

Chang-Qin Wu

List of Publications by Year in descending order

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51
papers

881
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471509

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477307

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53
all docs

53
docs citations

53
times ranked

856
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron correlation and bond alternation in polymers. <i>Physical Review Letters</i> , 1987, 59, 831-834.	7.8	91
2	Origin of the high open circuit voltage in planar heterojunction perovskite solar cells: Role of the reduced bimolecular recombination. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	69
3	The infrared active localized modes of soliton in trans-(CH) _x . <i>Solid State Communications</i> , 1985, 56, 1039-1041.	1.9	60
4	Reversal of thermal rectification in quantum systems. <i>Physical Review B</i> , 2009, 80, .	3.2	57
5	Thermoelectric properties of one-dimensional graphene antidot arrays. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2425-2429.	2.1	48
6	Nonlinear optical susceptibilities of conducting polymers. <i>Physical Review B</i> , 1990, 41, 12845-12849.	3.2	40
7	Dynamics of the sub-Ohmic spin-boson model: A comparison of three numerical approaches. <i>Physical Review E</i> , 2013, 88, 023303.	2.1	35
8	Third-harmonic generation of polyacetylene. <i>Physical Review B</i> , 1990, 42, 9736-9739.	3.2	34
9	Control of heat transport in quantum spin systems. <i>Physical Review B</i> , 2009, 79, .	3.2	33
10	Monte Carlo simulation based on dynamic disorder model in organic semiconductors: From coherent to incoherent transport. <i>Journal of Chemical Physics</i> , 2012, 136, 234106.	3.0	32
11	Phonon Effects on Spin-Charge Separation in One Dimension. <i>Physical Review Letters</i> , 2006, 96, 156402.	7.8	28
12	Mechanisms of device degradation in organic solar cells: Influence of charge injection at the metal/organic contacts. <i>Organic Electronics</i> , 2013, 14, 1992-2000.	2.6	26
13	Quantum heat transport in a spin-boson nanojunction: Coherent and incoherent mechanisms. <i>Europhysics Letters</i> , 2014, 107, 30003.	2.0	24
14	Effects of the \hat{e}^{\sim} interaction on the localized modes of solitons in polyacetylene. <i>Physical Review B</i> , 1986, 33, 8772-8775.	3.2	23
15	Dynamics of polarons in conjugated polymers: An adaptive time-dependent density-matrix renormalization-group study. <i>Physical Review B</i> , 2008, 78, .	3.2	23
16	Magnetic field modulated exciton generation in organic semiconductors: An intermolecular quantum correlated effect. <i>Physical Review B</i> , 2010, 82, .	3.2	20
17	General mechanism for orbital selective phase transitions. <i>Physical Review B</i> , 2012, 85, .	3.2	19
18	Nonballistic heat conduction in an integrable random-exchange Ising chain studied with quantum master equations. <i>Physical Review B</i> , 2008, 77, .	3.2	18

#	ARTICLE	IF	CITATIONS
19	Correlation effects on the dynamics of bipolarons in nondegenerate conjugated polymers. <i>Journal of Chemical Physics</i> , 2009, 130, 234908.	3.0	17
20	Mechanism of charge recombination in meso-structured organic-inorganic hybrid perovskite solar cells: A macroscopic perspective. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	17
21	A combined theoretical and experimental investigation on the transient photovoltage in organic photovoltaic cells. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	16
22	Thermoelectric properties of hexagonal graphene quantum dots. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1154-1158.	2.1	16
23	Wu, Sun, and Nasu reply. <i>Physical Review Letters</i> , 1989, 63, 2535-2535.	7.8	15
24	Drift of charge carriers in crystalline organic semiconductors. <i>Journal of Chemical Physics</i> , 2016, 144, 144905.	3.0	15
25	Vibrational modes around the soliton in strongly coupled one-dimensional electron-lattice systems. <i>Physical Review B</i> , 1987, 35, 4102-4105.	3.2	13
26	Decoherence and energy relaxation in the quantum-classical dynamics for charge transport in organic semiconducting crystals: An instantaneous decoherence correction approach. <i>Journal of Chemical Physics</i> , 2015, 143, 024103.	3.0	12
27	Spike in transient photocurrent of organic solar cell: Exciton dissociation at interface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 227-230.	2.1	10
28	Greenâ€™s functions for spin boson systems: Beyond conventional perturbation theories. <i>Chemical Physics</i> , 2016, 481, 42-53.	1.9	9
29	Magnetoresistance from quenching of spin quantum correlation in organic semiconductors. <i>Organic Electronics</i> , 2014, 15, 824-828.	2.6	7
30	Spin-flip processes of polarons by magnetic impurities in conjugated polymers. <i>Journal of Chemical Physics</i> , 2009, 131, 154901.	3.0	6
31	Modeling the underlying mechanisms for organic memory devices: Tunneling, electron emission, and oxygen adsorbing. <i>Applied Physics Letters</i> , 2012, 100, 263307.	3.3	6
32	Phonon effects in tunnelling through a double quantum dot molecule. <i>European Physical Journal B</i> , 2006, 49, 325-331.	1.5	5
33	A reduced electron-extraction barrier at an interface between a polymer poly(3-hexylthiophene) layer and an indium tin oxide layer. <i>Organic Electronics</i> , 2013, 14, 457-463.	2.6	4
34	ORBITAL SELECTIVE PHASE TRANSITION. <i>Modern Physics Letters B</i> , 2013, 27, 1330015.	1.9	4
35	Thermospin diode effect based on a quantum dot system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 3638-3641.	2.1	4
36	The localized modes of soliton and infrared absorption in polyacetylene. <i>Synthetic Metals</i> , 1987, 17, 39-43.	3.9	3

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37	Nonlinear optical properties of conducting polymers. <i>Synthetic Metals</i> , 1991, 43, 3213-3216.	3.9	3
38	Photon-phonon-assisted tunneling through a double quantum dot molecule. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 496216.	1.8	3
39	Controllable spin-current blockade in a Hubbard chain. <i>Physical Review B</i> , 2008, 78, .	3.2	3
40	Pomeranchuk instability on a two-dimensional frustrated lattice. <i>Physical Review B</i> , 2010, 82, .	3.2	3
41	Enhanced surface losses of organic solar cells induced by efficient polaron pair dissociation at the metal/organic interface. <i>Journal of Applied Physics</i> , 2012, 112, 034510.	2.5	3
42	Charge transport in organic semiconductors: From incoherent to coherent. <i>Science Bulletin</i> , 2013, 58, 2669-2676.	1.7	3
43	Understanding magnetic field effects in organic light-emitting devices. <i>Synthetic Metals</i> , 2011, 161, 632-636.	3.9	2
44	Drift of charge carriers in crystalline organic semiconductors. , 0, .		1
45	Two- and Three-Photon Resonances in Conjugated Polymers. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 256, 637-642.	0.3	0
46	Width of Soliton and the Electron Correlation in Polymer. <i>Chinese Physics Letters</i> , 1996, 13, 211-214.	3.3	0
47	BIPOLARON DYNAMICS IN NON-DEGENERATE POLYMERS. <i>International Journal of Modern Physics B</i> , 2007, 21, 4190-4195.	2.0	0
48	Retardation effect on spin-charge separation in one dimension. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1127-1128.	1.2	0
49	Addendum: Orbital selective phase transition. <i>Modern Physics Letters B</i> , 2014, 28, 1491001.	1.9	0
50	STRONGLY COUPLED ONE-DIMENSIONAL SYSTEM AND THE POLYMER. , 1990, , 259-262.		0
51	STRONGLY COUPLED ONE-DIMENSIONAL SYSTEM AND THE POLYMER. , 1990, , 259-262.		0