Orbital Mechanisms of Electron-Spin Manipulation by a

Physical Review Letters 91, 126405 DOI: 10.1103/physrevlett.91.126405

Citation Report

#	Article	IF	CITATIONS
1	Efficient electron spin manipulation in a quantum well by an in-plane electric field. Applied Physics Letters, 2003, 83, 5295-5297.	1.5	78
2	Spin Splitting Induced by Spin-Orbit Interaction in Chiral Nanotubes. Physical Review Letters, 2004, 93, 176402.	2.9	68
3	Spin precession in an adiabatically rotating electric field. Physical Review B, 2004, 70, .	1.1	9
4	Persistent currents in a multicomponent Tomonaga-Luttinger liquid:â€,Application to a mesoscopic semiconductor ring with spin-orbit interaction. Physical Review B, 2004, 70, .	1.1	16
5	Geometric Origin of Elliott Spin Decoherence in Metals and Semiconductors. Physical Review Letters, 2004, 93, 266601.	2.9	8
6	Coherent spin manipulation without magnetic fields in strained semiconductors. Nature, 2004, 427, 50-53.	13.7	436
7	Spintronics: Fundamentals and applications. Reviews of Modern Physics, 2004, 76, 323-410.	16.4	9,479
8	Electron spin operation by electric fields: spin dynamics and spin injection. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 20, 189-195.	1.3	73
9	Spin Hall effect and Berry phase in two-dimensional electron gas. Physical Review B, 2004, 70, .	1.1	160
10	Voltage-controlled coded qubit based on electron spin. Solid State Communications, 2005, 136, 508-512.	0.9	55
11	Hopping transport in two-dimensional systems with spin-orbit interaction in external magnetic field. Journal of Experimental and Theoretical Physics, 2005, 100, 314-321.	0.2	3
12	Spin Dynamics and Spin Transport. Journal of Superconductivity and Novel Magnetism, 2005, 18, 137-144.	0.5	51
13	Anisotropic electrongfactor in quantum dots with spin-orbit interaction. Physical Review B, 2005, 71, .	1.1	32
14	Spin current induced by in-plane magnetoelectricl̂´-barriers in a two-dimensional electron gas. Physical Review B, 2005, 72, .	1.1	27
15	Long-lived spin coherence states in semiconductor heterostructures. Physical Review B, 2005, 71, .	1.1	31
16	Field Dependence of the Electron Spin Relaxation in Quantum Dots. Physical Review Letters, 2005, 95, 166603.	2.9	27
17	Spin-Orbit-Driven Coherent Oscillations in a Few-Electron Quantum Dot. Physical Review Letters, 2005, 94, 226803.	2.9	59
18	Dynamic polarization tunneling: A spin filtering mechanism. Physical Review B, 2005, 72, .	1.1	18

#	Article	IF	CITATIONS
19	Electric-dipole spin-resonance signals related to extended interstitial agglomerates in silicon. Journal of Applied Physics, 2005, 98, 043507.	1.1	4
20	Generation of Focused Electric Field Patterns at Dielectric Surfaces. Analytical Chemistry, 2005, 77, 4667-4672.	3.2	15
21	Rashba effect and magnetic field in semiconductor quantum wires. Physical Review B, 2005, 71, .	1.1	105
22	Magnetic nanoparticles: preparation, structure and properties. Russian Chemical Reviews, 2005, 74, 489-520.	2.5	813
23	Persistent spin currents in a quantum ring with multiple arms in the presence of spin-orbit interaction. Physical Review B, 2005, 72, .	1.1	23
24	Spin-Orbit Coupling and Anisotropy of Spin Splitting in Quantum Dots. Physical Review Letters, 2005, 94, 226404.	2.9	57
25	Spin relaxation in quantum dots with random spin-orbit coupling. Physical Review B, 2005, 72, .	1.1	24
26	Quantum transport theory for nanostructures with Rashba spin-orbital interaction. Physical Review B, 2005, 71, .	1.1	295
27	Multichannel field-effect spin-barrier selector: Spin-carrier dynamics under full spin-orbit coupling. Physical Review B, 2005, 72, .	1.1	9
28	Switching effect in spin field-effect transistors. Applied Physics Letters, 2006, 89, 012105.	1.5	19
29	Least-action principle for envelope functions in abrupt heterostructures. Physical Review B, 2006, 73, .	1.1	12
30	Double-injector source of spin polarized current with controllable polarization. Applied Physics Letters, 2006, 89, 023505.	1.5	1
31	Electric-field inversion asymmetry: Rashba and Stark effects for holes in resonant tunneling devices. Physical Review B, 2006, 74, .	1.1	23
32	Electric-dipole-induced spin resonance in quantum dots. Physical Review B, 2006, 74, .	1.1	287
33	Kinetic equations for hopping processes of small polarons under spin-orbit coupling. Physical Review B, 2006, 74, .	1.1	6
34	Conservation of spin current: Model including self-consistent spin-spin interaction. Physical Review B, 2006, 74, .	1.1	16
35	Rashba spin splitting in parabolic quantum dots. Journal of Applied Physics, 2006, 99, 113708.	1.1	23
36	Unexpected magnetism in low dimensional systems: the role of symmetry. Journal of Physics: Conference Series, 2006, 30, 215-223.	0.3	0

#	Article	IF	CITATIONS
37	Dynamical properties of spin and subbands populations in 1D quantum wire. Physica Status Solidi (B): Basic Research, 2006, 243, 2772-2779.	0.7	30
38	Electric-dipole-induced spin resonance in disordered semiconductors. Nature Physics, 2006, 2, 195-199.	6.5	67
39	Polarizability of the fine-structure components of low excited states of the F, Cl, and Br atoms. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 101, 501-507.	0.2	7
40	Spin relaxation in n-InSb/AlInSb quantum wells. New Journal of Physics, 2006, 8, 49-49.	1.2	23
41	On the generator of Lorentz boost. Chinese Physics B, 2006, 15, 2223-2227.	1.3	3
42	Spin-Tunneling Time in Ferromagnetic/Semiconductor/Ferromagnetic Three-Terminal Heterojunction in the Presence of Rashba Spin-Orbit Coupling. Communications in Theoretical Physics, 2006, 46, 945-951.	1.1	0
43	Theory of electric dipole spin resonance in a parabolic quantum well. Physical Review B, 2006, 73, .	1.1	34
44	Spin-Orbit Mediated Control of Spin Qubits. Physical Review Letters, 2006, 97, 240501.	2.9	127
45	Magnetoplasmon excitations in quasi-two-dimensional Rashba spintronic systems: Oscillations, resonances, and energy gaps. Physical Review B, 2006, 74, .	1.1	18
46	Effects of non-parabolicity and in-plane magnetic fields on the cyclotron effective mass andg劥-factor in GaAs-(Ga,Al)As quantum wells. Physical Review B, 2006, 73, .	1.1	36
47	Single electron control in n-type semiconductor quantum dots using non-Abelian holonomies generated by spin orbit coupling. Physical Review B, 2006, 73, .	1.1	25
48	Coherent Single Electron Spin Control in a Slanting Zeeman Field. Physical Review Letters, 2006, 96, 047202.	2.9	234
49	Self-similarity and anti-self-similarity of the effective Landég⊥factor inGaAsâ^'(Ga,Al)AsFibonacci superlattices under in-plane magnetic fields. Physical Review B, 2006, 74, .	1.1	17
50	Zero-Magnetic-Field Spin Splitting of Polaron's Ground State Energy Induced by Rashba Spin-Orbit Interaction. Communications in Theoretical Physics, 2006, 46, 761-765.	1.1	10
51	DYNAMIC SPIN TRANSPORT IN NONMAGNETIC SEMICONDUCTOR SYSTEMS. International Journal of Modern Physics B, 2006, 20, 869-895.	1.0	4
52	Spin relaxation of two-dimensional electrons with a hierarchy of spin–orbit couplings. Journal of Physics Condensed Matter, 2007, 19, 346231.	0.7	2
53	Spin relaxation in an InAs quantum dot in the presence of terahertz driving fields. Physical Review B, 2007, 75, .	1.1	12
54	Spin-orbit coupling effects on transport in carbon nanotubes with adatoms. Physical Review B, 2007, 75, .	1.1	12

#	Article	IF	Citations
55	Micromagnets for coherent control of spin-charge qubit in lateral quantum dots. Applied Physics Letters, 2007, 90, 024105.	1.5	54
56	Parametric spin excitations in lateral quantum dots. Physical Review B, 2007, 76, .	1.1	9
57	Universal Toffoli gate in ballistic nanowires. Applied Physics Letters, 2007, 90, 173101.	1.5	3
58	Resonant spin polarization and spin current in a two-dimensional electron gas. Physical Review B, 2007, 75, .	1.1	19
59	Control of many-electron states in semiconductor quantum dots by non-Abelian vector potentials. Physical Review B, 2007, 75, .	1.1	9
60	Exchange-controlled single-electron-spin rotations in quantum dots. Physical Review B, 2007, 75, .	1.1	33
61	Spin-orbit induced spin-qubit control in nanowires. Journal of Physics: Conference Series, 2007, 61, 302-306.	0.3	5
62	Description of spin transport and precession in spin-orbit coupling systems and general equation of continuity. Physical Review B, 2007, 75, .	1.1	7
63	Theory of magnetoplasmon excitations in Rashba spintronic quantum wires: Maxons, rotons, and negative-energy dispersion. Physical Review B, 2007, 76, .	1.1	18
64	Enhancement of the exchange coupling by the spin-orbit interaction on nanotubes. Physical Review B, 2007, 75, .	1.1	0
65	Properties of a Bound Polaron under a Perpendicular Magnetic Field. Communications in Theoretical Physics, 2007, 48, 930-934.	1.1	10
66	Some exact identities connecting one- and two-particle Green's functions in spin–orbit coupling systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 370, 167-172.	0.9	0
67	Relaxation of the electron spin in quantum dots via one- and two-phonon processes. Journal of Magnetism and Magnetic Materials, 2007, 316, e937-e939.	1.0	0
68	Excitation of spin remagnetization waves in systems with spin-orbit coupling. Physics of the Solid State, 2007, 49, 1906-1912.	0.2	1
69	Spin transport through QD with spin–orbital interaction and magnetic field. Physica B: Condensed Matter, 2007, 392, 233-236.	1.3	1
70	Effect of the Dresselhaus spin splitting on the effective Landé g-factor in GaAs–(Ga,Al)As quantum wells under in-plane or growth-direction magnetic fields. Microelectronics Journal, 2008, 39, 390-393.	1.1	1
71	Strain-assisted spin manipulation in a quantum well. European Physical Journal B, 2008, 63, 493-500.	0.6	6
72	Phonon-induced decoherence of spin–orbit-driven coherent oscillations in a single InGaAs quantum dot. Journal of Physics Condensed Matter, 2008, 20, 465207.	0.7	3

#	Article	IF	CITATIONS
73	Spin dynamics in InAs nanowire quantum dots coupled to a transmission line. Physical Review B, 2008, 77, .	1.1	153
74	Spin-dependent shot noise in a two-dimensional electron gas modulated by magnetic barriers and Rashba spin-orbit coupling. Journal of Applied Physics, 2008, 103, 073717.	1.1	6
75	Spin Pumping from Rashba Spin–Orbit-Coupled Electron Systems Driven by Electric Dipole Spin Resonance. Journal of the Physical Society of Japan, 2008, 77, 034707.	0.7	8
76	Spin-dependent tunnelling through an indirect double-barrier structure. Chinese Physics B, 2008, 17, 3438-3443.	0.7	2
77	Ballistic magnetoresistance?. Journal of Physics Condensed Matter, 2008, 20, 083201.	0.7	33
78	Coherent spin dynamics in Permalloy-GaAs hybrids at room temperature. Applied Physics Letters, 2008, 92, 241920.	1.5	3
79	Effect of many-body quantum fluctuations on matrix Berry phases of a two-dimensional n-type semiconductor quantum dot. Journal of Physics Condensed Matter, 2008, 20, 425224.	0.7	1
80	Two-dimensional imaging of the spin-orbit effective magnetic field. Physical Review B, 2008, 77, .	1.1	24
81	Control of electron spin and orbital resonances in quantum dots through spin-orbit interactions. Physical Review B, 2008, 77, .	1.1	18
82	Electrical spin injection and optical detection in InAs based light emitting diodes. Applied Physics Letters, 2008, 93, .	1.5	3
83	Excitonic bright-to-dark transition induced by spin-orbit coupling. Applied Physics Letters, 2008, 92, 012106.	1.5	5
84	Pumped pure spin current and shot noise spectra in a two-level Rashba dot. Applied Physics Letters, 2008, 92, 062109.	1.5	28
85	Electron Landé g factor in GaAs–(Ga,Al)As quantum wells under applied magnetic fields: Effects of Dresselhaus spin splitting. Journal of Applied Physics, 2008, 104, .	1.1	16
86	Kinetics of spin coherence of electrons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi>-type InAs quantum wells under intense terahertz laser fields. Physical Paviaw B, 2008, 78</mml:math 	1.1	13
87	Precession of localized spins in an inhomogeneous magnetic fringe field. Physical Review B, 2008, 77, .	1.1	9
88	Electrical Manipulation of Spins in Nonmagnetic Semiconductors. Journal of the Physical Society of Japan, 2008, 77, 031006.	0.7	8
89	Nonlinear spin-charge dynamics in a driven double quantum dot. Physical Review B, 2009, 79, .	1.1	14
90	Magnetoconfined levels in a parabolic quantum dot: An analytical solution of a three-dimensional Fock–Darwin problem in a tilted magnetic field. Physical Review B. 2009. 80	1.1	7

#	Article	IF	CITATIONS
91	Electric-Field Control of a Hydrogenic Donor's Spin in a Semiconductor. Physical Review Letters, 2009, 102, 017603.	2.9	32
92	Gate control of a quantum dot single-electron spin in realistic confining potentials: Anisotropy effects. Physical Review B, 2009, 79, .	1.1	21
93	Large Rashba splitting in highly asymmetric CdTe/PbTe/PbSrTe quantum well structures. Applied Physics Letters, 2009, 95, .	1.5	26
94	Spin-Orbit Splitting in Semiconductor Quantum Dots with a Two-Dimensional Ring Model. Chinese Physics Letters, 2009, 26, 080305.	1.3	5
95	Ballistic spin resonance. Nature, 2009, 458, 868-871.	13.7	83
96	Symmetry and optical transition rule for low-dimensional semiconductor system with spin–orbit interaction and magnetic field. Superlattices and Microstructures, 2009, 46, 627-636.	1.4	0
97	Rashba spin–orbit coupling effect on a diluted magnetic semiconductor cylinder surface and ballistic transport. Superlattices and Microstructures, 2009, 46, 593-602.	1.4	13
98	Spin relaxation and combined resonance in two-dimensional electron systems with spin-orbit disorder. Physical Review B, 2009, 80, .	1.1	31
99	Energy dispersion of the electrosubbands in parabolic confining quantum wires: interplay of Rashba, Dresselhaus, lateral spin–orbit interaction and the Zeeman effect. Journal of Physics Condensed Matter, 2009, 21, 335501.	0.7	11
100	Quantitative evaluation of spin-orbit interaction in InAs quantum dots. Journal of Physics: Conference Series, 2009, 150, 022084.	0.3	2
101	Optoelectronic manipulation of single spins in semiconductors. Proceedings of SPIE, 2009, , .	0.8	0
102	Pulse-pumped double quantum dot with spin-orbit coupling. Europhysics Letters, 2010, 90, 27010.	0.7	14
103	Spin dynamics in semiconductors. Physics Reports, 2010, 493, 61-236.	10.3	460
104	The Rashba Effect of Polaron in a Parabolic Quantum Dot. Journal of Low Temperature Physics, 2010, 160, 195-200.	0.6	8
105	Coherent Dynamics of Localized Spins in an Inhomogeneous Magnetic Field. Journal of Superconductivity and Novel Magnetism, 2010, 23, 135-137.	0.8	1
106	Gauge theory approach for diffusive and precessional spin dynamics in a two-dimensional electron gas. Annals of Physics, 2010, 325, 1104-1117.	1.0	57
107	Photomagnetic effect caused by the spin–orbit interaction in a 2D system. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 936-939.	1.3	0
108	Two-dimensional electron gas with spin–orbit coupling disorder. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2157-2177.	1.3	98

#	Article	IF	CITATIONS
109	Spin–orbit qubit in a semiconductor nanowire. Nature, 2010, 468, 1084-1087.	13.7	588
110	Influence of Rashba SOI and Polaronic Effects on the Ground-State Energy of Electrons in Semiconductor Quantum Rings. Chinese Physics Letters, 2010, 27, 017201.	1.3	4
111	Features of electron-spin-resonance excitation in impure asymmetric two-dimensional structures. Physical Review B, 2010, 81, .	1.1	7
112	Influence of electromechanical effects and wetting layers on band structures of AlN/GaN quantum dots and spin control. Journal of Applied Physics, 2010, 108, 064330.	1.1	9
113	Strong electron spin-Hall effect by a coherent optical potential. Semiconductor Science and Technology, 2010, 25, 095004.	1.0	0
114	Holonomic quantum computation with electron spins in quantum dots. Physical Review A, 2010, 81, .	1.0	41
115	Electron spin relaxation induced by confined phonons in nanowire-based quantum dots. Journal of Applied Physics, 2010, 108, 063711.	1.1	4
116	Large Anisotropy of the Spin-Orbit Interaction in a Single InAs Self-Assembled Quantum Dot. Physical Review Letters, 2010, 104, 246801.	2.9	71
117	The Ground State Energy of the Electron in Quantum Ring Induced by the Rashba Effects. Applied Mechanics and Materials, 0, 88-89, 321-325.	0.2	0
118	Electrically driven singularity and control of carrier spin of a hybrid quantum well. Physical Review B, 2011, 83, .	1.1	2
119	Spin dephasing and pumping in graphene due to random spin-orbit interaction. Physical Review B, 2011, 83, .	1.1	61
120	Graphene quantum dots for valley-based quantum computing: A feasibility study. Physical Review B, 2011, 84, .	1.1	51
121	Electrically tuned spin–orbit interaction in an InAs self-assembled quantum dot. Nature Nanotechnology, 2011, 6, 511-516.	15.6	71
122	Coherent control of two individual electron spins and influence of hyperfine coupling in a double quantum dot. Journal of Physics: Conference Series, 2011, 334, 012009.	0.3	1
123	The Rashba Effect on the Bound Polaron in a Parabolic Quantum Dot. Journal of Low Temperature Physics, 2011, 163, 53-59.	0.6	23
124	Effect of external magnetic field on thermal entanglement of spin-subband states in a Rashba nanowire. Journal of Nanoparticle Research, 2011, 13, 6069-6073.	0.8	4
125	Pumped double quantum dot with spin-orbit coupling. Nanoscale Research Letters, 2011, 6, 212.	3.1	2
126	Effect of spin-flip scattering on current polarization in an organic spin filter. Organic Electronics, 2011, 12, 1264-1270.	1.4	3

ARTICLE IF CITATIONS # Shubnikov-de Haas-like oscillatory pattern of dc conductivity in a 2-dimensional indium gallium 127 1.1 4 arsenide. Journal of Applied Physics, 2011, 110, 013709. Manipulation of the LandÃ@<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML' display="inline"><mml:mi>g</mml:mi></mml:math>factor in InAs quantum dots through the 1.1 application of anisotropic gate potentials: Exact diagonalization, numerical, and perturbation methods. Physical Review B. 2011, 84. Negative differential resistance in a finite-thickness quasi-two-dimensional electron gas mediated by 129 1.1 5 spin-orbit interactions. Physical Review B, 2011, 83, . Electrically tuned<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>g</mml:mi></mml:mrow></mml:math>tensor in an InAs 1.1 self-assembled quantum dot. Physical Review B, 2011, 84, . Quantum Transport Theory of Direct Current Conductivity in the Presence of Spinâ€"Orbit Interaction. 131 0.8 2 Japanese Journal of Applied Physics, 2012, 51, 053002. Spin manipulation and relaxation in spin-orbit qubits. Physical Review B, 2012, 85, . 1.1 Interplay of spin-orbit coupling and Zeeman splitting in the absorption lineshape of fermions in two 133 1.1 6 dimensions. Physical Review B, 2012, 86, . Spin dynamics in a strongly driven system: Very slow Rabi oscillations. Physical Review B, 2012, 85, . 134 1.1 Out-of-plane equilibrium spin current in a quasi-two-dimensional electron gas under in-plane 135 1.1 5 magnetic field. Physical Review B, 2012, 85, . Fast and Robust Spin Manipulation in a Quantum Dot by Electric Fields. Physical Review Letters, 2012, 109, 206602. Resonant harmonic generation and collective spin rotations in electrically driven quantum dots. 137 1.1 30 Physical Review B, 2012, 86, . Spin resonance in a quantum wire: Anomalous effects of an applied magnetic field. Physical Review B, 138 1.1 2012, 85, . Three-Dimensional Spin Rotations at the Fermi Surface of a Strongly Spin-Orbit Coupled Surface 139 2.9 57 System. Physical Review Letters, 2012, 108, 186801. Spin-Flip Transitions Induced by Time-Dependent Electric Fields in Surfaces with Strong Spin-Orbit 140 Interaction. Physical Review Letters, 2012, 109, 156401. Interplay of Rashba- and Dresselhaus spin-orbit interactions in a quasi-two-dimensional electron gas 141 0.6 14 of a finite thickness under in-plane magnetic field. European Physical Journal B, 2012, 85, 1. Chaotic spin-dependent electron dynamics in a field-driven double dot potential. Physics Letters, 142 Section A: General, Atomic and Solid State Physics, 2012, 377, 69-72. Spin–orbital phase synchronization in the magnetic field-driven electron dynamics in a double-well 143 0.7 0 potential. Journal of Physics Condensed Matter, 2012, 24, 255302. 144 Graphene-based qubits in quantum communications. Physical Review B, 2012, 86, . 1.1

#	Article	IF	CITATIONS
145	Analysis of Spin-Polarized Current Using InSb/AlInSb Resonant Tunneling Diode. IEICE Transactions on Electronics, 2012, E95.C, 871-878.	0.3	0
146	Effects of magnetic field and spin-orbit interaction on energy levels in 1D quantum wire: analytical solution. Optical and Quantum Electronics, 2012, 44, 425-436.	1.5	17
147	Electron g-factor in quantum wire in the presence of Rashba effect and magnetic field. Superlattices and Microstructures, 2012, 51, 194-202.	1.4	22
148	Pressure effect on spin–orbit interaction in a spherical quantum antidot. Indian Journal of Physics, 2013, 87, 229-234.	0.9	4
149	Spin-orbit coupling and spin current in mesoscopic devices. Science China: Physics, Mechanics and Astronomy, 2013, 56, 196-206.	2.0	4
150	Effect of gate-driven spin resonance on the conductance through a one-dimensional quantum wire. Physical Review B, 2013, 88, .	1.1	32
151	Simulations of electric-dipole spin resonance for spin-orbit coupled quantum dots in the Overhauser field: Fractional resonances and selection rules. Physical Review B, 2013, 88, .	1.1	14
152	Position and spin control by dynamical ultrastrong spin-orbit coupling. Physical Review B, 2013, 88, .	1.1	11
153	Spin-flip transitions and departure from the Rashba model in the Au(111) surface. Physical Review B, 2013, 88, .	1.1	12
154	Observation of the intrinsic spin Hall effect in a two-dimensional electron gas. Physical Review B, 2013, 88, .	1.1	33
155	Spin chaos manifestation in a driven quantum billiard with spin-orbit coupling. Physical Review B, 2013, 88, .	1.1	7
156	Optical properties of quantum wires: Rashba effect and external magnetic field. Journal of Luminescence, 2013, 134, 201-207.	1.5	85
157	Rashba spin splitting in quantum nanowires in the presence of hydrogenic donor impurity. Superlattices and Microstructures, 2013, 64, 140-147.	1.4	3
158	Theoretical investigation of the DC conductivity in GaAs by using the projection-reduction method. Journal of the Korean Physical Society, 2013, 62, 365-369.	0.3	0
159	Effect of pressure on spin–orbit interaction in a quantum wire with V-shaped cross section. Solid State Sciences, 2013, 19, 63-68.	1.5	22
160	Simultaneous Spin-Charge Relaxation in Double Quantum Dots. Physical Review Letters, 2013, 110, 196803.	2.9	35
161	Production of metal nanoparticles from aqueous solutions in the arc plasma. Technical Physics, 2013, 58, 1267-1273.	0.2	8
162	Controlling a Nanowire Spin-Orbit Qubit via Electric-Dipole Spin Resonance. Physical Review Letters, 2013, 111, 086805.	2.9	64

		CITATION R	EPORT	
#	Article		IF	Citations
163	Fast Spin-Orbit Qubit in an Indium Antimonide Nanowire. Physical Review Letters, 2013	s, 110, 066806.	2.9	142
164	Precision control of charge coherence in parallel double dot systems through spin-orbit Journal of Chemical Physics, 2013, 139, 064706.	interaction.	1.2	4
165	THz Magneto-photoresponse of an InAs-based quantum point contact in the region of o resonance. Journal of Physics: Conference Series, 2013, 456, 012031.	cyclotron	0.3	5
166	Influence of magnetic field and Rashba spin–orbit coupling on strong-coupling magne quantum disks. International Journal of Modern Physics B, 2014, 28, 1450185.	etopolarons in	1.0	0
167	Rashba Effect on the Effective Mass of the Polaron in a Parabolic Quantum Well. Journa Temperature Physics, 2014, 177, 315-322.	ll of Low	0.6	4
168	Fabrication and characterization of few-hole quantum dots in undoped GaAs/AlGaAs heterostructures. , 2014, , .			0
169	Generation and coherent control of pure spin currents via terahertz pulses. Applied Phy 2014, 104, 162409.	sics Letters,	1.5	2
170	Spin-orbit qubit on a multiferroic insulator in a superconducting resonator. Physical Rev 89, .	view B, 2014,	1.1	9
171	Combined Magneto-Electric Spin Resonance of Impurity Ho Ions in Synthetic Forsterite Magnetic Resonance, 2014, 45, 239-253.	. Applied	0.6	1
172	Decoherence of an electrically driven spin qubit. Physical Review A, 2014, 90, .		1.0	23
173	Applications of Carbon Nanotubes and Graphene in Spin Electronics. , 2014, , 253-278.			3
174	Anisotropic exchange coupling in a nanowire double quantum dot with strong spin-orb Physical Review B, 2014, 90, .	it coupling.	1.1	14
175	Exact Nonadiabatic Holonomic Transformations of Spin-Orbit Qubits. Physical Review L 112, 150402.	etters, 2014,	2.9	28
176	Entanglement of spin-orbit qubits induced by Coulomb interaction. European Physical J 87, 1.	ournal B, 2014,	0.6	1
177	Electrically Driven Spin Resonance in Silicon Carbide Color Centers. Physical Review Let	ters, 2014, 112,	2.9	71
178	Enhanced photogalvanic effect in graphene due to Rashba spin-orbit coupling. Physical 91, .	Review B, 2015,	1.1	22
179	Scaling of decoherence for a system of uncoupled spin qubits. Scientific Reports, 2015,	, 5, 17013.	1.6	3
180	Spin injection in indium arsenide. Frontiers in Physics, 2015, 3, .		1.0	1

#	ARTICLE Two-Dimensional Metallicity with a Large Spin-Orbit Splitting: DFT Calculations of the Atomic, Electronic, and Spin Structures of the Au/Ge(111)- <mml:math< td=""><td>IF</td><td>CITATIONS</td></mml:math<>	IF	CITATIONS
181	stretchy="false">(A—A	nl:msqrt><	mml:mn>3
182	Advances in Condensed Matter Physics, 2015, 2015, 1-10. Indirect control of spin precession by electric field via spin-orbit coupling. European Physical Journal B, 2015, 88, 1.	0.6	1
183	Gate controlled electronic transport in monolayer MoS2 field effect transistor. Journal of Applied Physics, 2015, 117, .	1.1	10
184	Dynamics of a macroscopic spin qubit in spin–orbit coupled Bose–Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 115302.	0.6	16
185	Electric-field-induced interferometric resonance of a one-dimensional spin-orbit-coupled electron. Scientific Reports, 2016, 6, 38851.	1.6	6
186	Hyperfine interaction mediated electric-dipole spin resonance: the role of frequency modulation. Physica Scripta, 2016, 91, 055801.	1.2	3
187	Shaped electric fields for fast optimal manipulation of electron spin and position in a double quantum dot. Physical Review B, 2016, 93, .	1.1	5
188	Optimal geometry of lateral GaAs and Si/SiGe quantum dots for electrical control of spin qubits. Physical Review B, 2016, 93, .	1.1	15
189	Magnetoresistance manipulation and sign reversal in Mn-doped ZnO nanowires. Scientific Reports, 2016, 6, 35036.	1.6	14
190	Enhancement of spin polarization by chaos in graphene quantum dot systems. Physical Review B, 2016, 93, .	1.1	10
191	Axisymmetric All-Carbon Devices with High-Spin Filter Efficiency, Large-Spin Rectifying, and Strong-Spin Negative Differential Resistance Properties. Journal of Physical Chemistry C, 2016, 120, 668-676.	1.5	21
192	Lande g-factor in semiconductor cylinder quantum dots under magnetic fields and spin-orbit interaction. Solid State Communications, 2017, 258, 17-20.	0.9	13
193	Spin-orbit interaction effects on the electronic structure ofÂcoaxial quantum well wires. Superlattices and Microstructures, 2017, 101, 397-404.	1.4	8
194	Spin-valley dynamics of electrically driven ambipolar carbon-nanotube quantum dots. Journal of Physics Condensed Matter, 2017, 29, 285301.	0.7	4
195	Spin resonance and spin fluctuations in a quantum wire. Low Temperature Physics, 2017, 43, 211-231.	0.2	2
196	On-Demand Spin–Orbit Interaction from Which-Layer Tunability in Bilayer Graphene. Nano Letters, 2017, 17, 7003-7008.	4.5	42
197	Spin and tunneling dynamics in an asymmetrical double quantum dot with spin-orbit coupling: Selective spin transport device. Journal of Applied Physics, 2017, 122, .	1.1	5
198	Synergetic effect of spin-orbit coupling and Zeeman splitting on the optical conductivity in the one-dimensional Hubbard model. Physical Review B, 2017, 95, .	1.1	4

ARTICLE IF CITATIONS # Theory of electron spin resonance in one-dimensional topological insulators with spin-orbit 199 1.1 12 couplings: Detection of edge states. Physical Review B, 2017, 96, . Universal behavior of electron <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>g</mml:mi></mml:math> -factors in 1.1 19 semiconductor nanostructures. Physical Review B, 2017, 95, . Energy spectrum, the spin polarization, and the optical selection rules of the Kronig-Penney 201 1.1 6 superlattice model with spin-orbit coupling. Physical Review B, 2018, 97, . Spin Splitter Based on Magnetically Confined Semiconductor Microstructure Modulated by Spin-Orbit 1.2 Coupling. IEEE Journal of the Electron Devices Society, 2018, 6, 227-232. Calculations of spin-polarized Goos–HÃ**¤**chen displacement in magnetically confined GaAs/Al_{<i>x</i>>}Ga_{1â~<i>x</i>>}As nanostructure modulated by spin–orbit couplings. Journal 203 0.7 31 of Physics Condensed Matter, 2018, 30, 145302. Spin-orbit coupling and electric-dipole spin resonance in a nanowire double quantum dot. Scientific Reports, 2018, 8, 2302. 204 1.6 205 Nondegenerate valleys in the half-metallic ferromagnet Fe/WS2. Physical Review B, 2018, 97, . 1.1 2 Electrical tuning of spin splitting in Bi-doped ZnO nanowires. Physical Review B, 2018, 97, . 1.1 206 207 Effect of chaos on two-dimensional spin transport. Physical Review B, 2018, 98, . 1.1 6 Spin and valley control in single and double electrostatic silicene quantum dots. Physical Review B, 208 1.1 2018, 98, . Electrical manipulation of semiconductor spin qubits within the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>g</mml:mi></mml:math> -matrix 209 1.1 40 formalism. Physical Review B, 2018, 98, . Electrically tunable entanglement of an interacting electron pair in a spin-active double quantum dot. 1.1 Physical Review B, 2018, 98, . Thermodynamics of mono-layer quantum wires with spin-orbit interaction. European Physical Journal 211 1.2 15 Plus, 2018, 133, 1. Pauli blockade microscopy of quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 1.3 2018, 104, 22-28. Spin-relaxation anisotropy in a nanowire quantum dot with strong spin-orbit coupling. AIP Advances, 213 2 0.6 2018, 8, 075115. The impacts of the quantum-dot confining potential on the spin-orbit effect. Scientific Reports, 2018, 214 8, 74<u>00</u>. A spin dephasing mechanism mediated by the interplay between the spinâ€"orbit coupling and the 215 asymmetrical confining potential in a semiconductor quantum dot. Journal of Physics Condensed 0.7 9 Mátter, 2018, 30, 395304. Spin Filter Based on Magnetically Confined and Spin-Orbit Coupled GaAs/Al_{<italic>x</ítalic>}Ga_{1–<italic>x</italic>}As 1.6 Heterostructure. IEEE Transactions on Electron Devices, 2018, 65, 3045-3049.

#	Article	IF	CITATIONS
217	Spin transport properties in a non-uniform quantum wire modulated by both Rashba and Dresselhaus spin–orbit couplings. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2868-2875.	0.9	2
218	2D materials for quantum information science. Nature Reviews Materials, 2019, 4, 669-684.	23.3	305
219	Spin Effect of the Bound Magnetopolaron in a Triangular Quantum Well. Journal of Low Temperature Physics, 2019, 197, 379-388.	0.6	6
220	Influence of Rashba Effect on the Bound Magnetopolaron in an Anisotropic Quantum Dot. International Journal of Theoretical Physics, 2019, 58, 3702-3710.	0.5	4
221	Manipulating spin polarization via spin-orbit coupling in a magnetic microstructure constructed on surface of semiconductor heterostructure. Journal of Magnetism and Magnetic Materials, 2019, 491, 165491.	1.0	22
222	Enhancing von Neumann entropy by chaos in spin–orbit entanglement. Chinese Physics B, 2019, 28, 100501.	0.7	4
223	Spin-orbit-coupled quantum memory of a double quantum dot. Physical Review B, 2019, 100, .	1.1	11
224	Rashba effect of the bound magnetopolaron in an asymmetry quantum well. Chinese Journal of Physics, 2019, 61, 283-289.	2.0	1
225	Influence of magnetic field on the properties of polaron in an asymmetric quantum dot. International Journal of Modern Physics B, 2019, 33, 1950263.	1.0	1
226	Spin dynamics of a spin-orbit-coupled Bose-Einstein condensate in a shaken harmonic trap. Physical Review A, 2019, 99, .	1.0	4
227	Spin-polarized Goos-HÃ ¤ chen displacement in a hybrid magnetic-electric-barrier nanostructure modulated by spin-orbit couplings. Vacuum, 2019, 159, 410-413.	1.6	6
228	Spin manipulation and spin dephasing in quantum dot integrated with a slanting magnetic field. Physica Scripta, 2019, 94, 085808.	1.2	3
229	Transport of a persistent spin helix drifting transverse to the spin texture. Physical Review B, 2019, 99,	1.1	11
230	Simple model for electrical hole spin manipulation in semiconductor quantum dots: Impact of dot material and orientation. Physical Review B, 2019, 99, .	1.1	33
231	Electric dipole spin resonance at shallow donors in quantum wires. Physical Review B, 2019, 99, .	1.1	10
232	Influence of spin-orbit and spin-Hall effects on the spin-Seebeck current beyond linear response: A Fokker-Planck approach. Physical Review B, 2019, 99, .	1.1	11
233	Combinations of tunneling and spin-orbit interaction effects on the thermodynamics and entropy of coaxial quantum wires. European Physical Journal Plus, 2019, 134, 1.	1.2	7
234	Strain effect on the spin relaxation rate of a two-dimensional GaAs quantum dot. Indian Journal of Physics, 2019, 93, 361-366.	0.9	2

#	Article	IF	CITATIONS
235	Spin Rotation by Resonant Electric Field in Few-Level Quantum Dots: Floquet Dynamics and Tunneling. Physical Review Applied, 2020, 14, .	1.5	7
236	Dresselhaus spin-orbit coupling induced electron-spin polarization in a 3-layered semiconductor heterostructure. Journal of Magnetism and Magnetic Materials, 2020, 513, 167217.	1.0	9
237	Controlling spin without magnetic fields: The Bloch-Rashba rotator. Physical Review B, 2020, 102, .	1.1	1
238	Circular dichroism in non-chiral metal halide perovskites. Nanoscale, 2020, 12, 18067-18078.	2.8	24
239	Dynamical Zeeman resonance in spin-orbit-coupled spin-1 Bose gases. Physical Review A, 2020, 102, .	1.0	1
240	Nanostructures in structured light: Photoinduced spin and orbital electron dynamics. Physical Review B, 2020, 101, .	1.1	8
241	Spin polarization created by spin-orbit coupling for electrons in a hybrid magnetic-electric-barrier semiconductor microstructure. Vacuum, 2020, 179, 109405.	1.6	6
242	Rashba spin–orbit coupling in two-dimensional systems. , 2020, , 25-64.		2
243	Superconductor–semiconductor hybrid-circuit quantum electrodynamics. Nature Reviews Physics, 2020, 2, 129-140.	11.9	110
244	Rashba spin-orbit coupling induced electron-spin polarization in a realistic 3-layered semiconductor heterostructure. Superlattices and Microstructures, 2020, 143, 106545.	1.4	13
245	Spin-orbit coupling induced spin polarisation in both magnetically and electrically modulated semiconductor heterostructure. Philosophical Magazine Letters, 2020, 100, 213-223.	0.5	0
246	Influence of a magnetic field on Rashba spin–orbit interaction in an anisotropic quantum dot. Indian Journal of Physics, 2021, 95, 1085-1089.	0.9	0
247	Simultaneous Effects of Temperature and Pressure on the Entropy and the Specific Heat of a Three-Dimensional Quantum Wire: Tsallis Formalism. Journal of Low Temperature Physics, 2021, 202, 185-195.	0.6	13
248	Longitudinal and transverse electric field manipulation of hole spin-orbit qubits in one-dimensional channels. Physical Review B, 2021, 103, .	1.1	18
250	Anisotropic <i>g</i> -Factor and Spin–Orbit Field in a Germanium Hut Wire Double Quantum Dot. Nano Letters, 2021, 21, 3835-3842.	4.5	16
251	Manipulating Dresselhaus-spin-orbit-coupling induced electron-spin polarization via δ-doping in 3-layered semiconductor heterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 129, 114646.	1.3	4
252	Low-symmetry nanowire cross-sections for enhanced Dresselhaus spin-orbit interaction. Physical Review B, 2021, 103, .	1.1	3
253	Control of electron-spin polarization via δ-potential in 3-layered semiconductor heterostructure modulated by Rashba spin-orbit coupling. Journal of Magnetism and Magnetic Materials, 2021, 527,	1.0	6

#	Article	IF	CITATIONS
254	Recent progress and challenges in magnetic tunnel junctions with 2D materials for spintronic applications. Applied Physics Reviews, 2021, 8, .	5.5	74
255	Shot noise of spin-polarized electrons in a single-channel magnetic tunnel junctions. Journal of Physics Condensed Matter, 2021, 33, 325304.	0.7	Ο
256	Transparent qubit manipulations with spin-orbit coupled two-electron nanowire quantum dot. Scientific Reports, 2021, 11, 18839.	1.6	2
257	Dephasing of Exchangeâ€Coupled Spins in Quantum Dots for Quantum Computing. Advanced Quantum Technologies, 2021, 4, 2100018.	1.8	4
258	Polarization-induced ultrahigh Rashba spin-orbit interaction in ZnO/CdO quantum well. Nano Energy, 2021, 88, 106310.	8.2	5
260	Electron-Spin Manipulation inÂQuantumÂDotÂSystems. Topics in Applied Physics, 2009, , 15-34.	0.4	2
261	Coherent Spin Dynamics in Nanostructured Semiconductor-Ferromagnet Hybrids. Advances in Solid State Physics, 2009, , 183-195.	0.8	2
262	Transparently manipulating spin–orbit qubit via exact degenerate ground states*. Chinese Physics B, 2020, 29, 083203.	0.7	4
263	Flopping-mode electric dipole spin resonance. Physical Review Research, 2020, 2, .	1.3	26
264	Exciton-Polariton Mediated Universal Quantum Computing. , 2013, , .		1
265	Trace-norm correlation beyond entanglement in InAs nanowire system with spin–orbit interaction and external electric field. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 926.	0.9	9
267	The mechanisms of electric-dipole spin resonance in quasi-one-dimensional semiconductor quantum dot. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 167303.	0.2	3
268	TUNABLE ELECTRON-SPIN POLARIZATION BY δ-POTENTIAL IN LAYERED SEMICONDUCTOR NANOSTRUCTURE. Surface Review and Letters, 2022, 29, .	0.5	0
269	Spin-orbit-coupling induced electron-spin polarization in magnetically and electrically confined semiconductor microstructure. Results in Physics, 2021, 30, 104898.	2.0	2
270	The Phase in a Quantum-Dot Interferometer Modulatedby Rashba Spin-Orbit Interaction. International Journal of Information and Electronics Engineering, 2011, , .	0.2	0
271	Quantum Transport Theory of Direct Current Conductivity in the Presence of Spin–Orbit Interaction. Japanese Journal of Applied Physics, 2012, 51, 053002.	0.8	0
272	Influence of magnetic field and Coulomb field on the Rashba effect in a triangular quantum well. Pramana - Journal of Physics, 2020, 94, 1.	0.9	8
273	1D Kuantum Telin Ortalama Enerjisi ve Öz Isısı. SDU Journal of Science, 0, , 73-79.	0.1	0

	CITATION	Report	
#	Article	IF	CITATIONS
274	Spin Resonance in a Quantum Dot at the Edge of a Topological Insulator with the Inclusion of Continuum States. Journal of Experimental and Theoretical Physics, 2020, 131, 809-822.	0.2	2
275	Influence of Rashba effect and Zeeman effect on properties of bound magnetopolaron in an an an an an an an an an	0.2	7
276	Spin-orbit pumping. Physical Review B, 2022, 105, .	1.1	2
277	Variability of Electron and Hole Spin Qubits Due to Interface Roughness and Charge Traps. Physical Review Applied, 2022, 17, .	1.5	13
278	Ultrafast entanglement switching and singlet–triplet transitions control via structured terahertz pulses. New Journal of Physics, 2022, 24, 043016.	1.2	2
279	Spin manipulation and decoherence in a quantum dot mediated by a synthetic spin–orbit coupling of broken T-symmetry. New Journal of Physics, 2022, 24, 013002.	1.2	0
280	Electrically tunable spin–orbit interaction in an InAs nanosheet. Nanoscale Advances, 2022, 4, 2642-2648.	2.2	1
281	Spin-valley Silin modes in graphene with substrate-induced spin-orbit coupling. Physical Review B, 2022, 105, .	1.1	2
282	Exciton fine structure splitting and linearly polarized emission in strained transition-metal dichalcogenide monolayers. Physical Review B, 2022, 106, .	1.1	8
283	Rashba Spin-Orbit-Coupling Based Electron-Spin Filter in Double-Layered Semiconductor Nanostructure. IEEE Electron Device Letters, 2022, 43, 1645-1648.	2.2	8
284	Coupled superconducting spin qubits with spin-orbit interaction. Physical Review B, 2022, 106, .	1.1	8
285	Cotrolling electron-spin filter via electric field in layered semiconductor nanostructure. Vacuum, 2022, 206, 111541.	1.6	1
286	Controllable spin filtering by \hat{I} -doping for electrons in magnetically and electrically modulated semiconductor nanostructure. Spin, 0, , .	0.6	0
287	Electron-spin polarization effect in Rashba spin-orbit coupling modulated single-layered semiconductor nanostructure. Wuli Xuebao/Acta Physica Sinica, 2023, 72, 028503.	0.2	1
288	Effect of hydrostatic pressure and temperature on the ballistic conductance under the influence of Rashba spin-orbit coupling. Physica B: Condensed Matter, 2023, 648, 414402.	1.3	3
289	Single-spin Landau-Zener-Stückelberg-Majorana interferometry of Zeeman-split states with strong spin-orbit interaction in a double quantum dot. Physical Review B, 2022, 106, .	1.1	4
290	Dynamic electron spin injection in semiconductor nanostructures. Journal of Magnetism and Magnetic Materials, 2023, 565, 170303.	1.0	1
291	Probing details of spin-orbit coupling through Pauli spin blockade. Physical Review B, 2022, 106, .	1.1	2

IF ARTICLE CITATIONS Hole spin manipulation in inhomogeneous and nonseparable electric fields. Physical Review B, 2022, 292 1.1 8 106,. Spin-orbital effect on the polariton state in traps. Physical Review B, 2022, 106, . 1.1 Coherent spin dynamics of excitons in strained monolayer semiconductors. Physical Review B, 2022, 294 1.1 2 106,. Electric-dipole spin resonance and spin orbit coupling effects in odd-integer quantum Hall edge 1.1 channels. Physical Review B, 2023, 107, . Variable and Orbital-Dependent Spin-Orbit Field Orientations in an InSb Double Quantum Dot 296 1.5 7 Characterized via Dispersive Gate Sensing. Physical Review Applied, 2023, 19, . Electron-Spin Filter Based on Dresselhaus Spin-Orbit-Coupling Modulated Single-Layered Semiconductor Nanostructure. IEEE Transactions on Electron Devices, 2023, 70, 1401-1405. 1.6 Combining n-MOS Charge Sensing with p-MOS Silicon Hole Double Quantum Dots in a CMOS platform. 298 4.5 1 Nano Letters, 2023, 23, 1261-1266. Flopping-mode spin qubit in a Si-MOS quantum dot. Applied Physics Letters, 2023, 122, . 1.5 Rashba effect on finite temperature magnetotransport in a dissipative quantum dot transistor with 300 1.6 0 electronic and polaronic interactions. Scientific Reports, 2023, 13, .

CITATION REPORT