John Schliemann

List of Publications by Year in descending order

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117625 102487 4,323 73 34 citations h-index papers

g-index 73 73 73 3013 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	Nonballistic Spin-Field-Effect Transistor. Physical Review Letters, 2003, 90, 146801.	7.8	763
2	Quantum correlations in two-fermion systems. Physical Review A, 2001, 64, .	2.5	323
3	Zitterbewegungof Electronic Wave Packets in III-V Zinc-Blende Semiconductor Quantum Wells. Physical Review Letters, 2005, 94, 206801.	7.8	204
4	Electron spin dynamics in quantum dots and related nanostructures due to hyperfine interaction with nuclei. Journal of Physics Condensed Matter, 2003, 15, R1809-R1833.	1.8	198
5	Anisotropic transport in a two-dimensional electron gas in the presence of spin-orbit coupling. Physical Review B, 2003, 68, .	3.2	182
6	Dissipation effects in spin-Hall transport of electrons and holes. Physical Review B, 2004, 69, .	3.2	132
7	<i>Colloquium</i> : Persistent spin textures in semiconductor nanostructures. Reviews of Modern Physics, 2017, 89, .	45.6	130
8	Spin-Hall transport of heavy holes in III-V semiconductor quantum wells. Physical Review B, 2005, 71, .	3.2	124
9	Spin-Orbit Interaction in Symmetric Wells with Two Subbands. Physical Review Letters, 2007, 99, 076603.	7.8	111
10	Monte Carlo study of ferromagnetism in (III,Mn)V semiconductors. Physical Review B, 2001, 64, .	3.2	110
11	Plasmons and screening in a monolayer of MoS <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> . Physical Review B, 2013, 88, .	3.2	106
12	Spin decay and quantum parallelism. Physical Review B, 2002, 66, .	3.2	105
13	Minimum Electrical and Thermal Conductivity of Graphene: A Quasiclassical Approach. Physical Review Letters, 2007, 99, 216602.	7.8	95
14	Strong Correlation to Weak Correlation Phase Transition in Bilayer Quantum Hall Systems. Physical Review Letters, 2001, 86, 1849-1852.	7.8	86
15	SPIN HALL EFFECT. International Journal of Modern Physics B, 2006, 20, 1015-1036.	2.0	84
16	Anisotropic current-induced spin accumulation in the two-dimensional electron gas with spin-orbit coupling. Physical Review B, 2007, 75, .	3.2	82
17	Zitterbewegungof electrons and holes in III–V semiconductor quantum wells. Physical Review B, 2006, 73, .	3.2	81
18	Limits on the Curie temperature of (III,Mn)V ferromagnetic semiconductors. Applied Physics Letters, 2001, 78, 1550-1552.	3.3	75

#	Article	lF	Citations
19	Spin susceptibilities, spin densities, and their connection to spin currents. Physical Review B, 2005, 71, .	3.2	69
20	Noncollinear Ferromagnetism in (III,Mn)V Semiconductors. Physical Review Letters, 2002, 88, 137201.	7.8	64
21	Anisotropic magnetoresistance of spin-orbit coupled carriers scattered from polarized magnetic impurities. Physical Review B, 2009, 80, .	3.2	61
22	Variational study of the $\hat{l}/2=1$ quantum Hall ferromagnet in the presence of spin-orbit interaction. Physical Review B, 2003, 67, .	3.2	59
23	Cyclotron motion in graphene. New Journal of Physics, 2008, 10, 043024.	2.9	57
24	Electronic properties of graphene and graphene nanoribbons with †pseudo-Rashba†spin-orbit coupling. New Journal of Physics, 2009, 11, 115003.	2.9	56
25	Pseudospin in Optical and Transport Properties of Graphene. Physical Review Letters, 2011, 107, 156801.	7.8	53
26	Entanglement spectrum and entanglement thermodynamics of quantum Hall bilayers at $\hat{l}/2=1$. Physical Review B, 2011, 83, .	3.2	51
27	Entanglement spectra of coupledS=12spin chains in a ladder geometry. Physical Review B, 2012, 85, .	3.2	49
28	Interplay between spin-orbit interactions and a time-dependent electromagnetic field in monolayer graphene. Physical Review B, 2013, 88, .	3.2	48
29	Photoinduced pseudospin effects in silicene beyond the off-resonant condition. Physical Review B, 2015, 91, .	3.2	48
30	Finite conductivity minimum in bilayer graphene without charge inhomogeneities. Physical Review B, 2010, 82, .	3.2	47
31	Shot noise and spin-orbit coherent control of entangled and spin-polarized electrons. Physical Review B, 2005, 72, .	3.2	46
32	Dielectric function, screening, and plasmons of graphene in the presence of spin-orbit interactions. Physical Review B, 2012, 86, .	3.2	44
33	Bilayer Quantum Hall Systems at Filling FactorÎ $1/2$ =2: An Exact Diagonalization Study. Physical Review Letters, 2000, 84, 4437-4440.	7.8	40
34	Control of Spin Helix Symmetry in Semiconductor Quantum Wells by Crystal Orientation. Physical Review Letters, 2016, 117, 236801.	7.8	38
35	Disorder-induced noncollinear ferromagnetism in models for (III,Mn)V semiconductors. Physical Review B, 2003, 67, .	3.2	32
36	Spin dynamics in rolled-up two-dimensional electron gases. New Journal of Physics, 2007, 9, 346-346.	2.9	32

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37	Cyclotron motion and magnetic focusing in semiconductor quantum wells with spin-orbit coupling. Physical Review B, 2008, 77, .	3.2	28
38	Energy spectrum and Landau levels in bilayer graphene with spin–orbit interaction. New Journal of Physics, 2012, 14, 093026.	2.9	27
39	Theoretical study of interacting hole gas inp-doped bulk III-V semiconductors. Physical Review B, 2006, 74, .	3.2	24
40	Weak (anti)localization in tubular semiconductor nanowires with spin-orbit coupling. Physical Review B, 2016, 93, .	3.2	24
41	Quantum-Hall quantum bits. Physical Review B, 2002, 66, .	3.2	18
42	Ballistic side-jump motion of electrons and holes in semiconductor quantum wells. Physical Review B, 2007, 75, .	3.2	17
43	Entanglement spectra of Heisenberg ladders of higher spin. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P11021.	2.3	17
44	Ultralong spin decoherence times in graphene quantum dots with a small number of nuclear spins. Physical Review B, 2013, 88, .	3.2	17
45	Polarization-sensitive absorption of THz radiation by interacting electrons in chirally stacked multilayer graphene. New Journal of Physics, 2012, 14, 095005.	2.9	16
46	Trigonal warping in bilayer graphene: Energy versus entanglement spectrum. Physical Review B, 2016, 93, .	3.2	16
47	Entanglement spectra and entanglement thermodynamics of Hofstadter bilayers. New Journal of Physics, 2013, 15, 053017.	2.9	15
48	Entanglement thermodynamics. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P09011.	2.3	15
49	Laser-induced modulation of the Landau level structure in single-layer graphene. Physical Review B, 2015, 92, .	3.2	15
50	Spins coupled to a spin bath: From integrability to chaos. Physical Review B, 2010, 81, .	3.2	13
51	Conserved spin quantity in strained hole systems with Rashba and Dresselhaus spin-orbit coupling. Physical Review B, 2016, 93, .	3.2	13
52	Signatures of spin-preserving symmetries in two-dimensional hole gases. Physical Review B, 2014, 90, .	3.2	12
53	Persistent spin textures and currents in wurtzite nanowire-based quantum structures. Physical Review B, 2020, 101, .	3.2	12
54	Phase transition and spin–wave dispersion in quantum Hall bilayers at filling factor ν=1. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 28-31.	2.7	11

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55	Double occupancy errors in quantum computing operations: Corrections to adiabaticity. Physical Review B, 2005, 71 , .	3.2	11
56	Dielectric function of the semiconductor hole liquid: Full frequency and wave-vector dependence. Physical Review B, $2011, 84, .$	3.2	11
57	Coherent quantum dynamics: What fluctuations can tell. Physical Review A, 2015, 92, .	2.5	11
58	Correlation energy, quantum phase transition, and bias potential effects in quantum Hall bilayers at $\hat{l}/2=1$. Physical Review B, 2003, 67, .	3.2	10
59	Magnetoconductance correction in zinc-blende semiconductor nanowires with spin-orbit coupling. Physical Review B, 2017, 96, .	3.2	10
60	Spin relaxation in wurtzite nanowires. Physical Review B, 2018, 98, .	3.2	10
61	Ultralong spin lifetimes in one-dimensional semiconductor nanowires. Applied Physics Letters, 2019, 114, 202101.	3.3	10
62	Semiclassical description of Heisenberg models via spin-coherent states. Journal of Physics Condensed Matter, 1998, 10, 1091-1102.	1.8	9
63	Spin orbit interaction and zitterbewegung in symmetric wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4330-4333.	0.8	9
64	Coherent states of $su(1,1)$: correlations, fluctuations, and the pseudoharmonic oscillator. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 135303.	2.1	8
65	Many-body localization: Transitions in spin models. Physical Review B, 2021, 103, .	3.2	6
66	Quantum theory of bilayer quantum Hall smectics. Physical Review B, 2003, 67, .	3.2	5
67	Graphene in a strong magnetic field: Massless Dirac particles versus skyrmions. Physical Review B, 2008, 78, .	3.2	5
68	On the semiclassical treatment of anharmonic quantum oscillators via coherent states - the Toda chain revisited. Journal of Physics A, 1999, 32, 5823-5833.	1.6	4
69	Spin dynamics in rolled-up two-dimensional electron gases. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1446-1447.	2.7	4
70	Collective spin fluctuations in diluted magnetic semiconductors. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 379-382.	2.7	3
71	Entanglement spectra of superconductivity ground states on the honeycomb lattice. European Physical Journal B, 2017, 90, 1.	1.5	2
72	Sublattice-Spin Coherent Contribution to the Conductivity ofÂGraphene Within Quasiclassical Approach. Journal of Superconductivity and Novel Magnetism, 2010, 23, 57-59.	1.8	0

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	73	Transport in 2DEGs and Graphene: Electron Spin vs. Sublattice Spin. Advances in Solid State Physics, 0, , 129-141.	0.8	0