

Andrzej Adamczak

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	ATLAS OF CROSS SECTIONS FOR SCATTERING OF MUONIC HYDROGEN ATOMS ON HYDROGEN ISOTOPE MOLECULES. Atomic Data and Nuclear Data Tables, 1996, 62, 255-344.	2.4	67
2	Steps towards the hyperfine splitting measurement of the muonic hydrogen ground state: pulsed muon beam and detection system characterization. Journal of Instrumentation, 2016, 11, P05007-P05007.	1.2	31
3	Muon transfer rates in hydrogen isotope mesic atom collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 319-324.	4.1	30
4	Resonant Formation of $\mu\text{d}^{1/4}\text{t}$ Molecules in Deuterium: An Atomic Beam Measurement of Muon Catalyzed Fusion. Physical Review Letters, 2000, 85, 1642-1645.	7.8	30
5	Hyperfine spectroscopy of muonic hydrogen and the PSI Lamb shift experiment. Nuclear Instruments & Methods in Physics Research B, 2012, 281, 72-76.	1.4	26
6	Thermalization of muonic hydrogen in hydrogen targets. Hyperfine Interactions, 1996, 101-102, 113-124.	0.5	21
7	Deceleration of muonic hydrogen atoms in solid hydrogens. , 1999, 119, 23-33.		21
8	Ramsauer-Townsend effect in muonic atom scattering. Physical Review A, 2006, 73, .	2.5	21
9	On the Use of a H_2O_2 Gas Target in Muonic Hydrogen Atom Hyperfine Splitting Experiments. Hyperfine Interactions, 2001, 136, 1-7.	0.5	20
10	The next generation of laser spectroscopy experiments using light muonic atoms. Journal of Physics: Conference Series, 2018, 1138, 012010.	0.4	19
11	Differential cross sections for muonic atom scattering from hydrogenic molecules. Physical Review A, 2006, 74, .	2.5	18
12	Differential cross sections for muonic hydrogen scattering on hydrogen molecules. Hyperfine Interactions, 1993, 82, 91-98.	0.5	17
13	Electron screening in low energy scattering of muonic hydrogen on hydrogen atoms. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1986, 4, 153-160.	1.0	15
14	Measurement of the Resonant $\mu\text{d}^{1/4}\text{t}$ Molecular Formation Rate in Solid HD. Physical Review Letters, 2001, 86, 3763-3766.	7.8	15
15	Resonant $\mu\text{d}^{1/4}\text{t}$ formation in condensed deuterium. Physical Review A, 2001, 64, .	2.5	15
16	Theoretical and computational study of the energy dependence of the muon transfer rate from hydrogen to higher-Z gases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 151-156.	2.1	15
17	Low energy scattering of muonic hydrogen on hydrogen molecules. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 118, 181-184.	2.1	14
18	Toward the measurement of the hyperfine splitting in the ground state of muonic hydrogen. Hyperfine Interactions, 2015, 233, 97-101.	0.5	12

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19	Scattering of μ^+ muonic atoms in solid hydrogen. <i>Physical Review A</i> , 2003, 68, .	2.5	11
20	Advantages and Limitations of Solid Layer Experiments in Muon Catalyzed Fusion. <i>Hyperfine Interactions</i> , 2001, 138, 203-211.	0.5	10
21	Diffusion radius of muonic hydrogen atoms in H-D gas. <i>European Physical Journal D</i> , 2007, 41, 493-497.	1.3	9
22	The FAMU experiment at RIKEN-RAL to study the muon transfer rate from hydrogen to other gases. <i>Journal of Instrumentation</i> , 2018, 13, P12033-P12033.	1.2	9
23	Back decay of muonic molecular resonances and the measured value of $d\mu^+$ -formation rate in muon-catalyzed fusion in deuterium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985, 109, 224-227.	2.1	8
24	Ramsauer-Townsend Effect in Solid Hydrogen. <i>Hyperfine Interactions</i> , 2001, 138, 41-46.	0.5	7
25	Measuring the size of the proton. <i>SPIE Newsroom</i> , 0, , .	0.1	7
26	Precision measurement of μ^+ capture in a hydrogen TPC. <i>Nuclear Physics A</i> , 2000, 663-664, 911c-914c.	1.5	6
27	Shift and broadening of resonance lines of antiprotonic helium atoms in liquid ^4He . <i>Physical Review A</i> , 2013, 88, .	2.5	5
28	First FAMU observation of muon transfer from μ^+ atoms to higher-Z elements. <i>Journal of Instrumentation</i> , 2018, 13, P02019-P02019.	1.2	5
29	Differential cross sections for muonic atom scattering in solid hydrogenic targets. <i>Physical Review A</i> , 2007, 76, .	2.5	4
30	Monte Carlo simulations of the μ^+ CF processes kinetics in deuterium gas. <i>European Physical Journal D</i> , 2009, 51, 341-345.	1.3	4
31	Shift and broadening of resonance lines of antiprotonic helium atoms in solid helium. <i>Physical Review A</i> , 2014, 90, .	2.5	4
32	Nuclear structure with radioactive muonic atoms. <i>EPJ Web of Conferences</i> , 2018, 193, 04014.	0.3	4
33	Resonant $d\mu^+$ formation in condensed hydrogen isotopes. <i>Physical Review A</i> , 2005, 72, .	2.5	3
34	Influence of epithermal muonic molecule formation on kinetics of the μ^+ CF processes in deuterium. <i>Hyperfine Interactions</i> , 2012, 209, 63-68.	0.5	3
35	Generation of the Ultracold Muonic Hydrogen Flux. <i>Hyperfine Interactions</i> , 2001, 138, 47-53.	0.5	2
36	Muonic Molecule Formation in Condensed Deuterium. <i>Hyperfine Interactions</i> , 2001, 138, 343-350.	0.5	2

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37	FAMU: study of the energy dependent transfer rate $\hat{\Gamma} \hat{\Gamma}^{\prime} \hat{\Gamma}^{\prime} \hat{\Gamma}$. Journal of Physics: Conference Series, 2018, 1138, 012017.	0.4	2
38	Calculation of cross sections for muonic atom scattering from hydrogenic molecules using the Morse potential. Physical Review A, 2008, 78, .	2.5	1
39	Cold neutron scattering in imperfect deuterium crystals. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2520-2526.	1.4	1
40	Low-energy negative muon interaction with matter. Journal of Instrumentation, 2016, 11, P03019-P03019.	1.2	1
41	Spin-flip cross sections in muonic hydrogen scattering on hydrogen molecules. Hyperfine Interactions, 1995, 96, 277-287.	0.5	0
42	Resonant Scattering of Muonic Hydrogen Atoms and Dynamics of the Muonic Molecular Complex. Hyperfine Interactions, 2001, 138, 245-248.	0.5	0
43	Differential cross sections for and scattering using the Morse potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2730-2735.	2.1	0
44	Muonic-atom scattering from hydrogenic liquids in an incoherent approach. European Physical Journal D, 2018, 72, 1.	1.3	0
45	The influence of spectator nuclear motion on the nonresonant formation of muonic hydrogen molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 105206.	1.5	0