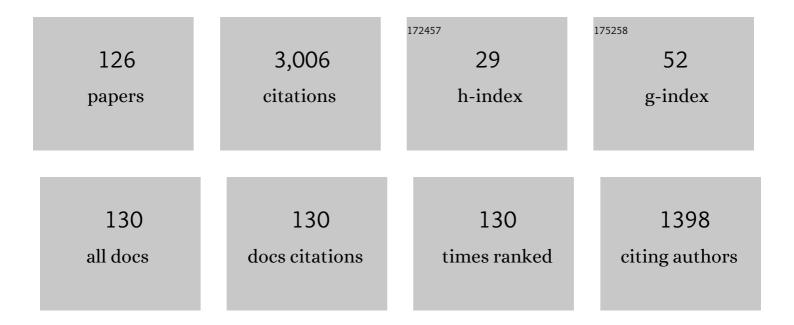
Ann-Marie Pendrill

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Diagonalisation of the Dirac Hamiltonian as a basis for a relativistic many-body procedure. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 2799-2815.	1.6	364
2	Isotope shift in the electron affinity of chlorine. Physical Review A, 1995, 51, 231-238.	2.5	174
3	Numerical Many-Body Perturbation Calculations on Be-like Systems Using a Multi-Configurational Model Space. Physica Scripta, 1980, 21, 351-356.	2.5	144
4	Beyond velocity and acceleration: jerk, snap and higher derivatives. European Journal of Physics, 2016, 37, 065008.	0.6	125
5	Nuclear magnetization distribution radii determined by hyperfine transitions in the1slevel of H-like ions185Re74+and187Re74+. Physical Review A, 1998, 57, 879-887.	2.5	119
6	Hyperfine structure of hydrogenlike thallium isotopes. Physical Review A, 2001, 64, .	2.5	102
7	Corrections to the beryllium ground-state energy. Physical Review A, 1992, 45, 1493-1496.	2.5	86
8	Calculation of aP- andT-Nonconserving Weak Interaction in Xe and Hg with Many-Body Perturbation Theory. Physical Review Letters, 1985, 54, 1153-1155.	7.8	77
9	lsotope shifts and hyperfine structure in the 369.4-nm 6s-6p1/2resonance line of singly ionized ytterbium. Physical Review A, 1994, 49, 3351-3365.	2.5	70
10	Need for remeasurements of nuclear magnetic dipole moments. Physical Review A, 1998, 58, 3611-3618.	2.5	63
11	Isotope shifts and nuclear-charge radii in singly ionizedCa40–48. Physical Review A, 1992, 45, 4675-4681.	2.5	62
12	Comment on relativistic wave equations and negative-energy states. Physical Review A, 1986, 33, 4426-4429.	2.5	60
13	Self-consistent treatment of the Breit interaction, with application to the electric dipole moment in thallium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1989, 22, 2447-2464.	1.5	60
14	Beryllium atom reinvestigated: A comparison between theory and experiment. Physical Review A, 1991, 43, 3355-3364.	2.5	59
15	Further analysis of the complete Breit interaction. Physical Review A, 1989, 39, 3794-3802.	2.5	50
16	Parity non-conservation in caesium. Journal De Physique, 1985, 46, 1949-1959.	1.8	47
17	Calculations of atomic electric dipole moments. Physica Scripta, 1987, 36, 444-452.	2.5	47
18	Matrix elements in the coupled-cluster approach - with application to low-lying states in Li. Physica Scripta, 1990, 41, 329-347.	2.5	47

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19	Parity non-conservation and electric dipole moments in caesium and thallium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 3417-3436.	1.5	46
20	The Hyperfine Structure in the Alkaline-Earth Ions. Physica Scripta, 1985, 31, 169-172.	2.5	44
21	Magnetic Moment Distributions in Tl Nuclei. Physical Review Letters, 1995, 74, 2184-2187.	7.8	42
22	Hyperfine structure of the4s,4p, and3dstates inCa+evaluated by many-body perturbation theory. Physical Review A, 1984, 30, 712-721.	2.5	41
23	Reanalysis of the isotope shift and nuclear charge radii in radioactive potassium isotopes. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 1749-1761.	1.5	39
24	QED procedure applied to the quasidegenerate fine-structure levels of He-like ions. Physical Review A, 2001, 64, .	2.5	38
25	Relativistic Calculations of Core-Polarisation Effects on the Hyperfine Structure in the Alkalis. Physica Scripta, 1983, 27, 291-296.	2.5	37
26	Calculations of isotope shifts in caesium and thallium using many-body perturbation theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 1193-1207.	1.5	36
27	Comments on the hyperfine structure of the4D2state of rubidium. Physical Review A, 1977, 15, 2123-2125.	2.5	31
28	Infrared cameras in science education. Infrared Physics and Technology, 2016, 75, 150-152.	2.9	30
29	Acceleration and rotation in a pendulum ride, measured using an iPhone 4. Physics Education, 2011, 46, 676-681.	0.5	29
30	A relativistic pair equation projected onto positive energy states. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1679-1696.	1.6	28
31	Calculation of the isotope shift in Na. Zeitschrift Für Physik A, 1983, 309, 277-284.	1.4	27
32	Rollercoaster loop shapes. Physics Education, 2005, 40, 517-521.	0.5	26
33	Radiative lifetimes of the 6p 2 P 1 2/0 and 6p 2 P 3 2/0 levels in Yb II. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1993, 28, 283-284.	1.0	25
34	Doppler free ?dark resonances? for hyperfine measurements and isotope shifts in Ca+ isotopes in a Paul trap. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1995, 34, 227-232.	1.0	24
35	Classical physics experiments in the amusement park. Physics Education, 2002, 37, 507-511.	0.5	24
36	Jerk within the Context of Science and Engineering—A Systematic Review. Vibration, 2020, 3, 371-409.	1.9	24

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37	Calculations of the parity non-conserving 6s ? 7s transition in caesium. Theoretica Chimica Acta, 1991, 80, 257-288.	0.8	23
38	Swings and slides. Physics Education, 2005, 40, 527-533.	0.5	23
39	Analysis of the atomic fine structure, using a nonrelativistic many-body and a relativistic central-field approach. Physical Review A, 1982, 26, 3249-3267.	2.5	22
40	lsotope shift and nuclear charge radii of barium isotopes. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, L551-L559.	1.5	21
41	Velocity, acceleration, jerk, snap and vibration: forces in our bodies during a roller coaster ride. Physics Education, 2020, 55, 065012.	0.5	21
42	Hyperfine structure of the7pstate in Fr. Physical Review A, 1983, 27, 3332-3333.	2.5	20
43	Specific mass shift of the (4s4p)1,3P states in calcium studied with many-body perturbation theory. Physical Review A, 1985, 31, 58-66.	2.5	20
44	Hyperfine structure in the 4d states of Rb-like Sr. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 917-924.	1.5	20
45	The equivalence principle comes to school—falling objects and other middle school investigations. Physics Education, 2014, 49, 425-430.	0.5	19
46	Limit on a P - and T -Violating Electron-Nucleon Interaction. Europhysics Letters, 1991, 15, 155-160.	2.0	17
47	Stopping a roller coaster train. Physics Education, 2012, 47, 728-735.	0.5	17
48	Four Decades of Hyperfine Anomalies. Advances in Quantum Chemistry, 1998, 30, 343-360.	0.8	16
49	Smartphones and Newton's first law in escalators and roller coasters. Physics Education, 2020, 55, 035016.	0.5	16
50	Isotope shifts and energies of the 1s 2p states in helium. Zeitschrift Für Physik A, 1984, 316, 265-273.	1.4	15
51	(2p2)1Sstate of beryllium. Physical Review A, 1996, 53, 3151-3156.	2.5	15
52	Thallium hyperfine anomaly. , 2000, 127, 347-352.		15
53	Free fall and harmonic oscillations: analyzing trampoline jumps. Physics Education, 2015, 50, 64-70.	0.5	15
54	Rotating swings—a theme with variations. Physics Education, 2016, 51, 015014.	0.5	15

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55	Programming and its affordances for physics education: A social semiotic and variation theory approach to learning physics. Physical Review Physics Education Research, 2020, 16, .	2.9	15
56	Hyperfine structure of heavy hydrogen-like ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 62-65.	1.4	14
57	Students making sense of motion in a vertical roller coaster loop. Physics Education, 2019, 54, 065017.	0.5	14
58	Convergence of relativistic perturbation theory for the 1s2pstates in low-Zheliumlike systems. Physical Review A, 1995, 51, 3630-3635.	2.5	13
59	Acceleration in one, two, and three dimensions in launched roller coasters. Physics Education, 2008, 43, 483-491.	0.5	13
60	Pendulum rides, rotations and the Coriolis effect. Physics Education, 2018, 53, 045017.	0.5	13
61	A rollercoaster viewed through motion tracker data. Physics Education, 2005, 40, 522-526.	0.5	12
62	Motion on an inclined plane and the nature of science. Physics Education, 2014, 49, 180-186.	0.5	12
63	Gamified physics challenges for teachers and the public. Physics Education, 2020, 55, 045014.	0.5	12
64	Liquid in accelerated motion. Physics Education, 2015, 50, 648-650.	0.5	11
65	Experimental and theoretical investigation of the isotope shift of the 4D level in atomic potassium. Zeitschrift Für Physik A, 1984, 318, 285-290.	1.4	10
66	Electron correlation effects in the 4f14shell. International Journal of Quantum Chemistry, 1985, 27, 665-675.	2.0	10
67	Charge radii in francium isotopes. Molecular Physics, 2000, 98, 1201-1204.	1.7	10
68	How do we know that the Earth spins around its axis?. Physics Education, 2008, 43, 158-164.	0.5	10
69	Student investigations of the forces in a roller coaster loop. European Journal of Physics, 2013, 34, 1379-1389.	0.6	10
70	Up and down, light and heavy, fast and slow—but where?. Physics Education, 2019, 54, 025017.	0.5	10
71	The Specific Mass Shift of the Ionisation Energy in Ne Calculated by Many-Body Perturbation Theory. Physica Scripta, 1983, 28, 469-471.	2.5	9
72	Aerodynamics in the amusement park: interpreting sensor data for acceleration and rotation. Physics Education, 2016, 51, 055015.	0.5	8

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73	Isotopes through the looking glass. , 2000, 127, 41-48.		7
74	Force, acceleration and velocity during trampoline jumps—a challenging assignment. Physics Education, 2017, 52, 065021.	0.5	7
75	Balls rolling down a playground slide: What factors influence their motion?. Physics Education, 2021, 56, 015005.	0.5	7
76	Correlation and Relativistic Effects on LandégJFactors of Atomic lons. Hyperfine Interactions, 2003, 146/147, 127-131.	0.5	6
77	Rutherford visits middle school: a case study on how teachers direct attention to the nature of science through a storytelling approach. Physics Education, 2019, 54, 045002.	0.5	6
78	Mathematics, measurement and experience of rotations around three axes. European Journal of Physics, 2019, 40, 015003.	0.6	6
79	Forces in circular motion: discerning student strategies. Physics Education, 2020, 55, 045006.	0.5	6
80	Dirac-Hartree-Fock Calculations for Bismuth Including the Parity-Violating Operator in the Potential. Physica Scripta, 1980, 21, 293-294.	2.5	5
81	Comparisons between different calculations of PNC in Cs and Tl. Physica Scripta, 1987, 36, 122-128.	2.5	5
82	PNC Equations of Motion method. Physica Scripta, 1987, 36, 481-484.	2.5	5
83	Many-body perturbation theory in atomic structure calculations. Physica Scripta, 1993, T46, 102-109.	2.5	5
84	Free fall and the equivalence principle revisited. Physics Education, 2017, 52, 065002.	0.5	5
85	Contemporary science as context for teaching nature of science: teachers' development of popular science articles as a teaching resource. Physics Education, 2019, 54, 055008.	0.5	5
86	Forces on hockey players: vectors, work, energy and angular momentum. European Journal of Physics, 2019, 40, 065005.	0.6	5
87	Att utgå från frågor och situationer i förskolans vardag: Vilket naturvetenskapligt innehåll kan det leda till? Starting from questions and everyday situations in preschool: What kind of science content could that lead to?. Nordic Studies in Science Education, 2014, 10, 77-89.	0.2	5
88	Virtual reality, video screen shots and sensor data for a large drop tower ride. Physics Education, 2020, 55, 055017.	0.5	5
89	Teachers' Perceived Requirements for Collaborating with the Surrounding World. Nordic Studies in Science Education, 2012, 8, 227-243.	0.2	4
90	ls the Archimedes principle a law of nature? Discussions in an â€~extended teacher room'. Physics Education, 2020, 55, 065025.	0.5	4

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91	Atoms through the looking glass – a relativistic challenge. Canadian Journal of Physics, 2008, 86, 99-109.	1.1	3
92	Achterbahn fahren im Physikunterricht. Physikdidaktik. Physik in Unserer Zeit, 2009, 40, 90-95.	0.0	3
93	Training teachers to use playgrounds in physics teaching. Journal of Physics: Conference Series, 2019, 1286, 012069.	0.4	3
94	Numerical Determination of Non-Relativistic and Relativistic Pair Correlation. , 1989, , 131-160.		3
95	En Delfistudie om läares uppfattning av elevengagemang i NO-undervisningen A Delphi study of teachers views on engagement in the science classroom. Nordic Studies in Science Education, 2019, 15, 128-144.	0.2	3
96	Parity non-conserving effects in atomic systems. Physica Scripta, 1993, T46, 182-183.	2.5	2
97	The Manhattan project—a part of physics history. Physics Education, 2006, 41, 493-501.	0.5	2
98	Understanding acceleration: An interplay between different mathematics and physics representations. Journal of Physics: Conference Series, 2019, 1286, 012070.	0.4	1
99	Reply to Comment on â€~Forces on hockey players: vectors, work, energy and angular momentum'. European Journal of Physics, 2021, 42, 028009.	0.6	1
100	Gymnasiets laboratorionsundervisning i fysik – mellan tradition och ädrade styrdokument. Lumat, 2018, 6, .	0.5	1
101	Gymnasiets laborationsundervisning i fysik – Vad påverkar läares val av laborationer?. Lumat, 2019, 7, .	0.5	1
102	Teacher interventions and student strategies for circular motion problems: a matrix representation. Physics Education, 2022, 57, 035003.	0.5	1
103	From skating rink to physics assignment—viewing a photo from a mechanics perspective. Physics Education, 2022, 57, 055003.	0.5	1
104	Parity Non-Conservation and Pair Correlation in Heavy Atomic Systems. Physica Scripta, 1988, T22, 300-302.	2.5	0
105	The NO-pair equation—Fundamental problems, numerical solutions and applications. AIP Conference Proceedings, 1989, , .	0.4	0
106	Coupled-cluster calculations for atoms. AIP Conference Proceedings, 1991, , .	0.4	0
107	Treatment of atomic quasi-degeneracy in bound-state QED. Application to the 1s2p states of He-like ions. AIP Conference Proceedings, 2001, , .	0.4	0
108	Careers in the Nordic nations. Physics World, 2004, 17, 42-43.	0.0	0

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109	The International Year of Light and Light-based Technologies. Physics Education, 2015, 50, 291-294.	0.5	Ο
110	Roller coaster loop shapes revisited. Physics Education, 2016, 51, 030106.	0.5	0
111	The cooling of a swede—part of an EUSO CSI challenge. Physics Education, 2021, 56, 025018.	0.5	0
112	QUASI-DEGENERACY IN BOUND-STATE QED. FINE STRUCTURE OF HELIUMLIKE IONS. , 2003, , .		0
113	Calculation of P- and T-Violating Properties in Atoms and Molecules. , 1992, , 99-156.		0
114	Atomic Spectroscopy as a Probe of Parity Non-Conserving Effects in the Nucleus. NATO ASI Series Series B: Physics, 1992, , 87-92.	0.2	0
115	Teaching with Google Classroom. Educare - Vetenskapliga Skrifter, 2020, , 158-191.	0.2	0
116	Educational Visits to Amusement Parks. , 2021, , 1-26.		0
117	Newton's Laws: Motion and Forces. , 2021, , 1-18.		0
118	Acceleration and Newton's Second Law. , 2021, , 1-34.		0
119	Rotation. , 2021, , 1-18.		0
120	Physics on a Playground. , 2021, , 1-30.		0
121	Circular Motion on a Vertical Plane. , 2021, , 1-30.		0
122	Roller Coasters in Physics Education. , 2021, , 1-30.		0
123	Circular Motion in a Horizontal Plane. , 2021, , 1-22.		0
124	Pendulum Rides. , 2021, , 1-26.		0
125	Technology and Safety. , 2021, , 1-20.		0
126	Illusions. , 2021, , 1-18.		0