of confining potentials on the exchange coupling in double quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	4
39	Nanoplasmonics beyond Ohm's law 2012 ,		4
38	Transport in a Weakly-Coupled Superlattice: A Quantitative Approach for Photon-Assisted Tunneling. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 204, 73-76	1.3	4
37	Influence of many-particle interactions on slow light phenomena in quantum dots. <i>Journal of Physics: Conference Series</i> , 2008 , 107, 012005	0.3	4
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