

Yasuhiro Tokura

List of Publications by Year in descending order

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243
papers

8,219
citations

61984

43
h-index

51608

86
g-index

244
all docs

244
docs citations

244
times ranked

5765
citing authors

#	ARTICLE	IF	CITATIONS
1	Field test of quantum key distribution in the Tokyo QKD Network. <i>Optics Express</i> , 2011, 19, 10387.	3.4	816
2	Current Rectification by Pauli Exclusion in a Weakly Coupled Double Quantum Dot System. <i>Science</i> , 2002, 297, 1313-1317.	12.6	695
3	Electrically driven single-electron spin resonance in a slanting Zeeman field. <i>Nature Physics</i> , 2008, 4, 776-779.	16.7	484
4	Differential phase shift-quantum key distribution. <i>IEEE Communications Magazine</i> , 2009, 47, 102-106.	6.1	461
5	Coherent coupling of a superconducting flux qubit to an electron spin ensemble in diamond. <i>Nature</i> , 2011, 478, 221-224.	27.8	387
6	Allowed and forbidden transitions in artificial hydrogen and helium atoms. <i>Nature</i> , 2002, 419, 278-281.	27.8	342
7	Coherent Single Electron Spin Control in a Slanting Zeeman Field. <i>Physical Review Letters</i> , 2006, 96, 047202.	7.8	234
8	GaAs tetrahedral quantum dot structures fabricated using selective area metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1991, 58, 2018-2020.	3.3	222
9	Two-Qubit Gate of Combined Single-Spin Rotation and Interdot Spin Exchange in a Double Quantum Dot. <i>Physical Review Letters</i> , 2011, 107, 146801.	7.8	192
10	Direct Coulomb and Exchange Interaction in Artificial Atoms. <i>Physical Review Letters</i> , 2000, 84, 2485-2488.	7.8	168
11	Quantum dot molecules. <i>Physica B: Condensed Matter</i> , 1998, 249-251, 206-209.	2.7	129
12	A monolithically integrated polarization entangled photon pair source on a silicon chip. <i>Scientific Reports</i> , 2012, 2, 817.	3.3	120
13	Entanglement generation using silicon wire waveguide. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	114
14	Generation of high-purity entangled photon pairs using silicon wire waveguide. <i>Optics Express</i> , 2008, 16, 20368.	3.4	101
15	Transient current spectroscopy of a quantum dot in the Coulomb blockade regime. <i>Physical Review B</i> , 2001, 63, .	3.2	99
16	Negative Coulomb Drag in a One-Dimensional Wire. <i>Science</i> , 2006, 313, 204-207.	12.6	87
17	Ultimate low system dark-count rate for superconducting nanowire single-photon detector. <i>Optics Letters</i> , 2015, 40, 3428.	3.3	87
18	Frequency and Polarization Characteristics of Correlated Photon-Pair Generation Using a Silicon Wire Waveguide. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 325-331.	2.9	84

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19	Generation of polarization entangled photon pairs using silicon wire waveguide. Optics Express, 2008, 16, 5721.	3.4	83
20	Dephasing due to background charge fluctuations. Physical Review B, 2003, 67, .	3.2	78
21	Theory of optical transitions in graphene nanoribbons. Physical Review B, 2011, 84, .	3.2	74
22	Large Anisotropy of the Spin-Orbit Interaction in a Single InAs Self-Assembled Quantum Dot. Physical Review Letters, 2010, 104, 246801.	7.8	71
23	Electrically tuned spin-orbit interaction in an InAs self-assembled quantum dot. Nature Nanotechnology, 2011, 6, 511-516.	31.5	71
24	Spin-orbit induced electronic spin separation in semiconductor nanostructures. Nature Communications, 2012, 3, 1082.	12.8	68
25	Study of IF Bandwidth of MgB_2 Phonon-Cooled Hot-Electron Bolometer Mixers. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 409-415.	3.1	67
26	Single-photon detection using magnesium diboride superconducting nanowires. Applied Physics Letters, 2010, 97, .	3.3	66
27	Terrace width ordering mechanism during epitaxial growth on a slightly tilted substrate. Journal of Crystal Growth, 1989, 94, 46-52.	1.5	61
28	High-rate quantum key distribution over 100 km using ultra-low-noise, 2-GHz sinusoidally gated InGaAs/InP avalanche photodiodes. Optics Express, 2011, 19, 10632.	3.4	61
29	Limit of Electron Mobility in AlGaAs/GaAs Modulation-doped Heterostructures. Japanese Journal of Applied Physics, 1996, 35, 34-38.	1.5	58
30	Nonequilibrium Transport through a Vertical Quantum Dot in the Absence of Spin-Flip Energy Relaxation. Physical Review Letters, 2002, 88, 236802.	7.8	57
31	Single-electron tunnelling in two vertically coupled quantum dots. Journal of Physics Condensed Matter, 1999, 11, 6023-6034.	1.8	54
32	Micromagnets for coherent control of spin-charge qubit in lateral quantum dots. Applied Physics Letters, 2007, 90, 024105.	3.3	54
33	Coherent manipulation of individual electron spin in a double quantum dot integrated with a micromagnet. Physical Review B, 2010, 81, .	3.2	52
34	Indistinguishable photon pair generation using two independent silicon wire waveguides. New Journal of Physics, 2011, 13, 065005.	2.9	49
35	Filtering and analyzing mobile qubit information via Rashba-Dresselhaus-Aharonov-Bohm interferometers. Physical Review B, 2011, 84, .	3.2	49
36	Electrical pulse measurement, inelastic relaxation, and non-equilibrium transport in a quantum dot. Journal of Physics Condensed Matter, 2003, 15, R1395-R1428.	1.8	47

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37	The Origin of Raman D Band: Bonding and Antibonding Orbitals in Graphene. Crystals, 2013, 3, 120-140.	2.2	47
38	Electron transport through Aharonov-Bohm interferometer with laterally coupled double quantum dots. Physical Review B, 2006, 74, .	3.2	46
39	Megabits secure key rate quantum key distribution. New Journal of Physics, 2009, 11, 045010.	2.9	46
40	Efficient and low-noise single-photon detection in 1550 nm communication band by frequency upconversion in periodically poled LiNbO ₃ waveguides. Optics Letters, 2008, 33, 639.	3.3	45
41	Aharonov-Bohm Oscillations Changed by Indirect Interdot Tunneling via Electrodes in Parallel-Coupled Vertical Double Quantum Dots. Physical Review Letters, 2011, 106, 076801.	7.8	45
42	Conductivity oscillation due to quantum interference in a proposed washboard transistor. Applied Physics Letters, 1987, 51, 1807-1808.	3.3	44
43	Stability diagrams of laterally coupled triple vertical quantum dots in triangular arrangement. Applied Physics Letters, 2009, 94, .	3.3	44
44	Local Density of States in Zero-Dimensional Semiconductor Structures. Physical Review Letters, 2001, 87, 196804.	7.8	43
45	Spin filtering by a periodic spintronic device. Physical Review B, 2008, 78, .	3.2	43
46	Differential-phase-shift quantum key distribution experiment using fast physical random bit generator with chaotic semiconductor lasers. Optics Express, 2009, 17, 9053.	3.4	41
47	Superconducting Nanowire Single-Photon Detector with Ultralow Dark Count Rate Using Cold Optical Filters. Applied Physics Express, 2013, 6, 072801.	2.4	39
48	Slow light enhanced correlated photon pair generation in photonic-crystal coupled-resonator optical waveguides. Optics Express, 2013, 21, 8596.	3.4	39
49	Sub-Micron Vertical AlGaAs/GaAs Resonant Tunneling Single Electron Transistor. Japanese Journal of Applied Physics, 1995, 34, 1320-1325.	1.5	37
50	Electronic states in quantum dot atoms and molecules. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 3, 112-120.	2.7	37
51	Magnetic field induced transitions in the few-electron ground states of artificial molecules. Solid State Communications, 2001, 119, 183-190.	1.9	37
52	Anisotropic roughness scattering at a heterostructure interface. Physical Review B, 1992, 46, 15558-15561.	3.2	36
53	Kondo Effect in a Semiconductor Quantum Dot with a Spin-Accumulated Lead. Physical Review Letters, 2010, 104, 036804.	7.8	36
54	Quantized Conductance Observed in Quantum Wires 2 to 10 Åm Long. Japanese Journal of Applied Physics, 1995, 34, L72-L75.	1.5	35

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55	Sharvin resistance and its breakdown observed in long ballistic channels. Physical Review B, 1993, 47, 4064-4067.	3.2	33
56	Electrically tuned $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow}\langle \text{mml:mi}\rangle \text{g}\langle \text{mml:mi}\rangle \langle \text{mml:mrow}\rangle \langle \text{mml:math}\rangle$ tensor in an InAs self-assembled quantum dot. Physical Review B, 2011, 84, .	3.2	32
57	Resonant tunneling of three-dimensional electrons into degenerate zero-dimensional levels. Physical Review B, 1991, 44, 13815-13818.	3.2	30
58	Two-dimensional electron transport with anisotropic scattering potentials. Physical Review B, 1998, 58, 7151-7161.	3.2	30
59	Excitation spectra and exchange interactions in circular and elliptical quantum dots. Physica B: Condensed Matter, 2001, 298, 260-266.	2.7	30
60	Photon detection and fabrication of MgB2 nanowire. Physica C: Superconductivity and Its Applications, 2008, 468, 1992-1994.	1.2	30
61	Superlattice Structure Observation for $(\text{AlAs})_{1/2}(\text{GaAs})_{1/2}$ Grown on (001) Vicinal GaAs Substrates. Japanese Journal of Applied Physics, 1988, 27, L1320-L1322.	1.5	29
62	Towards a microscopic theory of the 0.7 anomaly. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 711-714.	2.7	29
63	Resonance-hybrid states in a triple quantum dot. Physical Review B, 2012, 85, .	3.2	28
64	New field-effect transistor with quantum wire and modulation-doped heterostructures. Electronics Letters, 1988, 24, 1267.	1.0	28
65	Low noise MgB2 terahertz hot-electron bolometer mixers. Applied Physics Letters, 2012, 100, .	3.3	27
66	Transport characteristics of a window-coupled in-plane-gated wire system. Physical Review B, 1993, 48, 7991-7998.	3.2	26
67	Spin Bottleneck in Resonant Tunneling through Double Quantum Dots with Different Zeeman Splittings. Physical Review Letters, 2010, 104, 136801.	7.8	26
68	Coherence length in quantum interference devices having periodic potential. Applied Physics Letters, 1988, 53, 859-861.	3.3	25
69	Lateral interface mixing in GaAs quantum well wire arrays. Applied Physics Letters, 1989, 55, 1958-1959.	3.3	25
70	Coulomb drag between quantum wires: magnetic field effects and negative anomaly. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 726-729.	2.7	24
71	Quantitative Estimation of Exchange Interaction Energy Using Two-Electron Vertical Double Quantum Dots. Physical Review Letters, 2009, 102, 146802.	7.8	24
72	Spin-polarized electric currents in quantum transport through tubular two-dimensional electron gases. Physical Review B, 2010, 81, .	3.2	24

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73	Transmission resonances in a semiconductor-superconductor junction quantum interference structure. <i>Physical Review B</i> , 1996, 54, 6587-6599.	3.2	23
74	Fabrication and characterization of a laterally coupled vertical triple quantum dot device. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1322-1324.	2.7	23
75	Single-Spin Readout in a Double Quantum Dot Including a Micromagnet. <i>Physical Review Letters</i> , 2010, 104, 046802.	7.8	23
76	Effects of Coulomb interactions on spin states in vertical semiconductor quantum dots. <i>Applied Physics A: Materials Science and Processing</i> , 2000, 71, 367-378.	2.3	22
77	Angular momentum selectivity in tunneling between two quantum dots. <i>Physica B: Condensed Matter</i> , 2002, 314, 450-454.	2.7	22
78	Interaction effect on adiabatic pump of charge and spin in quantum dot. <i>Physical Review B</i> , 2015, 92, .	3.2	22
79	Subband mixing effect in double-barrier diodes with a restricted lateral dimension. <i>Applied Physics Letters</i> , 1991, 58, 1623-1625.	3.3	21
80	Ground-state transitions beyond the singlet-triplet transition for a two-electron quantum dot. <i>Physical Review B</i> , 2007, 75, .	3.2	21
81	Electron-Spin Manipulation and Resonator Readout in a Double-Quantum-Dot Nanoelectromechanical System. <i>Physical Review Letters</i> , 2008, 100, 136802.	7.8	21
82	Decay and frequency shift of both intervalley and intravalley phonons in graphene: Dirac-cone migration. <i>Physical Review B</i> , 2012, 86, .	3.2	21
83	Fabrication of MgB ₂ Nanowire Single-Photon Detector with Meander Structure. <i>Applied Physics Express</i> , 2013, 6, 023101.	2.4	21
84	Manipulation of exchange coupling energy in a few-electron double quantum dot. <i>Physical Review B</i> , 2008, 77, .	3.2	20
85	Interference through quantum dots. <i>New Journal of Physics</i> , 2007, 9, 113-113.	2.9	19
86	Exotic pseudospin Kondo effect in laterally coupled double quantum dots. <i>Physical Review B</i> , 2008, 77, .	3.2	19
87	Fluctuation theorem for heat transport probed by a thermal probe electrode. <i>Physical Review B</i> , 2014, 89, .	3.2	19
88	Hybrid quantum magnetic-field sensor with an electron spin and a nuclear spin in diamond. <i>Physical Review A</i> , 2016, 94, .	2.5	19
89	Electron wave interference device with vertical superlattices working in large current region. <i>Electronics Letters</i> , 1989, 25, 728-730.	1.0	19
90	Charging effects in small-area modulation-doped double-barrier heterostructures. <i>Surface Science</i> , 1994, 305, 547-552.	1.9	18

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91	Single-electron tunneling through two vertically coupled quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 676-679.	2.7	18
92	Contact Phenomena and Mott Transition in Carbon Nanotubes. <i>Journal of Low Temperature Physics</i> , 2000, 118, 509-518.	1.4	18
93	Quantum-Enhanced Heat Engine Based on Superabsorption. <i>Physical Review Letters</i> , 2022, 128, 180602.	7.8	18
94	Electron scattering by steps in a vicinal heterointerface. <i>Physical Review B</i> , 1996, 53, R10528-R10531.	3.2	17
95	Microwave band on-chip coil technique for single electron spin resonance in a quantum dot. <i>Review of Scientific Instruments</i> , 2007, 78, 104704.	1.3	17
96	Kondo effects and shot noise enhancement in a laterally coupled double quantum dot. <i>Physical Review B</i> , 2011, 83, .	3.2	17
97	Several- and Many-Electron Artificial-Atoms at Filling Factors between 2 and 1. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 372-375.	1.5	16
98	Energy relaxation process in a quantum dot studied by DC current and pulse-excited current measurements. <i>Physica B: Condensed Matter</i> , 2001, 298, 573-579.	2.7	16
99	Quantum Interference Effects in the Magnetopiezoresistance of InAs/AlGaSb Quasi-One-Dimensional Electron Systems. <i>Physical Review Letters</i> , 2004, 93, 036603.	7.8	16
100	Strong electron-electron interactions of a Tomonaga-Luttinger liquid observed in InAs quantum wires. <i>Physical Review B</i> , 2019, 99, .	3.2	16
101	Ultrathin MgB ₂ films fabricated by molecular beam epitaxy and rapid annealing. <i>Superconductor Science and Technology</i> , 2013, 26, 035005.	3.5	15
102	Long-lived binary tunneling spectrum in the quantum Hall Tomonaga-Luttinger liquid. <i>Physical Review B</i> , 2016, 93, .	3.2	15
103	Step ordering during fractional-layer superlattice growth on GaAs(001) vicinal surfaces by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1993, 63, 72-74.	3.3	13
104	Exchange interaction in quantum-wire subbands. <i>Physical Review B</i> , 1994, 50, 10981-10989.	3.2	13
105	(AlAs) ₁₂ (GaAs) ₁₂ Fractional-layer superlattices grown on (001) vicinal GaAs substrates by MOCVD. <i>Surface Science</i> , 1990, 228, 20-23.	1.9	12
106	Optical Response and Fabrication of MgB_2 Nanowire Detectors. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 358-360.	1.7	12
107	MgB_2 Hot-Electron Bolometer Mixers at Terahertz Frequencies. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-4.	1.7	12
108	Theory of a Carbon-Nanotube Polarization Switch. <i>Physical Review Applied</i> , 2018, 9, .	3.8	12

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109	Precursors of a Mott insulator in modulated quantum wires. <i>Physical Review B</i> , 1997, 56, R12729-R12732.	3.2	11
110	Magneto-optical spectroscopy of excitons and trions in charge-tunable quantum dots. <i>Physical Review B</i> , 2009, 79, .	3.2	11
111	Single dot and strongly coupled double dots at high magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 10, 112-116.	2.7	10
112	LTS SQUID microscope with micron spatial resolution. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 231-234.	1.7	10
113	AC transport and full-counting statistics of molecular junctions in the weak electron-vibration coupling regime. <i>Journal of Chemical Physics</i> , 2017, 146, .	3.0	10
114	A waveguide-integrated superconducting nanowire single-photon detector with a spot-size converter on a Si photonics platform. <i>Superconductor Science and Technology</i> , 2019, 32, 034001.	3.5	10
115	Resonant Electron Transmission through a Finite Quantum Spin Chain. <i>Physical Review Letters</i> , 2001, 87, 197203.	7.8	9
116	Pseudospin for Raman $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">D \rangle$ band in armchair graphene nanoribbons. <i>Physical Review B</i> , 2012, 85, .	3.2	9
117	Excitation spectroscopy of few-electron states in artificial diatomic molecules. <i>Physical Review B</i> , 2013, 87, .	3.2	9
118	Excess Entropy Production in Quantum System: Quantum Master Equation Approach. <i>Journal of Statistical Physics</i> , 2017, 169, 902-928.	1.2	9
119	Electronic states in lateral structures on modulation-doped heterointerfaces. <i>Applied Physics Letters</i> , 1989, 55, 1403-1405.	3.3	8
120	Contact phenomena in carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1752-1753.	2.7	8
121	Selective Manipulation of Electron Spins with Electric Fields. <i>Progress of Theoretical Physics Supplement</i> , 2008, 176, 322-340.	0.1	8
122	Phase and amplitude of Aharonov-Bohm oscillations in nonlinear three-terminal transport through a double quantum dot. <i>Physical Review B</i> , 2011, 83, .	3.2	8
123	Effect of the Critical and Operational Temperatures on the Sensitivity of HEB Mixers. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 238-244.	3.1	8
124	Determination of intrinsic lifetime of edge magnetoplasmons. <i>Physical Review B</i> , 2016, 93, .	3.2	8
125	Theory of coherent quantum phase slips in Josephson junction chains with periodic spatial modulations. <i>Physical Review B</i> , 2018, 97, .	3.2	8
126	Probing the singlet-triplet splitting in double quantum dots: Implications of the ac field amplitude. <i>Physical Review B</i> , 2019, 100, .	3.2	8

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127	Vertical quantum dots at high magnetic fields beyond the few-electron limit. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 358-363.	2.7	7
128	Pauli Spin Blockade and Influence of Hyperfine Interaction in Vertical Quantum Dot Molecule with Six-Electrons. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 023701.	1.6	7
129	The photon-assisted dynamic nuclear polarization effect in a double quantum dot. <i>New Journal of Physics</i> , 2012, 14, 123013.	2.9	7
130	Quasi-one-dimensional transport near the ballistic limit. <i>Physical Review B</i> , 1996, 53, 16403-16407.	3.2	6
131	Noninvasive determination of the ballistic-electron current distribution. <i>Physical Review B</i> , 1996, 54, 1947-1952.	3.2	6
132	Many-body effect in an artificial atom. <i>Physica B: Condensed Matter</i> , 1998, 246-247, 83-87.	2.7	6
133	Spin-dependent energy relaxation inside a quantum dot. <i>Physica B: Condensed Matter</i> , 2002, 314, 224-229.	2.7	6
134	Two level mixing effects probed by resonant tunnelling through vertically coupled quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 174-177.	0.8	6
135	Tunneling current through g -factor engineered series quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 740-743.	1.5	6
136	Comparison of timing jitter between NbN superconducting single-photon detector and avalanche photodiode. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 1534-1537.	1.2	6
137	Dephasing in an Aharonov-Bohm interferometer containing a lateral double quantum dot induced by coupling with a quantum dot charge sensor. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 354020.	2.1	6
138	Spectroscopy of double quantum dot two-spin states by tuning the interdot barrier. <i>Physical Review B</i> , 2019, 99, .	3.2	6
139	Mobility modulation on a modulation-doped structure with an AlAs/GaAs fractional layer superlattice. <i>Applied Physics Letters</i> , 1990, 57, 804-806.	3.3	5
140	Aharonov-Bohm effect under high magnetic field in a Corbino disk anti-dot channel. <i>Surface Science</i> , 1992, 263, 392-395.	1.9	5
141	Spin filtering due to quantum interference in periodic mesoscopic networks. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 629-633.	2.7	5
142	Transport properties of two laterally coupled vertical quantum dots in series with tunable interdot coupling. <i>Applied Physics Letters</i> , 2010, 97, 062108.	3.3	5
143	Valley-antisymmetric potential in graphene under dynamical deformation. <i>Physical Review B</i> , 2014, 90, .	3.2	5
144	Reconsideration of relativistic corrections for an electron confined in a two-dimensional quantum dot: I. Spin-orbit coupling and Rashba effect. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 031801.	1.5	5

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145	Transmission of interacting electrons through a one-dimensional periodic potential. <i>Physical Review B</i> , 1996, 53, 15462-15465.	3.2	4
146	Electronic pressure on the ferromagnetic domain wall. <i>Solid State Communications</i> , 2000, 116, 533-538.	1.9	4
147	Tunneling between Parallel Quantum Wires. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	4
148	Charge states of a collinearly and laterally coupled vertical triple quantum dot device. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 899-901.	2.7	4
149	Partial decoherence in mesoscopic systems. <i>Physica Scripta</i> , 2012, T151, 014018.	2.5	4
150	Band Shift, Band Filling, and Electron Localization in a Quantum Wire Detected via Tunneling between Parallel Quantum Wires. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 033710.	1.6	4
151	Quantum Adiabatic Pumping by Modulating Tunnel Phase in Quantum Dots. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 084704.	1.6	4
152	Phonon-Induced Electronâ€“Hole Excitation and ac Conductance in Molecular Junction. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 043703.	1.6	4
153	Effect of isotropy and anisotropy of the confinement potential on the Rashba spinâ€“orbit interaction for an electron in a two-dimensional quantum dot system. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 075201.	1.5	4
154	Density of states of an AlAs/GaAs fractional superlattice in a modulationâ€“doped structure. <i>Applied Physics Letters</i> , 1990, 57, 2101-2103.	3.3	3
155	Novel Kondo anomaly in quantum dots. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 84, 10-16.	3.5	3
156	Effect of Multiple Charge Traps on Dephasing Rates of a Josephson Charge Qubit System. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 2726-2729.	1.6	3
157	Elastic and inelastic tunneling through oneâ€“electron and twoâ€“electron states in a vertical double quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2854-2857.	0.8	3
158	Singletâ€“triplet transition induced by Zeeman energy in weakly coupled vertical double quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1139-1141.	2.7	3
159	Dynamical polarization effect of nuclear spin bath dragged by electron spin resonance in double quantum dot integrated with micro-magnet. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012046.	0.4	3
160	Quantum spin transport in magnetic-field-engineered nano-structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 994-998.	2.7	3
161	Aluminum oxide for an effective gate in Si/SiGe two-dimensional electron gas systems. <i>Semiconductor Science and Technology</i> , 2011, 26, 055004.	2.0	3
162	Spin-1 quantum walks. <i>Physical Review A</i> , 2016, 93, .	2.5	3

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163	Field-dependent hopping conduction. <i>Physica B: Condensed Matter</i> , 2018, 541, 19-23.	2.7	3
164	Anonymous Quantum Sensing. <i>Journal of the Physical Society of Japan</i> , 2022, 91, .	1.6	3
165	Electronic states in an AlGaAsi—GaAs modulation-doped hetero-interface with a 10 nm-order periodic structure. <i>Surface Science</i> , 1990, 228, 280-282.	1.9	2
166	Reflection and refraction of ballistic electrons through different carrier concentration regions. <i>Applied Physics Letters</i> , 1992, 60, 106-108.	3.3	2
167	Spin effects in semiconductor quantum dot structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 10, 45-51.	2.7	2
168	Addition energy spectrum of a quantum dot disk up to the third shell. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 11, 63-67.	2.7	2
169	1D Bragg reflector in the Tomonagaâ€“Luttinger liquid regime and Fermi liquid regimes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 12, 186-189.	2.7	2
170	Negative differential conductance in a quantum dot and possible application to ESR detection. <i>Journal of Physics: Conference Series</i> , 2009, 150, 022026.	0.4	2
171	Nano-fabrication processes for magnesium diboride. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S1005-S1006.	1.2	2
172	Entanglement generation using silicon wire waveguide. <i>Optics and Spectroscopy (English Translation)</i> Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	2
173	NbN Superconducting Single-Photon Detector with Bilayer Structure. <i>Physics Procedia</i> , 2012, 36, 324-329.	1.2	2
174	Backaction dephasing by a quantum dot detector. <i>Physical Review B</i> , 2013, 88, .	3.2	2
175	Ultra-narrowband nonlinear wavelength conversion using coupled photonic crystal nanocavities. , 2013, , .		2
176	Spin Qubits with Semiconductor Quantum Dots. <i>Lecture Notes in Physics</i> , 2016, , 541-567.	0.7	2
177	Reconsideration of the spinâ€“orbit interaction for an electron confined in a quasi-two-dimensional quantum dot: II. Bulkiness and in-plane spinâ€“orbit coupling. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 045201.	1.5	2
178	Electron-Spin Manipulation inÂQuantumÂDotÂSystems. <i>Topics in Applied Physics</i> , 2009, , 15-34.	0.8	2
179	One- and Zero-Dimensional Tunneling Diodes Fabricated by Focused Ion Beam Implantation. , 1992, , 243-257.		2
180	Resonant tunneling through one-dimensional states constricted by AlxGa1âˆ“xAs/GaAs/AlxGa1âˆ“xAs heterojunctions and high-resistance regions induced by focused Ga ion beam implantation. <i>Superlattices and Microstructures</i> , 1991, 9, 341-344.	3.1	1

#	ARTICLE	IF	CITATIONS
181	Roughness scattering in a finite-length wire. <i>Physical Review B</i> , 1997, 55, 15740-15747.	3.2	1
182	Transport characteristics of electrons in weak short-period two-dimensional potential arrays. <i>Applied Physics Letters</i> , 2001, 79, 427-429.	3.3	1
183	Current noise in a quantum point contact. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 284-287.	2.7	1
184	Many-Body Effects on Tunneling of Electrons in Magnetic-Field-induced Quasi-One-dimensional Electron Systems in Semiconductor Nanowhiskers. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 519-522.	1.6	1
185	InAs-based Micromechanical Two-dimensional Electron Systems. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
186	Coherent pseudo-spin resonance in a laterally coupled double quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 170-173.	0.8	1
187	Energy distribution of the ballistic hot electrons and holes emitted from a quantum point contact and probed by a quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 162-165.	0.8	1
188	Observation of anti-bonding excited state in charging diagram of a few-electron double dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1238-1240.	2.7	1
189	Coherent pseudo-spin dynamics in Aharonov-Bohm interferometer containing laterally coupled double quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1243-1245.	2.7	1
190	Phonon induced coherence in multi-level quantum dot system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1690-1692.	2.7	1
191	Entanglement generation using silicon wire waveguide. , 2008, , .		1
192	Electric spin orchestra. <i>Nature Physics</i> , 2009, 5, 12-13.	16.7	1
193	Entanglement Generation Using Silicon Photonic Wire Waveguide. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1814-1818.	0.9	1
194	Single electron spin addressing by using photon-assisted-tunneling in a double quantum dot including a micro-magnet. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 825-829.	2.7	1
195	Effects of observation on quantum interference in a laterally coupled double quantum dot using a quantum dot charge sensor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 852-855.	2.7	1
196	Coherent control of two individual electron spins and influence of hyperfine coupling in a double quantum dot. <i>Journal of Physics: Conference Series</i> , 2011, 334, 012009.	0.4	1
197	Spin-flip quantum transition driven by the time-oscillating Rashba field. <i>Journal of Physics Communications</i> , 2018, 2, 015021.	1.2	1
198	Quantum Adiabatic Pumping in Rashba- Dresselhaus-Aharonov-Bohm Interferometer. <i>Entropy</i> , 2019, 21, 828.	2.2	1

#	ARTICLE	IF	CITATIONS
199	Quantum Phase Transition of a Spin Coupled with an Engineered Bosonic Reservoir. JPSJ News and Comments, 2019, 16, 15.	0.1	1
200	Microwave spectroscopy of spin-orbit coupled states: Energy detuning vs interdot coupling modulation. Journal of Applied Physics, 2020, 128, 154304.	2.5	1
201	Observation of the singlet and triplet states in a hybrid vertical-lateral double dot. AIP Conference Proceedings, 2007, , .	0.4	1
202	Power Dependence of Electric Dipole Spin Resonance. , 2014, , .		1
203	10 ⁵ times biasing current improvement in an electron wave interference device with vertical superlattices. IEEE Transactions on Electron Devices, 1989, 36, 2618.	3.0	0
204	Electron effective-mass modulation transistor. Journal of Applied Physics, 1990, 67, 2171-2173.	2.5	0
205	Quantum Hall ferromagnet in a parabolic quantum wire. Physical Review B, 1998, 58, 12597-12600.	3.2	0
206	Dephasing of a coupled qubit system during gate operations due to background charge fluctuations. Superlattices and Microstructures, 2003, 34, 497-501.	3.1	0
207	Spin selective tunneling and blockade in two-electron double quantum dot. Physica Status Solidi (B): Basic Research, 2003, 238, 335-340.	1.5	0
208	Direct probing of local-density-of-states in semiconductor nanostructures. , 2003, , .		0
209	MANY-BODY EFFECTS ON TUNNELING OF ELECTRONS IN MAGNETIC-FIELD-INDUCED QUASI ONE-DIMENSIONAL SYSTEMS IN QUANTUM WELLS. , 2005, , .		0
210	Electron transport in magnetic-field-induced quasi-one-dimensional electron systems in semiconductor nanowhiskers. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 525-529.	2.7	0
211	Tunnel-coupling blockade in vertical/lateral hybrid dot to study many-body states for electron number N=1,2 and 3. AIP Conference Proceedings, 2005, , .	0.4	0
212	New scheme of spin qubits driven by ac electric field. , 2006, , .		0
213	Pseudo-spin Kondo effect in Aharonov-Bohm interferometer containing laterally coupled double quantum dots. AIP Conference Proceedings, 2007, , .	0.4	0
214	Spin-charge qubit resonance readout in lateral quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 40, 347-350.	2.7	0
215	On-chip micro-coil technique for single electron spin resonance with quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 40, 351-354.	2.7	0
216	Differential phase shift quantum key distribution. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
217	Rectifying Behavior in Laterally Coupled Self-Assembled Quantum Dots with Asymmetric Tunneling Barriers. Applied Physics Express, 2009, 2, 014501.	2.4	0
218	Fast physical random bit generator based on chaotic semiconductor lasers: Application to quantum cryptography. , 2009, , .		0
219	Transient current in spin blockade condition. Journal of Physics: Conference Series, 2009, 193, 012102.	0.4	0
220	Quantum interference and Kondo effects in an Aharonovâ€“Bohmâ€“Casher interferometer containing a laterally coupled double quantum dot. Physics Procedia, 2010, 3, 1225-1230.	1.2	0
221	Selective Addressing of Single Electron Spins in a Semiconductor Double Quantum Dot Integrated with a Micro-Magnet. , 2010, , .		0
222	Spin-orbit interaction detection using Kondo effect in single self-assembled InAs quantum dots. AIP Conference Proceedings, 2011, , .	0.4	0
223	Spin Bottleneck in Resonance Tunneling through In[sub 0.04]Ga[sub 0.96]Asâˆ—GaAs Vertical Double Quantum Dots. AIP Conference Proceedings, 2011, , .	0.4	0
224	Level Broadening Effect in Electron Tunneling through Double Quantum Dots with Different Factors. Japanese Journal of Applied Physics, 2011, 50, 04DJ02.	1.5	0
225	Practical Quantum Key Distribution Over 100 km Using Sinusoidally Gated InGaAs/InP Avalanche Photodiodes. , 2011, , .		0
226	Geometric blockade in a quantum dot coupled to two-dimensional and three-dimensional electron gases. Physical Review B, 2011, 84, .	3.2	0
227	Monolithic source of telecom-band polarization entanglement on a silicon photonic chip. , 2013, , .		0
228	Slow-light-enhanced correlated photon pair generation in a silicon photonic crystal coupled-resonator optical waveguide. , 2013, , .		0
229	Identifying a correlated spin fluctuation in an entangled spin chain subject to a quantum phase transition. Physical Review E, 2015, 92, 062143.	2.1	0
230	Fluctuation theorem for a two-terminal conductor connected to a thermal probe. Physica Scripta, 2015, T165, 014021.	2.5	0
231	Wideband MgB₂ Hot-Electron Bolometer Mixers: IF Impedance Characterisation and Modeling. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	0
232	Fast phase manipulation of the single nuclear spin in solids by rotating fields. Physical Review A, 2017, 95, .	2.5	0
233	Indirect Acquisition of Aharonovâ€“Bohm Phase via the Coulomb-interaction and Breakdown of Onsagerâ€“Büttiker Symmetry Relation. Journal of the Physical Society of Japan, 2019, 88, 054717.	1.6	0
234	ELECTRON TRANSPORT THROUGH LATERALLY COUPLED DOUBLE QUANTUM DOTS. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
235	COULOMB BLOCKADE PROPERTIES OF 4-GATED QUANTUM DOT. , 2008, , .		0
236	Megabits Secure Key Rate Quantum Key Distribution. , 2009, , .		0
237	Silicon Photonics in Quantum Communications. , 2009, , .		0
238	LATERALLY COUPLED TRIPLE SELF-ASSEMBLED QUANTUM DOTS. , 2009, , .		0
239	ELECTRON TRANSPORT THROUGH A LATERALLY COUPLED TRIPLE QUANTUM DOT FORMING AHARONOV-BOHM INTERFEROMETER. , 2009, , .		0
240	AHARONOV-BOHM OSCILLATIONS IN PARALLEL COUPLED VERTICAL DOUBLE QUANTUM DOT. , 2009, , .		0
241	Level Broadening Effect in Electron Tunneling through Double Quantum Dots with DifferentgFactors. Japanese Journal of Applied Physics, 2011, 50, 04DJ02.	1.5	0
242	Monolithically-integrated polarization-entangled photon pair source on a silicon-on-insulator photonic circuit. , 2012, , .		0
243	Phonon Cavity Quantum Electrodynamics and Phonon Microlaser. JPSJ News and Comments, 2013, 10, 01.	0.1	0