

Orion Ciftja

List of Publications by Year in descending order

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124
papers

1,541
citations

361413

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h-index

477307

29
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126
all docs

126
docs citations

126
times ranked

586
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrostatic energy of interaction between uniformly charged hemispherical surfaces. Journal of Electrostatics, 2022, 115, 103666.	1.9	1
2	Two-dimensional finite quantum Hall clusters of electrons with anisotropic features. Scientific Reports, 2022, 12, 2383.	3.3	6
3	Detailed Study of an Ultra-Small Pauli Crystal. Few-Body Systems, 2022, 63, 1.	1.5	0
4	Variation of the elliptical Fermi surface for a two-dimensional electron gas with anisotropic mass. Journal of Physics: Conference Series, 2022, 2164, 012023.	0.4	0
5	Fourier transform method for the electrostatic self-energy of a solid sphere with uniform volume charge density. European Journal of Physics, 2021, 42, 025204.	0.6	4
6	Deformation of the Fermi surface of a spinless two-dimensional electron gas in presence of an anisotropic Coulomb interaction potential. Scientific Reports, 2021, 11, 3181.	3.3	12
7	New solution method for the problem of a uniformly charged straight wire. European Journal of Physics, 2021, 42, 025203.	0.6	3
8	Energy Stored and Capacitance of a Circular Parallel Plate Nanocapacitor. Nanomaterials, 2021, 11, 1255.	4.1	7
9	Electrostatic potential energy stored in a hemispherical surface with uniform surface charge distribution. Journal of Electrostatics, 2021, 111, 103579.	1.9	5
10	A two-dimensional electron gas suspended above a neutralizing background. Annals of Physics, 2021, 429, 168468.	2.8	0
11	Origin of the anisotropic Coulomb interaction potential for a two-dimensional system of charged particles with anisotropic mass. Results in Physics, 2021, 26, 104427.	4.1	3
12	Integer quantum Hall effect with an anisotropic Coulomb interaction potential. Journal of Physics and Chemistry of Solids, 2021, 156, 110131.	4.0	9
13	Interaction energy between two identical hemispherical surfaces with uniform surface charge density. European Journal of Physics, 2021, 42, 065202.	0.6	2
14	Results for the electrostatic potential of a uniformly charged hemispherical surface. Results in Physics, 2021, 30, 104892.	4.1	4
15	Exact classical spin dynamics of high spin nanoscale molecular magnetic clusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, , 127826.	2.1	2
16	Energy of a finite three-dimensional electron gas of spinless electrons. Journal of Physics and Chemistry of Solids, 2020, 136, 109135.	4.0	4
17	Energy of the Bose Laughlin quantum Hall state of few electrons at half filling of the lowest Landau level. Annals of Physics, 2020, 421, 168279.	2.8	4
18	Minimum and maximum energy for crystals of magnetic dipoles. Scientific Reports, 2020, 10, 19113.	3.3	6

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19	A uniformly charged circular disk with an anisotropic Coulomb interaction potential. Journal of Electrostatics, 2020, 107, 103472.	1.9	8
20	Results for charged disks with different forms of surface charge density. Results in Physics, 2020, 16, 102962.	4.1	13
21	Results for the ground state energy of a finite system of dipoles in a one-dimensional crystal lattice. Results in Physics, 2020, 17, 103178.	4.1	4
22	Detailed solution of the problem of Landau states in a symmetric gauge. European Journal of Physics, 2020, 41, 035404.	0.6	17
23	Results for the electrostatic potential of a uniformly charged square plate. Results in Physics, 2020, 19, 103671.	4.1	8
24	Electrostatic potential of a uniformly charged square plate at an arbitrary point in space. Physica Scripta, 2020, 95, 095802.	2.5	4
25	Statistical Interaction Description of Pauli Crystals in 2D Systems of Harmonically Confined Fermions. Annalen Der Physik, 2019, 531, 1900075.	2.4	5
26	Electrostatic interaction energy between two coaxial parallel uniformly charged disks. Results in Physics, 2019, 15, 102684.	4.1	12
27	Impact of an elliptical Fermi surface deformation on the energy of a spinless two-dimensional electron gas. Physica Scripta, 2019, 94, 105806.	2.5	7
28	Equivalence of an infinite one-dimensional ionic crystal to a simple electrostatic model. Results in Physics, 2019, 13, 102325.	4.1	2
29	On a solution method for the bound energy states of a particle in a one-dimensional symmetric finite square well potential. European Journal of Physics, 2019, 40, 045402.	0.6	2
30	Origin of the anomalous size-dependent increase of capacitance in boron nitrideâ€“graphene nanocapacitors. RSC Advances, 2019, 9, 7849-7853.	3.6	14
31	Hypergeometric solutions for Coulomb self-energy model of uniformly charged hollow cylinder. Integral Transforms and Special Functions, 2019, 30, 418-430.	1.2	3
32	Properties of Quantum Dots and Their Biological Applications. , 2019, , 21-45.		0
33	Exact results for a quantum Hall state with broken rotational symmetry. Journal of Physics and Chemistry of Solids, 2019, 130, 256-262.	4.0	12
34	Geometrical interpretation of the electrostatic potential created by a uniformly charged straight wire. European Journal of Physics, 2019, 40, 015501.	0.6	2
35	Classical Magnetism and an Integral Formula Involving Modified Bessel Functions. International Journal of Nonlinear Sciences and Numerical Simulation, 2018, 19, 409-414.	1.0	6
36	Vortical structures for nanomagnetic memory induced by dipole-dipole interaction in monolayer disks. Superlattices and Microstructures, 2018, 117, 495-502.	3.1	6

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37	Coulomb potential and energy of a uniformly charged cylindrical shell. <i>Journal of Electrostatics</i> , 2018, 96, 45-48.	1.9	9
38	Interaction energy of a pair of identical coplanar uniformly charged nanodisks. <i>AIP Advances</i> , 2018, 8, 035209.	1.3	1
39	Emergence of liquid crystalline order in the lowest Landau level of a quantum Hall system with internal anisotropy. <i>AIP Advances</i> , 2018, 8, 055812.	1.3	1
40	Coulomb self-energy integral of a uniformly charged d-cube: A physically-based method for approximating multiple integrals. <i>Journal of Electrostatics</i> , 2017, 85, 52-60.	1.9	12
41	Anisotropic electronic states in the fractional quantum Hall regime. <i>AIP Advances</i> , 2017, 7, .	1.3	10
42	Cyclotron motion of a charged particle with anisotropic mass. <i>American Journal of Physics</i> , 2017, 85, 359-363.	0.7	12
43	Equilibrium charge distribution on a finite straight one-dimensional wire. <i>European Journal of Physics</i> , 2017, 38, 055202.	0.6	13
44	Equilibrium and uniform charge distribution of a classical two-dimensional system of point charges with hard-wall confinement. <i>Physica Scripta</i> , 2017, 92, 055801.	2.5	37
45	Interplay of Dzyaloshinsky-Moriya and dipole-dipole interactions and their joint effects upon vortical structures on nanodisks. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 90, 13-20.	2.7	8
46	Anisotropic magnetoresistance and piezoelectric effect in GaAs Hall samples. <i>Physical Review B</i> , 2017, 95, .	3.2	17
47	A result for the Coulomb electrostatic energy of a uniformly charged disk. <i>Results in Physics</i> , 2017, 7, 1674-1675.	4.1	20
48	Results for the energy of a finite one-dimensional ionic crystal. <i>Results in Physics</i> , 2017, 7, 3696-3697.	4.1	2
49	Pauli structures arising from confined particles interacting via a statistical potential. <i>Annals of Physics</i> , 2017, 384, 11-19.	2.8	6
50	A quantum simulation approach for a three-dimensional Ising spin model—Comparison to mean field theory. <i>AIP Advances</i> , 2017, 7, .	1.3	1
51	Layer-Dependent Energy of Two Parallel Charged Nano-Layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9964-9971.	0.9	13
52	Stored Coulomb Self-Energy of a Uniformly Charged Rectangular Plate. <i>Advances in Mathematical Physics</i> , 2016, 2016, 1-8.	0.8	15
53	Electric field controlled spin interference in a system with Rashba spin-orbit coupling. <i>AIP Advances</i> , 2016, 6, 055217.	1.3	6
54	Magnetic properties of a classical XY spin dimer in a coplanar magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 416, 220-225.	2.3	8

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55	Anisotropic Quantum Hall Liquid States with No Translational Invariance in the Lowest Landau Level. Journal of Low Temperature Physics, 2016, 183, 85-91.	1.4	3
56	Properties of a finite fully spin-polarized free homogeneous one-dimensional electron gas. AIP Advances, 2015, 5, .	1.3	8
57	Shape-Dependent Energy of an Elliptical Jellium Background. Advances in Condensed Matter Physics, 2015, 2015, 1-4.	1.1	14
58	Quantitative Analysis of Shape-Sensitive Interaction of a Charged Nanoplate and a Charged Nanowire. Nano, 2015, 10, 1550114.	1.0	6
59	Concise presentation of the Coulomb electrostatic potential of a uniformly charged cube. Journal of Electrostatics, 2015, 76, 127-137.	1.9	8
60	Hartree-Fock energy of a finite two-dimensional electron gas system in a jellium background. Physica B: Condensed Matter, 2015, 458, 92-97.	2.7	19
61	Mathematical expressions for a system of two identical uniformly charged rods. Physica Scripta, 2014, 89, 115803.	2.5	3
62	Finite clusters of fast-rotating spinless bosons in a harmonic trap. Journal of Physics and Chemistry of Solids, 2014, 75, 931-935.	4.0	5
63	Effects of Al-Mn co-doping on magnetic properties of semiconducting oxide thin films. Physica Status Solidi (B): Basic Research, 2014, 251, 2274-2278.	1.5	8
64	Two-dimensional motion of a parabolically confined charged particle in a perpendicular magnetic field. Open Physics, 2013, 11, .	1.7	2
65	Anisotropy in a high Landau level due to effective electron-electron interactions. Journal of the Korean Physical Society, 2013, 62, 1550-1554.	0.7	1
66	Anisotropic Quantum Hall Liquids at Intermediate Magnetic Fields. Journal of Low Temperature Physics, 2013, 170, 166-171.	1.4	3
67	Calculation of the Coulomb electrostatic potential created by a uniformly charged square on its plane: Exact mathematical formulas. Journal of Electrostatics, 2013, 71, 102-108.	1.9	22
68	Ferrite nanoparticles for future heart diagnostics. Applied Physics A: Materials Science and Processing, 2013, 112, 323-327.	2.3	17
69	Understanding electronic systems in semiconductor quantum dots. Physica Scripta, 2013, 88, 058302.	2.5	39
70	Energy in a finite two-dimensional spinless electron gas. AIP Advances, 2013, 3, .	1.3	18
71	QUANTUM HALL EDGE PHYSICS AND ITS ONE-DIMENSIONAL LUTTINGER LIQUID DESCRIPTION. International Journal of Modern Physics B, 2012, 26, 1244001.	2.0	6
72	Room temperature ferromagnetism in monoclinic Mn-doped ZrO ₂ thin films. Journal of Applied Physics, 2012, 111, 07C302.	2.5	39

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73	Realistic confinement potential for a square-patterned two-dimensional semiconductor quantum dot and its approximated circular counterpart. <i>International Nano Letters</i> , 2012, 2, 1.	5.0	6
74	Confinement of electrons in a geometrically patterned non-circular two-dimensional semiconductor quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1337-1344.	0.8	2
75	Coulomb self-energy of a uniformly charged three-dimensional cylinder. <i>Physica B: Condensed Matter</i> , 2012, 407, 2803-2807.	2.7	20
76	Coulomb self-energy of a uniformly charged three-dimensional cube. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 766-767.	2.1	19
77	Semi-Classical Model of Strongly Correlated Coulomb Systems in Weak Magnetic Field. <i>Contributions To Plasma Physics</i> , 2011, 51, 401-404.	1.1	2
78	The electrostatic potential of a uniformly charged disk as the source of novel mathematical identities. <i>Applied Mathematics Letters</i> , 2011, 24, 1919-1923.	2.7	27
79	Finite-size Monte Carlo results for anisotropic quantum Hall liquids. <i>Physical Review B</i> , 2011, 83, .	3.2	11
80	Exact results for finite quantum Hall systems of electrons at filling factor one: Disk geometry. <i>Journal of Mathematical Physics</i> , 2011, 52, .	1.1	31
81	Electric potential of a uniformly charged square on its plane. <i>European Journal of Physics</i> , 2011, 32, L55-L57.	0.6	21
82	ONE-PARTICLE DENSITY OF LAUGHLIN STATES AT FINITE N. <i>Modern Physics Letters B</i> , 2011, 25, 1983-1992.	1.9	5
83	Magnetic properties of small molecular clusters. <i>Journal of Physics: Conference Series</i> , 2010, 200, 022002.	0.4	6
84	Effective Interaction Potentials in the Uppermost Landau Level. <i>Journal of Low Temperature Physics</i> , 2010, 159, 189-192.	1.4	5
85	Coulomb self-energy and electrostatic potential of a uniformly charged square in two dimensions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 981-983.	2.1	24
86	ANALYTIC WAVE FUNCTIONS FOR THE HALF-FILLED LOWEST LANDAU LEVEL. <i>International Journal of Modern Physics B</i> , 2010, 24, 3489-3499.	2.0	13
87	Anisotropy of quantum Hall phases at filling factor $\hat{\nu}=9/2$. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	13
88	A JASTROW CORRELATION FACTOR FOR TWO-DIMENSIONAL PARABOLIC QUANTUM DOTS. <i>Modern Physics Letters B</i> , 2009, 23, 3055-3064.	1.9	29
89	Few-electron semiconductor quantum dots in magnetic field. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 825-828.	0.8	3
90	Exact results for systems of electrons in the fractional quantum Hall regime. <i>Physica B: Condensed Matter</i> , 2009, 404, 227-230.	2.7	20

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91	Classical behavior of few-electron parabolic quantum dots. <i>Physica B: Condensed Matter</i> , 2009, 404, 1629-1631.	2.7	18
92	Lamellar-like structures in ferrofluids placed in strong magnetic fields. <i>Solid State Communications</i> , 2009, 149, 532-536.	1.9	10
93	Exact results for systems of electrons in the fractional quantum Hall regime II. <i>Physica B: Condensed Matter</i> , 2009, 404, 2244-2246.	2.7	14
94	The electrostatic potential of a uniformly charged ring. <i>European Journal of Physics</i> , 2009, 30, 623-627.	0.6	26
95	Anisotropy in two-dimensional electronic quantum Hall systems at half-filled valence Landau levels. <i>Physica B: Condensed Matter</i> , 2008, 403, 1511-1513.	2.7	11
96	Generalized description of few-electron quantum dots at zero and nonzero magnetic fields. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 046220.	1.8	26
97	An experimentally justified confining potential for electrons in two-dimensional semiconductor quantum dots. <i>Journal of Computer-Aided Materials Design</i> , 2007, 14, 37-44.	0.7	13
98	Spin dynamics of an ultra-small nanoscale molecular magnet. <i>Nanoscale Research Letters</i> , 2007, 2, 168-174.	5.7	11
99	Two interacting electrons in a one-dimensional parabolic quantum dot: exact numerical diagonalization. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 2623-2633.	1.8	22
100	Monte Carlo study of Bose Laughlin wave function for filling factors $1/2$, $1/4$ and $1/6$. <i>Europhysics Letters</i> , 2006, 74, 486-492.	2.0	42
101	NOVEL LIQUID CRYSTALLINE PHASES IN QUANTUM HALL SYSTEMS. <i>International Journal of Modern Physics B</i> , 2006, 20, 747-778.	2.0	31
102	An anyon wavefunction for the fractional quantum Hall effect. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 2977-2983.	1.8	10
103	Two-dimensional quantum-dot helium in a magnetic field: Variational theory. <i>Physical Review B</i> , 2005, 72, .	3.2	43
104	Liquid crystalline states for two-dimensional electrons in strong magnetic fields. <i>Physical Review B</i> , 2004, 69, .	3.2	21
105	Ground state of two-dimensional quantum-dot helium in zero magnetic field: Perturbation, diagonalization, and variational theory. <i>Physical Review B</i> , 2004, 70, .	3.2	32
106	Trial state for a two-dimensional hexatic. <i>Physical Review B</i> , 2003, 67, .	3.2	14
107	Monte Carlo simulation method for Laughlin-like states in a disk geometry. <i>Physical Review B</i> , 2003, 67, .	3.2	67
108	Short-time-evolved wave functions for solving quantum many-body problems. <i>Physical Review B</i> , 2003, 68, .	3.2	18

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109	Fermi hypernetted-chain study of half-filled Landau levels with broken rotational symmetry. <i>Physical Review B</i> , 2002, 65, .	3.2	35
110	Liquid crystalline states in quantum Hall systems. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 3705-3713.	1.8	12
111	Coulomb energy of quasiparticle excitations in Chern-Simons composite fermion states. <i>Solid State Communications</i> , 2002, 122, 401-406.	1.9	10
112	Energy gaps for fractional quantum Hall states described by a Chern-Simons composite fermion wavefunction. <i>European Physical Journal B</i> , 2001, 23, 437-440.	1.5	7
113	Theoretical estimates for the correlation energy of the unprojected composite fermion wave function. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 9, 226-230.	2.7	17
114	⁴ He Shadow Wave Function with an Inverse Seventh Power Particle-Particle Correlation Function. <i>Journal of Low Temperature Physics</i> , 2001, 122, 605-616.	1.4	3
115	The irregular tetrahedron of classical and quantum spins subjected to a magnetic field. <i>Journal of Physics A</i> , 2001, 34, 1611-1627.	1.6	18
116	The coherent-state wave function for solid ³ He. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 1041-1050.	1.8	3
117	Hypernetted-chain study of broken rotational symmetry states for the $\nu=1/3$ fractional quantum Hall effect and other fractionally filled Landau levels. <i>Physical Review B</i> , 2001, 65, .	3.2	15
118	Spin correlation functions of some frustrated ultra-small classical Heisenberg clusters. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 286, 541-557.	2.6	16
119	A simple derivation of the exact wavefunction of a harmonic oscillator with time-dependent mass and frequency. <i>Journal of Physics A</i> , 1999, 32, 6385-6389.	1.6	15
120	Exact results for a composite-fermion wave function. <i>Physical Review B</i> , 1999, 59, 8132-8136.	3.2	8
121	Equation of state and spin-correlation functions of ultrasmall classical Heisenberg magnets. <i>Physical Review B</i> , 1999, 60, 10122-10133.	3.2	54
122	Application of the Fermi Hypernetted-Chain theory and Effective Correlation Factor method for Laughlin quantum Hall states. <i>Journal of Low Temperature Physics</i> , 1997, 108, 357-371.	1.4	10
123	Ladder Ising spin configurations II. magnetic properties. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 197, 153-164.	1.5	2
124	A new hypernetted-chain treatment for Laughlin quantum Hall states. <i>Europhysics Letters</i> , 1996, 36, 663-668.	2.0	17