

Shi-Dong Liang

List of Publications by Year in descending order

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84
papers

1,327
citations

430874

18
h-index

377865

34
g-index

86
all docs

86
docs citations

86
times ranked

935
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological invariance and global Berry phase in non-Hermitian systems. <i>Physical Review A</i> , 2013, 87, .	2.5	170
2	$f(Q, \hat{A}T)$ gravity. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	156
3	Palatini formulation of $f(R, \hat{A}T)$ gravity theory, and its cosmological implications. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	115
4	Quantum Cosmology of $f(R, \hat{A}T)$ gravity. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	61
5	Cosmological implications of modified gravity induced by quantum metric fluctuations. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	59
6	Weyl type $f(Q, \hat{A}T)$ gravity, and its cosmological implications. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	58
7	Geodesic deviation, Raychaudhuri equation, Newtonian limit, and tidal forces in Weyl-type $f(Q, \hat{A}T)$ gravity. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	50
8	Chiral and quantum size effects of single-wall carbon nanotubes on field emission. <i>Applied Physics Letters</i> , 2004, 85, 813-815.	3.3	42
9	Generalised uncertainty relations from superpositions of geometries. <i>Classical and Quantum Gravity</i> , 2019, 36, 155012.	4.0	41
10	Chirality effect of single-wall carbon nanotubes on field emission. <i>Applied Physics Letters</i> , 2003, 83, 1213-1215.	3.3	36
11	Generalized Fowler-Nordheim Theory of Field Emission of Carbon Nanotubes. <i>Physical Review Letters</i> , 2008, 101, 027602.	7.8	35
12	Slowly rotating Bose Einstein condensate galactic dark matter halos, and their rotation curves. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	28
13	Size effect on exciton-phonon scattering in quantum wires. <i>Physical Review B</i> , 1996, 53, 15459-15461.	3.2	27
14	Polaron in a quantum disk. <i>Physica B: Condensed Matter</i> , 1998, 245, 92-102.	2.7	27
15	Generalised Uncertainty Relations for Angular Momentum and Spin in Quantum Geometry. <i>Universe</i> , 2020, 6, 56.	2.5	26
16	Electronic Structure and Band Gap Engineering of Two-Dimensional Octagon-Nitrogene. <i>Scientific Reports</i> , 2018, 8, 1674.	3.3	23
17	Energy-dependent noncommutative quantum mechanics. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	20
18	Intrinsic properties of electronic structure in commensurate double-wall carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2004, 352, 305-311.	2.7	19

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19	Testing the Bose-Einstein Condensate dark matter model at galactic cluster scale. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 027-027.	5.4	17
20	Surface luminescence in ZnO nanoparticles. Optics Communications, 2007, 276, 186-190.	2.1	15
21	Orbital magnetic phase and pure persistent spin current in spin-orbit coupling mesoscopic rings. Europhysics Letters, 2009, 86, 67009.	2.0	14
22	Detecting noncommutative phase space by the Aharonov-Bohm effect. Physical Review A, 2014, 90, .	2.5	14
23	Quantum Szilard engines with arbitrary spin. Physical Review E, 2014, 90, 052117.	2.1	14
24	Stabilities and novel electronic structures of three carbon nitride bilayers. Scientific Reports, 2019, 9, 1025.	3.3	13
25	A polaron in a quantum well within an electric field. Journal of Physics Condensed Matter, 1994, 6, 1903-1912.	1.8	12
26	Intrinsic energy spectrum in field emission of carbon nanotubes. Physical Review B, 2006, 73, .	3.2	12
27	Exact solutions of the LiÅ©nard- and generalized LiÅ©nard-type ordinary nonlinear differential equations obtained by deforming the phase space coordinates of the linear harmonic oscillator. Journal of Engineering Mathematics, 2016, 98, 93-111.	1.2	12
28	Third harmonic generation of semiconductor carbon nanotubes. Chemical Physics Letters, 2006, 433, 101-104.	2.6	11
29	Magnetic polarization induced by nonmagnetic impurities in high-Tccuprates. Physical Review B, 2002, 65, .	3.2	10
30	Quantum effect in the field emission of carbon nanotubes. Journal of Vacuum Science & Technology B, 2006, 24, 983.	1.3	9
31	Phonon dispersions and electronic structures of two-dimensional IV-V compounds. Carbon, 2021, 172, 345-352.	10.3	9
32	Ferrimagnetism in the organic polymeric Hubbard model:â€¢Quantum Monte Carlo simulation. Physical Review B, 1999, 59, 3321-3324.	3.2	8
33	Peierls instability and persistent current in mesoscopic conducting polymer rings. Physical Review B, 2006, 74, .	3.2	8
34	Comparison of field and thermionic emissions from carbon nanotubes. Journal Physics D: Applied Physics, 2006, 39, 5280-5284.	2.8	8
35	Ballistic spin-dependent transport of Rashba rings with multi-leads. Annals of Physics, 2011, 326, 1107-1124.	2.8	8
36	Cosmological constraints on superconducting dark energy models. Physical Review D, 2015, 92, .	4.7	8

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37	Irreversible Thermodynamic Description of Dark Matter and Radiation Creation during Inflationary Reheating. <i>Advances in High Energy Physics</i> , 2017, 2017, 1-24.	1.1	8
38	Complex Berry curvature pair and quantum Hall admittance in non-Hermitian systems. <i>Journal of Physics Communications</i> , 2020, 4, 115006.	1.2	8
39	Theories of field and thermionic electron emissions from carbon nanotubes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C2A50-C2A57.	1.2	7
40	Superconducting dark energy. <i>Physical Review D</i> , 2015, 91, .	4.7	7
41	Finslerian geometrization of quantum mechanics in the hydrodynamical representation. <i>Physical Review D</i> , 2019, 100, .	4.7	7
42	Fast identification of the conduction-type of nanomaterials by field emission technique. <i>Scientific Reports</i> , 2017, 7, 13057.	3.3	6
43	An easy way to controllably synthesize one-dimensional SmB ₆ topological insulator nanostructures and exploration of their field emission applications. <i>Chinese Physics B</i> , 2017, 26, 118103.	1.4	6
44	Theory of spin polarization in mesoscopic spin-orbit coupling systems. <i>Physica B: Condensed Matter</i> , 2012, 407, 3382-3387.	2.7	5
45	Spin density wave and ferromagnetism in a quasi-one-dimensional organic polymer. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 104, 27-32.	1.1	4
46	Effects of electron-phonon interaction on impurity states in quantum wells under electric fields. <i>Solid State Communications</i> , 1997, 104, 281-285.	1.9	4
47	Strong Coupling Polaron in a Slab of Polar Crystal. <i>Chinese Physics Letters</i> , 1994, 11, 754-757.	3.3	3
48	Impurity effect on the persistent current via Aharonov-Bohm effect in one-dimensional mesoscopic rings: Tight-binding model. <i>Solid State Communications</i> , 1996, 98, 909-912.	1.9	3
49	Ferromagnetism, Dimerization, Charge and Spin Density Waves in Quasi-One-Dimensional Organic Polymers: Self-Consistent Mean Field Theory. <i>International Journal of Modern Physics B</i> , 1998, 12, 2031-2044.	2.0	3
50	Signature of the Aharonov-Bohm phase in field emission of carbon nanotubes under magnetic fields. <i>Physical Review B</i> , 2005, 72, .	3.2	3
51	Seeking optimal performance of multiwall carbon nanotubes in field emission: Tight-binding approach. <i>Physical Review B</i> , 2006, 74, .	3.2	3
52	Physical insights to the bio-energy transport in the protein molecules. <i>Physics of Life Reviews</i> , 2011, 8, 287-288.	2.8	3
53	Quantum phase transitions in mesoscopic Rashba rings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 738-742.	2.1	3
54	Black hole solutions in modified gravity induced by quantum metric fluctuations. <i>Physics of the Dark Universe</i> , 2021, 31, 100756.	4.9	3

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55	Evolutionary gambling dynamics for two growing complex networks. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 018902.	0.5	3
56	Complex energy plane and topological invariant in non-Hermitian systems. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	3
57	Energy band structure effect on the field-electron energy distribution from a single-walled carbon nanotube. , 0, , .		2
58	ELECTRONIC STRUCTURE AND QUANTUM PHASE TRANSITION IN MULTI-WALL CARBON NANOTUBES. <i>International Journal of Modern Physics B</i> , 2007, 21, 4377-4386.	2.0	2
59	Bardeenâ€“Cooperâ€“Schrieffer formalism of superconductivity in carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2008, 403, 2288-2292.	2.7	2
60	Edge states and topological orders in the spin liquid phases of star lattice. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	2
61	Loop quantum cosmology with a non-commutative quantum deformed photon gas. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	2
62	Theory of field emission. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	2
63	Towards an Observable Test of Noncommutative Quantum Mechanics. <i>Ukrainian Journal of Physics</i> , 2019, 64, 983.	0.2	2
64	Influence of Electric and Magnetic Fields on the Polaron in a Quantum Well. <i>Communications in Theoretical Physics</i> , 1996, 25, 427-434.	2.5	1
65	Spontaneous magnetic flux in disordered mesoscopic rings with interacting electrons: Monte Carlo simulations. <i>Zeitschrift F�r Physik B-Condensed Matter</i> , 1997, 102, 277-281.	1.1	1
66	TOPOLOGICAL EFFECTS OF CHARGE TRANSFER IN TELOMERE G-QUADRUPLEX: MECHANISM ON TELOMERASE ACTIVATION AND INHIBITION. <i>International Journal of Modern Physics B</i> , 2013, 27, 1350001.	2.0	1
67	Zero modes of velocity field and topological invariant in quantum torus. <i>Results in Physics</i> , 2021, 31, 104912.	4.1	1
68	Interface Polaron Within Parallel Electric and Magnetic Fields. <i>Communications in Theoretical Physics</i> , 1996, 26, 145-152.	2.5	0
69	Berry phase and its induced charge and spin currents in a ring of a double-exchange system. <i>Physical Review B</i> , 1999, 60, 14549-14552.	3.2	0
70	PHASE LOCKING EFFECT OF PERSISTENT CURRENTS IN MESOSCOPIC ANDERSONâ€“HUBBARD RINGS. <i>International Journal of Modern Physics B</i> , 2000, 14, 533-545.	2.0	0
71	Energy distribution of field-emitted electrons from carbon nanotubes. , 0, , .		0
72	Quantum effects in the field emission of carbon nanotubes. , 0, , .		0

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73	Effect of Peierls Distortion on Field Emission of Carbon Nanotubes. , 2006, , .		0
74	Search for an Optimal Performance of Multi-Wall Carbon Nanotubes in Field Emission. , 2006, , .		0
75	Theory of field and thermionic electron emissions of carbon nanotubes. , 2009, , .		0
76	5.5: Theoretical hints of spin polarized electron field emission from carbon nanotubes. , 2010, , .		0
77	How to identify the image potential in field emission from non-metallic emitters?. , 2015, , .		0
78	The transport mechanism of the integer quantum Hall effect. European Physical Journal B, 2016, 89, 1.	1.5	0
79	Dynamics of quantum entanglement in quantum channels. Quantum Information Processing, 2017, 16, 1.	2.2	0
80	Mechanism of dynamic phase transition and synchronous stability in Hindmarsh-Rose neuronal network. International Journal of Modern Physics B, 2018, 32, 1850308.	2.0	0
81	Connections between Weyl geometry, quantum potential and quantum entanglement. Modern Physics Letters A, 2021, 36, .	1.2	0
82	The physical principle of spin-polarized field emission. , 2016, , .		0
83	Geometric Criterion of Topological Phase Transition for Non-Hermitian Systems. Annalen Der Physik, 0, , 2100520.	2.4	0
84	Topological Invariant of Velocity Field in Quantum Systems. Annalen Der Physik, 0, , 2100443.	2.4	0