

Jerzy DembczyÅ„ski

List of Publications by Year in descending order

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82
papers

1,448
citations

304368

22
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433756

31
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82
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82
docs citations

82
times ranked

251
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Rf double-resonance studies of the hyperfine structure of metastable atomic states of ^{55}Mn . Zeitschrift für Physik A, 1979, 291, 207-218.	1.4	58
2	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
3	Hyperfine-structure measurements of the $\text{Eu}^{+151,153}$ ground state. Physical Review A, 1993, 48, 3546-3554.	1.0	43
4	Construction of energy matrix for complex atoms in space of $(nd+n's)N+2$ configurations. Physica Scripta, 1996, 54, 444-457.	1.2	43
5	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
6	Hyperfine structure analysis odd configurations levels in neutral lanthanum: I. Experimental. Physica Scripta, 2007, 76, 264-279.	1.2	38
7	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
8	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
9	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
10	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
11	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
12	Remarks on the interpretation of very high-precision measurements of hyperfine-structure splittings in neutral and singly ionized complex atoms. Physica Scripta, 1996, T65, 88-98.	1.2	31
13	Construction of Energy Matrix for Complex Atoms. Part 2. Physica Scripta, 1999, 59, 49-51.	1.2	29
14	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
15	Perturbation of the configurations $5s25p^2$ and $5s25p^3d$ 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
16	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
17	Sternheimer free determination of the ^{59}Co nuclear quadrupole moment from hyperfine-structure measurements. Physical Review A, 1993, 48, 2752-2761.	1.0	24
18	Ground-state hyperfine-structure measurements of unstable Eu^{+} isotopes in a Paul ion trap. Physical Review A, 1997, 56, 265-269.	1.0	24

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19	Hyperfine-structure measurements and new levels evaluation in singly ionized praseodymium. European Physical Journal D, 2001, 17, 275-284.	0.6	24
20	Interpretation of the Hyperfine Structure of the Even Configuration System of Pr I. Physica Scripta, 2003, 68, 133-140.	1.2	24
21	Construction of the energy matrix for complex atoms Part I: General remarks. European Physical Journal Plus, 2015, 130, 1.	1.2	23
22	Construction of the energy matrix for complex atoms. European Physical Journal Plus, 2016, 131, 1.	1.2	23
23	Term analysis and hyperfine structure in neutral vanadium. Physica Scripta, 1997, 55, 586-598.	1.2	22
24	New Levels and Hyperfine Structure Evaluation in Singly Ionized Praseodymium. Physica Scripta, 2005, 72, 300-308.	1.2	22
25	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
26	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
27	Hyperfine structure measurements of the metastable $(3d\ 6\ 4s\ 2)^3\ H\ 4, 5, 6$ 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
28	Fine- and hyperfine structure analysis of the odd configurations in the lead atom. Zeitschrift für Physik A, 1984, 315, 137-144.	1.4	20
29	Hyperfine structure in La II odd configuration levels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 215004.	0.6	20
30	Semi-empirical analysis of oscillator strengths for Nb II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 155, 1-9.	1.1	20
31	Measurement and interpretation of the odd-parity levels of Pb I. Physical Review A, 1994, 49, 745-754.	1.0	19
32	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
33	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
34	High precision measurements of the hyperfine structure of seven metastable atomic states of ^{57}Fe by laser-Rf double-resonance. Zeitschrift für Physik A, 1980, 294, 313-317.	1.4	18
35	Reanalysis and semi-empirical predictions of the hyperfine structure of ^{91}Zr in the model space $(4d + 5s)^4$. European Physical Journal D, 1998, 4, 39-46.	0.6	18
36	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

#	ARTICLE	IF	CITATIONS
37	Parametric study of the fine and hyperfine structure for the even parity configurations of atomic niobium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 015006.	0.6	18
38	Semi-empirical predictions of even atomic energy levels and their hyperfine structure for the scandium atom. <i>Atomic Data and Nuclear Data Tables</i> , 2007, 93, 149-165.	0.9	17
39	New electron levels and classified lines in Pr II from hyperfine structure measurements. <i>Atomic Data and Nuclear Data Tables</i> , 2007, 93, 127-137.	0.9	17
40	Hyperfine structure, lifetime and oscillator strength of V II. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 166, 55-63.	1.1	16
41	Construction of the energy matrix for complex atoms. <i>European Physical Journal Plus</i> , 2016, 131, 1.	1.2	16
42	Experimental proof of configuration interaction on the hyperfine structure of the ^{57}Fe atom. <i>Journal De Physique</i> , 1980, 41, 109-118.	1.8	16
43	Parametrization of two-body perturbation on atomic fine and hyperfine structure. The configuration $(6p)3$ in the bismuth atom. <i>Zeitschrift für Physik A</i> , 1983, 310, 27-36.	1.4	15
44	New approach of level-fitting calculations in multiconfiguration approximation. a test on the silicon atom. <i>Physica Scripta</i> , 1991, 43, 248-256.	1.2	15
45	Off-diagonal effects in the hyperfine-structure splitting in the Eu I term $6D_{of} 4f76s6d$. <i>Physical Review A</i> , 1991, 44, 5737-5743.	1.0	15
46	Hyperfine-structure measurements in the ground state of radioactive Eu^{150} ions. <i>Physical Review A</i> , 1995, 52, 4434-4438.	1.0	15
47	Hyperfine structure in La II even configuration levels. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 235002.	0.6	15
48	Fine structure interactions in the first spectrum of the Ti, V, Mn and Fe atoms. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1980, 100, 105-123.	0.9	14
49	Precise description of the odd parity energy levels in the spectrum Ge I. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1986, 141, 219-229.	0.9	14
50	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
51	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
52	High precision investigations of the hyperfine structure of metastable levels in a chromium atom. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 2785-2797.	0.6	13
53	Reanalysis of the Am I level spectrum and the nuclear quadrupole moments of Am-isotopes. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1989, 13, 181-192.	1.0	12
54	Semi-Empirical Predictions of the Hyperfine Structure of ^{179}Hf I in the Model Space $(5d + 6s)^4$. <i>Journal De Physique II</i> , 1997, 7, 1175-1183.	0.9	12

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55	Hyperfine structure constants and isotope shift of the levels of the configuration $4f^6 5d^1 6s^2$ in Eu I. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1993, 27, 103-109.	1.0	11
56	Doppler limited laser spectroscopy on hafnium lines. Part II: Hyperfine structure of odd-parity levels. European Physical Journal D, 1999, 6, 311-317.	0.6	11
57	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
58	Progress in the analysis of the even parity configurations of tantalum atom. European Physical Journal: Special Topics, 2013, 222, 2085-2102.	1.2	10
59	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
60	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
61	Investigation of the hyperfine structure of ^{209}Bi in some levels of the Bi I spectrum. Journal of Physics B: Atomic and Molecular Physics, 1977, 10, 2951-2962.	1.6	9
62	The $5s5p^3$ levels of Sn I. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1988, 8, 329-332.	1.0	9
63	Doppler limited laser spectroscopy on hafnium lines. Part I: Hyperfine structure of even-parity levels. European Physical Journal D, 1999, 6, 303.	0.6	9
64	Upper limits of higher nuclear moments of ^{47}Ti and ^{49}Ti . Zeitschrift für Physik D-Atoms Molecules and Clusters, 1994, 32, 27-30.	1.0	8
65	Recent progress in the theory of the complex atomic hyperfine structure. , 2000, 127, 49-56.		8
66	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
67	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
68	Hyperfine structure measurements in the. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1997, 42, 171.	1.0	6
69	Semi-empirical determination of radiative parameters for Ag ⁱⁱ . Monthly Notices of the Royal Astronomical Society, 2016, 459, 3768-3782.	1.6	6
70	Extended analysis of the system of even configurations of Ta II. Atomic Data and Nuclear Data Tables, 2017, 113, 350-360.	0.9	6
71	Method for detecting the isomeric state $T_{\text{h}} = \frac{I}{\sum_{i=1}^n \frac{1}{\tau_i}}$ Physical Review A, 2015, 92, .	1.0	5
72	Semi-empirical determination of radiative parameters for atomic nickel. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1127-1136.	1.6	5

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73	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
74	Techniques of laser spectroscopy in investigations of lanthanides free atoms and ions. Hyperfine Interactions, 2010, 196, 61-69.	0.2	4
75	Construction of the energy matrix for complex atoms. European Physical Journal Plus, 2017, 132, 1.	1.2	4
76	Reanalysis of the even configurations system of atomic niobium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 13-21.	1.1	4
77	Observation of Pr ⁺ Ions in Paul Trap. Acta Physica Polonica A, 1997, 92, 517-526.	0.2	4
78	Laser-induced fluorescence line narrowing in cobalt I. Applied Physics B: Lasers and Optics, 1994, 59, 299-306.	1.1	3
79	Construction of the energy matrix for complex atoms. European Physical Journal Plus, 2017, 132, 1.	1.2	3
80	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
81	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
82	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