

Jarosław Ruczkowski

List of Publications by Year in descending order

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papers

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citations

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docs citations

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146
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.5	45
2	Construction of energy matrix for complex atoms in space of $(nd+n's)N+2$ configurations. Physica Scripta, 1996, 54, 444-457.	2.5	43
3	An alternative method for determination of oscillator strengths: The example of Sc II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 145, 20-42.	2.3	34
4	Construction of Energy Matrix for Complex Atoms. Part 2. Physica Scripta, 1999, 59, 49-51.	2.5	29
5	Large Shape Staggering in Neutron-Deficient Bi Isotopes. Physical Review Letters, 2021, 127, 192501.	7.8	27
6	Semi-empirical calculations of oscillator strengths and hyperfine constants for Ti II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 149, 168-183.	2.3	25
7	Hyperfine-structure measurements and new levels evaluation in singly ionized praseodymium. European Physical Journal D, 2001, 17, 275-284.	1.3	24
8	Interpretation of the Hyperfine Structure of the Even Configuration System of Pr I. Physica Scripta, 2003, 68, 133-140.	2.5	24
9	Construction of the energy matrix for complex atoms Part I: General remarks. European Physical Journal Plus, 2015, 130, 1.	2.6	23
10	Construction of the energy matrix for complex atoms. European Physical Journal Plus, 2016, 131, 1.	2.6	23
11	Hyperfine structure in La II odd configuration levels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 215004.	1.5	20
12	Semi-empirical analysis of oscillator strengths for Nb II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 155, 1-9.	2.3	20
13	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.	2.6	19
14	Construction of the energy matrix for complex atoms Part II: Explicit formulae for inter-configuration interactions. European Physical Journal Plus, 2015, 130, 1.	2.6	19
15	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.	1.3	18
16	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.	2.6	18
17	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.	1.5	18
18	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.	2.4	17

#	ARTICLE	IF	CITATIONS
19	Fine- and hyperfine structure investigations of the even-parity configuration system of the atomic holmium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 209, 180-195.	2.3	17
20	Hyperfine structure, lifetime and oscillator strength of V II. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 166, 55-63.	2.3	16
21	Construction of the energy matrix for complex atoms. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	16
22	Hyperfine structure in La II even configuration levels. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 235002.	1.5	15
23	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.	1.3	13
24	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.	2.5	13
25	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.	1.5	13
26	Fine- and hyperfine structure investigations of even configuration system of atomic terbium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 189, 441-456.	2.3	13
27	Semi-Empirical Predictions of the Hyperfine Structure of ^{179}HfI in the Model Space $(5d + 6s)4$. <i>Journal De Physique II</i> , 1997, 7, 1175-1183.	0.9	12
28	Hyperfine structure constants and isotope shift of the levels of the configuration $4f^6 5d 6s^2$ in Eu I. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 27, 103-109.	1.0	11
29	Semi-empirical analysis of the fine structure and oscillator strengths for atomic strontium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 170, 106-116.	2.3	11
30	Laser resonance ionization spectroscopy of antimony. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 128, 36-44.	2.9	11
31	Progress in the analysis of the even parity configurations of tantalum atom. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2085-2102.	2.6	10
32	Semi-empirical determination of radiative lifetimes for Sc II and Ti II. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 176, 6-11.	2.3	10
33	Recent progress in the theory of the complex atomic hyperfine structure. , 2000, 127, 49-56.		8
34	Semi-empirical determination of radiative parameters for Ag ⁱⁱ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 3768-3782.	4.4	6
35	Extended analysis of the system of even configurations of Ta II. <i>Atomic Data and Nuclear Data Tables</i> , 2017, 113, 350-360.	2.4	6
36	Fine- and hyperfine structure investigations of the odd-parity configuration system in atomic holmium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 237, 106642.	2.3	6

