

Peter Kammel

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of proton, deuteron, triton, and μ^{\pm} particle emission after nuclear muon capture on Al, Si, and Ti with the AICap experiment. Physical Review C, 2022, 105, .	2.9	4
2	Beam dynamics corrections to the Run-1 measurement of the muon anomalous magnetic moment at Fermilab. Physical Review Accelerators and Beams, 2021, 24, .	1.6	32
3	Magnetic-field measurement and analysis for the Muon $g-2$ Experiment at Fermilab. Physical Review A, 2021, 103, .	2.5	52
4	Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46Åppm . Physical Review Letters, 2021, 126, 141801.	7.8	991
5	Measurement of the anomalous precession frequency of the muon in the Fermilab Muon $g-2$ Experiment. Physical Review D, 2021, 103, .	4.7	105
6	MuSun - Muon Capture on the Deuteron. SciPost Physics Proceedings, 2021, , .	0.4	4
7	Nucleon axial radius and muonic hydrogen "a new analysis and review. Reports on Progress in Physics, 2018, 81, 096301.	20.1	50
8	Measurement of trace impurities in ultra pure hydrogen and deuterium at the parts-per-billion level using gas chromatography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 880, 181-187.	1.6	5
9	Design and performance of SiPM-based readout of PbF_2 crystals for high-rate, precision timing applications. Journal of Instrumentation, 2017, 12, P01009-P01009.	1.2	22
10	The calorimeter system of the new muon $g-2$ experiment at Fermilab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 718-720.	1.6	2
11	Measurement of the formation rate of muonic hydrogen molecules. Physical Review C, 2015, 91, .	2.9	19
12	Cryogenic distillation facility for isotopic purification of protium and deuterium. Review of Scientific Instruments, 2015, 86, 125102.	1.3	16
13	Studies of an array of PbF_2 Cherenkov crystals with large-area SiPM readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 783, 12-21.	1.6	36
14	Design and operation of a cryogenic charge-integrating preamplifier for the MuSun experiment. Journal of Instrumentation, 2014, 9, P07029-P07029.	1.2	1
15	A high-pressure hydrogen time projection chamber for the MuCap experiment. European Physical Journal A, 2014, 50, 1.	2.5	4
16	Detailed report of the MuLan measurement of the positive muon lifetime and determination of the Fermi constant. Physical Review D, 2013, 87, .	4.7	58
17	Measurement of Muon Capture on the Proton to 1% Precision and Determination of the Pseudoscalar Coupling g_P . Physical Review Letters, 2013, 110, 012504.	7.8	51
18	High precision study of muon catalyzed fusion in D2 and HD gas. Physics of Particles and Nuclei, 2011, 42, 185-214.	0.7	51

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19	The G0 experiment: Apparatus for parity-violating electron scattering measurements at forward and backward angles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 646, 59-86.	1.6	17
20	Publisher's Note: Measurement of the Positive Muon Lifetime and Determination of the Fermi Constant to Part-per-Million Precision [Phys. Rev. Lett. 106 (2011)]. Physical Review Letters, 2011, 106, .	7.8	11
21	Measurement of the Positive Muon Lifetime and Determination of the Fermi Constant to Part-per-Million Precision. Physical Review Letters, 2011, 106, 041803.	7.8	83
22	Muon capture in hydrogen. Nuclear Physics A, 2010, 844, 181c-184c.	1.5	2
23	Precision Muon Capture. Annual Review of Nuclear and Particle Science, 2010, 60, 327-353.	10.2	28
24	Muon capture in hydrogen: First MuCap results and future plans. Few-Body Systems, 2008, 44, 333-336.	1.5	1
25	Improved Measurement of the Positive-Muon Lifetime and Determination of the Fermi Constant. Physical Review Letters, 2007, 99, 032001.	7.8	45
26	Measurement of the Muon Capture Rate in Hydrogen Gas and Determination of the Proton's Pseudoscalar Coupling $\langle m g m \rangle \langle m P m \rangle$ Physical Review Letters, 2007, 99, 032002.	7.8	69
27	Transverse Beam Spin Asymmetries in Forward-Angle Elastic Electron-Proton Scattering. Physical Review Letters, 2007, 99, 092301.	7.8	31
28	A circulating hydrogen ultra-high purification system for the MuCap experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 485-497. 	1.6	22
29	$\langle m g m \rangle \langle m P m \rangle$ Physical Review Letters, 2007, 99, 032002.	4.1	15
30	Muon Capture As A Probe Of The Nucleon's Axial Structure - The $\frac{1}{4}$ Cap Experiment. AIP Conference Proceedings, 2006, , .	0.4	0
31	Ramsauer-Townsend effect in muonic atom scattering. Physical Review A, 2006, 73, .	2.5	21
32	Strange-Quark Contributions to Parity-Violating Asymmetries in the Forward G0 Electron-Proton Scattering Experiment. Physical Review Letters, 2005, 95, 092001.	7.8	248
33	Production and decay of $\eta'(958)$ and $\eta(1440)$ in $\bar{p}p$ annihilation at rest. European Physical Journal C, 2004, 33, 23-30.	3.9	12
34	Study of antiproton annihilation on neutrons into $\bar{p}n \rightarrow \bar{p}n \rightarrow \bar{p}n$. Nuclear Physics A, 2004, 740, 130-146.	1.5	6
35	Annihilation at rest of antiprotons and protons into neutral particles. Nuclear Physics A, 2003, 720, 357-367.	1.5	17
36	Muon transfer from deuterium to helium. Physical Review A, 2003, 68, .	2.5	4

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37	Scattering of μ^+ muonic atoms in solid hydrogen. Physical Review A, 2003, 68, .	2.5	11
38	Comment on "Protonium annihilation into π^0 at rest in a liquid hydrogen target". Physical Review D, 2002, 66, .	4.7	6
39	Study of high-pressure hydrogen-operated wire chambers designed for a precision measurement of the singlet μ^+p capture rate. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 478, 158-162.	1.6	6
40	A high resolution search for the tensor glueball candidate $\chi(2230)$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 520, 175-182.	4.1	18
41	Branching ratios for p annihilation at rest into two-body final states. Nuclear Physics A, 2001, 679, 563-576.	1.5	10
42	Development of a New Experimental Method for Studies of Muon Capture in Hydrogen. Hyperfine Interactions, 2001, 138, 451-457.	0.5	2
43	μ^+CF Experiments in D2 and HD Gases " Final Results. Hyperfine Interactions, 2001, 138, 331-341.	0.5	10
44	Generation of the Ultracold Muonic Hydrogen Flux. Hyperfine Interactions, 2001, 138, 47-53.	0.5	2
45	Advantages and Limitations of Solid Layer Experiments in Muon Catalyzed Fusion. Hyperfine Interactions, 2001, 138, 203-211.	0.5	10
46	Precise Measurement of Muon Capture on the Proton. Hyperfine Interactions, 2001, 138, 435-443.	0.5	4
47	Ramsauer-Townsend Effect in Solid Hydrogen. Hyperfine Interactions, 2001, 138, 41-46.	0.5	7
48	Resonant Scattering of Muonic Hydrogen Atoms and Dynamics of the Muonic Molecular Complex. Hyperfine Interactions, 2001, 138, 245-248.	0.5	0
49	Measurement of the Resonant μ^+t Molecular Formation Rate in Solid HD. Physical Review Letters, 2001, 86, 3763-3766.	7.8	15
50	Time-of-Flight Spectroscopy of Muonic Hydrogen Atoms and Molecules. , 2001, , 435-445.		0
51	Precision measurement of μ^+p capture in a hydrogen TPC. Nuclear Physics A, 2000, 663-664, 911c-914c.	1.5	6
52	Resonant Formation of μ^+t Molecules in Deuterium: An Atomic Beam Measurement of Muon Catalyzed Fusion. Physical Review Letters, 2000, 85, 1642-1645.	7.8	30
53	New analysis of the radiative decay $\pi^0 \rightarrow \mu^+ \mu^-$ in proton-antiproton annihilation at rest. Physical Review D, 2000, 61, .	4.7	3
54	Ground-state muon transfer from deuterium to ^3He and ^4He . Physical Review A, 2000, 62, .	2.5	11

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55	Cascade in muonic deuterium atoms. <i>Physical Review A</i> , 1999, 60, 209-217.	2.5	8
56	Evidence for a $\bar{\Lambda}^0$ -P-wave in \bar{p} -annihilations at rest into $\bar{\Lambda}^0\pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 446, 349-355.	4.1	86
57	Observation of Pontecorvo reactions with open strangeness: $\bar{p}^+\pi^0K^0$ and $\bar{p}^+\pi^0K^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 469, 276-286.	4.1	6
58	The $\bar{\Lambda}^0$ -mass, width and line shape in annihilation at rest into $\bar{\Lambda}^0\pi^0\pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 469, 270-275.	4.1	12
59	Experimental investigation of muon-catalyzed dt fusion at cryogenic temperatures. <i>Nuclear Physics A</i> , 1999, 652, 311-338.	1.5	24
60	Antiproton-proton annihilation at rest into $K^+K^-\pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 468, 178-188.	4.1	19
61	New effects in low energy scattering of $p\bar{\Lambda}^0$ atoms. , 1999, 119, 63-69.		6
62	Time-of-flight studies of emission of $\bar{\Lambda}^0$ from frozen hydrogen films. , 1999, 118, 159-161.		5
63	Muon transfer from ground state deuterium to helium nuclei and its temperature dependence. , 1999, 119, 103-108.		3
64	Final results on the $\bar{\Lambda}^0$ ³ He-capture experiment and perspectives for $\bar{\Lambda}^0$ p-capture studies. , 1999, 118, 13-24.		11
65	Insights on d $\bar{\Lambda}^0$ t sticking from d $\bar{\Lambda}^0$ d stripping and $\bar{\Lambda}^0$ ³ He capture. , 1999, 118, 197-202.		3
66	Resonant formation measurements of (dtmu) via time of flight. , 1999, 118, 89-101.		13
67	Muon catalyzed fusion in deuterium gas. , 1999, 118, 127-133.		23
68	Scattering of muonic hydrogen atoms. , 1999, 119, 35-44.		9
69	Time-of-flight spectroscopy of muonic tritium. , 1999, 118, 151-157.		3
70	Study of $\bar{\Lambda}^0$ -catalyzed fusion in H-D mixtures. , 1999, 118, 163-170.		7
71	High intensity muon/pion beam with time structure at PSI. , 1999, 119, 323-328.		4
72	Title is missing!. , 1999, 118, 79-88.		12

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73	First observation of spin flip in $d^{1/4}$ -atoms via formation and back decay of $dd^{1/4}$ molecules. , 1999, 118, 135-140.		10
74	Decay dynamics of the process $\hat{1}\hat{a}^{\dagger}3\hat{1}\hat{e}0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 417, 193-196.	4.1	29
75	A precision measurement of nuclear muon capture on ^3He . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 417, 224-232.	4.1	67
76	Exotic $\hat{1}\hat{1}\hat{e}$ state in annihilation at rest into $\hat{1}\hat{e}\hat{a}^{\dagger}\hat{1}\hat{e}0\hat{1}$ pspectator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 423, 175-184.	4.1	149
77	The crystal barrel Si-vertex detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 412, 70-79.	1.6	8
78	Study of $\hat{1}\hat{e}$ at rest. Nuclear Physics B, 1998, 514, 45-59.	2.5	10
79	X-Ray Emission during the Muonic Cascade in Hydrogen. Physical Review Letters, 1998, 80, 3041-3044.	7.8	34
80	Diffusion of muonic deuterium and hydrogen atoms. Physical Review A, 1997, 55, 214-229.	2.5	37
81	Muon catalyzed fusion in 3-K solid deuterium. Physical Review A, 1997, 56, 1970-1982.	2.5	25
82	Emission of muonic tritium into vacuum: An atomic beam for muon experiments. , 1997, 106, 257-264.		5
83	High-mass $\hat{1}\hat{1}\hat{e}$ -meson states from $p\hat{1},d$ -annihilation at rest into $\hat{1}\hat{e}\hat{a}^{\dagger}\hat{1}\hat{e}0\hat{1}$ pspectator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 391, 191-196.	4.1	27
84	Study of the $\hat{1}\hat{e}0\hat{1}\hat{e}0\hat{1}\hat{a}^{\dagger}\hat{1}\hat{e}^2$ final state in $p\hat{1},p$ annihilation at rest. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 404, 179-186.	4.1	17
85	Measurement of the $\hat{1}\hat{e}0\hat{1}\hat{a}^{\dagger}\hat{1}\hat{e}^3$ decay branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 411, 361-372.	4.1	11
86	$\hat{1}\hat{1}\hat{e}$ - $\hat{1}\hat{1}\hat{e}$ interference in pp -annihilation at rest into $\hat{1}\hat{e}+\hat{1}\hat{e}\hat{a}^{\dagger}\hat{1}\hat{e}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 411, 354-360.	4.1	15
87	Antiproton-proton annihilation at rest into $K\hat{1}L\hat{1}K\hat{1}\hat{a}^{\dagger}\hat{1}\hat{e}0$ - manifestations of isospin interference. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 415, 289-298.	4.1	5
88	Antiproton-proton annihilation at rest into $K\hat{1}L\hat{1}K\hat{1}\hat{1}\hat{e}0\hat{1}\hat{e}0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 415, 280-288.	4.1	28
89	Excited State Muon Transfer in Hydrogen/Deuterium Mixtures. Physical Review Letters, 1996, 76, 4693-4696.	7.8	25
90	New precision measurements of $d\hat{1}\hat{a}^{\dagger}\hat{1}\hat{e}$ fusion. Hyperfine Interactions, 1996, 101-102, 1-11.	0.5	15

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91	Muon-catalyzed fusion in deuterium at 3 K. <i>Hyperfine Interactions</i> , 1996, 101-102, 21-28.	0.5	21
92	Time-of-flight measurement of resonant molecular formation in muon-catalyzed dt fusion. <i>Hyperfine Interactions</i> , 1996, 101-102, 47-55.	0.5	19
93	Experimental results on muon-catalyzed dt fusion. <i>Hyperfine Interactions</i> , 1996, 101-102, 67-80.	0.5	4
94	Muon transfer from protium to helium. <i>Hyperfine Interactions</i> , 1996, 101-102, 221-227.	0.5	9
95	Measurement of muon transfer rate $\hat{\lambda}_{pt}$ and molecular formation rate $\hat{\lambda}_{pp\hat{\mu}}$, in solid hydrogen targets, in solid hydrogen targets. <i>Hyperfine Interactions</i> , 1996, 101-102, 229-237.	0.5	4
96	Muon molecular formation and transfer rate in solid hydrogen-deuterium mixtures. <i>Hyperfine Interactions</i> , 1996, 101-102, 239-248.	0.5	15
97	Experimental investigation of the muon transfer reaction from deuterium to helium isotopes. <i>Hyperfine Interactions</i> , 1996, 101-102, 249-255.	0.5	15
98	Experimental observation of excited state muon transfer in mixtures of hydrogen isotopes. <i>Hyperfine Interactions</i> , 1996, 101-102, 285-291.	0.5	17
99	Measurement of the heavy neutrino admixture upper limit from muon capture by ^3He . <i>Hyperfine Interactions</i> , 1996, 101-102, 445-449.	0.5	0
100	A new project for the investigation of unsolved problems of $dd\hat{\mu}$ and $pd\hat{\mu}$ catalysis in D2 and H/D mixtures. <i>Hyperfine Interactions</i> , 1996, 101-102, 547-562.	0.5	2
101	Investigation of muonic hydrogen isotopes scattering from H2 molecule. <i>Hyperfine Interactions</i> , 1996, 101-102, 563-571.	0.5	6
102	Measuring sticking and stripping in muon-catalyzed dt fusion with multilayer thin films. <i>Hyperfine Interactions</i> , 1996, 101-102, 613-621.	0.5	10
103	Characterization of solid hydrogen targets. <i>Hyperfine Interactions</i> , 1996, 101-102, 641-646.	0.5	8
104	A study of $f_0(1500)$ decays into $4\pi^0$ in at rest. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 380, 453-460.	4.1	44
105	Observation of $f_0(1500)$ decay into $KLKL$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 385, 425-432.	4.1	46
106	Further analysis of $\hat{\pi}^+\hat{\pi}^0$ and $\hat{\pi}^0\hat{\pi}^0$ at rest. <i>Nuclear Physics A</i> , 1996, 609, 562-584.	1.5	37
107	Measurement of muon transfer from proton to triton and $pp\hat{\mu}^{1/4}$ molecular formation in solid hydrogen. <i>Physical Review A</i> , 1996, 53, 3069-3080.	2.5	38
108	Programmable active memories in real-time tasks: implementing data-driven triggers for LHC experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 356, 457-467.	1.6	6

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109	Epithermal effects in muon-catalyzed dt fusion: Comparison of experimental data with theoretical calculations. Physical Review A, 1995, 51, 2881-2898.	2.5	25
110	Survey of experimental results on μ -CF including hyperfine effects. Hyperfine Interactions, 1993, 82, 243-258.	0.5	8
111	The PSI experiments on muon-catalyzed pt fusion. Hyperfine Interactions, 1993, 82, 259-269.	0.5	14
112	Experimental survey of the sticking problem in muon catalyzed dt fusion. Hyperfine Interactions, 1993, 82, 273-293.	0.5	30
113	Systematic analysis of the PSI experiment to directly measure the sticking probability s in dt fusion. Hyperfine Interactions, 1993, 82, 295-302.	0.5	15
114	Final dt sticking s using the μ -survived moun method?. Hyperfine Interactions, 1993, 82, 313-325.	0.5	9
115	The kinetics of muon-catalyzed dt fusion. Hyperfine Interactions, 1993, 82, 357-372.	0.5	20
116	Epithermal effects in muon-catalyzed dt fusion: comparison of experimental data with theoretical predictions. Hyperfine Interactions, 1993, 82, 391-406.	0.5	6
117	Feasibility of an experiment to determine the branching ratio for the emission of a heavy neutrino after muon capture in ^3He . Hyperfine Interactions, 1993, 82, 471-481.	0.5	1
118	Muon transfer from hot muonic hydrogen atoms to neon. Hyperfine Interactions, 1993, 82, 501-506.	0.5	5
119	Producing μ -d and μ -t in vacuum. Hyperfine Interactions, 1993, 82, 521-527.	0.5	15
120	Experiments with energetic μ -d and μ -t emitted from solid hydrogen. Hyperfine Interactions, 1993, 82, 529-538.	0.5	29
121	Muon-catalyzed dt fusion between 25 and 150 K: Theoretical analysis. Physical Review A, 1993, 47, 4691-4704.	2.5	46
122	Muon-catalyzed pt fusion. Physical Review Letters, 1993, 70, 3720-3723.	7.8	13
123	Hot Muonic Deuterium and Tritium from Cold Targets. , 1993, , 251-260.		0
124	Reactions of muonic hydrogen isotopes. Zeitschrift für Physik C-Particles and Fields, 1992, 56, S44-S47.	1.5	4
125	Reactions of muonic hydrogen isotopes. , 1992, , 44-47.		0
126	Search for bound states of negative pions and neutrons in relativistic heavy-ion reactions. Physical Review D, 1991, 43, 3063-3066.	4.7	6

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127	Pion correlations in relativistic heavy ion collisions for three symmetric systems. Physical Review C, 1991, 43, 2670-2688.	2.9	31
128	Muon-catalyzed fusion between 25 and 150 K: Experiment. Physical Review A, 1990, 42, 1165-1177.	2.5	62
129	Diffusion of muonic deuterium in D ₂ gas. Physical Review Letters, 1989, 63, 1942-1945.	7.8	43
130	Muon-Catalyzed Fusion. Annual Review of Nuclear and Particle Science, 1989, 39, 311-356.	10.2	244
131	Experimental investigation of muon-induced fusion in liquid deuterium. Nuclear Physics A, 1989, 493, 397-411.	1.5	36
132	Determination of Muonic Helium X-Ray Yields after Muon-Catalyzed p-d, d-d, and d-t Fusion. Physical Review Letters, 1987, 59, 2864-2867.	7.8	46
133	Muon-catalyzed D-T fusion at low temperature. Physical Review Letters, 1987, 58, 329-332.	7.8	109
134	Thermalization effects in muon-catalyzed fusion in low-density deuterium-tritium gas. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1985, 43, 349-354.	0.4	40
135	Measurement of X-Ray and ³ -Ray Intensities Following the Fusion of d ^{1/2} and p ^{1/2} d. Physical Review Letters, 1985, 55, 1870-1873.	7.8	27
136	New Experimental Results on Muon Catalyzed Fusion in Low Density Deuterium-Tritium Gas. , 1985, , 449-457.		0
137	Experimental Study of Muon-Catalyzed Fusion in Low-Density Deuterium-Tritium Gas. Physical Review Letters, 1984, 53, 1137-1140.	7.8	68
138	First observation of muonic hyperfine effects in pure deuterium. Physical Review A, 1983, 28, 2611-2622.	2.5	56
139	First observation of hyperfine transitions in muonic deuterium atoms via resonant d ^{1/2} formation at 34 K. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 112, 319-322.	4.1	43