George Kirczenow

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Resonant and nonresonant spin filtering in bismuthene-silicon cowrie shell-like nanostructures. Physical Review B, 2021, 104, .	3.2	2
2	Nearly perfect spin filtering in curved two-dimensional topological insulators. Physical Review B, 2020, 102, .	3.2	3
3	Mechanisms of jump to contact and conductance plateau formation in copper atomic junctions in vacuum and aqueous environments. Physical Review Materials, 2020, 4, .	2.4	0
4	Systematic study of low energy geometries of copper nano-junctions exposed to water and to species that can result from dissociation of water. Journal of Physics Condensed Matter, 2020, 32, 355201.	1.8	0
5	Valley polarization reversal and spin ferromagnetism and antiferromagnetism in quantum dots of the topological insulator monolayer bismuthene on SiC. Physical Review B, 2019, 100, .	3.2	5
6	Thermoelectric voltage switching in gold atomic wire junctions. Physical Review B, 2018, 98, .	3.2	3
7	Perfect and imperfect conductance quantization and transport resonances of two-dimensional topological-insulator quantum dots with normal conducting leads and contacts. Physical Review B, 2018, 98, .	3.2	9
8	Valley filters, accumulators, and switches induced in graphene quantum dots by lines of adsorbed hydrogen atoms. Physical Review B, 2018, 97, .	3.2	3
9	Controlling the thermoelectric effect by mechanical manipulation of the electron's quantum phase in atomic junctions. Scientific Reports, 2017, 7, 7949.	3.3	12
10	Gate-tunable valley currents, nonlocal resistances, and valley accumulation in bilayer graphene nanostructures. Physical Review B, 2017, 95, .	3.2	8
11	Malleability at the extreme nanoscale: Slow and fast quakes of few-body systems. Physical Review B, 2017, 96, .	3.2	0
12	Valley currents and nonlocal resistances of graphene nanostructures with broken inversion symmetry from the perspective of scattering theory. Physical Review B, 2015, 92, .	3.2	23
13	Electrical conductance and structure of copper atomic junctions in the presence of water molecules. Physical Chemistry Chemical Physics, 2015, 17, 32436-32442.	2.8	10
14	Mechanism of the enhanced conductance of a molecular junction under tensile stress. Physical Review B, 2014, 89, .	3.2	20
15	Coulomb bound states and resonances due to groups of Ca dimers adsorbed on suspended graphene. Physical Review B, 2014, 90, .	3.2	6
16	Switching of a quantum dot spin valve by single molecule magnets. Physical Review B, 2013, 87, .	3.2	20
17	Voltage-controlled spin injection with an endohedral fullerene Co@C60 dimer. Applied Physics Letters, 2013, 102, .	3.3	14
18	Lateral spin injection and detection through electrodeposited Fe/GaAs contacts. Semiconductor Science and Technology, 2013, 28, 035003.	2.0	7

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19	Inelastic tunneling spectroscopy of gold-thiol and gold-thiolate interfaces in molecular junctions: The role of hydrogen. Journal of Chemical Physics, 2012, 137, 094703.	3.0	8
20	Identification of the atomic scale structures of the gold-thiol interfaces of molecular nanowires by inelastic tunneling spectroscopy. Journal of Chemical Physics, 2012, 136, 014703.	3.0	17
21	Tight-binding model of Mn <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:msub><mml:mrow /><mml:mn>12</mml:mn></mml:mrow </mml:msub></mml:math> single-molecule magnets: Electronic and magnetic structure and transport properties. Physical Review B. 2012. 85	3.2	22
22	Scanning tunneling spectroscopy and Dirac point resonances due to a single Co adatom on gated graphene. Physical Review B, 2012, 85, .	3.2	19
23	Ligand-based transport resonances of single-molecule-magnet spin filters: Suppression of Coulomb blockade and determination of easy-axis orientation. Physical Review B, 2011, 84, .	3.2	18
24	Communication: Identification of the molecule–metal bonding geometries of molecular nanowires. Journal of Chemical Physics, 2011, 134, 121103.	3.0	23
25	Electrochemically Gated Oligopeptide Nanowires Bridging Gold Electrodes: Novel Bio-Nanoelectronic Switches Operating in Aqueous Electrolytic Environments. Nano Letters, 2010, 10, 1158-1162.	9.1	23
26	Modulation of electrical conduction through individual molecules on silicon by the electrostatic fields of nearby polar molecules: Theory and experiment. Physical Review B, 2009, 80, .	3.2	26
27	Electron Transport through Protein Fragments. AIP Conference Proceedings, 2008, , .	0.4	1
28	Nonlocal Conductance Modulation by Molecules: Scanning Tunneling Microscopy of Substituted Styrene Heterostructures on H-Terminated Si(100). Physical Review Letters, 2008, 101, 106801.	7.8	25
29	Single-molecule device prototypes for protein-based nanoelectronics: Negative differential resistance and current rectification in oligopeptides. Physical Review B, 2008, 77, .	3.2	38
30	Understanding the electroluminescence emitted by single molecules in scanning tunneling microscopy experiments. Physical Review B, 2008, 78, .	3.2	19
31	Ballistic electron spectroscopy of individual buried molecules. Physical Review B, 2007, 75, .	3.2	21
32	A New Approach to the Realization and Control of Negative Differential Resistance in Single-Molecule Nanoelectronic Devices:Â Designer Transition Metalâ~Thiol Interface States. Nano Letters, 2006, 6, 1274-1278.	9.1	50
33	Spin-current rectification in molecular wires. Physical Review B, 2006, 73, .	3.2	53
34	Interface states, negative differential resistance, and rectification in molecular junctions with transition-metal contacts. Physical Review B, 2006, 73, .	3.2	52
35	Theoretical study of spin-dependent electron transport in atomic Fe nanocontacts. Physical Review B, 2005, 72, .	3.2	25
36	Linear chains of styrene and methylstyrene molecules and their heterojunctions on silicon: Theory and experiment. Physical Review B, 2005, 72, .	3.2	72

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37	Two-probe theory of scanning tunneling microscopy of single molecules: Zn(II)-etioporphyrin on alumina. Physical Review B, 2005, 72, .	3.2	15
38	Reversal of the Charge Transfer between Host and Dopant Atoms in Semiconductor Nanocrystals. Nano Letters, 2004, 4, 2251-2254.	9.1	6
39	Electronic excitations and tunneling spectra of metallic nanograins. Physical Review B, 2003, 68, .	3.2	2
40	Quantum railroads and directed localization at the juncture of quantum Hall systems. Physical Review B, 2002, 66, .	3.2	10
41	Coherent spin-valve phenomena and electrical spin injection in ferromagnetic/semiconductor/ferromagnetic junctions. Physical Review B, 2002, 66, .	3.2	51
42	Current-driven conformational changes, charging, and negative differential resistance in molecular wires. Physical Review B, 2001, 64, .	3.2	63
43	Models of electron transport through organic molecular monolayers self-assembled on nanoscale metallic contacts. Physical Review B, 2001, 64, .	3.2	127
44	Comment on "First-Principles Calculation of Transport Properties of a Molecular Device― Physical Review Letters, 2001, 87, 269701.	7.8	59
45	Principles for the design and operation of a molecular wire transistor. Journal of Applied Physics, 2000, 88, 5280-5282.	2.5	18
46	Electrostatic mechanism for cooling semiconductor heterostructures. Applied Physics Letters, 1999, 75, 2262-2264.	3.3	3
47	Theory of Electrical Conduction Through a Molecule. Annals of the New York Academy of Sciences, 1998, 852, 54-67.	3.8	18

48 COMPOSITE-FERMION APPROACH TO EDGE STATE TRANSPORT., 1998, , 307-348.

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