John P Ralston

List of Publications by Year
in descending order

118 papers	3,108 citations	201674 27 h-index	161849 54 g-index
118 all docs	118 docs citations	118 times ranked	1507 citing authors

#	Article	IF	Citations
1	The Status and Future of Color Transparency and Nuclear Filtering. Physics, 2022, 4, 578-589.	1.4	4
2	Applying Quantum Tomography to Hadronic Interactions. SciPost Physics Proceedings, 2022, , .	0.4	0
3	Quantum tomography for collider physics: illustrations with lepton-pair production. European Physical Journal C, 2018, 78, 1.	3.9	16
4	Endpoint Model of Exclusive Processes. Few-Body Systems, 2018, 59, 1.	1.5	0
5	Probing interferometric parallax with interplanetary spacecraft. Advances in Space Research, 2017, 60, 153-165.	2.6	0
6	Alignments of parity even/odd-only multipoles in CMB. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2410-2421.	4.4	25
7	The Dirac form factor predicts the Pauli form factor in the Endpoint Model. European Physical Journal C, 2016, 76, 1.	3.9	4
8	Optimizing the determination of the neutrino mixing angle Î¸13 from reactor data. International Journal of Modern Physics A, 2014, 29, 1450109.	1.5	1
9	A redshift-dependent colourâ€“luminosity relation in Type 1a supernovae. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 439, L16-L20.	3.3	17
10	High Throughput Prediction of the Long-Term Stability of Pharmaceutical Macromolecules from Short-Term Multi-Instrument Spectroscopic Data. Journal of Pharmaceutical Sciences, 2014, 103, 828-839.	3.3	21
11	Uncovering the scaling laws of hard exclusive hadronic processes in a comprehensive endpoint model. European Physical Journal C, 2014, 74, 1.	3.9	7
12	Emergent mechanics, quantum and un-quantum. Proceedings of SPIE, 2013, , .	0.8	4
13	Revising your world-view of the fundamental constants. , 2013, , .		3
14	Analysis tools for discovering strong parity violation at hadron colliders. Physical Review D, 2011, 84, .	4.7	1
15	Effect of foregrounds on the cosmic microwave background radiation multipole alignment. Monthly Notices of the Royal Astronomical Society, 2011, 414, 1032-1046.	4.4	11
16	Multidimensional methods for the formulation of biopharmaceuticals and vaccines. Journal of Pharmaceutical Sciences, 2011, 100, 4171-4197.	3.3	97
17	A distribution-based method to resolve single-molecule FÃ¶rster resonance energy transfer observations. Journal of Chemical Physics, 2011, 134, 145101.	3.0	4
18	Question Isotropy. , 2010, , .		0

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19	Limits on threshold and â€œSommerfeldâ€•enhancements in dark matter annihilation. Physical Review D, 2010, 81, .	4.7	9
20	Signals of statistical anisotropy inWMAPforeground-cleaned maps. Monthly Notices of the Royal Astronomical Society, 2009, 396, 511-522.	4.4	35
21	The Colorful Future of Spin. , 2009, , .		0
22	The dynamical mixing of light and pseudoscalar fields. Pramana - Journal of Physics, 2008, 70, 439-456.	1.8	19
23	Evidence for observation of virtual radio Cherenkov fields. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 596, 172-185.	1.6	4
24	Testing isotropy of cosmic microwave background radiation. Monthly Notices of the Royal Astronomical Society, 2008, 385, 1718-1728.	4.4	51
25	Signatures of pseudoscalar photon mixing in CMB polarization. Physical Review D, 2008, 78, .	4.7	18
26	SEARCH FOR GLOBAL METRIC ANISOTROPY IN TYPE 1a SUPERNOVA DATA. Modern Physics Letters A, 2007, 22, 1153-1165.	1.2	8
27	and quantum mechanics embedded in symplectic quantum mechanics. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 9883-9904.	2.1	0
28	The Greisen equation explained and improved. Physical Review D, 2007, 75, .	4.7	4
29	A Stimulating Alternative to Hadronic Effective Theories of Strong Interactions. Journal of Physics: Conference Series, 2007, 69, 012030.	0.4	1
30	A pionic hadron explains the muon magnetic moment anomaly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 657, 43-48.	4.1	0
31	Evidence for Evolution or Bias in Host Extinctions of Type 1a Supernovae at High Redshift. Astrophysical Journal, 2006, 637, 91-95.	4.5	7
32	Supersymmetry and the Lorentz fine tuning problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 621, 213-218.	4.1	20
33	Solution Behavior of IFN-Î²-1a: An Empirical Phase Diagram Based Approach. Journal of Pharmaceutical Sciences, 2005, 94, 1893-1911.	3.3	54
34	Probing light pseudoscalars with light propagation, resonance and spontaneous polarization. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 002-002.	5.4	43
35	Radio surf in polar ice: A new method of ultrahigh energy neutrino detection. Physical Review D, 2005, 71, .	4.7	4
36	QCD form factors and hadron helicity nonconservation. Physical Review D, 2004, 69, .	4.7	30

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37	THE VIRGO ALIGNMENT PUZZLE IN PROPAGATION OF RADIATION ON COSMOLOGICAL SCALES. International Journal of Modern Physics D, 2004, 13, 1857-1877.	2.1	90
38	The proton electromagnetic form factorF 2 and quark orbital angular momentum. Pramana - Journal of Physics, 2003, 61, 987-992.	1.8	3
39	Derivative Absorbance Spectroscopy and Protein Phase Diagrams as Tools for Comprehensive Protein Characterization: A bGCSF Case Study. Journal of Pharmaceutical Sciences, 2003, 92, 1805-1820.	3.3	112
40	Limits on the ultra-high energy electron neutrino flux from the RICE experiment. Astroparticle Physics, 2003, 20, 195-213.	4.3	77
41	Performance and simulation of the RICE detector. Astroparticle Physics, 2003, 19, 15-36.	4.3	76
42	On the global anisotropy of cosmic ray data above 4 Â 1019eV. Journal of Cosmology and Astroparticle Physics, 2003, 2003, 007-007.	5.4	2
43	Limits on the Diffuse Flux of Ultra-High Energy Neutrinos from the RICE Experiment. , 2003, , .		0
44	EXPLORING THE MICRO-STRUCTURE OF THE PROTON: FROM FORM FACTORS TO DVCS. , 2003, , .		0
45	Coherent radio pulses from GEANT generated electromagnetic showers in ice. Physical Review D, 2002, 65, .	4.7	32
46	Femtophotography of protons to nuclei with deeply virtual Compton scattering. Physical Review D, 2002, 66, .	4.7	177
47	Oscillating color transparency inÏ€Aâ†'Ï€p(Aâˆ'1)andÎ³Aâ†'Ï€N(Aâˆ'1). Physical Review D, 2002, 65, .	4.7	6
48	GRAVITON ENHANCED UHE NEUTRINO CROSS-SECTIONS AND GIANT AIR SHOWERS. International Journal of Modern Physics A, 2002, 17, 533-554.	1.5	15
49	Angular dependence of neutrino flux inKM3detectors in low scale gravity models. Physical Review D, 2002, 66, .	4.7	27
50	Angular correlation of ultra-high energy cosmic rays with compact radio-loud quasars. Astroparticle Physics, 2002, 17, 489-495.	4.3	22
51	Electromagnetic Form Factors and the Localization of Quark Orbital Angular Momentum in the Proton. , 2002, , .		0
52	Concepts in the coherence of Radio Cherenkov emission from ultra-high energy electromagnetic and hadronic showers. AIP Conference Proceedings, 2001, , .	0.4	1
53	Planning for the Generation-X Radio Cherenkov test beam experiment. AIP Conference Proceedings, 2001, , .	0.4	1
54	Exclusive hadronic processes and color transparency. Pramana - Journal of Physics, 2001, 57, 433-444.	1.8	3

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55	Radio detection of high energy particles: Coherence versus multiple scales. Physical Review D, 2001, 65, .	4.7	34
56	Extra dimensions and strong neutrino-nucleon interactions above 1019 eV: breaking the GZK barrier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 484, 267-274.	4.1	95
57	Embedding Coordinates for the Well-Dressed Quark. Foundations of Physics, 2000, 30, 493-518.	1.3	0
58	Exploring the spin of the gauge sector with non-perturbative coordinates. AIP Conference Proceedings, 2000, , .	0.4	0
59	The GZK bound and strong neutrino-nucleon interactions above 10[sup 19]â€ŠeV: a progress report. AIP Conference Proceedings, 2000, , .	0.4	0
60	The transverse quark distribution and proton electromagnetic form factors in skew distribution formalism. AIP Conference Proceedings, 2000, , .	0.4	8
61	Progress in perturbative color transparency. AIP Conference Proceedings, 2000, , .	0.4	0
62	Perturbative color transparency in electroproduction experiments. Physical Review D, 2000, 62, .	4.7	17
63	ANISOTROPY IN THE PROPAGATION OF RADIO POLARIZATIONS FROM COSMOLOGICALLY DISTANT GALAXIES. Modern Physics Letters A, 1999, 14, 417-432.	1.2	77
64	COVARIANT SYMMETRY CLASSIFICATIONS FOR OBSERVABLES OF COSMOLOGICAL BIREFRINGENCE. International Journal of Modern Physics D, 1999, 08, 537-547.	2.1	16
65	New Phenomena in Propagation of Radio Polarizations due to Magnetic Fields on Cosmological Scales. Physical Review Letters, 1998, 81, 26-29.	7.8	16
66	Nodland and Ralston Reply:. Physical Review Letters, 1997, 79, 1958-1958.	7.8	20
67	Indication of Anisotropy in Electromagnetic Propagation over Cosmological Distances. Physical Review Letters, 1997, 78, 3043-3046.	7.8	142
68	An update on cosmological anisotropy in electromagnetic propagation. , 1997, , .		1
69	Testing the handbag contribution to exclusive virtual Compton scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 411, 193-202.	4.1	153
70	The status of color transparency: Recent progress and new ideas. Nuclear Physics A, 1997, 622, c166-c186.	1.5	2
71	Hadron helicity violation in exclusive processes: Quantitative calculations in leading order QCD. Physical Review D, 1996, 53, 1202-1215.	4.7	24
72	Quantum color transparency and nuclear filtering. Physics Reports, 1996, 271, 67-179.	25.6	103

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73	On radio detection of ultrahigh energy neutrinos in Antarctic ice. Physical Review D, 1996, 53, 1684-1698.	4.7	64
74	Prediction for the Ultrahigh Energy Neutrino-Nucleon Cross Section from New Structure Function Data at Smallx. Physical Review Letters, 1995, 74, 1508-1511.	7.8	64
75	Gauge theory in the adiabatic approximation. Physical Review D, 1995, 51, 2018-2021.	4.7	7
76	Nuclear Filtering and Quantum Color Transparency: An Introductory Review. NATO ASI Series Series B: Physics, 1994, , 173-211.	0.2	0
77	Systematic analysis method for color transparency experiments. Physical Review D, 1993, 48, 1104-1111.	4.7	15
78	What color transparency measures. Physical Review D, 1992, 46, 3807-3812.	4.7	3
79	The neutrino electromagnetic moments and charge radius confront Kamiokande II and Homestake experimental results. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 364-370.	4.1	19
80	Colour transparency and nuclear filtering. Nuclear Physics News, 1991, 1, 23-26.	0.4	2
81	Hard scattering in a nuclear environment. Nuclear Physics A, 1991, 525, 419-422.	1.5	1
82	Color transparency in electronuclear physics. Nuclear Physics A, 1991, 532, 155-176.	1.5	6
83	Anomalous colour transparency. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 269, 439-444.	4.1	5
84	A transparency scaling law for large-momentum-transfer exclusive reactions on nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 256, 523-528.	4.1	9
85	Patterns of small-x QCD. Nuclear Physics, Section B, Proceedings Supplements, 1991, 18, 86-91.	0.4	2
86	Ralston and Pire reply. Physical Review Letters, 1991, 67, 2112-2112.	7.8	6
87	Duality symmetry and power-law fading of frustration in a quantum multiconnected superconductor. Physical Review B, 1991, 43, 5375-5380.	3.2	5
88	Possibility of quenching the integer-quantum-Hall behavior with increasing lattice asymmetry. Physical Review B, 1991, 44, 13603-13610.	3.2	12
89	Icemand: Microwave detection of ultra-high energy neutrinos in ice. Nuclear Physics, Section B, Proceedings Supplements, 1990, 14, 356-360.	0.4	3
90	Color transparency and mini-hadron dynamics. Nuclear Physics, Section B, Proceedings Supplements, 1990, 16, 264-265.	0.4	1

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91	Quantum color transparency. Physical Review Letters, 1990, 65, 2343-2346.	7.8	65
92	Electric curvature and the time component of the adiabatic connection. Physical Review A, 1989, 40, 5400-5403.	2.5	6
93	Model dependence of astrophysical lower bounds on the neutrino mass. Physical Review Letters, 1989, 63, 1038-1041.	7.8	7
94	Berryâ€™s phase and the symplectic character of quantum time evolution. Physical Review A, 1989, 40, 4872-4884.	2.5	12
95	One model for magnetic solar neutrino interactions, cosmological neutrino decays, and new particle resonant production by interactions of neutrinos from Cygnus X-3. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 40-46.	4.1	10
96	Fluctuating proton size and oscillating color transparency. Physical Review Letters, 1988, 61, 1823-1826.	7.8	110
97	Neutrino masses and the Voloshin-Vysotsky-Okun solution to the solar-neutrino problem. Physical Review D, 1988, 38, 2864-2868.	4.7	8
98	Has dark matter decay been detected?. Astrophysical Journal, 1988, 324, L43.	4.5	27
99	Model-independent tests of excitonic enhancement in high-Tcsuperconductors. Physical Review B, 1987, 36, 8783-8785.	3.2	2
100	MODELING THE FIELD-THEORY SKYRMION. , 1987, , 466-506.		0
101	Pocket partonometer. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 172, 430-434.	4.1	16
102	Small-x QCD and the ultra-high energy Î½N total cross section. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 167, 103-107.	4.1	44
103	Two-fluid model of the Skyrmion. Physical Review D, 1986, 33, 2003-2009.	4.7	4
104	Comment on "Energy Dependence of Polarization Effects in Exclusive Hadron Scattering". Physical Review Letters, 1986, 57, 2330-2330.	7.8	12
105	Covariant method for soliton matrix elements. Physical Review D, 1986, 33, 496-505.	4.7	3
106	Inconsistency of collective-coordinate quantization of large systems. Physical Review D, 1986, 34, 1245-1246.	4.7	0
107	Limitations of a semiclassical treatment of the Skyrme soliton. Physical Review D, 1985, 31, 598-602.	4.7	54
108	Field-strength formulation of classical dynamics for spherically symmetric non-Abelian systems. Physical Review D, 1984, 30, 472-482.	4.7	3

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109	Spin asymmetry in Î³e â†'â†'e+2 jets: A laboratory for final state interactions. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1984, 25, 49-54.	1.5	0
110	Single-spin asymmetries in the Drell-Yan process. Physical Review D, 1983, 28, 260-262.	4.7	16
111	Anomalous mass dependence of glueball exclusive decay rates. Nuclear Physics B, 1983, 214, 153-166.	2.5	1
112	Properties of a classical confining medium in SU2gluon dynamics. Physical Review D, 1983, 28, 953-964.	4.7	5
113	Calculation of box graph with lightlike particles. Physical Review D, 1982, 25, 2218-2221.	4.7	10
114	Large perturbative corrections in the soft-gluon limit. Physical Review D, 1982, 25, 1280-1290.	4.7	27
115	Oscillatory Scaling Violations and the Quantum Chromodynamic Coulomb Phase. Physical Review Letters, 1982, 49, 1605-1608.	7.8	42
116	Fixed angle elastic scattering and the chromo-Coulomb phase shift. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 117, 233-237.	4.1	63
117	Drell-Yan model at measured QT: Asymptotic smallness of one-loop corrections. Nuclear Physics B, 1980, 172, 445-457.	2.5	12
118	Production of dimuons from high-energy polarized proton-proton collisions. Nuclear Physics B, 1979, 152, 109-124.	2.5	451