

Huai-Yu Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Antiresonance and negative differential conductance in parallel-coupled vibrating molecular dots coupled to Luttinger liquid leads. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 135, 114936.	1.3	2
2	The interplay of intralead and dot-lead Coulomb electrons on shot noise in the Kondo regime. <i>Physica B: Condensed Matter</i> , 2022, 627, 413544.	1.3	0
3	The modified fundamental equations of quantum mechanics. <i>Physics Essays</i> , 2022, 35, 152-164.	0.1	4
4	Fano resonance and zero-bias anomaly in parallel double quantum dots coupled to Luttinger liquid leads. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 389, 127095.	0.9	6
5	Effect of magnetic fields on the shot noise of a quantum dot with Luttinger leads. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 129, 114640.	1.3	1
6	Macromechanics and two-body problems. <i>Journal of Physics Communications</i> , 2021, 5, 055018.	0.5	6
7	Fundamental formalism of statistical mechanics and thermodynamics of negative kinetic energy systems. <i>Journal of Physics Communications</i> , 2021, 5, 055012.	0.5	7
8	The photon-assisted shot noise of a strongly correlated quantum dot coupled to the Luttinger liquid leads. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 115, 113642.	1.3	1
9	Pseudo-Yang-Lee Edge Singularity Critical Behavior in a Non-Hermitian Ising Model. <i>Entropy</i> , 2020, 22, 780.	1.1	2
10	Solving Klein's paradox. <i>Journal of Physics Communications</i> , 2020, 4, 125010.	0.5	9
11	New results by low momentum approximation from relativistic quantum mechanics equations and suggestion of experiments. <i>Journal of Physics Communications</i> , 2020, 4, 125004.	0.5	8
12	Scaling of the Berry Phase in the Yang-Lee Edge Singularity. <i>Entropy</i> , 2019, 21, 836.	1.1	2
13	Theoretical investigation of the ferromagnetism on VS ₂ monolayers with exchange anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 477, 232-236.	1.0	7
14	Phase transition of the frustrated antiferromagnetic J ₁ -J ₂ -J ₃ spin-1/2 Heisenberg model on a simple cubic lattice. <i>Frontiers of Physics</i> , 2019, 14, 1.	2.4	1
15	The J ₁ -J ₂ model on the face-centered-cubic lattices. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 454, 176-184.	1.0	20
16	Hybridized Kibble-Zurek scaling in the driven critical dynamics across an overlapping critical region. <i>Physical Review B</i> , 2018, 97, .	1.1	12
17	Magnetic Field Effects on Transport Through a Strongly Correlated Dot Coupled to Luttinger Leads. <i>Journal of Low Temperature Physics</i> , 2018, 192, 286-298.	0.6	1
18	Magnetic field effects on the DOS of a Kondo quantum dot coupled to LL leads. <i>Solid State Communications</i> , 2017, 250, 57-63.	0.9	1

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19	Effects of Luttinger leads on the AC conductance of a quantum dot. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1328-1334.	0.9	0
20	Investigation of possible phase transition of the frustrated spin-1/2 J ₁ -J ₂ -J ₃ model on the square lattice. Scientific Reports, 2017, 7, 10477.	1.6	1
21	The magnetic and multiferroic properties in BiMnO ₃ . Journal of Magnetism and Magnetic Materials, 2017, 426, 188-194.	1.0	27
22	Composite one-way transmission waveguide based on the curved metal slit and 1D photonic crystal. AIP Advances, 2016, 6, 105209.	0.6	0
23	Compensation temperature of the two-dimension mixed spin-1 and spin-3/2 anisotropic Heisenberg ferrimagnet. Journal of Magnetism and Magnetic Materials, 2016, 411, 55-61.	1.0	10
24	The optical one-way transmission in helical metal subwavelength slit. Optics Communications, 2016, 381, 195-199.	1.0	0
25	Effects of the interplay of neighboring couplings on the possible phase transition of a two-dimensional antiferromagnetic system. Physical Review E, 2016, 94, 012142.	0.8	1
26	Phase transition of anisotropic frustrated Heisenberg model on the square lattice. Physical Review E, 2016, 93, 012108.	0.8	6
27	The compensation temperature of a mixed spin-1/2 and spin-1 Heisenberg ferrimagnetic systems. Materials Research Express, 2016, 3, 036105.	0.8	3
28	Extension and Optimization of the Axisymmetric 2.5-D Eigensolver: Toward Far-Field Calculations in Stratified Backgrounds. IEEE Transactions on Antennas and Propagation, 2016, 64, 2431-2444.	3.1	1
29	AC-field-induced quantum phase transitions in density of states. European Physical Journal B, 2016, 89, 1.	0.6	1
30	Magnetic correlations in ferromagnetic single-walled nanotubes. Journal of Magnetism and Magnetic Materials, 2015, 390, 132-136.	1.0	7
31	A new possible transition from two- to one-channel Kondo physics in mesoscopic transport. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 72, 140-148.	1.3	1
32	Theoretical study of mutual control mechanism between magnetization and polarization in multiferroic materials. Chinese Physics B, 2015, 24, 037510.	0.7	3
33	Optical unidirectional transmission in metal slit structures caused by convergent and shield effects. European Physical Journal D, 2015, 69, 1.	0.6	2
34	Effects of magnetic correlation on the electric properties in multiferroic materials. Journal of Magnetism and Magnetic Materials, 2015, 377, 121-125.	1.0	7
35	The exchange interaction values of perovskite-type materials EuTiO ₃ and EuZrO ₃ . Journal of Applied Physics, 2014, 116, .	1.1	8
36	Thermodynamic properties of Heisenberg magnetic systems. Chinese Physics B, 2014, 23, 037502.	0.7	3

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37	Phonon-assisted tunneling and two-channel Kondo effect in a vibrating molecular dot coupled to Luttinger liquid leads. <i>Solid State Communications</i> , 2014, 178, 50-53.	0.9	4
38	The internal energies of Heisenberg magnetic systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 354, 309-316.	1.0	20
39	An optical unidirectional device tunable by a magnetic field. <i>Optics Communications</i> , 2014, 322, 198-201.	1.0	10
40	Mechanism of the optical unidirectional transmission in metal subwavelength grating with different surfaces. <i>Optics Communications</i> , 2014, 316, 17-21.	1.0	11
41	Theoretical study of magnetic spin correlations and the magnetocapacitance effect in BiMnO ₃ . <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	6
42	Power-law behavior in electron transport through a quantum dot with Luttinger liquid leads. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	6
43	The shot noise of a strongly correlated quantum dot coupled to the Luttinger liquid leads. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 3136-3143.	0.9	4
44	Phonon-assisted zero bias anomaly in a single-molecule quantum dot coupled to the Luttinger liquid leads. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 257-261.	0.9	4
45	Enhancement of the shot noise of a quantum dot-Luttinger lead system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 1954-1960.	0.9	1
46	Density of states of a strongly correlated quantum dot coupled to Luttinger liquid leads. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 687-693.	0.9	10
47	Transport Through a Quantum Dot with Coulombic Dot-Lead Coupling. <i>Journal of Low Temperature Physics</i> , 2013, 170, 116-130.	0.6	4
48	Optical transmission through an interface between subwavelength slits. <i>Optik</i> , 2013, 124, 6222-6226.	1.4	0
49	Effects of interplay between metal subwavelength slits on extraordinary optical transmission. <i>Chinese Physics B</i> , 2013, 22, 024201.	0.7	5
50	Effect of Transverse Correlation Function on the Thermodynamic Quantities of Ferromagnetic Systems. <i>Communications in Theoretical Physics</i> , 2013, 59, 494-502.	1.1	4
51	The zero-bias anomaly conductance of a strongly correlated dot coupled to Luttinger liquid leads. <i>Europhysics Letters</i> , 2013, 104, 37009.	0.7	5
52	Plasmonic band structures and optical properties of subwavelength metal/dielectric/metal Bragg waveguides. <i>Optics Express</i> , 2012, 20, 7726.	1.7	6
53	Phase transition of square-lattice antiferromagnets at finite temperature. <i>Physical Review B</i> , 2012, 86, .	1.1	19
54	Zero refraction in natural materials and the mechanism of metal superlens. <i>Europhysics Letters</i> , 2012, 98, 67005.	0.7	8

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55	The Modulation and Enhancement of Thermopower in a Luttinger liquid. Journal of Low Temperature Physics, 2012, 167, 26-38.	0.6	3
56	Investigation of the wave behaviors inside a step-modulated subwavelength metal slit. Optics Express, 2011, 19, 10073.	1.7	4
57	Enhancement of the contrast ratio associated with surface waves in a metal pillar-slit structure. Physical Review A, 2011, 83, .	1.0	3
58	Theoretical investigations of magnetic properties of ferromagnetic single-layered nanobelts. Physica Status Solidi (B): Basic Research, 2011, 248, 1280-1286.	0.7	11
59	The mechanism of the polarization dependence of the optical transmission in subwavelength metal hole arrays. Journal of Physics Condensed Matter, 2011, 23, 015005.	0.7	3
60	The correlation between single-slit and inter-slit effects in a subwavelength metal double-slit device. Proceedings of SPIE, 2010, , .	0.8	0
61	Theoretical investigations of magnetic properties of ferromagnetic single-walled nanotubes. Journal of Magnetism and Magnetic Materials, 2010, 322, 952-958.	1.0	51
62	Enhancement of the extraordinary optical transmission in a subwavelength metal slit dressed by a metal grating. Physical Review A, 2010, 81, .	1.0	9
63	Band-gap structures of surface-plasmon polaritons in a subwavelength metal slit filled with periodic dielectrics. Physical Review A, 2010, 81, .	1.0	10
64	Wavelength squeeze of surface plasmon polariton in a subwavelength metal slit. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 59.	0.9	16
65	Investigation of the polarization dependence of the optical transmission in subwavelength metal hole array. , 2010, , .		0
66	Comprehensive theory for reduction of products of spin operators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3374-3380.	0.9	1
67	Multi-reflection process of extraordinary optical transmission in a single subwavelength metal slit. Europhysics Letters, 2009, 85, 24005.	0.7	21
68	Many-body Green's function theory of ferromagnetic films with arbitrarily arranged single-ion anisotropies. Physical Review B, 2006, 73, .	1.1	15
69	Electronic and magnetic properties of Mn ²⁺ -Ge digital ferromagnetic heterostructures: An ab initio investigation. Journal of Applied Physics, 2006, 99, 08D705.	1.1	9
70	Magnetization of ferromagnetic polycrystals subject to an external magnetic field. Physical Review B, 2006, 74, .	1.1	8
71	Theoretical investigation on the phase stability of Nd ₂ Fe ₁₄ B and site preference of V, Cr, Mn, Zr and Nb. Journal of Magnetism and Magnetic Materials, 2005, 295, 219-229.	1.0	19
72	HYSTERESIS IN A MEAN-FIELD SPIN MODEL: OSCILLATION BEHAVIOR AND NEGATIVE ENERGY DISSIPATION. Modern Physics Letters B, 2005, 19, 1131-1140.	1.0	1

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73	Magnetization in the case of anisotropic exchange interaction. Physical Review B, 2004, 69, .	1.1	23
74	Magnetic behaviors of antiferromagnetic films under external field. Journal of Applied Physics, 2004, 95, 7551-7553.	1.1	9
75	Individual monolayer analysis of anomalous hysteresis loops. Physical Review B, 2004, 70, .	1.1	12
76	Many-body Green's function theory of ferromagnetic Heisenberg systems with single-ion anisotropies in more than one direction. Physical Review B, 2004, 70, .	1.1	26
77	An ab initio investigation on the zinc-blende MnAs nanocrystallite. Journal of Applied Physics, 2004, 95, 7459-7461.	1.1	9
78	Influence of the structural defects on localized interface optical-phonon modes in periodically layered heterostructures. Microelectronic Engineering, 2003, 66, 26-32.	1.1	0
79	A comprehensive study of Heisenberg-like systems with internal spin fluctuation. Journal of Physics Condensed Matter, 2003, 15, 2783-2796.	0.7	10
80	Abnormal magnetism and phase transformation of a Heisenberg-like model with internal spin fluctuation. Physical Review B, 2002, 66, .	1.1	14
81	THE FERMIONIC GREEN'S FUNCTION THEORY FOR CALCULATION OF MAGNETIZATION. International Journal of Modern Physics B, 2002, 16, 3803-3816.	1.0	11
82	Critical Point of Ising Films with Different Growth Directions. Chinese Physics Letters, 2000, 17, 55-57.	1.3	3
83	Two-Dimensional Hydrogen Molecule and Its Ions. Chinese Physics Letters, 1998, 15, 173-174.	1.3	2
84	Local density of states of silicon impurity in lightly and heavily doped AlAs/GaAs superlattices. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1990, 5, 371-375.	1.7	4
85	Local electronic structures of the native defects in modulation-doped AlAs/GaAs superlattices. Journal of Physics Condensed Matter, 1990, 2, 4405-4416.	0.7	5
86	Electronic structure of YBa ₂ Cu ₃ O _{7-y} with $y=0.25, 0.125, 0, -0.125$. Journal of Physics Condensed Matter, 1989, 1, 1983-1990.	0.7	7