John W Clark

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Theoretical and experimental developments in quantum spin liquid in geometrically frustrated magnets: a review. Journal of Materials Science, 2020, 55, 2257-2290.	1.7	18
2	Fermion Condensation: Theory and Experiment. Physics of Atomic Nuclei, 2020, 83, 101-117.	0.1	0
3	Universal T/B Scaling Behavior of Heavy Fermion Compounds (Brief Review). JETP Letters, 2020, 112, 657-665.	0.4	5
4	Topological disorder triggered by interaction-induced flattening of electron spectra in solids. Physical Review B, 2020, 102, .	1.1	9
5	Metamorphoses of Electron Systems Hosting a Fermion Condensate. JETP Letters, 2020, 111, 96-103.	0.4	1
6	Thermodynamic, Dynamic, and Transport Properties of Quantum Spin Liquid in Herbertsmithite from an Experimental and Theoretical Point of View. Condensed Matter, 2019, 4, 75.	0.8	5
7	Superfluidity in nuclear systems and neutron stars. European Physical Journal A, 2019, 55, 1.	1.0	110
8	Impact of electron-electron interactions on the superfluid density of dirty superconductors. Physical Review B, 2019, 99, .	1.1	10
9	Topological Scenario for High-Temperature Superconductivity in Cuprates. JETP Letters, 2018, 108, 260-269.	0.4	2
10	Toward a topological scenario for high-temperature superconductivity of copper oxides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3281-3286.	0.9	7
11	Microscopic study of 1S0 superfluidity in dilute neutron matter. European Physical Journal A, 2017, 53, 1.	1.0	13
12	Superfluidity and Pairing Phenomena from Cold Atomic Gases to Neutron Stars. Journal of Low Temperature Physics, 2017, 189, 231-233.	0.6	1
13	New State of Matter: Heavy Fermion Systems, Quantum Spin Liquids, Quasicrystals, Cold Gases, and High-Temperature Superconductors. Journal of Low Temperature Physics, 2017, 189, 410-450.	0.6	17
14	Three-Nucleon Forces and Triplet Pairing in Neutron Matter. Journal of Low Temperature Physics, 2017, 189, 361-382.	0.6	13
15	\$\$^1S_0\$\$ 1 S 0 Pairing in Neutron Matter. Journal of Low Temperature Physics, 2017, 189, 470-494.	0.6	15
16	Role of a fermion condensate in the structure of high-temperature pairing in cuprates. JETP Letters, 2017, 105, 267-272.	0.4	5
17	Topological basis for understanding the behavior of the heavy-fermion metalβâ^'YbAlB4under application of magnetic field and pressure. Physical Review B, 2016, 93, .	1.1	12
18	Scaling behavior of the thermopower of the archetypal heavy-fermion metal YbRh2Si2. Frontiers of Physics, 2016, 11, 1.	2.4	2

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19	Occurrence of flat bands in strongly correlated Fermi systems and high-T c superconductivity of electron-doped compounds. JETP Letters, 2015, 101, 413-418.	0.4	19
20	Merging of Landau Levels in a Strongly Interacting Two-Dimensional Electron System in Silicon. Physical Review Letters, 2014, 112, 186402.	2.9	24
21	Conventional BCS, unconventional BCS, and non-BCS hidden dineutron phases in neutron matter. Physics of Atomic Nuclei, 2014, 77, 1145-1156.	0.1	5
22	Designing neural networks that process mean values of random variables. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2163-2167.	0.9	2
23	CLASSICAL BEHAVIOR OF TWO-DIMENSIONAL LIQUID ³ He NEAR A QUANTUM CRITICAL POINT. International Journal of Modern Physics B, 2013, 27, 1347005.	1.0	0
24	MEMORIAL TRIBUTE TO MANFRED L. RISTIG (1935–2011). International Journal of Modern Physics B, 2013, 27, 1347003.	1.0	0
25	Pairing with Correlated Wave Functions: BCS in CBF. , 2013, , 360-375.		2
26	Magnetic field dependence of the residual resistivity of the heavy-fermion metal CeCoIn <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:mrow </mml:msub>. Physical Review B, 2012, 86, .</mml:math 	1.1	38
27	Phase diagram of dilute nuclear matter: Unconventional pairing and the BCS-BEC crossover. Physical Review C, 2012, 86, .	1.1	19
28	Nature of the quantum critical point as disclosed by extraordinary behavior of magnetotransport and the lorentz number in the heavy-fermion metal YbRh2Si2. JETP Letters, 2012, 96, 397-404.	0.4	10
29	Adaptation of the Landau-Migdal quasiparticle pattern to strongly correlated Fermi systems. Physics of Atomic Nuclei, 2011, 74, 1237-1266.	0.1	29
30	DISSECTING AND TESTING COLLECTIVE AND TOPOLOGICAL SCENARIOS FOR THE QUANTUM CRITICAL POINT. , 2011, , .		0
31	Motion processing with wide-field neurons in the retino-tecto-rotundal pathway. Journal of Computational Neuroscience, 2010, 28, 47-64.	0.6	3
32	Aspects of Entanglement in Quantum Many-Body Systems. Foundations of Physics, 2010, 40, 1200-1220.	0.6	3
33	Second wind of the Dulong-Petit law at a quantum critical point. JETP Letters, 2010, 92, 532-536.	0.4	22
34	Spontaneous breaking of fourfold rotational symmetry in two-dimensional electron systems as a topological phase transition. Physical Review B, 2010, 82, .	1.1	3
35	TOPOLOGICAL PHASE TRANSITIONS IN STRONGLY CORRELATED FERMI SYSTEMS. International Journal of Modern Physics B, 2009, 23, 4059-4073.	1.0	3
36	Contextual interactions in a generalized energy model of complex cells. Spatial Vision, 2009, 22, 301-324.	1.4	1

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37	Structure of the ground state of a nonsuperfluid dense quark-gluon plasma. Physics of Atomic Nuclei, 2009, 72, 1382-1389.	0.1	6
38	TOPOLOGICAL PHASE TRANSITIONS IN STRONGLY CORRELATED FERMI SYSTEMS. , 2009, , .		0
39	CHARLES CAMPBELL AT SIXTY-FIVE: A TRIBUTE TO INNOVATION AND ENDURING DEDICATION. International Journal of Modern Physics B, 2008, 22, 4291-4295.	1.0	1
40	Topology of the Fermi surface beyond the quantum critical point. Physical Review B, 2008, 78, .	1.1	95
41	THE LEGACY OF EUGENE FEENBERG AT THE CENTENARY OF HIS BIRTH. , 2008, , .		1
42	MANY-BODY METHODS FOR NUCLEAR SYSTEMS AT SUBNUCLEAR DENSITIES. , 2008, , .		0
43	CHARLES CAMPBELL AT SIXTY-FIVE: A TRIBUTE TO INNOVATION AND ENDURING DEDICATION. , 2008, , .		0
44	THE BRAIN'S VIEW OF THE NATURAL WORLD IN MOTION: COMPUTING STRUCTURE FROM FUNCTION USING DIRECTIONAL FOURIER TRANSFORMATIONS. International Journal of Modern Physics B, 2007, 21, 2493-2504.	1.0	3
45	NON-FERMI-LIQUID BEHAVIOR FROM THE FERMI-LIQUID APPROACH. International Journal of Modern Physics B, 2007, 21, 2077-2090.	1.0	1
46	Merging of Single-Particle Levels and Non-Fermi-Liquid Behavior of Finite Fermi Systems. Physical Review Letters, 2007, 98, 216404.	2.9	29
47	Merging of single-particle levels in finite Fermi systems. JETP Letters, 2007, 84, 588-592.	0.4	3
48	Nodes of the Gap Function and Anomalies in Thermodynamic Properties of the B-Phase of Superfluid 3He. Journal of Low Temperature Physics, 2007, 147, 645-665.	0.6	0
49	THE BRAIN'S VIEW OF THE NATURAL WORLD IN MOTION: COMPUTING STRUCTURE FROM FUNCTION USING DIRECTIONAL FOURIER TRANSFORMATIONS. , 2007, , .		0
50	RAYMOND BISHOP AND HERMANN KÜMMEL: FEENBERG MEDALISTS 2005 THE COUPLED CLUSTER METHOD. , 2006, , .		0
51	Pair condensation and bound states in fermionic systems. Physical Review C, 2006, 73, .	1.1	33
52	RAYMOND BISHOP AND HERMANN KÜMMEL: FEENBERG MEDALISTS 2005 THE COUPLED CLUSTER METHOD. International Journal of Modern Physics B, 2006, 20, 4973-4981.	1.0	1
53	APPLICATION OF SUPPORT VECTOR MACHINES TO GLOBAL PREDICTION OF NUCLEAR PROPERTIES. International Journal of Modern Physics B, 2006, 20, 5015-5029.	1.0	17
54	Nuclear Superconductivity in Compact Stars: BCS Theory and Beyond. Series on Advances in Quantum Many-body Theory, 2006, , 135-174.	0.2	12

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55	APPLICATION OF SUPPORT VECTOR MACHINES TO GLOBAL PREDICTION OF NUCLEAR PROPERTIES. , 2006, , .		0
56	Damping effects and the metal-insulator transition in a two-dimensional electron gas. JETP Letters, 2005, 81, 315-320.	0.4	14
57	Computing relative motion with complex cells. Visual Neuroscience, 2005, 22, 225-236.	0.5	2
58	Thermodynamic properties of Fermi systems with flat single-particle spectra. Europhysics Letters, 2005, 72, 256-262.	0.7	6
59	Elliptical orbits in the Bloch sphere. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S277-S282.	1.4	6
60	Anomalous low-temperature behavior of strongly correlated Fermi systems. Physical Review B, 2005, 71, .	1.1	80
61	Mechanisms driving alteration of the Landau state in the vicinity of a second-order phase transition. Journal of Physics Condensed Matter, 2004, 16, 6431-6444.	0.7	6
62	Phase Transitions in Nucleonic Matter and Neutron-Star Cooling. Physical Review Letters, 2004, 93, 151101.	2.9	31
63	Neural Representation of Probabilistic Information. Neural Computation, 2003, 15, 1843-1864.	1.3	34
64	Final-state interactions in the response of nuclear matter. Physical Review C, 2003, 67, .	1.1	14
65	CONTROL OF QUANTUM SYSTEMS. International Journal of Modern Physics B, 2003, 17, 5397-5411.	1.0	30
66	Non-BCS pairing in anisotropic strongly correlated electron systems in solids. JETP Letters, 2002, 76, 302-306.	0.4	0
67	Bose–Einstein Condensation and the λ Transition in Liquid Helium. Journal of Low Temperature Physics, 2002, 129, 143-170.	0.6	29
68	CONTROL OF QUANTUM SYSTEMS. , 2002, , .		2
69	Impact of spin-isospin fluctuations on single-particle degrees of freedom in dense neutron matter. Physics of Atomic Nuclei, 2001, 64, 619-626.	0.1	7
70	ANTHONY LEGGETT: FEENBERG MEDALIST 1999 CONDENSED MATTER AS A TEST-BED FOR FUNDAMENTAL QUANTUM MECHANICS. International Journal of Modern Physics B, 2001, 15, 1305-1311.	1.0	2
71	STATISTICAL MODELING OF NUCLEAR SYSTEMATICS. , 2001, , .		1
72	Edwin Thompson Jaynes. Physics Today, 2000, 53, 71-72.	0.3	2

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73	Rearrangement of the Fermi Surface of Dense Neutron Matter and the Direct Urca Cooling of Neutron Stars. Astrophysical Journal, 2000, 533, L127-L130.	1.6	22
74	ANTHONY LEGGETT: FEENBERG MEDALIST 1999 CONDENSED MATTER AS A TEST-BED FOR FUNDAMENTAL QUANTUM MECHANICS. , 2000, , .		0
75	Higher-order probabilistic perceptrons as Bayesian inference engines. Physical Review E, 1999, 59, 6161-6174.	0.8	9
76	THE TRANSVERSE ISING MODEL BY CBF. International Journal of Modern Physics B, 1999, 13, 741-747.	1.0	2
77	Toward a Microscopic Theory of the λ Transition in Liquid 4He. Journal of Low Temperature Physics, 1999, 114, 317-348.	0.6	8
78	Transverse Ising model at zero temperature. Physical Review B, 1998, 57, 56-59.	1.1	13
79	Universalities of Triplet Pairing in Neutron Matter. Physical Review Letters, 1998, 81, 3828-3831.	2.9	45
80	A modified backpropagation algorithm for training neural networks on data with error bars. Computer Physics Communications, 1995, 88, 1-22.	3.0	10
81	Fermi hypernetted-chain evaluation of a generalized momentum distribution for model nuclear matter. Physical Review C, 1995, 51, 1849-1858.	1.1	7
82	Surface modes of liquidHe4. Physical Review B, 1994, 49, 15836-15848.	1.1	20
83	Resonant states of the4He liquid-vapor interface. Journal of Low Temperature Physics, 1994, 96, 153-175.	0.6	16
84	Vacuum ground and excited states of the U(1) lattice gauge Hamiltonian. Physical Review D, 1991, 43, 1978-1990.	1.6	29
85	Relative entropy and learning rules. Physical Review A, 1991, 43, 1061-1070.	1.0	16
86	Elementary excitations of spin-aligned deuterium. Physical Review B, 1990, 41, 757-760.	1.1	5
87	Two-body density matrix of a normal Fermi fluid. Physical Review B, 1990, 41, 8811-8823.	1.1	11
88	Experiments in artificial psychology: conditioning of asynchronous neutral network models. Mathematical Biosciences, 1990, 99, 77-104.	0.9	5
89	Two-body density matrix of a Bose fluid. Physical Review B, 1989, 40, 4355-4368.	1.1	30
90	Ground-state phases of polarized deuterium species. Physical Review B, 1987, 36, 5527-5539.	1.1	19

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91	Clustered quark matter. Physical Review C, 1986, 33, 703-708.	1.1	10
92	Brain without mind: Computer simulation of neural networks with modifiable neuronal interactions. Physics Reports, 1985, 123, 215-273.	10.3	55
93	Ground-state properties of spin-aligned deuterium. Physical Review B, 1985, 32, 2945-2951.	1.1	16
94	Variational Monte Carlo study of heavy-atom impurities in liquidHe4. Physical Review B, 1985, 32, 2952-2959.	1.1	7
95	Variational Monte Carlo study of spin-dependent correlations in liquidHe3. Physical Review B, 1984, 30, 1342-1348.	1.1	11
96	Self-organization of neural networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 102, 207-211.	0.9	10
97	On the controllability of quantumâ€mechanical systems. Journal of Mathematical Physics, 1983, 24, 2608-2618.	0.5	342
98	Properties of elementary excitations in spin-polarized liquidHe3. Physical Review B, 1983, 28, 5088-5099.	1.1	38
99	Abnormal occupation in boson matter. Physical Review C, 1982, 25, 560-570.	1.1	7
100	Variational Monte Carlo Calculations for Spin-Aligned Deuterium. Physical Review Letters, 1982, 48, 1675-1677.	2.9	20
101	Ground-state energetics of helium and deuterium fermion fluids. Physical Review B, 1981, 24, 6383-6403.	1.1	65
102	Modelling of quantum mechanical control systems. Mathematical Modelling, 1980, 1, 109-121.	0.2	44
103	Density matrix and spin-dependent correlations of normal liquidHe3. Physical Review B, 1979, 19, 3539-3551.	1.1	20
104	Variational theory of nuclear matter. Progress in Particle and Nuclear Physics, 1979, 2, 89-199.	5.6	232
105	Theoretical momentum distributions for liquidHe3. Physical Review B, 1978, 17, 1147-1151.	1.1	14
106	Density matrix and momentum distribution of helium liquids and nuclear matter. Physical Review B, 1977, 16, 222-230.	1.1	43
107	Density matrix of quantum fluids. Physical Review B, 1976, 14, 2875-2887.	1.1	69
108	Evidence against solidification of a model neutron system. Physical Review D, 1975, 11, 3365-3369.	1.6	5

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109	Embedding of the Brueckner Approximation in the Extended Jastrow Scheme. Physical Review C, 1973, 7, 1792-1803.	1.1	19
110	Role of the Dispersion Effect in the Method of Correlated Basis Functions. Physical Review C, 1972, 5, 1233-1237.	1.1	8
111	Tensor Correlations in Nuclear Matter: Three-Body Effects. Physical Review C, 1972, 5, 695-706.	1.1	15
112	Subsidiary Conditions on Nuclear Many-Body Theories. Physical Review C, 1972, 5, 1553-1561.	1.1	13
113	The Crystallization of Neutronic Matter. Nature: Physical Science, 1972, 236, 37-39.	0.8	27
114	Fission and the ion-ion interaction. Annals of Physics, 1971, 62, 464-491.	1.0	13
115	Tensor Correlations in Nuclear Matter. Physical Review C, 1971, 3, 1504-1513.	1.1	53
116	Cluster-expansion procedures for the correlated charge form factor. Il Nuovo Cimento A, 1970, 70, 313-322.	0.2	22
117	Nuclear Heavy-ion-Heavy-ion Collisions and the Intermediate-State Model. Physical Review Letters, 1969, 22, 951-955.	2.9	31
118	Magnetic Susceptibility of Neutron Matter. Physical Review Letters, 1969, 23, 1463-1466.	2.9	42
119	Effect of attractive nuclear forces on the onset of ferromagnetism in neutron star matter. Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica, 1969, 2, 185-188.	0.4	46
120	Cluster Expansions in Manyâ€Fermion Theory. I. ``Factor luster'' Formalisms. Journal of Mathematical Physics, 1968, 9, 131-148.	0.5	113
121	Cluster Expansions in Manyâ€Fermion Theory. II. Rearrangements of Primitive Decomposition Equations. Journal of Mathematical Physics, 1968, 9, 149-154.	0.5	34
122	Method of Correlated Basis Functions. Physical Review, 1966, 141, 833-857.	2.7	154
123	Theory of α matter. Annals of Physics, 1966, 40, 127-152.	1.0	37
124	THE ROLE OF REPULSIVE CORES IN THE PHOTONUCLEAR EFFECT. Canadian Journal of Physics, 1961, 39, 385-392.	0.4	14
125	Effective spin-orbit potential in correlated heavy nuclei. Annals of Physics, 1960, 11, 483-500.	1.0	8
126	Simplified Treatment for Strong Short-Range Repulsions inN-Particle Systems. I. General Theory. Physical Review, 1959, 113, 388-399.	2.7	102