

Sergio E Ulloa

List of Publications by Year in descending order

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267
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267
times ranked

3396
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent control of tunneling in a quantum dot molecule. Physical Review B, 2004, 69, .	1.1	221
2	Polarized excitons in nanorings and the optical Aharonov-Bohm effect. Physical Review B, 2002, 66, .	1.1	182
3	All-electric quantum point contact spin-polarizer. Nature Nanotechnology, 2009, 4, 759-764.	15.6	155
4	Mobility edge in aperiodic Kronig-Penney potentials with correlated disorder: Perturbative approach. Physical Review B, 2001, 63, .	1.1	107
5	Magnetic field effects on quantum ring excitons. Physical Review B, 2001, 63, .	1.1	101
6	Spatially Resolved Manipulation of Single Electrons in Quantum Dots Using a Scanned Probe. Physical Review Letters, 2004, 93, 216801.	2.9	101
7	Decoherence of Rabi Oscillations in a Single Quantum Dot. Physical Review Letters, 2005, 94, 057404.	2.9	100
8	Acceptor binding energies in GaN and AlN. Physical Review B, 1998, 58, 3879-3887.	1.1	95
9	Zero-Field Kondo Splitting and Quantum-Critical Transition in Double Quantum Dots. Physical Review Letters, 2006, 97, 096603.	2.9	89
10	Spatially Extended Kondo State in Magnetic Molecules Induced by Interfacial Charge Transfer. Physical Review Letters, 2010, 105, 106601.	2.9	86
11	Selection Rules for Transport Excitation Spectroscopy of Few-Electron Quantum Dots. Physical Review Letters, 1995, 74, 1194-1197.	2.9	83
12	Ballistic transport in a novel one-dimensional superlattice. Physical Review B, 1990, 41, 12350-12353.	1.1	80
13	Magnetic-Field-Dependent Transmission Phase of a Double-Dot System in a Quantum Ring. Physical Review Letters, 2004, 93, 066802.	2.9	76
14	Spin-orbit coupling and intrinsic spin mixing in quantum dots. Physical Review B, 2004, 69, .	1.1	72
15	Structural, electronic, and vibrational properties of diamond (100), (111), and (110) surfaces from ab initio calculations. Physical Review B, 1995, 51, 14669-14685.	1.1	70
16	Phonon modes of diamond (100) surfaces from ab initio calculations. Physical Review B, 1995, 51, 1989-1992.	1.1	63
17	Enhancement of the Kondo Effect through Rashba Spin-Orbit Interactions. Physical Review Letters, 2012, 108, 046601.	2.9	58
18	A chiral molecular propeller designed for unidirectional rotations on a surface. Nature Communications, 2019, 10, 3742.	5.8	58

#	ARTICLE	IF	CITATIONS
19	Impurity effects on the Aharonov-Bohm optical signatures of neutral quantum-ring magnetoexcitons. Physical Review B, 2004, 70, .	1.1	57
20	Rashba spin-orbit interaction and birefringent electron optics in graphene. Physical Review B, 2013, 87, .	1.1	49
21	Extended states in disordered systems: Role of off-diagonal correlations. Physical Review B, 2004, 69, .	1.1	47
22	Selective coherent destruction of tunneling in a quantum-dot array. Physical Review B, 2004, 70, .	1.1	47
23	Geometrical-confinement effects on excitons in quantum disks. Physical Review B, 1995, 52, 9015-9022.	1.1	45
24	Electronic states in a quantum lens. Physical Review B, 2001, 63, .	1.1	44
25	Exciton-induced lattice relaxation and the electronic and vibrational spectra of silicon clusters. Physical Review B, 1996, 53, 8042-8051.	1.1	42
26	Spin-orbit and electronic interactions in narrow-gap quantum dots. Physical Review B, 2004, 70, .	1.1	41
27	First-principles calculations of the structural and electronic properties of the ScN(001) surface. Physical Review B, 2002, 65, .	1.1	40
28	Helicoidal Fields and Spin Polarized Currents in Carbon Nanotubeâ€“DNA Hybrids. Physical Review Letters, 2012, 108, 126601.	2.9	40
29	Emergence of Photoswitchable States in a Grapheneâ€“Azobenzeneâ€“Au Platform. Nano Letters, 2014, 14, 6823-6827.	4.5	40
30	Strain and crystallographic orientation effects on the valence subbands of wurtzite quantum wells. Physical Review B, 2000, 62, 2562-2572.	1.1	39
31	Kondo regime in triangular arrangements of quantum dots: Molecular orbitals, interference, and contact effects. Physical Review B, 2009, 80, .	1.1	38
32	Many-body electronic structure and Kondo properties of cobalt-porphyrin molecules. Physical Review B, 2009, 80, .	1.1	38
33	Spin-Orbit Interaction and Isotropic Electronic Transport in Graphene. Physical Review Letters, 2014, 112, 136602.	2.9	38
34	Hydrocarbon adsorption on a diamond (100) stepped surface. Physical Review B, 1994, 49, 4948-4953.	1.1	37
35	Tunneling and optical control in quantum ring molecules. Physical Review B, 2007, 76, .	1.1	37
36	Polarons with a twist. Physical Review B, 2002, 66, .	1.1	36

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37	Mass inversion in graphene by proximity to dichalcogenide monolayer. <i>Physical Review B</i> , 2016, 94, .	1.1	36
38	Tunable Spin-Polarized Edge Currents in Proximitized Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , 2019, 122, 086401.	2.9	36
39	Molecular-dynamics simulations of methyl-radical deposition on diamond (100) surfaces. <i>Physical Review B</i> , 1993, 48, 12235-12239.	1.1	33
40	Random 1D structures as filters for electrical and optical signals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 695-698.	1.3	33
41	Two-subband quantum Hall effect in parabolic quantum wells. <i>Physical Review B</i> , 2006, 74, .	1.1	33
42	Currents and pseudomagnetic fields in strained graphene rings. <i>Physical Review B</i> , 2013, 87, .	1.1	33
43	Zeeman splitting of shallow donors in GaN. <i>Applied Physics Letters</i> , 1999, 74, 248-250.	1.5	32
44	Anisotropic electronegativity in quantum dots with spin-orbit interaction. <i>Physical Review B</i> , 2005, 71, .	1.1	32
45	Polarization and Aharonov-Bohm oscillations in quantum-ring magnetoexcitons. <i>Physical Review B</i> , 2005, 72, .	1.1	32
46	Lateral heterostructures and one-dimensional interfaces in 2D transition metal dichalcogenides. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 213001.	0.7	32
47	Excitons in quantum-ring structures in a magnetic field: optical properties and persistent currents. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 297-300.	1.3	31
48	Suppression of Kondo screening by the Dicke effect in multiple quantum dots. <i>Physical Review B</i> , 2010, 82, .	1.1	31
49	Depletion regions and electronic surface states in doped semiconductor superlattices. <i>Physical Review B</i> , 1988, 38, 2063-2067.	1.1	30
50	Electronic states and collective excitations of a two-dimensional electron gas in a unidirectional magnetic-field modulation. <i>Physical Review B</i> , 1993, 47, 7182-7186.	1.1	30
51	Ordered Hamiltonian and matching conditions for heterojunctions with wurtzite symmetry: GaN/Al _x Ga _{1-x} N quantum wells. <i>Physical Review B</i> , 1999, 60, 13659-13667.	1.1	30
52	Oscillatory spin relaxation rates in quantum dots. <i>Physical Review B</i> , 2005, 72, .	1.1	29
53	Tunable Pseudogap Kondo Effect and Quantum Phase Transitions in Aharonov-Bohm Interferometers. <i>Physical Review Letters</i> , 2009, 102, 166806.	2.9	29
54	Spin-polarized conductance in double quantum dots: Interplay of Kondo, Zeeman, and interference effects. <i>Physical Review B</i> , 2013, 87, .	1.1	29

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55	Edge states in dichalcogenide nanoribbons and triangular quantum dots. <i>Physical Review B</i> , 2016, 93, .	1.1	29
56	Landau level mixing by full spin-orbit interactions. <i>Physical Review B</i> , 2005, 72, .	1.1	28
57	Coherent control of indirect excitonic qubits in optically driven quantum dot molecules. <i>Physical Review B</i> , 2010, 82, .	1.1	28
58	Lateral interfaces of transition metal dichalcogenides: A stable tunable one-dimensional physics platform. <i>Physical Review B</i> , 2019, 99, .	1.1	28
59	Multiple branches of acoustic plasma oscillations in thin wires. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, L995-L1003.	1.5	27
60	Interaction potential between dynamic dipoles: Polarized excitons in strong magnetic fields. <i>Physical Review B</i> , 2001, 64, .	1.1	27
61	Level structure and spin-orbit effects in quasi-one-dimensional semiconductor nanostructures. <i>Physical Review B</i> , 2005, 71, .	1.1	27
62	Spin Hall effect in two-dimensional p-type semiconductors in a magnetic field. <i>Physical Review B</i> , 2006, 73, .	1.1	27
63	Symmetry-breaking effects on spin and electronic transport in graphene. <i>Physical Review B</i> , 2015, 91, .	1.1	27
64	Thermoelectric transport through Majorana bound states and violation of Wiedemann-Franz law. <i>Physical Review B</i> , 2016, 94, .	1.1	27
65	Lateral spin-orbit interaction and spin polarization in quantum point contacts. <i>Physical Review B</i> , 2010, 81, .	1.1	26
66	Influence of Rashba spin-orbit coupling on the Kondo effect. <i>Physical Review B</i> , 2016, 93, .	1.1	26
67	Finite-temperature conductance signatures of quantum criticality in double quantum dots. <i>Physical Review B</i> , 2008, 78, .	1.1	25
68	Kondo effect in graphene with Rashba spin-orbit coupling. <i>Physical Review B</i> , 2014, 90, .	1.1	25
69	Localized states in a strong magnetic field: Resonant scattering and the Dicke effect. <i>Physical Review B</i> , 1998, 57, 6642-6653.	1.1	23
70	Interchain coupling induced localization/delocalization in coupled one-dimensional ordered and disordered chains. <i>Physical Review B</i> , 2010, 81, .	1.1	23
71	Proximity-induced topological phases in bilayer graphene. <i>Physical Review B</i> , 2018, 97, .	1.1	23
72	First-principles studies of hydrogenated Si(111)-7 \times 7. <i>Physical Review B</i> , 1996, 54, 8028-8032.	1.1	22

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73	Resonant Raman scattering in self-assembled quantum dots. Physical Review B, 1999, 60, 16747-16757.	1.1	22
74	Magnetic-field and quantum confinement asymmetry effects on excitons. Physical Review B, 2000, 61, 2128-2137.	1.1	22
75	Bipolar spin filter in a quantum dot molecule. Applied Physics Letters, 2006, 88, 093118.	1.5	22
76	Kondo screening suppression by spin-orbit interaction in quantum dots. Physical Review B, 2009, 80, .	1.1	22
77	Spin polarization control via magnetic barriers and spin-orbit effects. Physical Review B, 2008, 78, .	1.1	21
78	RKKY interaction and intervalley processes in p -doped transition-metal dichalcogenides. Physical Review B, 2014, 90, .	1.1	21
79	Tunable exciton relaxation in vertically coupled semiconductor InAs quantum dots. Physical Review B, 2011, 84, .	1.1	20
80	Topological phases and twisting of graphene on a dichalcogenide monolayer. Physical Review B, 2018, 98, .	1.1	20
81	Nonperturbative electron dynamics in crossed fields. Physical Review B, 2002, 66, .	1.1	18
82	Dynamic polarization tunneling: A spin filtering mechanism. Physical Review B, 2005, 72, .	1.1	18
83	Plasmon excitations in a two-dimensional electron gas with spin-orbit interactions: Zero magnetic field. Physical Review B, 2006, 73, .	1.1	18
84	Exchange interaction and tunneling-induced transparency in coupled quantum dots. Physical Review B, 2014, 90, .	1.1	18
85	Hybridization and anisotropy in the exchange interaction in three-dimensional Dirac semimetals. Physical Review B, 2016, 93, .	1.1	18
86	Electronic levels and collective excitations in a two-dimensional system with a spatial magnetic field modulation. Solid State Communications, 1992, 82, 945-949.	0.9	17
87	Collective excitations of a two-dimensional electron gas in a two-dimensional magnetic-field modulation. Physical Review B, 1993, 47, 10028-10031.	1.1	17
88	Dielectric function and collective modes of two-dimensional interacting bosons. Physical Review B, 1994, 50, 8715-8721.	1.1	17
89	Dynamics of two interacting particles in classical billiards. Physical Review E, 1997, 55, R6319-R6322.	0.8	17
90	Quantum dynamics, dissipation, and asymmetry effects in quantum dot arrays. Physical Review B, 2002, 66, .	1.1	17

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91	Structural and dynamical disorder and charge transport in DNA. <i>Microelectronics Journal</i> , 2004, 35, 23-26.	1.1	17
92	Symmetries and hybridization in the indirect interaction between magnetic moments in MoS_2 . <i>Physical Review B</i> , 2016, 94, .	1.1	16
93	Nonlinear theory of domain walls and the anomalies of intercalation kinetics. <i>Physical Review Letters</i> , 1985, 55, 218-221.	2.9	16
94	Nonlinear transport in ballistic quantum chains. <i>Physical Review B</i> , 1990, 42, 3753-3756.	1.1	16
95	Infrared-active excitations in tunneling superlattices and d-parameter theory. <i>Physical Review B</i> , 1991, 43, 9865-9878.	1.1	16
96	Potential landscapes and induced charges near metallic islands in three dimensions. <i>Physical Review E</i> , 2003, 68, 056707.	0.8	16
97	Anomalous Kondo resonance mediated by semiconducting graphene nanoribbons in a molecular heterostructure. <i>Nature Communications</i> , 2017, 8, 946.	5.8	16
98	Minimal geometry for valley filtering in graphene. <i>Physical Review B</i> , 2017, 96, .	1.1	16
99	Kondo regime of a quantum dot molecule: A finite- slave boson approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 34, 608-611.	1.3	15
100	ac-field-controlled localization-delocalization transition in a one-dimensional disordered system. <i>Physical Review B</i> , 2006, 74, .	1.1	15
101	Novel Electron Tunneling Behavior at Staging Dislocations and the Residual Resistance of Graphite Intercalation Compounds. <i>Physical Review Letters</i> , 1986, 56, 2537-2540.	2.9	14
102	Coulomb drag in mesoscopic rings. <i>Physical Review B</i> , 1997, 55, 13702-13706.	1.1	14
103	Correlation and symmetry effects in transport through an artificial molecule. <i>Physical Review B</i> , 1999, 59, 5717-5727.	1.1	14
104	Magnetoexcitons in quantum-ring structures: a novel magnetic interference effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 12, 790-793.	1.3	14
105	Extended coherent exciton states in quantum dot arrays. <i>Applied Physics Letters</i> , 2006, 88, 043110.	1.5	14
106	Spin-orbit coupling and the singlet-triplet transition in lateral double quantum dots. <i>Physical Review B</i> , 2008, 78, .	1.1	14
107	Signatures of quantum phase transitions in parallel quantum dots: Crossover from local moment to underscreened spin-1 Kondo physics. <i>Physical Review B</i> , 2012, 85, .	1.1	14
108	Noncollinear exchange interaction in transition metal dichalcogenide edges. <i>Physical Review B</i> , 2016, 93, .	1.1	14

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109	Anisotropic optical response of the diamond (111)-2Å ⁻¹ surface. Physical Review B, 1996, 53, 13138-13145.	1.1	13
110	First-principles calculations of optical properties: Application to silicon clusters. Physical Review B, 1997, 56, 9719-9725.	1.1	13
111	Charge transport in DNA molecules: Cooperative interplay between the disordered base-pair channel and the ordered backbone. Physical Review E, 2009, 80, 051901.	0.8	13
112	Nonlinear theory of domain walls and domain effective interactions in intercalation compounds. Physical Review B, 1986, 33, 1360-1371.	1.1	12
113	Electron-phonon interaction in double-barrier resonant tunneling. Physical Review B, 1991, 44, 13148-13151.	1.1	12
114	Level statistics and interactions in a two-dimensional quantum dot. Superlattices and Microstructures, 1997, 21, 21-28.	1.4	12
115	Spin relaxation rates in quasi-one-dimensional coupled quantum dots. Physical Review B, 2006, 74, .	1.1	12
116	Spin polarized photocurrent from quantum dots. Physical Review B, 2007, 75, .	1.1	12
117	Novel Surface States and the Quantum Hall Effect in an Anisotropic Three-Dimensional System. Physical Review Letters, 1986, 57, 2991-2994.	2.9	11
118	Resonant Scattering in a Strong Magnetic Field: Exact Density of States. Physical Review Letters, 1997, 79, 3478-3481.	2.9	11
119	First energy-transfer signatures in optically driven quantum dot molecules. Physical Review B, 2009, 79, .	1.1	11
120	Dynamical magnetic anisotropy and quantum phase transitions in a vibrating spin-1 molecular junction. Physical Review B, 2012, 86, .	1.1	11
121	Strain fields and electronic structure of antiferromagnetic CrN. Physical Review B, 2017, 96, .	1.1	11
122	Conductance oscillations due to a controllable impurity in a quantum box. Journal of Applied Physics, 1994, 76, 4676-4681.	1.1	10
123	Electron interactions, classical integrability, and level statistics in quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 1997, 1, 274-280.	1.3	10
124	Conductance and Kondo Interference beyond Proportional Coupling. Physical Review Letters, 2017, 119, 116801.	2.9	10
125	Detecting coupling of Majorana bound states with an Aharonov-Bohm interferometer. Journal of Physics Condensed Matter, 2018, 30, 045301.	0.7	10
126	Long range of indirect exchange interaction on the edges of MoS ₂ flakes. Journal of Physics Condensed Matter, 2018, 30, 045801.	0.7	10

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127	Negative differential resistance observed on the charge density wave of a transition metal dichalcogenide. <i>Nanoscale</i> , 2019, 11, 22351-22358.	2.8	10
128	Electronic structure of staging dislocations, electron scattering states, and the residual resistance of graphite intercalation compounds. <i>Physical Review B</i> , 1987, 35, 795-805.	1.1	9
129	Wannier states and optical transitions in a $\tilde{A}1\tilde{A}1$ diatomic $\tilde{A}1\tilde{A}1$ semiconductor superlattice. <i>Journal of Applied Physics</i> , 1995, 78, 2541-2546.	1.1	9
130	Structure of diamond(100) stepped surfaces from ab initio calculations. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 641-647.	0.7	9
131	Kondo and mixed-valence regimes in multilevel quantum dots. <i>Physical Review B</i> , 2001, 63, .	1.1	9
132	Coherent state monitoring in quantum dots. <i>Physical Review B</i> , 2004, 70, .	1.1	9
133	Multichannel field-effect spin-barrier selector: Spin-carrier dynamics under full spin-orbit coupling. <i>Physical Review B</i> , 2005, 72, .	1.1	9
134	Dias da Silva <i>et al.</i> Reply. <i>Physical Review Letters</i> , 2007, 99, .	2.9	9
135	Berry phase and Rashba fields in quantum rings in tilted magnetic field. <i>Physical Review B</i> , 2015, 92, .	1.1	9
136	Electronic modes and infrared optical excitation in tunneling superlattices. <i>Physical Review B</i> , 1990, 41, 5467-5470.	1.1	8
137	Collective modes in tunneling quantum-dot arrays. <i>Physical Review B</i> , 1993, 48, 11987-11990.	1.1	8
138	Far-infrared absorption in parallel quantum wires with weak tunneling. <i>Physical Review B</i> , 1996, 54, 16749-16756.	1.1	8
139	Dynamic behavior of asymmetric quantum dot cells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 428-431.	1.3	8
140	Local-basis quasiparticle calculations and the dielectric response function of Si clusters. <i>Physical Review B</i> , 2000, 61, 2626-2631.	1.1	8
141	Electronic states in a cylindrical quantum lens: Quantum chaos for decreasing system symmetry. <i>Physical Review E</i> , 2001, 64, 056237.	0.8	8
142	Charge qubits and limitations of electrostatic quantum gates. <i>Physical Review A</i> , 2004, 70, .	1.0	8
143	Energetics and electronic structure of native point defects in antiferromagnetic CrN. <i>Physical Review B</i> , 2018, 98, .	1.1	8
144	Sublattice symmetry breaking and Kondo-effect enhancement in strained graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	8

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145	Study of the correlated walks with reflecting walls. Journal of Chemical Physics, 1982, 76, 601-608.	1.2	7
146	Wavelength-dependent dielectric function of a thin semiconductor film. Journal of Physics C: Solid State Physics, 1984, 17, 2239-2247.	1.5	7
147	Frequency-dependent magnetotransport and particle dynamics in magnetic modulation systems. Physical Review B, 1999, 59, 2824-2832.	1.1	7
148	Holstein polarons in a strong electric field: Delocalized and stretched states. Physical Review B, 2002, 66, .	1.1	7
149	Modeling of Transport Through Submicron Semiconductor Structures: A Direct Solution to the Coupled Poisson-Boltzmann Equations. Journal of Computational Electronics, 2004, 3, 215-219.	1.3	7
150	Charge-density excitations in a quasi-one-dimensional electron gas with spin-orbit interactions: Zero magnetic field. Physical Review B, 2006, 73, .	1.1	7
151	Tunability of qubit Coulomb interaction: Numerical analysis of top-gate depletion in two-dimensional electron systems. Physical Review B, 2006, 74, .	1.1	7
152	Crossover from diffusive to quasi-ballistic transport. Journal of Applied Physics, 2007, 101, 033711.	1.1	7
153	Spatial correlations in chaotic nanoscale systems with spin-orbit coupling. Physical Review B, 2011, 84, .	1.1	7
154	Quantum Manipulation via Atomic-Scale Magnetoelectric Effects. Nano Letters, 2012, 12, 13-16.	4.5	7
155	Capacitive interactions and Kondo effect tuning in double quantum impurity systems. Physical Review B, 2014, 90, .	1.1	7
156	Reversible edge spin currents in antiferromagnetically proximitized dichalcogenides. Physical Review B, 2020, 101, .	1.1	7
157	Surface superlattice in Ag-intercalatedTaS ₂ . Physical Review B, 1992, 45, 14415-14418.	1.1	6
158	Collective excitations and inelastic electron scattering in semiconductor superlattices. Physical Review B, 1993, 48, 14407-14415.	1.1	6
159	Size dependence of the optical properties of silicon clusters. Superlattices and Microstructures, 1996, 20, 405-410.	1.4	6
160	The remote plasmon polaron. Europhysics Letters, 1999, 45, 235-241.	0.7	6
161	Lateral superlattices on parabolic quantum wells. Physical Review B, 2002, 66, .	1.1	6
162	Magnetic Field and Dissipation Effects on the Charge Polarization in Quantum Cellular Automata. IEEE Nanotechnology Magazine, 2004, 3, 37-41.	1.1	6

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163	AC-Stark effect in a semi-spherical quantum dot. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 1820-1823.	0.7	6
164	Miniband-gap optical excitations in doped semiconductor superlattices. <i>Solid State Communications</i> , 1989, 71, 643-647.	0.9	5
165	Surface resonant levels in semiconductor superlattices. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 7137-7142.	0.7	5
166	Electroconductance oscillations and quantum interference in ballistic nanostructures. <i>Physical Review B</i> , 1993, 47, 9948-9951.	1.1	5
167	Collective electronic excitations in C ₆₀ crystals. <i>Physical Review B</i> , 1994, 49, 7825-7828.	1.1	5
168	Charging effects and increasing transparency in double-barrier structures. <i>Physical Review B</i> , 1995, 51, 10875-10879.	1.1	5
169	Selection rules for spectroscopy of quantum dots. , 1996, , 65-80.		5
170	Coulomb effects in artificial molecules. <i>Superlattices and Microstructures</i> , 1996, 20, 523-529.	1.4	5
171	The remote Wigner polaron in a two-dimensional electron system. <i>Europhysics Letters</i> , 1997, 40, 551-556.	0.7	5
172	Simulation of hyperthermal deposition of Si and C on SiC surfaces. <i>Applied Physics Letters</i> , 1999, 74, 55-57.	1.5	5
173	Transport signatures of correlated disorder in a two-dimensional electron gas. <i>Europhysics Letters</i> , 2003, 61, 674-680.	0.7	5
174	Local density of states in parabolic quantum corrals. <i>Physical Review B</i> , 2004, 69, .	1.1	5
175	Spin-orbit effects on two-electron states in nanowhisker double quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1577-1582.	1.3	5
176	Oscillatory acoustic phonon relaxation of excitons in quantum dot molecules. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, A146.	0.9	5
177	Quantum phase transitions into Kondo states in bilayer graphene. <i>Physical Review B</i> , 2014, 89, .	1.1	5
178	Electronic states of doped semiconductor superlattices in magnetic and electric fields. <i>Physical Review B</i> , 1988, 37, 8337-8345.	1.1	4
179	Superconductivity in slender structures. <i>Superconductor Science and Technology</i> , 1989, 1, 352-359.	1.8	4
180	Quantum electronic interferometer without a potential barrier. <i>Journal of Applied Physics</i> , 1993, 74, 5892-5894.	1.1	4

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181	Electronic correlations and the non-linear conductance of quantum dots. Superlattices and Microstructures, 1994, 15, 269.	1.4	4
182	Effect of interactions on the integrability and level statistics of two particles in an infinite quantum well. Physica B: Condensed Matter, 1998, 249-251, 224-227.	1.3	4
183	Quasi-one-dimensional excitons in lateral surface-induced superlattices. Physical Review B, 2000, 61, 13099-13103.	1.1	4
184	Coulomb coupling and the role of symmetries in quantum-dot arrays for cellular automata. Physical Review B, 2000, 62, 1912-1920.	1.1	4
185	Quasiballistic, nonequilibrium electron distribution in inhomogeneous semiconductor structures. Applied Physics Letters, 2005, 86, 253103.	1.5	4
186	Impurity effects in the optical absorption of quantum rings. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 37-40.	1.3	4
187	Spin polarization control in semiconductors by electric-field gradients. Physical Review B, 2006, 74, .	1.1	4
188	A theoretical study of an amorphous aluminium oxide layer used as a tunnel barrier in a magnetic tunnel junction. Physica Status Solidi (B): Basic Research, 2007, 244, 4427-4430.	0.7	4
189	Transmission in double quantum dots in the Kondo regime: Quantum-critical transitions and interference effects. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1002-1005.	1.3	4
190	Magnetic-field-induced mixed-level Kondo effect in two-level systems. Physical Review B, 2016, 94, .	1.1	4
191	Single-atom gating and magnetic interactions in quantum corrals. Physical Review B, 2017, 95, .	1.1	4
192	Photomodulation of transport in monolayer dichalcogenides. Physical Review B, 2018, 98, .	1.1	4
193	Spin-orbit interaction and controlled singlet-triplet dynamics in silicon double quantum dots. Journal of Physics Condensed Matter, 2018, 30, 295301.	0.7	4
194	Inducing chiral superconductivity on honeycomb lattice systems. Journal of Physics Condensed Matter, 2022, 34, 205403.	0.7	4
195	Alternative form of the hydrogenic wave functions for an extended, uniformly charged nucleus. American Journal of Physics, 1980, 48, 949-953.	0.3	3
196	Delocalization of Wannier-Stark ladders by phonons: Tunneling and stretched polarons. Europhysics Letters, 2002, 58, 857-863.	0.7	3
197	Spin polarized photocurrent from a single quantum dot. AIP Conference Proceedings, 2005, , .	0.3	3
198	Spin injection and accumulation in inhomogeneous semiconductors. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 412-415.	1.3	3

#	ARTICLE	IF	CITATIONS
199	Spin filtering in nanowire directional coupler. Europhysics Letters, 2014, 106, 17002.	0.7	3
200	Spin-orbit signatures in the dynamics of singlet-triplet qubits in double quantum dots. Physical Review B, 2017, 95, .	1.1	3
201	Electron scattering in two-dimensional semiconductors: Contrasting massive Dirac and Schrödinger behavior. Physical Review B, 2018, 98, .	1.1	3
202	<title>Novel mesoscopic superlattice in a ballistic constriction</title>. , 1990, 1284, 57.		2
203	Raman scattering and collective excitations in doped tunneling semiconductor superlattices. Physical Review B, 1993, 47, 6799-6802.	1.1	2
204	Reply to "Comment on "Electroconductance oscillations and quantum interference in ballistic nanostructures". Physical Review B, 1994, 49, 16803-16804.	1.1	2
205	Excitons confined by split-gate potentials. Physical Review B, 1994, 49, 7573-7576.	1.1	2
206	Acceptor Binding Energies in GaN and AlN. Materials Research Society Symposia Proceedings, 1997, 482, 67.	0.1	2
207	Frequency-dependent magnetotransport in a two-dimensional magnetic modulation system. Physica B: Condensed Matter, 1998, 249-251, 339-342.	1.3	2
208	Resonant Raman Scattering in Asymmetric Semiconductor Quantum Disks. Physica Status Solidi (B): Basic Research, 1999, 215, 459-463.	0.7	2
209	Kondo effect in a two-level quantum dot coupled to an external fermionic reservoir. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 819-822.	1.3	2
210	Aharonov-Bohm phase as quantum gate in two-electron charge qubits. Physical Review B, 2004, 70, .	1.1	2
211	Spin carrier dynamics under full spin-orbit coupling. Microelectronics Journal, 2005, 36, 480-483.	1.1	2
212	Damping of coherent oscillations in a quantum dot photodiode. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 337-341.	1.3	2
213	Spin Filter Effect in a Parallel Double Quantum Dot. Journal of Superconductivity and Novel Magnetism, 2005, 18, 233-239.	0.5	2
214	Spin and charge polarization in quantum dot arrays. Physica Status Solidi (B): Basic Research, 2005, 242, 1214-1218.	0.7	2
215	Phonon Rabi-assisted tunneling in diatomic molecules. Physical Review B, 2005, 72, .	1.1	2
216	Photocurrent and spin manipulation in quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 333-335.	1.3	2

#	ARTICLE	IF	CITATIONS
217	Phonon-assisted tunneling regimes in diatomic molecules. <i>Physical Review B</i> , 2007, 76, .	1.1	2
218	First signatures and qubits in optically driven quantum dot molecules. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1481-1483.	1.3	2
219	Quantitative study of spin-flip cotunneling transport in a quantum dot. <i>Physical Review B</i> , 2012, 86, .	1.1	2
220	Superconducting pairing symmetry and spin-orbit coupling in proximitized graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	2
221	Competing interactions and spin-vector chirality in spin chains. <i>Physical Review B</i> , 2020, 102, .	1.1	2
222	Spin relaxation and g-factor manipulation in quantum dots. <i>Brazilian Journal of Physics</i> , 2006, 36, 443-446.	0.7	2
223	Surface resonances, tunneling and optical response of doped superlattices. <i>Surface Science</i> , 1990, 228, 422-425.	0.8	1
224	Single-particle and collective excitations of doped superlattices and d-parameter theory. <i>Surface Science</i> , 1990, 229, 415-418.	0.8	1
225	Optical Signature of the GaN (1010) Surface. <i>Materials Research Society Symposia Proceedings</i> , 1996, 449, 911.	0.1	1
226	Electronic states and tunneling times in coupled self-assembled quantum dots. <i>Superlattices and Microstructures</i> , 2001, 30, 279-285.	1.4	1
227	Nanoscience in Latin America. <i>Journal of Nanoparticle Research</i> , 2002, 4, 175-177.	0.8	1
228	Photocurrent oscillations in a quantum dot photodiode. <i>Solid State Communications</i> , 2005, 134, 33-35.	0.9	1
229	Symmetries and anisotropies of the electronic states within full spin-orbit coupling. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 1788-1792.	0.7	1
230	Spatially resolved manipulation of single electrons in quantum dots using a scanned probe. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
231	Tuning hole mobility in InP nanowires. <i>Applied Physics Letters</i> , 2012, 101, 182104.	1.5	1
232	Spin-orbit coupling and the static polarizability of single-wall carbon nanotubes. <i>Journal of Applied Physics</i> , 2014, 116, 024304.	1.1	1
233	Magnetic susceptibility of a two-dimensional electron gas in the quantum strong magnetic field limit. <i>Solid State Communications</i> , 1982, 41, 763-764.	0.9	0
234	Charge profiles of the staging walls in graphite intercalation compounds. <i>Solid State Communications</i> , 1986, 60, 31-34.	0.9	0

#	ARTICLE	IF	CITATIONS
235	STM study of CuCl ₂ intercalated in graphite. Ultramicroscopy, 1992, 42-44, 679-682.	0.8	0
236	Electronic states and collective excitations of a two-dimensional electron gas in spatially modulated magnetic fields. Surface Science, 1994, 305, 428-433.	0.8	0
237	Local Basis Gw Calculations and the Dielectric Response of Si and C Clusters. Materials Research Society Symposia Proceedings, 1999, 579, 97.	0.1	0
238	Electronic States of Self-Assembled Quantum Dots: Symmetries in a Quantum Lens. Materials Research Society Symposia Proceedings, 1999, 579, 129.	0.1	0
239	Decoherence Effects in Arrays of Coupled Quantum Dots. Materials Research Society Symposia Proceedings, 2000, 642, 1121.	0.1	0
240	Quantum Dot Cell Coupled to a Single Mode Quantum Cavity. Materials Research Society Symposia Proceedings, 2000, 642, 311.	0.1	0
241	Anomalous quantum Hall conductivity and resonances in coupled layers. Europhysics Letters, 2000, 49, 362-368.	0.7	0
242	Preface: phys. stat. sol. (b) 230/2/2002. Physica Status Solidi (B): Basic Research, 2002, 230, 307-308.	0.7	0
243	Transport signatures for correlated disorder in self-assembled InAs quantum dots on GaAs. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 591-594.	1.3	0
244	Electron dynamics in quantum wells under tilted magnetic field and intense AC field. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 157-158.	1.3	0
245	Spin-orbit coupling and magnetic spin states in cylindrical quantum dots. Materials Research Society Symposia Proceedings, 2004, 825, G4.6.1.	0.1	0
246	Charge qubits and limitations of electrostatic quantum gates. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 342-346.	1.3	0
247	Dynamics of quantum dot clusters and state monitoring. AIP Conference Proceedings, 2005, , .	0.3	0
248	Intrinsic & phonon-induced spin relaxation in quantum dots. AIP Conference Proceedings, 2005, , .	0.3	0
249	Coherent control of tunneling in a quantum dot array. AIP Conference Proceedings, 2005, , .	0.3	0
250	Decoherence of Charge Qubit Systems. AIP Conference Proceedings, 2005, , .	0.3	0
251	Strong spin relaxation length dependence on electric field gradients. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4259-4262.	0.8	0
252	The Effect of the Geometrical Shape and Size of the Cross Section on the Spin-Polarized Transport and the Giant Magnetoresistance : Finite Element Method Analysis. Solid State Phenomena, 2007, 124-126, 843-846.	0.3	0

#	ARTICLE	IF	CITATIONS
253	Finite-element method study for the spin-polarized transport in a hybrid spin valve. Journal of Magnetism and Magnetic Materials, 2007, 310, 1889-1891.	1.0	0
254	Preface: phys. stat. sol. (c) 4/11. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4047-4047.	0.8	0
255	Terahertz fields and the dynamical control of spin in quantum dot molecules. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1226-1228.	1.3	0
256	A theoretical study of a spin polarized transport and giant magnetoresistance: The effect of the number of layers in a magnetic multilayer. Journal of Applied Physics, 2008, 103, 083903.	1.1	0
257	Multilevel system in ac-driven fields: Symmetries and dynamics in a self-assembled quantum lens. Physical Review B, 2008, 77, .	1.1	0
258	Eigenstate symmetries and information transfer in parabolic quantum reflectors. Physical Review B, 2009, 79, .	1.1	0
259	First Resonant Energy Transfer Signatures in Optically Driven Quantum Dot Molecules. Lecture Notes in Nanoscale Science and Technology, 2014, , 333-353.	0.4	0
260	Sharing Quantum States. Physics Magazine, 2015, 8, .	0.1	0
261	Two-subband quantum Hall effect in parabolic quantum wells. AIP Conference Proceedings, 2007, , .	0.3	0
262	Lateral Periodicity and Confinement. , 1989, , 55-145.		0
263	Few Electron Quantum Dots: Correlations and Collective Response. , 1995, , 289-296.		0
264	Procesos cuánticos en islas semiconductoras: manipulación óptica y control de estados coherentes. Mundo Nano Revista Interdisciplinaria En Nanociencia Y Nanotecnología, 2015, 2, .	0.1	0