

Mariusz Puchalski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6170986/publications.pdf>

Version: 2024-02-01

68
papers

1,815
citations

218677

26
h-index

289244

40
g-index

70
all docs

70
docs citations

70
times ranked

859
citing authors

#	ARTICLE	IF	CITATIONS
1	QED theory of the nuclear magnetic shielding in H and ^3He . Physical Review A, 2022, 105, .	2.5	2
2	Nuclear magnetic shielding in HD and HT. Physical Review A, 2022, 105, .	2.5	3
3	Hyperfine structure of the P state in ^3Be and the nuclear quadrupole moment of ^9Be . Physical Review A, 2021, 104, .	3.6	7
4	Fine and hyperfine splitting of the low-lying states of ^3He and $^3\text{He}^+$. Physical Review A, 2021, 104, .	2.5	5
5	Second virial coefficients for ^3He and $^3\text{He}^+$. Physical Review A, 2020, 102, .	7.8	12
6	QED calculation of the dipole polarizability of helium atom. Physical Review A, 2020, 102, .	2.5	41
7	QED calculation of ionization energies of 1snd states in helium. Physical Review A, 2020, 102, .	2.5	7
8	QED calculation of the fine structure in Li-like ions. Physical Review A, 2020, 102, .	2.5	7
9	Hyperfine structure in the HD molecule. Physical Review A, 2020, 102, .	2.5	15
10	Self-energy screening effects in the g factor of Li-like ions. Physical Review A, 2020, 102, .	2.5	7
11	QED calculation of the dipole polarizability of helium atom. Physical Review A, 2020, 101, .	2.5	34
12	Hyperfine Structure of the First Rotational Level in H_2 . Physical Review A, 2020, 101, .	7.8	22
13	The full infrared spectrum of molecular hydrogen. Astronomy and Astrophysics, 2019, 630, A58.	5.1	43
14	Dissociation energy of molecular hydrogen isotopologues. Physical Review A, 2019, 100, .	2.5	25
15	Rovibrational energy levels of the hydrogen molecule through nonadiabatic perturbation theory. Physical Review A, 2019, 100, .	2.5	51
16	Quantum-electrodynamic corrections to the 1s3d states of the helium atom. Physical Review A, 2019, 99, .	2.5	11
17	Nuclear Charge Radii of ^9Be and ^{10}B . Physical Review Letters, 2019, 122, 182501.	7.8	24
18	Refractive index and generalized polarizability. Physical Review A, 2019, 99, .	2.5	5

#	ARTICLE	IF	CITATIONS
19	Nonadiabatic QED Correction to the Dissociation Energy of the Hydrogen Molecule. Physical Review Letters, 2019, 122, 103003.	7.8	59
20	Precision tests of nonadiabatic perturbation theory with measurements on the DT molecule. Physical Review Research, 2019, 1, .	3.6	10
21	Nuclear Spin-Spin Coupling in HD, HT, and DT. Physical Review Letters, 2018, 120, 083001.	7.8	11
22	Nonadiabatic relativistic correction in H^2 , D^2 , and HD. Physical Review A, 2018, 98, .	2.5	43
23	Accurate deuterium spectroscopy for fundamental studies. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 41-51.	2.3	54
24	Nonadiabatic Relativistic Correction to the Dissociation Energy of H^2 , D^2 , and HD. Physical Review A, 2018, 98, .	2.5	43
25	One-loop binding corrections to the electron g factor. Physical Review A, 2017, 96, .	2.5	11
26	Relativistic corrections for the ground electronic state of molecular hydrogen. Physical Review A, 2017, 95, .	2.5	50
27	Electron-correlation effects in the g factor of light Li-like ions. Physical Review A, 2017, 95, .	2.5	24
28	Complete relativistic corrections to the Ground State of H^2 . Physical Review Letters, 2016, 117, 263002.	7.8	57
29	Theoretical determination of the polarizability dispersion and the refractive index of helium. Physical Review A, 2016, 93, .	2.5	62
30	Quantum electrodynamics corrections to the fine structure splitting in Li and Li^2 . Physical Review A, 2015, 92, .	2.5	21
31	Deuteron and triton magnetic moments from NMR spectra of the hydrogen molecule. Physical Review A, 2015, 92, .	2.5	16
32	Explicitly correlated wave function for a boron atom. Physical Review A, 2015, 92, .	2.5	27
33	Precision Test of Many-Body QED in the Be^+ Fine Structure Doublet Using Short-Lived Isotopes. Physical Review Letters, 2015, 115, 033002.	7.8	17
34	Frequency-Dependent Polarizability of Helium Including Relativistic Effects with Nuclear Recoil Terms. Physical Review Letters, 2015, 114, 173004.	7.8	34
35	Isotope shift in a beryllium atom. Physical Review A, 2014, 89, .	2.5	27
36	Electromagnetic moments of the bound system of charged particles. Physical Review A, 2014, 90, .	2.5	8

#	ARTICLE	IF	CITATIONS
37	Quantum Electrodynamics Corrections to the 2P Fine Splitting in Li. Physical Review Letters, 2014, 113, 073004.	7.8	24
38	Ultracold mixtures of metastable He and Rb: Scattering lengths from <i>ab initio</i> calculations and thermalization measurements. Physical Review A, 2014, 90, .	2.5	14
39	Ground-state hyperfine splitting in the Be ion. Physical Review A, 2014, 89, .	2.5	11
40	Extended Gaussian quadratures for functions with an end-point singularity of logarithmic type. Computer Physics Communications, 2014, 185, 2913-2919.	7.5	12
41	Ground State Hyperfine Splitting in ${}^6\text{Li}$ and the Nuclear Structure. Physical Review Letters, 2013, 111, 243001.	7.8	27
42	Testing quantum electrodynamics in the lowest singlet states of the beryllium atom. Physical Review A, 2013, 87, .	2.5	45
43	Quantum defects at the critical charge. Journal of Chemical Physics, 2013, 138, 224305.	3.0	10
44	D1 and D2 lines in ${}^6\text{Li}$ and ${}^7\text{Li}$ including QED effects. Physical Review A, 2013, 87, .	2.5	20
45	Binding energies of the lithium isoelectronic sequence approaching the critical charge. Physical Review A, 2012, 86, .	2.5	13
46	Quantum electrodynamic corrections to the g-factor of helium P states. Physical Review A, 2012, 86, .	2.5	1
47	Parallel application benchmarks and performance evaluation of the Intel Xeon 7500 family processors. Procedia Computer Science, 2011, 4, 372-381.	2.0	12
48	Thermal correction to the molar polarizability of a Boltzmann gas. Physical Review A, 2011, 84, .	2.5	14
49	Lithium electric dipole polarizability. Physical Review A, 2011, 84, .	2.5	16
50	Blackbody-radiation correction to the polarizability of helium. Physical Review A, 2011, 83, .	2.5	16
51	Isotope-shift measurements of stable and short-lived lithium isotopes for nuclear-charge-radius determination. Physical Review A, 2011, 83, .	2.5	58
52	Accurate determination of Be magnetic moment. Optics Communications, 2010, 283, 641-643.	2.1	7
53	Nuclear structure effects in the isotope shift with halo nuclei. Hyperfine Interactions, 2010, 196, 35-42.	0.5	15
54	Applications of four-body exponentially correlated functions. Physical Review A, 2010, 81, .	2.5	14

#	ARTICLE	IF	CITATIONS
55	Ionization potential for excited S states of the lithium atom. Physical Review A, 2010, 82, .	2.5	41
56	Nuclear structure effects in the isotope shift with halo nuclei. , 2010, , 35-42.		0
57	Ground state of Li and explicitly correlated functions. Physical Review A, 2009, 80, .		4
58	Fine and hyperfine splitting of the P state in Li and Be . Physical Review A, 2009, 79, .	2.5	39
59	Relativistic, QED, and nuclear mass effects in the magnetic shielding of H3e. Journal of Chemical Physics, 2009, 130, 244102.	3.0	67
60	Relativistic, QED, and finite nuclear mass corrections for low-lying states of Li and Be . Physical Review A, 2008, 78, .	2.5	102
61	Dipole Excitation of the Positronium Molecule Ps_2 . Physical Review Letters, 2008, 101, 183001.	7.8	25
62	Singular Hylleraas three-electron integrals. Physical Review A, 2008, 77, .	2.5	7
63	Positronium-Ion Decay. Physical Review Letters, 2007, 99, 203401.	7.8	29
64	EFFECT OF NUCLEAR POLARIZABILITY IN LI11. , 2007, , .		0
65	Ground-state wave function and energy of the lithium atom. Physical Review A, 2006, 73, .	2.5	97
66	Isotope Shift of the $3s \rightarrow 2s$ Transition in Lithium and the Nuclear Polarizability. Physical Review Letters, 2006, 97, 133001.	7.8	79
67	Extended Hylleraas three-electron integral. Physical Review A, 2005, 71, .	2.5	20
68	Recursion relations for the generic Hylleraas three-electron integral. Physical Review A, 2004, 70, .	2.5	39