

Jack C Wells

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,337

citations

21

h-index

34

g-index

92

ext. papers

1,452

ext. citations

2.9

avg, IF

3.7

L-index

#	Paper	IF	Citations
67	Numerical solution of the time-dependent Schrödinger equation for intermediate-energy collisions of antiprotons with hydrogen. <i>Physical Review A</i> , 1996 , 54, 593-604	2.6	81
66	Ionization of hydrogen and hydrogenic ions by antiprotons. <i>Physical Review Letters</i> , 1996 , 76, 2882-2885	7.4	79
65	Size-expanded DNA bases: an ab initio study of their structural and electronic properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21135-9	3.4	63
64	Excitation and charge transfer in proton-hydrogen collisions. <i>Physical Review A</i> , 1998 , 58, 2872-2880	2.6	61
63	Lattice, Time-Dependent Schrödinger Equation Solution for Ion-Atom Collisions. <i>Physical Review Letters</i> , 1999 , 82, 3976-3979	7.4	57
62	Theoretical study on the structure, stability, and electronic properties of the guanine-Zn-cytosine base pair in M-DNA. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 870-9	3.4	54
61	Characterization of the tunneling conductance across DNA bases. <i>Physical Review E</i> , 2006 , 74, 011919	2.4	53
60	Simple model of the interrelation between single- and multiwall carbon nanotube growth rates for the CVD process. <i>Physical Review B</i> , 2007 , 75,	3.3	49
59	Nonperturbative electromagnetic lepton-pair production in peripheral relativistic heavy-ion collisions. <i>Physical Review A</i> , 1992 , 45, 6296-6312	2.6	47
58	First-principles transversal DNA conductance deconstructed. <i>Biophysical Journal</i> , 2006 , 91, L04-6	2.9	46
57	Size-expanded yDNA bases: an ab initio study. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6379-84	3.4	46
56	Computational chemistry for molecular electronics. <i>Computational Materials Science</i> , 2003 , 28, 321-341	3.2	40
55	Light-fronts approach to electron-positron pair production in ultrarelativistic heavy-ion collisions. <i>Physical Review A</i> , 1998 , 57, 1849-1861	2.6	39
54	Adsorption of a carbon atom on the Ni ₃₈ magic cluster and three low-index nickel surfaces: A comparative first-principles study. <i>Physical Review B</i> , 2004 , 69,	3.3	37
53	Impact-parameter dependence of multiple lepton-pair production from electromagnetic fields. <i>Physical Review A</i> , 1995 , 51, 1836-1844	2.6	33
52	Enabling real-time multi-messenger astrophysics discoveries with deep learning. <i>Nature Reviews Physics</i> , 2019 , 1, 600-608	23.6	28
51	Interaction between benzenedithiolate and gold: classical force field for chemical bonding. <i>Journal of Chemical Physics</i> , 2005 , 122, 244721	3.9	25

50	Exact Z2 scaling of pair production in the high-energy limit of heavy-ion collisions. <i>Physical Review C</i> , 1999 , 59, 2753-2756	2.7	24
49	Lattice Schrödinger-equation approach for excitation and ionization of He+ by antiproton impact. <i>Physical Review A</i> , 1997 , 56, 3710-3713	2.6	23
48	Physical Reality of Light-Induced Atomic States. <i>Physical Review Letters</i> , 1998 , 80, 3479-3482	7.4	23
47	NWChem for materials science. <i>Computational Materials Science</i> , 2003 , 28, 209-221	3.2	20
46	Covalent attachment of gold nanoparticles to DNA templates. <i>Journal of Nanoscience and Nanotechnology</i> , 2002 , 2, 397-404	1.3	19
45	A NUMERICAL IMPLEMENTATION OF THE DIRAC EQUATION ON A HYPERCUBE MULTICOMPUTER. <i>International Journal of Modern Physics C</i> , 1993 , 04, 459-492	1.1	18
44	High-frequency Floquet-theory content of wave-packet dynamics. <i>Physical Review A</i> , 1997 , 56, 3961-3973	3.6	17
43	Aromaticity-induced changes in electronic properties of size-expanded DNA bases: Case of xC. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 2339-2346	2.1	17
42	Next Generation Workload Management System For Big Data on Heterogeneous Distributed Computing. <i>Journal of Physics: Conference Series</i> , 2015 , 608, 012040	0.3	16
41	A Fast Scalable Implicit Solver for Nonlinear Time-Evolution Earthquake City Problem on Low-Ordered Unstructured Finite Elements with Artificial Intelligence and Transprecision Computing 2018 ,		16
40	Far-field modulation of fluorescence decay rates in pairs of oriented semiconducting polymer nanostructures. <i>Physical Review B</i> , 2005 , 71,	3.3	15
39	Basis Spline Collocation Method for Solving the Schrödinger Equation in Axillary Symmetric Systems. <i>Journal of Computational Physics</i> , 1996 , 128, 197-208	4.1	15
38	In situ time-resolved measurements of carbon nanotube and nanohorn growth. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3944-3949	1.3	14
37	SPECTRAL PROPERTIES OF DERIVATIVE OPERATORS IN THE BASIS-SPLINE COLLOCATION METHOD. <i>International Journal of Modern Physics C</i> , 1995 , 06, 143-167	1.1	13
36	Convergence of a lattice calculation for bound-free muon-pair production in peripheral relativistic heavy-ion collisions. <i>Physical Review A</i> , 1996 , 53, 1498-1504	2.6	13
35	Asymptotic channels and gauge transformations of the time-dependent Dirac equation for extremely relativistic heavy-ion collisions. <i>Physical Review A</i> , 1999 , 59, 346-357	2.6	12
34	A comparative first-principles study of the adsorption of a carbon atom on copper and nickel surfaces. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 4563-4567	2.3	11
33	Dependence of surface strain on island geometry in embedded quantum-dot systems. <i>Surface Science</i> , 2003 , 539, L525-L530	1.8	9

32	Lattice calculation for lepton capture from vacuum-pair production in relativistic heavy-ion collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 99, 293-296	1.2	9
31	2017,		8
30	Direct solution of the time-dependent Schrödinger equation for proton-hydrogen collisions in two-dimensional Cartesian space. <i>Physical Review A</i> , 1995 , 52, 3868-3876	2.6	8
29	Reply to "Comment on "Characterization of the tunneling conductance across DNA bases". <i>Physical Review E</i> , 2007 , 76, 013902	2.4	7
28	Wells, Simbotin, and Gavrilu Reply:. <i>Physical Review Letters</i> , 1999 , 82, 665-665	7.4	7
27	Study of nuclear dissipation via muon-induced fission. A relativistic lattice calculation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 293, 270-274	4.2	7
26	Measuring Scientific Impact Beyond Citation Counts. <i>D-Lib Magazine</i> , 2016 , 22,		7
25	Nanotechnology for Electronics, Photonics, and Renewable Energy. <i>Nanostructure Science and Technology</i> , 2010 ,	0.9	6
24	Crosscut report: Exascale Requirements Reviews, March 9 th , 2017 Tysons Corner, Virginia. An Office of Science review sponsored by: Advanced Scientific Computing Research, Basic Energy Sciences, Biological and Environmental Research, Fusion Energy Sciences, High Energy Physics, Nuclear Physics		6
23	Toward Electronic Conductance Characterization of DNA Nucleotide Bases. <i>Solid State Phenomena</i> , 2007 , 121-123, 1387-1390	0.4	5
22	Multiscale simulations of carbon nanotube nucleation and growth: electronic structure calculations. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 414-22	1.3	5
21	Two growth modes of graphitic carbon nanofibers with herring-bone structure. <i>Physical Review B</i> , 2005 , 72,	3.3	5
20	Quantum dots in magnetic fields: Thermal response of broken-symmetry phases. <i>Physical Review B</i> , 2001 , 64,	3.3	5
19	Muon-induced fission: A probe for nuclear dissipation and fission dynamics. <i>Physical Review C</i> , 1993 , 48, 1297-1306	2.7	5
18	Comparison of flux-correcting and spline algorithms for solving (3+1)-dimensional relativistic hydrodynamics. <i>Physical Review E</i> , 1994 , 49, 1726-1733	2.4	5
17	Pre-exascale accelerated application development: The ORNL Summit experience. <i>IBM Journal of Research and Development</i> , 2020 , 64, 11:1-11:21	2.5	5
16	Integration of Titan supercomputer at OLCF with ATLAS Production System. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 092002	0.3	3
15	Surface diffusion and size evolution of nanostructures in laser-focused atomic deposition. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 2758		3

14	High Performance Computing Facility Operational Assessment 2015: Oak Ridge Leadership Computing Facility		3
13	Integration Of PanDA Workload Management System With Supercomputers for ATLAS and Data Intensive Science. <i>Journal of Physics: Conference Series</i> , 2016 , 762, 012021	0.3	3
12	Early experiences on Summit: Data analytics and AI applications. <i>IBM Journal of Research and Development</i> , 2019 , 63, 2:1-2:9	2.5	3
11	PARALLEL IMPLEMENTATION OF 3 + 1-DIMENSIONAL RELATIVISTIC HYDRODYNAMICS. <i>International Journal of Modern Physics C</i> , 1993 , 04, 1023-1040	1.1	2
10	Integration of Panda Workload Management System with supercomputers. <i>Physics of Particles and Nuclei Letters</i> , 2016 , 13, 647-653	0.5	1
9	Audience Based View of Publication Impact 2017 ,		1
8	Site-Specific Attachment of Gold Nanoparticles to DNA Templates. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 635, C4.2.1		1
7	GMG DA guaranteed global optimization algorithm: Application to remote sensing. <i>Mathematical and Computer Modelling</i> , 2007 , 45, 459-472		0
6	Enabling Data Intensive Science on Supercomputers for High Energy Physics R&D Projects in HL-LHC Era. <i>EPJ Web of Conferences</i> , 2020 , 226, 01007	0.3	
5	A Light-Fronts Approach to a Two-Center Time-Dependent Dirac Equation. <i>Foundations of Physics</i> , 2001 , 31, 993-1015	1.2	
4	CAUSAL CLASSICAL THEORY OF RADIATION DAMPING. <i>Modern Physics Letters A</i> , 2002 , 17, 1635-1642	1.3	
3	Correlated Magnetoexcitons in Semiconductor Quantum Dots at Finite Temperature. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 579, 117		
2	Recent Progress in Nonperturbative Electromagnetic Lepton-Pair Production with Capture in Relativistic Heavy-Ion Collisions. <i>NATO ASI Series Series B: Physics</i> , 1994 , 777-785		
1	Perturbative and Nonperturbative Em Lepton Pair Production in Relativistic Heavy-Ion Collisions. <i>NATO ASI Series Series B: Physics</i> , 1994 , 569-578		