

# Roger A Hegstrom

## List of Publications by Year in descending order

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25  
papers

932  
citations

567281

15  
h-index

642732

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

448  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Handedness of the Universe. <i>Scientific American</i> , 1990, 262, 108-115.	1.0	220
2	Hydrogenic Atoms in a Magnetic Field. <i>Physical Review A</i> , 1971, 4, 59-69.	2.5	175
3	$\hat{I}^2$ Decay and the origins of biological chirality: theoretical results. <i>Nature</i> , 1982, 297, 643-647.	27.8	94
4	Magnetic Properties of the BH Molecule. <i>Journal of Chemical Physics</i> , 1966, 45, 2378-2383.	3.0	63
5	Nuclear-Mass and Anomalous-Moment Corrections to the Hamiltonian for an Atom in a Constant External Magnetic Field. <i>Physical Review A</i> , 1973, 7, 451-456.	2.5	53
6	Paramagnetism in Closed-Shell Molecules. <i>Reviews of Modern Physics</i> , 1968, 40, 354-358.	45.6	46
7	g factors and related magnetic properties of molecules. Formulation of theory and calculations for $H_2^+$ , $HD^+$ , and $D_2^+$ . <i>Physical Review A</i> , 1979, 19, 17-30.	2.5	44
8	Weak neutral current and $\hat{I}^2$ radiolysis effects on the origin of biomolecular chirality. <i>Nature</i> , 1985, 315, 749-750.	27.8	40
9	Magnetic moment of atomic lithium. <i>Physical Review A</i> , 1975, 11, 421-426.	2.5	30
10	Relativistic Treatment of the Shielding of the Electron and Proton Magnetic Dipole Moments in Atomic Hydrogen. <i>Physical Review</i> , 1969, 184, 17-22.	2.7	24
11	Parity nonconservation and the origin of biological chirality: Theoretical calculations. <i>Origins of Life and Evolution of Biospheres</i> , 1984, 14, 405-411.	0.6	20
12	Electron chirality. <i>Computational and Theoretical Chemistry</i> , 1991, 232, 17-21.	1.5	20
13	Optimized Minimum Basis Set for $BH_4^+$ . <i>Journal of Chemical Physics</i> , 1967, 46, 920-922.	3.0	19
14	Approximate Theories of Chemical Shift. <i>Journal of Chemical Physics</i> , 1967, 46, 1594-1597.	3.0	17
15	Parity violation and chiral symmetry breaking of a racemic mixture. <i>BioSystems</i> , 1987, 20, 49-56.	2.0	15
16	Calculation of the g Factor for the $2S_{1/2}$ State of Helium. <i>Physical Review A</i> , 1973, 8, 1166-1168.	2.5	14
17	Calculation of Magnetic Susceptibility and Proton Shielding in Methane. <i>Journal of Chemical Physics</i> , 1967, 46, 4538-4540.	3.0	7
18	Relativistic Treatment of the Shielding of the Electron and Proton Magnetic Dipole Moments in Atomic Hydrogen. <i>Physical Review A</i> , 1970, 1, 536-537.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Relativistic and Radiative Interactions of Many-Electron Atoms in an External Magnetic Field. Physical Review A, 1973, 8, 2771-2776.	2.5	6
20	A simple relationship between the nuclear magnetic shielding tensor and the electronic g tensor. Chemical Physics Letters, 1975, 36, 548-550.	2.6	6
21	A model of quantum measurement in Josephson junctions. Foundations of Physics, 1995, 25, 681-700.	1.3	6
22	Effect of nuclear mass on $g(\text{He}, 2S_{1/2})$ . Physical Review A, 1976, 14, 1574-1575.	2.5	5
23	Reinterpretation of the "relativistic mass" correction to the spin magnetic moment of a moving particle. Physical Review A, 1977, 15, 1797-1800.	2.5	2
24	Bragg Diffraction and the Interference of Two Atom Lasers: An Analogy. ACS Symposium Series, 2002, , 177-183.	0.5	0
25	Incompatible Variables and "Quantal" Phenomena in Psychology. Journal of the North Carolina Academy of Science, 2011, 127, 18-27.	0.2	0