

Quanhui Liu

List of Publications by Year in descending order

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304743

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99
docs citations

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times ranked

2863
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of addition of citric acid on the physical properties of metallic oxide nanorods via Sol-Gel route preparation. International Journal of Materials Research, 2021, 106, 195-198.	0.3	0
2	Gradient Solid Electrolyte Interphase and Lithium-Ion Solvation Regulated by Bisfluoroacetamide for Stable Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 6600-6608.	13.8	249
3	Gradient Solid Electrolyte Interphase and Lithium-Ion Solvation Regulated by Bisfluoroacetamide for Stable Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 6674-6682.	2.0	23
4	Substrate polarization effects on the plasmon excitations of small Na atomic chains on Si surfaces. Physical Review B, 2021, 103, .	3.2	1
5	The curvature-induced gauge potential and the geometric momentum for a particle on a hypersphere. Annals of Physics, 2021, 432, 168566.	2.8	0
6	Curvature-induced noncommutativity of two different components of momentum for a particle on a hypersurface. Communications in Theoretical Physics, 2021, 73, 025104.	2.5	1
7	Enhancement of charge transport in porous carbon nanofiber networks via ZIF-8-enabled welding for flexible supercapacitors. Chemical Engineering Journal, 2020, 382, 122979.	12.7	76
8	A Sb ₂ S ₃ Nanoflower/MXene Composite as an Anode for Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 57907-57915.	8.0	82
9	Role of long-range interaction on the photon-excited $\langle i \rangle \langle i \rangle$ -pairing of electrons. Physica Scripta, 2020, 95, 075803.	2.5	1
10	Recent progresses on SnO ₂ anode materials for sodium storage. Journal Physics D: Applied Physics, 2020, 53, 353001.	2.8	18
11	On the existence of a local dipolar plasmon mode in doped small gold atomic arrays. Physical Review B, 2020, 101, .	3.2	2
12	Recent advances in cathode materials for rechargeable lithium-sulfur batteries. Nanoscale, 2019, 11, 15418-15439.	5.6	125
13	Josephson effect in the strontium titanate/lanthanum aluminate junction*. Chinese Physics B, 2019, 28, 097401.	1.4	1
14	Charge nonconservation of molecular devices in the presence of a nonlocal potential. Physical Review B, 2019, 100, .	3.2	3
15	Generally covariant geometric momentum, gauge potential and a Dirac fermion on a two-dimensional sphere. European Physical Journal C, 2019, 79, 1.	3.9	3
16	Gravitational major-axis contraction of Mercury's elliptical orbit. Modern Physics Letters A, 2019, 34, 1950159.	1.2	1
17	Mesoporous Carbon-Coated Bismuth Nanorods as Anode for Potassium-Ion Batteries. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900209.	2.4	47
18	Electrochemical CO ₂ reduction over nitrogen-doped SnO ₂ crystal surfaces. Journal of Energy Chemistry, 2019, 33, 22-30.	12.9	38

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19	Strain engineering the D-band center for Janus MoSSe edge: Nitrogen fixation. <i>Journal of Energy Chemistry</i> , 2019, 33, 155-159.	12.9	32
20	In-situ Synthesis of 3D Carbon Coated Zinc-Cobalt Bimetallic Oxide Networks as Anode in Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 1708-1716.	3.4	28
21	Nitrogen, Fluorine, and Boron Ternary Doped Carbon Fibers as Cathode Electrocatalysts for Zinc-Air Batteries. <i>Small</i> , 2018, 14, e1800737.	10.0	159
22	Geometric Potential and Dirac Quantization. <i>Annalen Der Physik</i> , 2018, 530, 1700415.	2.4	12
23	Oxygen-deficient anatase TiO ₂ @C nanospindles with pseudocapacitive contribution for enhancing lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4013-4022.	10.3	206
24	Geometric momentum and angular momentum for charge-monopole system. <i>Modern Physics Letters A</i> , 2018, 33, 1850125.	1.2	1
25	Recent progress in Zn-based anodes for advanced lithium ion batteries. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1414-1435.	5.9	91
26	Ultra-Stable Asymmetric Supercapacitors Constructed by In-situ Electro-Oxidation Activated Ni@CNTs Composites. <i>ChemElectroChem</i> , 2018, 5, 3213-3221.	3.4	4
27	Generalized centripetal force law and quantization of motion constrained on 2D surfaces. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 87, 123-128.	2.7	7
28	Porous ultrathin carbon nanobubbles formed carbon nanofiber webs for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14801-14810.	10.3	89
29	Split-orientation-modulated plasmon coupling in disk/sector dimers. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	3
30	Exponential functions of perturbative series and elimination of secular divergences in time-dependent perturbation theory in quantum mechanics. <i>Results in Physics</i> , 2017, 7, 890-894.	4.1	1
31	Heisenberg equation for a nonrelativistic particle on a hypersurface: From the centripetal force to a curvature induced force. <i>AIP Advances</i> , 2017, 7, 125118.	1.3	3
32	Constructive-interference-enhanced Fano resonance of silver plasmonic heptamers with a substrate mirror: a numerical study. <i>Optics Express</i> , 2017, 25, 9938.	3.4	13
33	The centripetal force law and the equation of motion for a particle on a curved hypersurface. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	9
34	Orientational Imaging of a Single Gold Nanorod at the Liquid/Solid Interface with Polarized Evanescent Field Illumination. <i>Analytical Chemistry</i> , 2016, 88, 1995-1999.	6.5	15
35	Distribution of x and p for quantum states on a circle. <i>International Journal of Geometric Methods in Modern Physics</i> , 2015, 12, 1550078.	2.0	0
36	A self-adjoint decomposition of the radial momentum operator. <i>International Journal of Geometric Methods in Modern Physics</i> , 2015, 12, 1550028.	2.0	6

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37	An Enlarged Canonical Quantization Scheme and Quantization of a Free Particle on Two-Dimensional Sphere. <i>Communications in Theoretical Physics</i> , 2015, 63, 19-24.	2.5	15
38	Enhancement of transport properties introduced complex defect in (6, 3) carbon nanotubes. <i>Modern Physics Letters B</i> , 2015, 29, 1550031.	1.9	0
39	Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. <i>Modern Physics Letters B</i> , 2014, 28, 1450229.	1.9	3
40	Distribution of x_p in some molecular rotational states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 785-789.	2.1	5
41	Can Dirac quantization of constrained systems be fulfilled within the intrinsic geometry?. <i>Annals of Physics</i> , 2014, 341, 132-141.	2.8	26
42	ON RELATION BETWEEN GEOMETRIC MOMENTUM AND ANNIHILATION OPERATORS ON A TWO-DIMENSIONAL SPHERE. <i>International Journal of Geometric Methods in Modern Physics</i> , 2013, 10, 1320007.	2.0	7
43	Quantum motion on a torus as a submanifold problem in a generalized Dirac's theory of second-class constraints. <i>Annals of Physics</i> , 2013, 338, 123-133.	2.8	26
44	Geometric momentum for a particle constrained on a curved hypersurface. <i>Journal of Mathematical Physics</i> , 2013, 54, .	1.1	24
45	Negative probabilities and information gain in weak measurements. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2505-2509.	2.1	3
46	Geometric Momentum and a Probe of Embedding Effects. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 104002.	1.6	21
47	GEOMETRIC MOMENTUM IN THE MONGE PARAMETRIZATION OF TWO-DIMENSIONAL SPHERE. <i>International Journal of Geometric Methods in Modern Physics</i> , 2013, 10, 1220031.	2.0	13
48	Publisher's Note: Information gain versus coupling strength in quantum measurements [<i>Phys. Rev. A</i> 85(4), 042330 (2012)]. <i>Physical Review A</i> , 2012, 85, .	2.5	0
49	Information gain versus coupling strength in quantum measurements. <i>Physical Review A</i> , 2012, 85, .	2.5	3
50	On Equivalence of Two Realizations for a Nonlinear Lie Algebra. <i>Communications in Theoretical Physics</i> , 2012, 57, 575-576.	2.5	1
51	Microstructural evolution and martensitic transformation mechanisms during solidification processes of liquid metal Pb. <i>Philosophical Magazine</i> , 2012, 92, 571-585.	1.6	10
52	Transformation Between Eigenfunctions of Three Components of Geometric Momentum on Two-Dimensional Sphere. <i>Communications in Theoretical Physics</i> , 2012, 58, 31-33.	2.5	5
53	Kinetic details of crystallization in supercooled liquid Pb during the isothermal relaxation. <i>Physica B: Condensed Matter</i> , 2012, 407, 240-245.	2.7	13
54	Crossover from Quantum to Boltzmann Statistics for Free Particles in a Single Harmonic Trap. <i>International Journal of Theoretical Physics</i> , 2012, 51, 390-398.	1.2	0

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55	Geometric momentum: The proper momentum for a free particle on a two-dimensional sphere. <i>Physical Review A</i> , 2011, 84, .	2.5	44
56	Formation and evolution characteristics of bcc phase during isothermal relaxation processes of supercooled liquid and amorphous metal Pb. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 588-597.	4.2	11
57	The classicality and quantumness of a quantum ensemble. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1855-1859.	2.1	7
58	Quantum measurements with preselection and postselection. <i>Physical Review A</i> , 2011, 84, .	2.5	84
59	Phase diagram of magnetic multilayers with tilted dual spin torques. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	19
60	Current-driven magnetization dynamics in magnetic trilayers with a tilted spin polarizer. <i>European Physical Journal B</i> , 2010, 73, 417-421.	1.5	31
61	Raising and Lowering Operators for Orbital Angular Momentum Quantum Numbers. <i>International Journal of Theoretical Physics</i> , 2010, 49, 2164-2171.	1.2	5
62	Tilted spin torque-driven ferromagnetic resonance in a perpendicular-analyzer magnetic trilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2264-2267.	2.3	11
63	Chemical potential for the Bose gases in a one-dimensional harmonic trap. <i>European Journal of Physics</i> , 2010, 31, L51-L53.	0.6	2
64	A notable difference between ideal gas and infinite molar volume limit of van der Waals gas. <i>European Journal of Physics</i> , 2010, 31, 671-673.	0.6	1
65	WAVE PACKETS ON SPHERICAL SURFACE VIEWED FROM EXPECTATION VALUES OF CARTESIAN VARIABLES. <i>International Journal of Geometric Methods in Modern Physics</i> , 2010, 07, 411-423.	2.0	7
66	A Particle Interacting with V-shaped Potential Decorated by a Dirac Delta Function Interaction at Center. <i>Communications in Theoretical Physics</i> , 2010, 53, 247-249.	2.5	5
67	Bose-Einstein condensation of bouncing balls. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 2383-2388.	2.6	5
68	High-performance ethanol sensing based on an aligned assembly of ZnO nanorods. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 57-60.	7.8	83
69	The structural and optical properties of ZnO nanorods via citric acid-assisted annealing route. <i>Journal of Materials Science</i> , 2008, 43, 6527-6530.	3.7	14
70	Controllable synthesis and optical characterizations of ZnO nanostructures by citric acid-assisted annealing process. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 531-535.	2.7	11
71	Temperature definition for a finite number of classical spin-half particles: A canonical ensemble approach. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 574-578.	2.1	1
72	Negative specific heat, phase transition and particles spilling from a potential well. <i>Annals of Physics</i> , 2008, 323, 1415-1423.	2.8	2

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73	Substrate-free growth, characterization and growth mechanism of ZnO nanorod close-packed arrays. Nanotechnology, 2008, 19, 035704.	2.6	31
74	TEMPERATURE FLUCTUATIONS FOR FINITE CLASSICAL SPIN-HALF PARTICLES. International Journal of Modern Physics B, 2007, 21, 4007-4012.	2.0	0
75	Fluids in porous media. II. A new model of templated matrices. Journal of Chemical Physics, 2007, 127, 144701.	3.0	5
76	Self-consistent theory for dynamic responses of mesoscopic systems. Physical Review B, 2007, 75, .	3.2	3
77	Constraint-induced mean curvature dependence of Cartesian momentum operators. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 4161-4168.	2.1	27
78	Dependence of the existence of thermal equilibrium on the number of particles at low temperatures. American Journal of Physics, 2007, 75, 431-433.	0.7	4
79	Temperature fluctuations for a finite system of classical spin-1/2 particles. Annals of Physics, 2007, 322, 2168-2178.	2.8	2
80	A new model of templated porous materials. Journal of Molecular Liquids, 2007, 136, 241-248.	4.9	4
81	Total Current Operator and its Classical Correspondence for Particles Bounded in Central Force Fields. International Journal of Theoretical Physics, 2007, 46, 424-429.	1.2	0
82	An alternative quantum theory for single particles and a proposed experimental test. Frontiers of Physics in China, 2007, 2, 273-278.	1.0	2
83	Fourth order elastic chiral filament model and the centerline of uniform Kirchhoff elastic rod. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 358-361.	2.1	5
84	Universality of Operator Ordering in Kinetic Energy Operator for Particles Moving on two Dimensional Surfaces. International Journal of Theoretical Physics, 2006, 45, 2137-2142.	1.2	4
85	Fluids in porous media. I. A hard sponge model. Journal of Chemical Physics, 2006, 125, 244703.	3.0	15
86	PERELOMOV AND BARUTâ€™GIRARDELLO SU(1, 1) COHERENT STATES FOR HARMONIC OSCILLATOR IN ONE-DIMENSIONAL HALF SPACE. International Journal of Modern Physics A, 2006, 21, 2635-2644.	1.5	1
87	Shape factor of nonspherical nanoparticles. Journal of Materials Science, 2005, 40, 2737-2739.	3.7	94
88	Quantum Motion on 2D Surface of Nonspherical Topology. International Journal of Theoretical Physics, 2004, 43, 1011-1017.	1.2	10
89	Classical Limit of Expectation Values in a Wave Packet Involving Few Stationary States. International Journal of Theoretical Physics, 2003, 42, 783-791.	1.2	1
90	Quantum Hamiltonian for the Rigid Rotator. International Journal of Theoretical Physics, 2003, 42, 2877-2880.	1.2	7

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91	Static bistable helices in generalized Helfrich elastic theory of a chiral filament. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 317, 401-405.	2.1	3
92	APEX SHIFT OF CIRCULAR BICONCAVE VESICLES. <i>International Journal of Modern Physics B</i> , 2003, 17, 4661-4665.	2.0	2
93	The Fejér average and the mean value of a quantity in a quasiclassical wave packet. <i>Journal of Mathematical Physics</i> , 2002, 43, 170-181.	1.1	6
94	The hydrogen atom's quantum-to-classical correspondence in Heisenberg's correspondence principle. <i>Journal of Physics A</i> , 2001, 34, 5713-5719.	1.6	12
95	The classical limit of quantum mechanics and the Fejér sum of the Fourier series expansion of a classical quantity. <i>Journal of Physics A</i> , 1999, 32, L57-L62.	1.6	10
96	Cylindrical configurations of classical string with rigidity. <i>Journal of Physics A</i> , 1999, 32, 5493-5497.	1.6	4
97	Spheres and prolate and oblate ellipsoids from an analytical solution of the spontaneous-curvature fluid-membrane model. <i>Physical Review E</i> , 1999, 60, 3227-3233.	2.1	15
98	The complete Schwarzschild interior and exterior solution in the harmonic coordinate system. <i>Journal of Mathematical Physics</i> , 1998, 39, 6086-6090.	1.1	8