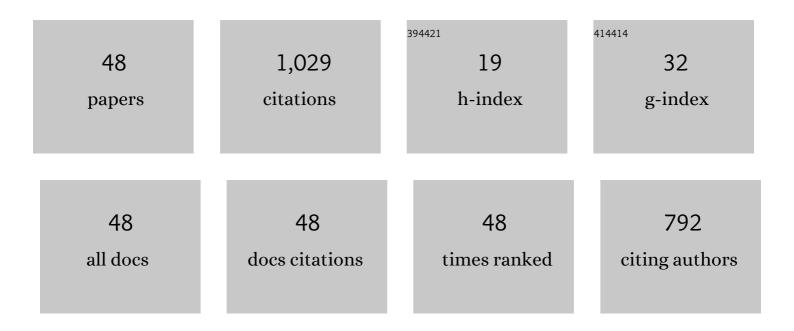
George Kirczenow

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Models of electron transport through organic molecular monolayers self-assembled on nanoscale metallic contacts. Physical Review B, 2001, 64, .	3.2	127
2	Linear chains of styrene and methylstyrene molecules and their heterojunctions on silicon: Theory and experiment. Physical Review B, 2005, 72, .	3.2	72
3	Current-driven conformational changes, charging, and negative differential resistance in molecular wires. Physical Review B, 2001, 64, .	3.2	63
4	Comment on "First-Principles Calculation of Transport Properties of a Molecular Device― Physical Review Letters, 2001, 87, 269701.	7.8	59
5	Spin-current rectification in molecular wires. Physical Review B, 2006, 73, .	3.2	53
6	Interface states, negative differential resistance, and rectification in molecular junctions with transition-metal contacts. Physical Review B, 2006, 73, .	3.2	52
7	Coherent spin-valve phenomena and electrical spin injection in ferromagnetic/semiconductor/ferromagnetic junctions. Physical Review B, 2002, 66, .	3.2	51
8	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
9	Single-molecule device prototypes for protein-based nanoelectronics: Negative differential resistance and current rectification in oligopeptides. Physical Review B, 2008, 77, .	3.2	38
10	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
11	Theoretical study of spin-dependent electron transport in atomic Fe nanocontacts. Physical Review B, 2005, 72, .	3.2	25
12	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
13	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
14	Communication: Identification of the molecule–metal bonding geometries of molecular nanowires. Journal of Chemical Physics, 2011, 134, 121103.	3.0	23
15	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
16	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
17	Ballistic electron spectroscopy of individual buried molecules. Physical Review B, 2007, 75, .	3.2	21
18	Switching of a quantum dot spin valve by single molecule magnets. Physical Review B, 2013, 87, .	3.2	20

2

GEORGE KIRCZENOW

#	Article	IF	CITATIONS
19	Mechanism of the enhanced conductance of a molecular junction under tensile stress. Physical Review B, 2014, 89, .	3.2	20
20	Understanding the electroluminescence emitted by single molecules in scanning tunneling microscopy experiments. Physical Review B, 2008, 78, .	3.2	19
21	Scanning tunneling spectroscopy and Dirac point resonances due to a single Co adatom on gated graphene. Physical Review B, 2012, 85, .	3.2	19
22	Theory of Electrical Conduction Through a Molecule. Annals of the New York Academy of Sciences, 1998, 852, 54-67.	3.8	18
23	Principles for the design and operation of a molecular wire transistor. Journal of Applied Physics, 2000, 88, 5280-5282.	2.5	18
24	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
25	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
26	Two-probe theory of scanning tunneling microscopy of single molecules: Zn(II)-etioporphyrin on alumina. Physical Review B, 2005, 72, .	3.2	15
27	Voltage-controlled spin injection with an endohedral fullerene Co@C60 dimer. Applied Physics Letters, 2013, 102, .	3.3	14
28	Controlling the thermoelectric effect by mechanical manipulation of the electron's quantum phase in atomic junctions. Scientific Reports, 2017, 7, 7949.	3.3	12
29	Quantum railroads and directed localization at the juncture of quantum Hall systems. Physical Review B, 2002, 66, .	3.2	10
30	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
31	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
32	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
33	Gate-tunable valley currents, nonlocal resistances, and valley accumulation in bilayer graphene nanostructures. Physical Review B, 2017, 95, .	3.2	8
34	Lateral spin injection and detection through electrodeposited Fe/GaAs contacts. Semiconductor Science and Technology, 2013, 28, 035003.	2.0	7
35	Reversal of the Charge Transfer between Host and Dopant Atoms in Semiconductor Nanocrystals. Nano Letters, 2004, 4, 2251-2254.	9.1	6
36	Coulomb bound states and resonances due to groups of Ca dimers adsorbed on suspended graphene. Physical Review B, 2014, 90, .	3.2	6

GEORGE KIRCZENOW

#	Article	IF	CITATIONS
37	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
38	Electrostatic mechanism for cooling semiconductor heterostructures. Applied Physics Letters, 1999, 75, 2262-2264.	3.3	3
39	Thermoelectric voltage switching in gold atomic wire junctions. Physical Review B, 2018, 98, .	3.2	3
40	Valley filters, accumulators, and switches induced in graphene quantum dots by lines of adsorbed hydrogen atoms. Physical Review B, 2018, 97, .	3.2	3
41	Nearly perfect spin filtering in curved two-dimensional topological insulators. Physical Review B, 2020, 102, .	3.2	3
42	Electronic excitations and tunneling spectra of metallic nanograins. Physical Review B, 2003, 68, .	3.2	2
43	Resonant and nonresonant spin filtering in bismuthene-silicon cowrie shell-like nanostructures. Physical Review B, 2021, 104, .	3.2	2
44	Electron Transport through Protein Fragments. AIP Conference Proceedings, 2008, , .	0.4	1
45	COMPOSITE-FERMION APPROACH TO EDGE STATE TRANSPORT. , 1998, , 307-348.		Ο
46	Malleability at the extreme nanoscale: Slow and fast quakes of few-body systems. Physical Review B, 2017, 96, .	3.2	0
47	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
48	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