

# Jerzy DembczyÅ„ski

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7693074/publications.pdf>

Version: 2024-02-01

82  
papers

1,448  
citations

304368

22  
h-index

433756

31  
g-index

82  
all docs

82  
docs citations

82  
times ranked

251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reanalysis of the even configurations system of atomic niobium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 13-21.	1.1	4
2	Construction of the energy matrix for complex atoms. European Physical Journal Plus, 2017, 132, 1.	1.2	3
3	Semi-empirical determination of radiative parameters for atomic nickel. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1127-1136.	1.6	5
4	Extended analysis of the system of even configurations of Ta II. Atomic Data and Nuclear Data Tables, 2017, 113, 350-360.	0.9	6
5	Construction of the energy matrix for complex atoms. European Physical Journal Plus, 2017, 132, 1.	1.2	4
6	Semi-empirical determination of radiative lifetimes for Sc II and Ti II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 176, 6-11.	1.1	10
7	Semi-empirical determination of radiative parameters for Ag <sup>ii</sup> . Monthly Notices of the Royal Astronomical Society, 2016, 459, 3768-3782.	1.6	6
8	Construction of the energy matrix for complex atoms. European Physical Journal Plus, 2016, 131, 1.	1.2	16
9	Construction of the energy matrix for complex atoms. European Physical Journal Plus, 2016, 131, 1.	1.2	23
10	Semi-empirical analysis of the fine structure and oscillator strengths for atomic strontium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 170, 106-116.	1.1	11
11	Method for detecting the isomeric state $I = \frac{1}{2}^+$ . Physical Review A, 2015, 92, 042502.	1.0	5
12	Construction of the energy matrix for complex atoms Part III: Excitation of two equivalent electrons from a closed shell into an open shell or an empty shell. European Physical Journal Plus, 2015, 130, 1.	1.2	19
13	Construction of the energy matrix for complex atoms Part IV: Excitation of one electron from a closed shell into an open shell. European Physical Journal Plus, 2015, 130, 1.	1.2	18
14	Semi-empirical analysis of oscillator strengths for Nb II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 155, 1-9.	1.1	20
15	Parametric study of the fine and hyperfine structure for the even parity configurations of atomic niobium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 015006.	0.6	18
16	Hyperfine structure, lifetime and oscillator strength of V II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 166, 55-63.	1.1	16
17	Construction of the energy matrix for complex atoms Part I: General remarks. European Physical Journal Plus, 2015, 130, 1.	1.2	23
18	Construction of the energy matrix for complex atoms Part II: Explicit formulae for inter-configuration interactions. European Physical Journal Plus, 2015, 130, 1.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Semi-empirical calculations of oscillator strengths and hyperfine constants for Ti II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 149, 168-183.	1.1	25
20	New even-parity fine structure levels of the Lanthanum atom discovered by means of optogalvanic spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 165001.	0.6	22
21	An alternative method for determination of oscillator strengths: The example of Sc II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 145, 20-42.	1.1	34
22	Optogalvanic spectroscopy of the hyperfine structure of weak La I lines: discovery of new even parity fine structure levels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 065002.	0.6	22
23	Progress in the analysis of the even parity configurations of tantalum atom. European Physical Journal: Special Topics, 2013, 222, 2085-2102.	1.2	10
24	Techniques of laser spectroscopy in investigations of lanthanides' free atoms and ions. Hyperfine Interactions, 2010, 196, 61-69.	0.2	4
25	Critical analysis of the methods of interpretation in the hyperfine structure of free atoms and ions: case of the model space $(5d+6s)^3$ of the lanthanum atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 065001.	0.6	45
26	Experimental investigations of the hyperfine structure in neutral La: II. Even parity levels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 015001.	0.6	29
27	Experimental investigations of the hyperfine structure in neutral La: I. Odd parity levels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 175005.	0.6	34
28	A study of the hyperfine structure of Ta I lines based on Fourier transform spectra and laser-induced fluorescence. Physica Scripta, 2009, 80, 025301.	1.2	7
29	Hyperfine structure in La II even configuration levels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 235002.	0.6	15
30	Hyperfine structure in La II odd configuration levels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 215004.	0.6	20
31	High precision investigations of the hyperfine structure of metastable levels in a chromium atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 2785-2797.	0.6	13
32	Hyperfine structure analysis odd configurations levels in neutral lanthanum: I. Experimental. Physica Scripta, 2007, 76, 264-279.	1.2	38
33	Semi-empirical predictions of even atomic energy levels and their hyperfine structure for the scandium atom. Atomic Data and Nuclear Data Tables, 2007, 93, 149-165.	0.9	17
34	New electron levels and classified lines in Pr II from hyperfine structure measurements. Atomic Data and Nuclear Data Tables, 2007, 93, 127-137.	0.9	17
35	New Levels and Hyperfine Structure Evaluation in Singly Ionized Praseodymium. Physica Scripta, 2005, 72, 300-308.	1.2	22
36	Interpretation of the Hyperfine Structure of the Even Configuration System of Pr I. Physica Scripta, 2003, 68, 133-140.	1.2	24

#	ARTICLE	IF	CITATIONS
37	Reanalysis and Semi-Empirical Predictions of the Hyperfine Structure of Eu I in the Odd Parity Multiconfiguration System. <i>Physica Scripta</i> , 2002, 65, 237-247.	1.2	13
38	Hyperfine-structure measurements and new levels evaluation in singly ionized praseodymium. <i>European Physical Journal D</i> , 2001, 17, 275-284.	0.6	24
39	Recent progress in the theory of the complex atomic hyperfine structure. , 2000, 127, 49-56.		8
40	Hyperfine splitting and isotope shift in the optical transition of Eu isotopes and electromagnetic moments of Eu. <i>European Physical Journal D</i> , 2000, 11, 341-345.	0.6	13
41	Construction of Energy Matrix for Complex Atoms. Part 2. <i>Physica Scripta</i> , 1999, 59, 49-51.	1.2	29
42	Doppler limited laser spectroscopy on hafnium lines. Part II: Hyperfine structure of odd-parity levels. <i>European Physical Journal D</i> , 1999, 6, 311-317.	0.6	11
43	Doppler limited laser spectroscopy on hafnium lines. Part I: Hyperfine structure of even-parity levels. <i>European Physical Journal D</i> , 1999, 6, 303.	0.6	9
44	Reanalysis and semi-empirical predictions of the hyperfine structure of $\text{Zr}^{\text{I}}$ in the model space $(4d + 5s)^4$ . <i>European Physical Journal D</i> , 1998, 4, 39-46.	0.6	18
45	Ground-state hyperfine-structure measurements of unstable Eu isotopes in a Paul ion trap. <i>Physical Review A</i> , 1997, 56, 265-269.	1.0	24
46	Term analysis and hyperfine structure in neutral vanadium. <i>Physica Scripta</i> , 1997, 55, 586-598.	1.2	22
47	Hyperfine structure measurements in the. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 42, 171.	1.0	6
48	Semi-Empirical Predictions of the Hyperfine Structure of $^{179}\text{Hf}^{\text{I}}$ in the Model Space $(5d + 6s)^4$ . <i>Journal De Physique II</i> , 1997, 7, 1175-1183.	0.9	12
49	Observation of $\text{Pr}^{\text{I}}$ ions in Paul Trap. <i>Acta Physica Polonica A</i> , 1997, 92, 517-526.	0.2	4
50	Remarks on the interpretation of very high-precision measurements of hyperfine-structure splittings in neutral and singly ionized complex atoms. <i>Physica Scripta</i> , 1996, T65, 88-98.	1.2	31
51	Construction of energy matrix for complex atoms in space of $(nd + n's)N + 2 + \hat{L}i, jndN + 2$ configurations. <i>Physica Scripta</i> , 1996, 54, 444-457.	1.2	43
52	Hyperfine-structure measurements in the ground state of radioactive $\text{Eu}^{\text{I}}$ ions. <i>Physical Review A</i> , 1995, 52, 4434-4438.	1.0	15
53	Measurement and interpretation of the odd-parity levels of $\text{Pb}^{\text{I}}$ . <i>Physical Review A</i> , 1994, 49, 745-754.	1.0	19
54	Upper limits of higher nuclear moments of $^{47}\text{Ti}$ and $^{49}\text{Ti}$ . <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1994, 32, 27-30.	1.0	8

#	ARTICLE	IF	CITATIONS
55	Laser-induced fluorescence line narrowing in cobalt I. Applied Physics B: Lasers and Optics, 1994, 59, 299-306.	1.1	3
56	Hyperfine structure constants and isotope shift of the levels of the configuration $4f^6 6s^2$ in Eu I. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1993, 27, 103-109.	1.0	11
57	Hyperfine-structure measurements of the $Eu^{+151,153}$ ground state. Physical Review A, 1993, 48, 3546-3554.	1.0	43
58	Sternheimer free determination of the $Co^{59}$ nuclear quadrupole moment from hyperfine-structure measurements. Physical Review A, 1993, 48, 2752-2761.	1.0	24
59	New approach of level-fitting calculations in multiconfiguration approximation. a test on the silicon atom. Physica Scripta, 1991, 43, 248-256.	1.2	15
60	Off-diagonal effects in the hyperfine-structure splitting in the Eu I term $6D_{of} 4f^6 6s^6 d$ . Physical Review A, 1991, 44, 5737-5743.	1.0	15
61	Sternheimer free determination of the $^{47}Ti$ nuclear quadrupole moment from hyperfine structure measurements. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1990, 15, 281-291.	1.0	37
62	Sternheimer free determination of the $^{51}V$ nuclear quadrupole moment from hyperfine structure measurements. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1989, 11, 259-271.	1.0	36
63	Reanalysis of the Am I level spectrum and the nuclear quadrupole moments of Am isotopes. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1989, 13, 181-192.	1.0	12
64	The $5s5p^3$ levels of Sn I. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1988, 8, 329-332.	1.0	9
65	Configuration interaction effect on the hyperfine structure of the levels of the $6s6p^3$ configuration in Bi II. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1987, 7, 177-183.	1.0	6
66	Hyperfine structure studies in the mixed configurations ( $4p^2 4d+4s 4p^4$ ) of arsenic. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1987, 7, 185-188.	1.0	4
67	Fine structure energy matrix for the system. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1986, 138, 347-355.	0.9	2
68	Revision of the energy scheme of the arsenic atom. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1986, 142, 111-119.	0.9	2
69	Precise description of the odd parity energy levels in the spectrum Ge I. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1986, 141, 219-229.	0.9	14
70	Hyperfine structure measurements of the metastable ( $3d^6 4s^2$ ) $^3H_4, 5, 6$ states of $^{57}Fe$ : Configuration interaction in the hyperfine structure of the iron atom. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1986, 2, 67-77.	1.0	21
71	A new parametrization method for hyperfine interactions. Determination of nuclear quadrupole moments almost free of Sternheimer corrections. Zeitschrift für Physik A, 1985, 321, 1-13.	1.4	39
72	Perturbation of the configurations $5s^2 5p^4 \epsilon^2 s$ and $5s^2 5p^4 \epsilon^3 d$ by the configuration $5s5p^3$ in the spectrum Sn I. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1984, 125, 341-352.	0.9	26

#	ARTICLE	IF	CITATIONS
73	Fine- and hyperfine structure analysis of the odd configurations in the lead atom. Zeitschrift für Physik A, 1984, 315, 137-144.	1.4	20
74	Discrete-spectrum contributions to the Bauche-Arnoult hyperfine structure parameters for the first row transition metal atoms. Journal De Physique, 1984, 45, 681-688.	1.8	10
75	Parametrization of two-body perturbation on atomic fine and hyperfine structure. The configuration (6p)3 in the bismuth atom. Zeitschrift für Physik A, 1983, 310, 27-36.	1.4	15
76	New metastable levels in the first spectrum of vanadium. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1982, 115, 101-102.	0.9	0
77	Experimental evidence for far configuration mixing effects on off-diagonal hfs interaction between the (3d+4s) N+2 configurations of free atoms. Zeitschrift für Physik A, 1981, 303, 7-12.	1.4	36
78	High precision measurements of the hyperfine structure of seven metastable atomic states of <sup>57</sup> Fe by laser-Rf double-resonance. Zeitschrift für Physik A, 1980, 294, 313-317.	1.4	18
79	Fine structure interactions in the first spectrum of the Ti, V, Mn and Fe atoms. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1980, 100, 105-123.	0.9	14
80	Experimental proof of configuration interaction on the hyperfine structure of the <sup>57</sup> Fe atom. Journal De Physique, 1980, 41, 109-118.	1.8	16
81	Laser-Rf double-resonance studies of the hyperfine structure of metastable atomic states of <sup>55</sup> Mn. Zeitschrift für Physik A, 1979, 291, 207-218.	1.4	58
82	Investigation of the hyperfine structure of <sup>209</sup> Bi in some levels of the Bi I spectrum. Journal of Physics B: Atomic and Molecular Physics, 1977, 10, 2951-2962.	1.6	9