

# Peter Kammel

## List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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citations

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32  
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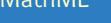
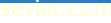
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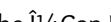
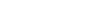
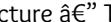
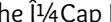
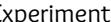
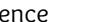
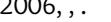
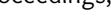
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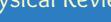
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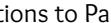
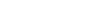
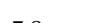
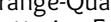
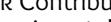
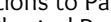
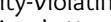
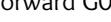
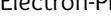
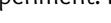
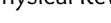
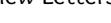
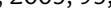
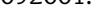
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#	ARTICLE	IF	CITATIONS
1	Measurement of proton, deuteron, triton, and $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{\pm} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ particle emission after nuclear muon capture on Al, Si, and Ti with the AlCap 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 $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle g \langle / \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{a}^2 \langle / \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 25 \langle / \text{mml:mn} \rangle \langle / \text{mml:math} \rangle$ Experiment at Fermilab. Physical Review A, 2021, 103, .	2.5	54
4	Measurement of the Positive Muon Anomalous Magnetic Moment to $0.46\hat{\pm}0.01$ . Physical Review Letters, 2021, 126, 141801.	7.8	991
5	Measurement of the anomalous precession frequency of the muon in the Fermilab Muon $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle g \langle / \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{a}^2 \langle / \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:math} \rangle$ 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 $\langle i \rangle \text{PbF} \langle /i \rangle \langle \text{sub} \rangle 2 \langle / \text{sub} \rangle$ 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 <sub>2</sub> 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 $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle g \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle P \langle / \text{mml:mi} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ . Physical Review Letters, 2013, 110, 012504.	7.8	51
18	High precision study of muon catalyzed fusion in D <sub>2</sub> and HD gas. Physics of Particles and Nuclei, 2011, 42, 185-214.	0.7	51

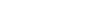
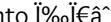
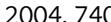
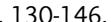
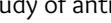
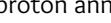
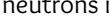
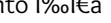
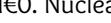
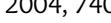
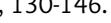
#	ARTICLE	IF	CITATIONS
19	The G0 experiment: Apparatus for parity-violating electron scattering measurements at forward and backward angles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 646, 59-86.	1.6	17
20	Publisherâ€™s Note: Measurement of the Positive Muon Lifetime and Determination of the Fermi Constant to Part-per-Million Precision [Phys. Rev. Lett. <b>106</b> , 041803 (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 Protonâ€™s Pseudoscalar Coupling $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle mml:msub \langle mml:mi \rangle g \langle /mml:mi \rangle \times \langle mml:mi \rangle P \langle /mml:mi \rangle \langle /mml:msub \rangle \langle /mml:math \rangle$ . 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
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37	Scattering of $\mu^+$ muonic atoms in solid hydrogen. Physical Review A, 2003, 68, .	2.5	11
38	Comment on "Protonium annihilation into $\pi^0$ 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 $\mu^+ p$ 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 $\frac{3}{4}(2230)$ . 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	$\mu^+ p$ 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 $\mu^+ p$ 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 $\mu^+ p$ capture in a hydrogen TPC. Nuclear Physics A, 2000, 663-664, 911c-914c.	1.5	6
52	Resonant Formation of $\mu^+ d$ 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 $\mu^+ \rightarrow e^+ \gamma$ in proton-antiproton annihilation at rest. Physical Review D, 2000, 61, .	4.7	3
54	Ground-state muon transfer from deuterium to $^3\text{He}$ and $^4\text{He}$ . Physical Review A, 2000, 62, .	2.5	11

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55	Cascade in muonic deuterium atoms. Physical Review A, 1999, 60, 209-217.	2.5	8
56	Evidence for a $\bar{K}^0$ -P-wave in -annihilations at rest into $\bar{K}^0\bar{K}^0$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 446, 349-355.	4.1	86
57	Observation of Pontecorvo reactions with open strangeness: $\bar{K}^0\bar{K}^0$ and $\bar{\Lambda}\bar{\Lambda}\bar{K}^0\bar{K}^0$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 276-286.	4.1	6
58	The mass, width and line shape in annihilation at rest into $\bar{K}^0\bar{K}^0$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 270-275.	4.1	12
59	Experimental investigation of muon-catalyzed dt fusion at cryogenic temperatures. Nuclear Physics A, 1999, 652, 311-338.	1.5	24
60	Antiproton-proton annihilation at rest into $K^+K^-$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 468, 178-188.	4.1	19
61	New effects in low energy scattering of $p\bar{\mu}$ atoms. , 1999, 119, 63-69.		6
62	Time-of-flight studies of emission of $t^{1/4}$ 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 $t^{1/4}$ -He-capture experiment and perspectives for $t^{1/4}$ p-capture studies. , 1999, 118, 13-24.		11
65	Insights on $d^{1/4} t$ sticking from $d^{1/4} d$ stripping and $t^{1/4}, 3He$ 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 $t^{1/4}$ -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 $d\bar{d}$ -atoms via formation and back decay of $dd\bar{d}$ molecules., 1999, 118, 135-140.	10	
74	Decay dynamics of the process $\bar{d}\bar{d} \rightarrow 3\pi^0$ . 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 $\bar{d}\bar{d}$ state in annihilation at rest into $\pi\pi\pi^0$ spectator. 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 $\bar{d}\bar{d}$ 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 $\bar{d}\bar{d}$ -meson states from $p\bar{p}$ , $d\bar{d}$ -annihilation at rest into $\pi\pi\pi^0$ spectator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 391, 191-196.	4.1	27
84	Study of the $\pi^+\pi^-\pi^0$ final state in $p\bar{p}$ 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 $\bar{d}\bar{d} \rightarrow \pi^+\pi^-$ decay branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 411, 361-372.	4.1	11
86	$\bar{d}\bar{d}$ - $\bar{p}\bar{p}$ interference in pp-annihilation at rest into $\pi^+\pi^-$ . 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 $K\bar{K}$ - 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 $KLK\bar{K}$ . 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 $d\bar{\mu}d$ 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 $\hat{\mu}_{pt}$ and molecular formation rate $\hat{\mu}_{pp\mu}$ , 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 $^3\text{He}$ . <i>Hyperfine Interactions</i> , 1996, 101-102, 445-449.	0.5	0
100	A new project for the investigation of unsolved problems of $\text{dd}\hat{\mu}$ and $\text{pd}\hat{\mu}$ 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
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