

ФОРМА

списка публикаций соискателя для заполнения
(приложение к Заявлению о приеме диссертации к защите)

СПИСОК

публикаций, в которых излагаются основные научные результаты диссертации
на соискание ученой степени доктора Физико-математических наук
по специальности 01.04.02 – теоретическая физика на тему:
*Теоретическое исследование двухатомных молекул для
поиска электрического дипольного момента электрона,*
опубликованных в рецензируемых изданиях

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№ п/п	Название публикации на языке оригинала	Тип публикации	DOI	Наименование издания	ISSN издания	Группы научных специальностей/научные специальности, в которых имеет право публиковать журнал	Выходные данные публикации (Номер тома, Номер части тома, Номер журнала, Страницы размещения публикации в журнале)	Объем публикации (лист) *	Соавторы (Ф.И.О.)	Интернет-адрес публикации и в журнале	Библиографическая база данных (eLIBRARY, Web of Science, Scopus и др.)	№ публикации в списке литературы диссертации
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Calculation of P,T-Odd Effects in ²⁰⁵ Tl Including Electron Correlation	статья	https://doi.org/10.1103/PhysRevLett.88.073001	Physical Review Letters	0031-9007		2002, v. 88, p. 073001 (1-4)	4/1	N.S.Mosyagin, T.A.Isaev, A.V.Titov, V.F.Ezhov, E.Eliav,		WOS, SCOPUS, eLIBRARY	47

									U.Kaldor			
2	Accuracy and efficiency of modern methods for electronic structure calculation on heavy- and superheavy-element compounds	статья	https://doi.org/10.1134/1.1586430	Physics of Atomic Nuclei	1063-7788		2003, v. 66, p. 1152-1162	11/2	A.V. Titov, N.S. Mosyagin, T.A. Isaev		WOS, SCOPUS, eLIBRARY	48
3	In search of the electron dipole moment: Ab initio calculations on ^{207}PbO excited states	статья	https://doi.org/10.1103/PhysRevA.69.030501	Physical Review A	2469-9926		2004, v. 69, p. 030501(R) (1-4)	4/0.5	T.A. Isaev, N.S. Mosyagin, A.V. Titov, E. Eliav and U. Kaldor		WOS, SCOPUS, eLIBRARY	77
4	Accounting for Breit interaction in relativistic effective core potential calculations of actinides	статья	https://doi.org/10.1088/0953-4075/37/23/004	Journal of Physics B	0953-4075		2004, v. 34, p.4621-4637	17/6	N. S.Mosyagin, A. V. Titov, I.I. Tupitsyn		WOS, SCOPUS, eLIBRARY	46
5	Configuration interaction calculation of hyperfine and P,T-odd constants on ^{207}PbO excited states for the electron EDM experiments	статья	https://doi.org/10.1103/PhysRevA.72.022505	Physical Review A	2469-9926		2005, v. 72, p. 022505 (1-6)	6/2	A.V. Titov, T.A. Isaev, N.S.Mosyagin, D. DeMille		WOS, SCOPUS, eLIBRARY	70
6	In Search of the Electron Electric Dipole Moment: Relativistic Correlation Calculations of the P,T-Violating Effect in the	статья	https://doi.org/10.1103/PhysRevLett.95.163004	Physical Review Letters	0031-9007		2005, v. 95, p.163004 (1-4)	4/1	T.A.Isaev, N.S.Mosyagin, A.V.Titov		WOS, SCOPUS, eLIBRARY	93

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7	Two-step method for precise calculation of core properties in molecules	статья	https://doi.org/10.1002/qua.20418	International Journal of Quantum Chemistry	0020-7608		2005, v. 104, p. 223-239	17/4	A.V.Titov, N.S.Mosyagin, T.A.Isaev		WOS, SCOPUS, eLIBRARY	49
8	Study of P,T-Parity Violation Effects in Polar Heavy-Atom Molecules	статья		Recent Advances in the Theory of Chemical and Physical Systems, Proceedings of the 9th European Workshop on Quantum Systems in Chemistry and Physics (QSCP-IX) held at Les Houches, France, in September 2004, Series: Progress in Theoretical Chemistry and Physics	ISBN: 1-4020-4527-1		2006, v. 15, Chapt. 2, p. 253-284	32/8	A.V.Titov, N.S.Mosyagin, T.A.Isaev, D. DeMille	https://www.springer.com/gp/book/9781402045271	WOS, SCOPUS	6
9	Generalized RECPs accounting for Breit effects: uranium, plutonium and superheavy elements 112, 113, 114	статья		Recent Advances in the Theory of Chemical and Physical Systems, Proceedings of the 9th European Workshop on Quantum Systems in Chemistry and Physics (QSCP-	ISBN: 1-4020-4527-1		2006, v. 15, Chapt. 2, p. 229-252	28/6	N.S.Mosyagin, A.V.Titov, I.I.Tupitsyn	https://www.springer.com/gp/book/9781402045271	WOS, SCOPUS	61

				IX) held at Les Houches, France, in September 2004, Series: Progress in Theoretical Chemistry and Physics								
10	Theoretical study of HfF ⁺ in search of the electron electric dipole moment	статья	https://doi.org/10.1103/PhysRevA.76.030501	Physical Review A	2469-9926		2007, v. 76, p. 030501R (1-4)	4/2	N. S.Mosyagin, T. A. Isaev, A. V.Titov		WOS, SCOPUS, eLIBRARY	137
11	Theoretical study of low-lying electronic terms and transition moments for HfF ⁺ for the electron electric-dipole-moment search	статья	https://doi.org/10.1103/PhysRevA.79.012505	Physical Review A	2469-9926		2009, v.79, p.012505(1-7)	7/3	N. S.Mosyagin, A. V.Titov		WOS, SCOPUS, eLIBRARY	138
12	Progress toward the electron electric-dipole-moment search: Theoretical study of the PbF molecule	статья	https://doi.org/10.1103/PhysRevA.82.060501	Physical Review A	2469-9926		2010, v. 82, p.060501R (1-4)	4/1	K.I. Baklanov, A.V. Titov, M.G. Kozlov		WOS, SCOPUS, eLIBRARY	99
13	Hyperfine and Zeeman interactions of the a(1)[³ Σ ⁺ ₁] state of PbO	статья	https://doi.org/10.1103/PhysRevA.83.024502	Physical Review A	2469-9926		2011, v.83, p. 024502 (1-4)	4	Her		WOS, SCOPUS, eLIBRARY	57
14	Precision spectroscopy of the ²⁰⁷ Pb ¹⁹ F molecule: Implications for measurement of P-odd and T-odd effects	статья	https://doi.org/10.1103/PhysRevA.83.040501	Physical Review A	2469-9926		2011, v.83, p.040501R (1-4)	4/0.5	Lukas D. Alpei, Jens-Uwe Grabow, R. Mawhorter, Benjamin Murphy, Alexander Baum, Trevor J. Sears, T. Zh. Yang,		WOS, SCOPUS, eLIBRARY	12

									P. M. Rupasinghe, C. P. McRaven, N. E. Shafer-Ray			
15	Broadband velocity modulation spectroscopy of HfF^+ : Towards a measurement of the electron electric dipole moment	статья	https://doi.org/10.1016/j.cplett.2012.06.037	Chem. Phys. Lett.	0009-2614		v. 546, 1, (2012), Invited (Frontiers) Article, Journal Cover	11/1	Kevin C. Cossel, Daniel N. Gresh, Laura C. Sinclair, Tyler Coffey, Leonid V. Skripnikov, Nikolai S. Mosyagin, Anatoly V. Titov, Robert W. Field, Edmund R. Meyer, Eric A. Cornell, Jun Ye		WOS, SCOPUS, eLIBRARY	136
16	Optical spectroscopy of tungsten carbide for uncertainty analysis in electron electric-dipole-moment search	статья	http://dx.doi.org/10.1103/PhysRevA.87.022516	Physical Review A	2469-9926		v. 87, 022516 (2013)	12/2	J. Lee, J. Chen, L. V. Skripnikov, A. V. Titov, N. S. Mosyagin, A. E. Leanhardt		WOS, SCOPUS, eLIBRARY	15
17	Centrifugal correction to hyperfine structure constants in the ground state of lead monofluoride	статья	https://doi.org/10.1103/PhysRevA.88.010501	Physical Review A	2469-9926		v. 88, 010501(R) (2013)	4/2	L. V. Skripnikov, A. V. Titov, and R. J. Mawhorter		WOS, SCOPUS, eLIBRARY	100
18	Enhanced effects of temporal variation of the fundamental constants in $^2\Pi_{1/2}$ term diatomic molecules: $^{207}\text{Pb}^{19}\text{F}$	статья	http://dx.doi.org/10.1103/PhysRevA.88.052124	Physical Review A	2469-9926		v. 88, 052124 (2013)	5/1	V. V. Flambaum, Y. V. Stadnik, M. G. Kozlov		WOS, SCOPUS, eLIBRARY	101

19	Communication: Theoretical study of ThO for the electron electric dipole moment search	статья	http://dx.doi.org/10.1063/1.4843955	The Journal of Chemical Physics	0021-9606		v. 139, 221103 (2013)	4/1	L. V. Skripnikov, A. V. Titov		WOS, SCOPUS, eLIBRARY	126
20	Zeeman interaction in ThO $H^3\Delta_1$ for the electron electric- dipole-moment search	статья	http://dx.doi.org/10.1103/PhysRevA.89.062505	Physical Review A	2469-9926		v. 89, 062505 (2014)	6/2	L.V. Skripnikov, A.V. Titov, N.R. Hutzler, P.W. Hess, B.R. O'Leary, B. Spaun, D. DeMille, G. Gabrielse, J.M. Doyle		WOS, SCOPUS, eLIBRARY	36
21	Search for parity- and time-and- parity-violation effects in lead monofluoride (PbF): Ab initio molecular study	статья	https://doi.org/10.1103/PhysRevA.90.064501	Physical Review A	2469-9926		v. 90, 064501 (2014)	4/1	L. V. Skripnikov, A. D. Kudashov, A. V. Titov		WOS, SCOPUS, eLIBRARY	103
22	CP-Violating Effect of the Th Nuclear Magnetic Quadrupole Moment: Accurate Many-Body Study of ThO	статья	http://dx.doi.org/10.1103/PhysRevLett.113.263006	Physical Review Letters	0031-9007		v. 113, 263006 (2014)	5/1	L. V. Skripnikov, A. V. Titov, and V. V. Flambaum		WOS, SCOPUS, eLIBRARY	146
23	ac Stark effect in ThO $H^3\Delta_1$ for the electron electric- dipole-moment search	статья	http://dx.doi.org/10.1103/PhysRevA.91.062509	Physical Review A	2469-9926		v. 91, 062509 (2015)	5	Her		WOS, SCOPUS, eLIBRARY	133
24	Further investigation of g factors for the lead	статья	http://dx.doi.org/10.1103/PhysRevA.92.032508	Physical Review A	2469-9926		v. 92, 032508 (2015)	4/1	L. V. Skripnikov, A. V. Titov, R. J.		WOS, SCOPUS, eLIBRARY	13

	monofluoride ground state								Mawhorter, A. L. Baum, T. J. Sears, and J.-U. Grabow			
25	Rabi frequency of the $H^3\Delta_1$ to $C^1\Pi$ transition in ThO: Influence of interaction with electric and magnetic fields	статья	https://doi.org/10.1103/PhysRevA.95.062501	Physical Review A	2469-9926		v. 95, 062501 (2017)	3	Her		WOS, SCOPUS, eLIBRARY	74
26	Zeeman interaction in the $^3\Delta_1$ state of HfF^+ to search for the electron electric dipole moment	статья	https://doi.org/10.1103/PhysRevA.96.022508	Physical Review A	2469-9926		v. 96, 022508 (2017)	5/2	Skripnikov, A.V. Titov		WOS, SCOPUS, eLIBRARY	142
27	Systematic effects in the HfF^+ -ion experiment to search for the electron electric dipole moment	статья	https://doi.org/10.1103/PhysRevA.97.052504	Physical Review A	2469-9926		v.97, 052504 (2018)	5	Her		WOS, SCOPUS, eLIBRARY	38
28	Evaluation of CP violation in HfF^+	статья	https://doi.org/10.1103/PhysRevA.98.042502	Physical Review A	2469-9926		v.98, 042502 (2018)	5/2	L. V. Skripnikov, A. V. Titov, V. V. Flambaum		WOS, SCOPUS, eLIBRARY	147
29	HfF^+ as a candidate to search for the nuclear weak quadrupole moment	статья	https://doi.org/10.1103/PhysRevA.99.012517	Physical Review A	2469-9926		v.99, 012517 (2019)	5/1	L. V. Skripnikov, A. V. Titov, V. V. Flambaum		WOS, SCOPUS, eLIBRARY	128
30	Interference between the E1 and M1 Amplitudes of the Transition from the H State to C of a ThO Molecule	статья	https://doi.org/10.1134/S0030400X19040192	Optics and Spectroscopy	0030-400X		v.126, 331 (2019)	5/3	L. V. Skripnikov		WOS, SCOPUS, eLIBRARY	75

Подтверждаю, что все основные научные результаты моей диссертации «*Теоретическое исследование двухатомных молекул для поиска электрического дипольного момента электрона*» опубликованы в вышеприведенных 30 публикациях

В случае необходимости готов (а) предоставить электронные/бумажные тексты публикаций с титульной страницей издания и его выходными данными

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