

# Michael Hahn

## List of Publications by Year in descending order

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64  
papers

932  
citations

430874

18  
h-index

477307

29  
g-index

65  
all docs

65  
docs citations

65  
times ranked

806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion energy distribution in an electron beam ion trap inferred from simulations of the trapped ion cloud. <i>Physical Review E</i> , 2022, 105, 015204.	2.1	1
2	Evidence for Parametric Decay Instability in the Lower Solar Atmosphere. <i>Astrophysical Journal</i> , 2022, 933, 52.	4.5	3
3	Physical Characteristics of Unstructured Coronal Clouds. <i>Astrophysical Journal</i> , 2021, 910, 113.	4.5	3
4	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). <i>Solar Physics</i> , 2021, 296, 1.	2.5	65
5	Effects of Density Fluctuations on Alfvén Wave Turbulence in a Coronal Hole. <i>Astrophysical Journal</i> , 2021, 911, 63.	4.5	10
6	Roadmap on cosmic EUV and x-ray spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 092001.	1.5	2
7	Tracing the origins of the solar wind with helium. <i>Nature Astronomy</i> , 2020, 4, 1128-1129.	10.1	0
8	Laboratory Calibrations of Fe xiii–xiv Line-intensity Ratios for Electron Density Diagnostics. <i>Astrophysical Journal</i> , 2020, 890, 77.	4.5	14
9	Measured Reduction in Alfvén Wave Energy Propagating through Longitudinal Gradients Scaled to Match Solar Coronal Holes. <i>Astrophysical Journal</i> , 2019, 882, 183.	4.5	5
10	Spectroscopic Measurements of the Ion Velocity Distribution at the Base of the Fast Solar Wind. <i>Astrophysical Journal Letters</i> , 2018, 855, L13.	8.3	8
11	Density Fluctuations in a Polar Coronal Hole. <i>Astrophysical Journal</i> , 2018, 860, 34.	4.5	15
12	Electron-impact Multiple-ionization Cross Sections for Atoms and Ions of Helium through Zinc. <i>Astrophysical Journal</i> , 2017, 850, 122.	4.5	20
13	Recombination of $W$ with electrons: Absolute rate coefficients from a storage-ring experiment and from theoretical calculations. <i>Physical Review A</i> , 2016, 93, 023407.	2.1	2
14	Storage ring cross section measurements for electron impact ionization of Fe <sup>8+</sup> . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 084006.	1.5	6
15	Absolute rate coefficients for photorecombination of beryllium-like and boron-like silicon ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 074004.	1.5	5
16	INFERRING THE CORONAL DENSITY IRREGULARITY FROM EUV SPECTRA. <i>Astrophysical Journal</i> , 2016, 829, 42.	4.5	3
17	A SIMPLE METHOD FOR MODELING COLLISION PROCESSES IN PLASMAS WITH A KAPPA ENERGY DISTRIBUTION. <i>Astrophysical Journal</i> , 2015, 809, 178.	4.5	30
18	Simultaneous measurement of photorecombination and electron-impact ionization of Fe <sup>14+</sup> ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052002.	0.4	0

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19	Electron-ion recombination of the open-4f-shell ion W19+. Journal of Physics: Conference Series, 2015, 635, 052003.	0.4	0
20	Influence of Multiple Ionization on Charge State Distributions. Journal of Physics: Conference Series, 2015, 635, 052010.	0.4	0
21	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe <sup>7+</sup> . Astrophysical Journal, 2015, 813, 16.	4.5	12
22	INFLUENCE OF ELECTRON-IMPACT MULTIPLE IONIZATION ON EQUILIBRIUM AND DYNAMIC CHARGE STATE DISTRIBUTIONS: A CASE STUDY USING IRON. Astrophysical Journal, 2015, 800, 68.	4.5	16
23	RELATIVE ABUNDANCE MEASUREMENTS IN PLUMES AND INTERPLUMES. Astrophysical Journal, 2015, 807, 145.	4.5	7
24	Dielectronic recombination of berylliumlike Si10+ions at the heavy-ion storage ring TSR. Journal of Physics: Conference Series, 2014, 488, 062012.	0.4	0
25	Electron impact ionization of stored highly charged ions. Journal of Physics: Conference Series, 2014, 488, 012050.	0.4	10
26	Storage-ring measurement of the hyperfine induced 2s2p <sup>3</sup> P <sub>0</sub> → 2s <sup>2</sup> <sup>1</sup> S <sub>0</sub> transition rate in berylliumlike sulfur. Journal of Physics: Conference Series, 2014, 488, 062016.	0.4	0
27	EVIDENCE FOR WAVE HEATING OF THE QUIET-SUN CORONA. Astrophysical Journal, 2014, 795, 111.	4.5	37
28	Recombination of W18+ions with electrons: Absolute rate coefficients from a storage-ring experiment and from theoretical calculations. Physical Review A, 2014, 90, .	2.5	40
29	Absolute rate coefficients for the recombination of open f-shell tungsten ions. Journal of Physics: Conference Series, 2014, 488, 012051.	0.4	10
30	Dielectronic recombination of boronlike Si <sup>9+</sup> ions at the heavy-ion storage ring TSR. Journal of Physics: Conference Series, 2014, 488, 062011.	0.4	0
31	Recombination of open-4f-shell W <sup>18+</sup> ions with free electrons. Journal of Physics: Conference Series, 2014, 488, 062015.	0.4	0
32	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe <sup>13+</sup> AND SINGLE IONIZATION OF Fe <sup>16+</sup> AND Fe <sup>17+</sup> . Astrophysical Journal, 2013, 767, 47.	4.5	18
33	Evidence for wave heating in the solar corona. Annals of the New York Academy of Sciences, 2013, 1293, 45-53.	3.8	1
34	OBSERVATIONAL QUANTIFICATION OF THE ENERGY DISSIPATED BY ALFVÉN WAVES IN A POLAR CORONAL HOLE: EVIDENCE THAT WAVES DRIVE THE FAST SOLAR WIND. Astrophysical Journal, 2013, 776, 78.	4.5	60
35	MEASUREMENTS OF ANISOTROPIC ION TEMPERATURES, NON-THERMAL VELOCITIES, AND DOPPLER SHIFTS IN A CORONAL HOLE. Astrophysical Journal, 2013, 763, 106.	4.5	14
36	Electron-impact-ionization measurements using hyperfine-assisted state preparation of ground-state berylliumlike sulfur. Physical Review A, 2012, 85, .	2.5	10

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37	Storage ring measurement of the hyperfine-induced $\sigma$ transition in $\text{Mg}^{11+}$ . <i>Astrophysical Journal</i> , 2010, 712, 1166-1171.	2.5	33
38	ELECTRON-ION RECOMBINATION OF Fe XII FORMING Fe XI: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. <i>Astrophysical Journal</i> , 2012, 753, 57.	4.5	19
39	Electron impact ionization measurements at the Heidelberg heavy ion storage ring TSR. <i>Journal of Physics: Conference Series</i> , 2012, 388, 062021.	0.4	0
40	ADDENDUM: $\sigma$ STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR $\text{Mg}^{7+}$ FORMING $\text{Mg}^{8+}$ (2010, ApJ, 712, 1166). <i>Astrophysical Journal</i> , 2012, 761, 77.	4.5	0
41	ADDENDUM: $\sigma$ STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF $\text{Fe}^{11+}$ FORMING $\text{Fe}^{12+}$ AND $\text{Fe}^{13+}$ (2011, ApJ, 729, 76). <i>Astrophysical Journal</i> , 2012, 761, 78.	4.5	0
42	ADDENDUM: $\sigma$ STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF $\text{Fe}^{12+}$ FORMING $\text{Fe}^{13+}$ AND $\text{Fe}^{14+}$ (2011, ApJ, 735, 105). <i>Astrophysical Journal</i> , 2012, 761, 79.	4.5	2
43	EVIDENCE OF WAVE DAMPING AT LOW HEIGHTS IN A POLAR CORONAL HOLE. <i>Astrophysical Journal</i> , 2012, 753, 36.	4.5	68
44	ELECTRON-ION RECOMBINATION OF $\text{Mg}^{6+}$ FORMING $\text{Mg}^{5+}$ AND OF $\text{Mg}^{7+}$ FORMING $\text{Mg}^{6+}$ : LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. <i>Astrophysical Journal</i> , 2012, 758, 40.	4.5	20
45	STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF $\text{Fe}^{9+}$ AND SINGLE IONIZATION OF $\text{Fe}^{10+}$ . <i>Astrophysical Journal</i> , 2012, 760, 80.	4.5	17
46	Recombination of $\text{Au}^{20+}$ at low electron-ion collision energies. <i>Physica Scripta</i> , 2011, T144, 014039.	2.5	9
47	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF $\text{Fe}^{12+}$ FORMING $\text{Fe}^{13+}$ AND $\text{Fe}^{14+}$ . <i>Astrophysical Journal</i> , 2011, 735, 105.	4.5	25
48	DIFFERENTIAL EMISSION MEASURE ANALYSIS OF A POLAR CORONAL HOLE DURING THE SOLAR MINIMUM IN 2007. <i>Astrophysical Journal</i> , 2011, 736, 101.	4.5	24
49	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF $\text{Fe}^{11+}$ FORMING $\text{Fe}^{12+}$ AND $\text{Fe}^{13+}$ . <i>Astrophysical Journal</i> , 2011, 729, 76.	4.5	31
50	Dielectronic recombination of xenonlike tungsten ions. <i>Physical Review A</i> , 2011, 83, .	2.5	67
51	STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR $\text{Mg}^{7+}$ FORMING $\text{Mg}^{8+}$ . <i>Astrophysical Journal</i> , 2010, 712, 1166-1171.	4.5	20
52	PROPERTIES OF A POLAR CORONAL HOLE DURING THE SOLAR MINIMUM IN 2007. <i>Astrophysical Journal</i> , 2010, 725, 774-786.	4.5	10
53	Confinement Studies in the Columbia Non-Neutral Torus. <i>Contributions To Plasma Physics</i> , 2010, 50, 678-682.	1.1	5
54	First Observations of Partially Neutralized and Quasineutral Plasmas in the Columbia Non-Neutral Torus. <i>Contributions To Plasma Physics</i> , 2010, 50, 673-677.	1.1	2

#	ARTICLE	IF	CITATIONS
55	Confinement jumps in a non-neutral plasma. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	1
56	Thermal equilibrium of pure electron plasmas across a central region of magnetic surfaces. <i>Physics of Plasmas</i> , 2009, 16, 062104.	1.9	2
57	Magnetic Surface Visualizations in the Columbia Non-Neutral Torus. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1108-1109.	1.3	11
58	Confirmation of a large density variation along the magnetic axis of the Columbia Non-neutral Torus. <i>Physics of Plasmas</i> , 2008, 15, 020701.	1.9	5
59	Observations of an Ion-Driven Instability in Non-Neutral Plasmas Confined on Magnetic Surfaces. <i>Physical Review Letters</i> , 2008, 100, 065002.	7.8	18
60	Equilibrium, stability, and transport of electron plasmas in the Columbia Non-neutral Torus. , 2007, , .		0
61	Diagnosing pure-electron plasmas with internal particle flux probes. <i>Review of Scientific Instruments</i> , 2007, 78, 013503.	1.3	19
62	Confinement of pure electron plasmas in the Columbia Non-neutral Torus. <i>Physics of Plasmas</i> , 2007, 14, 062503.	1.9	16
63	Spatial Relationship between Twist in Active Region Magnetic Fields and Solar Flares. <i>Astrophysical Journal</i> , 2005, 629, 1135-1140.	4.5	25
64	Detection of a Taylor-like Plasma Relaxation Process in the Sun. <i>Astrophysical Journal</i> , 2003, 597, L73-L76.	4.5	37