

John P Ralston

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6843746/publications.pdf>

Version: 2024-02-01

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	Production of dimuons from high-energy polarized proton-proton collisions. Nuclear Physics B, 1979, 152, 109-124.	2.5	451
2	Femtophotography of protons to nuclei with deeply virtual Compton scattering. Physical Review D, 2002, 66, .	4.7	177
3	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
4	Indication of Anisotropy in Electromagnetic Propagation over Cosmological Distances. Physical Review Letters, 1997, 78, 3043-3046.	7.8	142
5	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
6	Fluctuating proton size and oscillating color transparency. Physical Review Letters, 1988, 61, 1823-1826.	7.8	110
7	Quantum color transparency and nuclear filtering. Physics Reports, 1996, 271, 67-179.	25.6	103
8	Multidimensional methods for the formulation of biopharmaceuticals and vaccines. Journal of Pharmaceutical Sciences, 2011, 100, 4171-4197.	3.3	97
9	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
10	THE VIRGO ALIGNMENT PUZZLE IN PROPAGATION OF RADIATION ON COSMOLOGICAL SCALES. International Journal of Modern Physics D, 2004, 13, 1857-1877.	2.1	90
11	ANISOTROPY IN THE PROPAGATION OF RADIO POLARIZATIONS FROM COSMOLOGICALLY DISTANT GALAXIES. Modern Physics Letters A, 1999, 14, 417-432.	1.2	77
12	Limits on the ultra-high energy electron neutrino flux from the RICE experiment. Astroparticle Physics, 2003, 20, 195-213.	4.3	77
13	Performance and simulation of the RICE detector. Astroparticle Physics, 2003, 19, 15-36.	4.3	76
14	Quantum color transparency. Physical Review Letters, 1990, 65, 2343-2346.	7.8	65
15	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
16	On radio detection of ultrahigh energy neutrinos in Antarctic ice. Physical Review D, 1996, 53, 1684-1698.	4.7	64
17	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
18	Limitations of a semiclassical treatment of the Skyrme soliton. Physical Review D, 1985, 31, 598-602.	4.7	54

#	ARTICLE	IF	CITATIONS
19	Solution Behavior of IFN- $\hat{1}$ a: An Empirical Phase Diagram Based Approach. Journal of Pharmaceutical Sciences, 2005, 94, 1893-1911.	3.3	54
20	Testing isotropy of cosmic microwave background radiation. Monthly Notices of the Royal Astronomical Society, 2008, 385, 1718-1728.	4.4	51
21	Small-x QCD and the ultra-high energy $\hat{1}/2$ N total cross section. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 167, 103-107.	4.1	44
22	Probing light pseudoscalars with light propagation, resonance and spontaneous polarization. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 002-002.	5.4	43
23	Oscillatory Scaling Violations and the Quantum Chromodynamic Coulomb Phase. Physical Review Letters, 1982, 49, 1605-1608.	7.8	42
24	Signals of statistical anisotropy in $\langle i \rangle$ WMAP $\langle /i \rangle$ foreground-cleaned maps. Monthly Notices of the Royal Astronomical Society, 2009, 396, 511-522.	4.4	35
25	Radio detection of high energy particles: Coherence versus multiple scales. Physical Review D, 2001, 65, .	4.7	34
26	Coherent radio pulses from GEANT generated electromagnetic showers in ice. Physical Review D, 2002, 65, .	4.7	32
27	QCD form factors and hadron helicity nonconservation. Physical Review D, 2004, 69, .	4.7	30
28	Large perturbative corrections in the soft-gluon limit. Physical Review D, 1982, 25, 1280-1290.	4.7	27
29	Angular dependence of neutrino flux in KM3 detectors in low scale gravity models. Physical Review D, 2002, 66, .	4.7	27
30	Has dark matter decay been detected?. Astrophysical Journal, 1988, 324, L43.	4.5	27
31	Alignments of parity even/odd-only multipoles in CMB. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2410-2421.	4.4	25
32	Hadron helicity violation in exclusive processes: Quantitative calculations in leading order QCD. Physical Review D, 1996, 53, 1202-1215.	4.7	24
33	Angular correlation of ultra-high energy cosmic rays with compact radio-loud quasars. Astroparticle Physics, 2002, 17, 489-495.	4.3	22
34	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
35	Nodland and Ralston Reply.. Physical Review Letters, 1997, 79, 1958-1958.	7.8	20
36	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

#	ARTICLE	IF	CITATIONS
37	The neutrino electromagnetic moments and charge radius confront Kamiokande II and Homestake experimental results. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 285, 364-370.	4.1	19
38	The dynamical mixing of light and pseudoscalar fields. <i>Pramana - Journal of Physics</i> , 2008, 70, 439-456.	1.8	19
39	Signatures of pseudoscalar photon mixing in CMB polarization. <i>Physical Review D</i> , 2008, 78, .	4.7	18
40	Perturbative color transparency in electroproduction experiments. <i>Physical Review D</i> , 2000, 62, .	4.7	17
41	A redshift-dependent colourâ€“luminosity relation in Type 1a supernovae. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 439, L16-L20.	3.3	17
42	Single-spin asymmetries in the Drell-Yan process. <i>Physical Review D</i> , 1983, 28, 260-262.	4.7	16
43	Pocket partonometer. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986, 172, 430-434.	4.1	16
44	New Phenomena in Propagation of Radio Polarizations due to Magnetic Fields on Cosmological Scales. <i>Physical Review Letters</i> , 1998, 81, 26-29.	7.8	16
45	COVARIANT SYMMETRY CLASSIFICATIONS FOR OBSERVABLES OF COSMOLOGICAL BIREFRINGENCE. <i>International Journal of Modern Physics D</i> , 1999, 08, 537-547.	2.1	16
46	Quantum tomography for collider physics: illustrations with lepton-pair production. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	16
47	Systematic analysis method for color transparency experiments. <i>Physical Review D</i> , 1993, 48, 1104-1111.	4.7	15
48	GRAVITON ENHANCED UHE NEUTRINO CROSS-SECTIONS AND GIANT AIR SHOWERS. <i>International Journal of Modern Physics A</i> , 2002, 17, 533-554.	1.5	15
49	Drell-Yan model at measured QT: Asymptotic smallness of one-loop corrections. <i>Nuclear Physics B</i> , 1980, 172, 445-457.	2.5	12
50	Comment on "Energy Dependence of Polarization Effects in Exclusive Hadron Scattering". <i>Physical Review Letters</i> , 1986, 57, 2330-2330.	7.8	12
51	Berryâ€™s phase and the symplectic character of quantum time evolution. <i>Physical Review A</i> , 1989, 40, 4872-4884.	2.5	12
52	Possibility of quenching the integer-quantum-Hall behavior with increasing lattice asymmetry. <i>Physical Review B</i> , 1991, 44, 13603-13610.	3.2	12
53	Effect of foregrounds on the cosmic microwave background radiation multipole alignment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 1032-1046.	4.4	11
54	Calculation of box graph with lightlike particles. <i>Physical Review D</i> , 1982, 25, 2218-2221.	4.7	10

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Limits on threshold and Sommerfeld-enhancements in dark matter annihilation. Physical Review D, 2010, 81, .	4.7	9
58	Neutrino masses and the Voloshin-Vysotsky-Okun solution to the solar-neutrino problem. Physical Review D, 1988, 38, 2864-2868.	4.7	8
59	The transverse quark distribution and proton electromagnetic form factors in skew distribution formalism. AIP Conference Proceedings, 2000, .	0.4	8
60	SEARCH FOR GLOBAL METRIC ANISOTROPY IN TYPE 1a SUPERNOVA DATA. Modern Physics Letters A, 2007, 22, 1153-1165.	1.2	8
61	Model dependence of astrophysical lower bounds on the neutrino mass. Physical Review Letters, 1989, 63, 1038-1041.	7.8	7
62	Gauge theory in the adiabatic approximation. Physical Review D, 1995, 51, 2018-2021.	4.7	7
63	Evidence for Evolution or Bias in Host Extinctions of Type 1a Supernovae at High Redshift. Astrophysical Journal, 2006, 637, 91-95.	4.5	7
64	Uncovering the scaling laws of hard exclusive hadronic processes in a comprehensive endpoint model. European Physical Journal C, 2014, 74, 1.	3.9	7
65	Electric curvature and the time component of the adiabatic connection. Physical Review A, 1989, 40, 5400-5403.	2.5	6
66	Color transparency in electronuclear physics. Nuclear Physics A, 1991, 532, 155-176.	1.5	6
67	Ralston and Pire reply. Physical Review Letters, 1991, 67, 2112-2112.	7.8	6
68	Oscillating color transparency in $\epsilon p(A \sim 1)$ and $^3A \rightarrow N(A \sim 1)$. Physical Review D, 2002, 65, .	4.7	6
69	Properties of a classical confining medium in SU2 gluon dynamics. Physical Review D, 1983, 28, 953-964.	4.7	5
70	Anomalous colour transparency. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 269, 439-444.	4.1	5
71	Duality symmetry and power-law fading of frustration in a quantum multiconnected superconductor. Physical Review B, 1991, 43, 5375-5380.	3.2	5
72	Two-fluid model of the Skyrmion. Physical Review D, 1986, 33, 2003-2009.	4.7	4

#	ARTICLE	IF	CITATIONS
73	Radio surf in polar ice: A new method of ultrahigh energy neutrino detection. Physical Review D, 2005, 71, .	4.7	4
74	The Greisen equation explained and improved. Physical Review D, 2007, 75, .	4.7	4
75	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
76	A distribution-based method to resolve single-molecule Förster resonance energy transfer observations. Journal of Chemical Physics, 2011, 134, 145101.	3.0	4
77	Emergent mechanics, quantum and un-quantum. Proceedings of SPIE, 2013, , .	0.8	4
78	The Dirac form factor predicts the Pauli form factor in the Endpoint Model. European Physical Journal C, 2016, 76, 1.	3.9	4
79	The Status and Future of Color Transparency and Nuclear Filtering. Physics, 2022, 4, 578-589.	1.4	4
80	Field-strength formulation of classical dynamics for spherically symmetric non-Abelian systems. Physical Review D, 1984, 30, 472-482.	4.7	3
81	Covariant method for soliton matrix elements. Physical Review D, 1986, 33, 496-505.	4.7	3
82	Icemand: Microwave detection of ultra-high energy neutrinos in ice. Nuclear Physics, Section B, Proceedings Supplements, 1990, 14, 356-360.	0.4	3
83	What color transparency measures. Physical Review D, 1992, 46, 3807-3812.	4.7	3
84	Exclusive hadronic processes and color transparency. Pramana - Journal of Physics, 2001, 57, 433-444.	1.8	3
85	The proton electromagnetic form factor F_2 and quark orbital angular momentum. Pramana - Journal of Physics, 2003, 61, 987-992.	1.8	3
86	Revising your world-view of the fundamental constants. , 2013, , .		3
87	Model-independent tests of excitonic enhancement in high-Tc superconductors. Physical Review B, 1987, 36, 8783-8785.	3.2	2
88	Colour transparency and nuclear filtering. Nuclear Physics News, 1991, 1, 23-26.	0.4	2
89	Patterns of small-x QCD. Nuclear Physics, Section B, Proceedings Supplements, 1991, 18, 86-91.	0.4	2
90	The status of color transparency: Recent progress and new ideas. Nuclear Physics A, 1997, 622, c166-c186.	1.5	2

#	ARTICLE	IF	CITATIONS
91	On the global anisotropy of cosmic ray data above 4×10^{19} eV. Journal of Cosmology and Astroparticle Physics, 2003, 2003, 007-007.	5.4	2
92	Anomalous mass dependence of glueball exclusive decay rates. Nuclear Physics B, 1983, 214, 153-166.	2.5	1
93	Color transparency and mini-hadron dynamics. Nuclear Physics, Section B, Proceedings Supplements, 1990, 16, 264-265.	0.4	1
94	Hard scattering in a nuclear environment. Nuclear Physics A, 1991, 525, 419-422.	1.5	1
95	An update on cosmological anisotropy in electromagnetic propagation. , 1997, , .		1
96	Concepts in the coherence of Radio Cherenkov emission from ultra-high energy electromagnetic and hadronic showers. AIP Conference Proceedings, 2001, , .	0.4	1
97	Planning for the Generation-X Radio Cherenkov test beam experiment. AIP Conference Proceedings, 2001, , .	0.4	1
98	A Stimulating Alternative to Hadronic Effective Theories of Strong Interactions. Journal of Physics: Conference Series, 2007, 69, 012030.	0.4	1
99	Analysis tools for discovering strong parity violation at hadron colliders. Physical Review D, 2011, 84, .	4.7	1
100	Optimizing the determination of the neutrino mixing angle $\hat{\theta}_{13}$ from reactor data. International Journal of Modern Physics A, 2014, 29, 1450109.	1.5	1
101	Spin asymmetry in $\hat{\theta}_{e^+e^+2}$ jets: A laboratory for final state interactions. Zeitschrift für Physik C-Particles and Fields, 1984, 25, 49-54.	1.5	0
102	Inconsistency of collective-coordinate quantization of large systems. Physical Review D, 1986, 34, 1245-1246.	4.7	0
103	Embedding Coordinates for the Well-Dressed Quark. Foundations of Physics, 2000, 30, 493-518.	1.3	0
104	Exploring the spin of the gauge sector with non-perturbative coordinates. AIP Conference Proceedings, 2000, , .	0.4	0
105	The GZK bound and strong neutrino-nucleon interactions above 10^{19} eV: a progress report. AIP Conference Proceedings, 2000, , .	0.4	0
106	Progress in perturbative color transparency. AIP Conference Proceedings, 2000, , .	0.4	0
107	Limits on the Diffuse Flux of Ultra-High Energy Neutrinos from the RICE Experiment. , 2003, , .		0
108	and quantum mechanics embedded in symplectic quantum mechanics. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 9883-9904.	2.1	0

#	ARTICLE	IF	CITATIONS
109	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
110	The Colorful Future of Spin. , 2009, , .		0
111	Question Isotropy. , 2010, , .		0
112	Probing interferometric parallax with interplanetary spacecraft. Advances in Space Research, 2017, 60, 153-165.	2.6	0
113	Endpoint Model of Exclusive Processes. Few-Body Systems, 2018, 59, 1.	1.5	0
114	Electromagnetic Form Factors and the Localization of Quark Orbital Angular Momentum in the Proton. , 2002, , .		0
115	EXPLORING THE MICRO-STRUCTURE OF THE PROTON: FROM FORM FACTORS TO DVCS. , 2003, , .		0
116	Nuclear Filtering and Quantum Color Transparency: An Introductory Review. NATO ASI Series Series B: Physics, 1994, , 173-211.	0.2	0
117	MODELING THE FIELD-THEORY SKYRMION. , 1987, , 466-506.		0
118	Applying Quantum Tomography to Hadronic Interactions. SciPost Physics Proceedings, 2022, , .	0.4	0