

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	EVIDENCE OF WAVE DAMPING AT LOW HEIGHTS IN A POLAR CORONAL HOLE. <i>Astrophysical Journal</i> , 2012, 753, 36.	4.5	68
2	Dielectronic recombination of xenonlike tungsten ions. <i>Physical Review A</i> , 2011, 83, .	2.5	67
3	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). <i>Solar Physics</i> , 2021, 296, 1.	2.5	65
4	OBSERVATIONAL QUANTIFICATION OF THE ENERGY DISSIPATED BY ALFVÃ‰N WAVES IN A POLAR CORONAL HOLE: EVIDENCE THAT WAVES DRIVE THE FAST SOLAR WIND. <i>Astrophysical Journal</i> , 2013, 776, 78.	4.5	60
5	Recombination of W ¹⁸⁺ ions with electrons: Absolute rate coefficients from a storage-ring experiment and from theoretical calculations. <i>Physical Review A</i> , 2014, 90, .	2.5	40
6	Detection of a Taylor-like Plasma Relaxation Process in the Sun. <i>Astrophysical Journal</i> , 2003, 597, L73-L76.	4.5	37
7	EVIDENCE FOR WAVE HEATING OF THE QUIET-SUN CORONA. <i>Astrophysical Journal</i> , 2014, 795, 111. Storage-ring measurement of the hyperfine-induced $\langle mml:math$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"} \langle mml:mrow \rangle \langle mml:mn \rangle 2 \langle /mml:mn \rangle \langle mml:mi \rangle s \langle /mml:mi \rangle \langle mml:mn \rangle 2 \langle /mml:mn \rangle \langle mml:mi \rangle p \langle /mml:mi \rangle \langle /mml:mrow \rangle$	4.5	37
8	$\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"} \langle mml:mrow \rangle \langle mml:msup \rangle \langle mml:mrow \rangle \langle mml:mn \rangle 3 \langle /mml:mn \rangle \langle /mml:msup \rangle \langle mml:mspace width="-0.16em" \rangle$ $\langle /mml:msub \rangle \langle mml:mi \rangle P \langle /mml:mi \rangle \langle /mml:mrow \rangle$	2.5	33
9	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ¹¹⁺ FORMING Fe ¹²⁺ AND Fe ¹³⁺ . <i>Astrophysical Journal</i> , 2011, 729, 76.	4.5	31
10	A SIMPLE METHOD FOR MODELING COLLISION PROCESSES IN PLASMAS WITH A KAPPA ENERGY DISTRIBUTION. <i>Astrophysical Journal</i> , 2015, 809, 178.	4.5	30
11	Spatial Relationship between Twist in Active Region Magnetic Fields and Solar Flares. <i>Astrophysical Journal</i> , 2005, 629, 1135-1140.	4.5	25
12	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ¹²⁺ FORMING Fe ¹³⁺ AND Fe ¹⁴⁺ . <i>Astrophysical Journal</i> , 2011, 735, 105.	4.5	25
13	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
14	Recombination of $\langle mml:math$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle mml:msup \rangle \langle mml:mrow \rangle \langle mml:mi \rangle W \langle /mml:mi \rangle \langle /mml:mrow \rangle \langle mml:mrow \rangle \langle mml:mn \rangle 19 \langle /mml:mn \rangle \langle mml:mo \rangle + \langle /mml:mo \rangle \langle mml:mrow \rangle \langle mml:mo \rangle \langle /mml:mo \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$ with electrons: Absolute rate coefficients from a storage-ring experiment and from theoretical calculations. <i>Physical Review A</i> , 2016, 93, .	4.5	21
15	STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR Mg ⁷⁺ FORMING Mg ⁸⁺ . <i>Astrophysical Journal</i> , 2010, 712, 1166-1171.	4.5	20
16	ELECTRON-ION RECOMBINATION OF Mg ⁶⁺ FORMING Mg ⁵⁺ AND OF Mg ⁷⁺ FORMING Mg ⁶⁺ : LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. <i>Astrophysical Journal</i> , 2012, 758, 40.	4.5	20
17	Electron-impact Multiple-ionization Cross Sections for Atoms and Ions of Helium through Zinc. <i>Astrophysical Journal</i> , 2017, 850, 122.	4.5	20
18	Diagnosing pure-electron plasmas with internal particle flux probes. <i>Review of Scientific Instruments</i> , 2007, 78, 013503.	1.3	19

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19	ELECTRON-ION RECOMBINATION OF Fe XII FORMING Fe XI: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. <i>Astrophysical Journal</i> , 2012, 753, 57.	4.5	19
20	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
21	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe ¹³⁺ AND SINGLE IONIZATION OF Fe ¹⁶⁺ AND Fe ¹⁷⁺ . <i>Astrophysical Journal</i> , 2013, 767, 47.	4.5	18
22	STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe ⁹⁺ AND SINGLE IONIZATION OF Fe ¹⁰⁺ . <i>Astrophysical Journal</i> , 2012, 760, 80.	4.5	17
23	Confinement of pure electron plasmas in the Columbia Non-neutral Torus. <i>Physics of Plasmas</i> , 2007, 14, 062503.	1.9	16
24	INFLUENCE OF ELECTRON-IMPACT MULTIPLE IONIZATION ON EQUILIBRIUM AND DYNAMIC CHARGE STATE DISTRIBUTIONS: A CASE STUDY USING IRON. <i>Astrophysical Journal</i> , 2015, 800, 68.	4.5	16
25	Density Fluctuations in a Polar Coronal Hole. <i>Astrophysical Journal</i> , 2018, 860, 34.	4.5	15
26	MEASUREMENTS OF ANISOTROPIC ION TEMPERATURES, NON-THERMAL VELOCITIES, AND DOPPLER SHIFTS IN A CORONAL HOLE. <i>Astrophysical Journal</i> , 2013, 763, 106.	4.5	14
27	Laboratory Calibrations of Fe xii–xiv Line-intensity Ratios for Electron Density Diagnostics. <i>Astrophysical Journal</i> , 2020, 890, 77.	4.5	14
28	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ⁷⁺ . <i>Astrophysical Journal</i> , 2015, 813, 16.	4.5	12
29	Magnetic Surface Visualizations in the Columbia Non-Neutral Torus. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1108-1109.	1.3	11
30	PROPERTIES OF A POLAR CORONAL HOLE DURING THE SOLAR MINIMUM IN 2007. <i>Astrophysical Journal</i> , 2010, 725, 774-786.	4.5	10
31	Electron-impact-ionization measurements using hyperfine-assisted state preparation of ground-state berylliumlike sulfur. <i>Physical Review A</i> , 2012, 85, .	2.5	10
32	Electron impact ionization of stored highly charged ions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012050.	0.4	10
33	Absolute rate coefficients for the recombination of open f-shell tungsten ions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012051.	0.4	10
34	Effects of Density Fluctuations on Alfvén Wave Turbulence in a Coronal Hole. <i>Astrophysical Journal</i> , 2021, 911, 63.	4.5	10
35	Recombination of Au ²⁰⁺ at low electron-ion collision energies. <i>Physica Scripta</i> , 2011, T144, 014039.	2.5	9
36	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

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37	RELATIVE ABUNDANCE MEASUREMENTS IN PLUMES AND INTERPLUMES. <i>Astrophysical Journal</i> , 2015, 807, 145.	4.5	7
38	Storage ring cross section measurements for electron impact ionization of Fe ⁸⁺ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 084006.	1.5	6
39	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
40	Confinement Studies in the Columbia Non-Neutral Torus. <i>Contributions To Plasma Physics</i> , 2010, 50, 678-682.	1.1	5
41	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
42	Measured Reduction in AlfvÃ©n Wave Energy Propagating through Longitudinal Gradients Scaled to Match Solar Coronal Holes. <i>Astrophysical Journal</i> , 2019, 882, 183.	4.5	5
43	Physical Characteristics of Unstructured Coronal Clouds. <i>Astrophysical Journal</i> , 2021, 910, 113.	4.5	3
44	INFERRING THE CORONAL DENSITY IRREGULARITY FROM EUV SPECTRA. <i>Astrophysical Journal</i> , 2016, 829, 42.	4.5	3
45	Evidence for Parametric Decay Instability in the Lower Solar Atmosphere. <i>Astrophysical Journal</i> , 2022, 933, 52.	4.5	3
46	Thermal equilibrium of pure electron plasmas across a central region of magnetic surfaces. <i>Physics of Plasmas</i> , 2009, 16, 062104.	1.9	2
47	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
48	ADDENDUM: "STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ¹²⁺ FORMING Fe ¹³⁺ AND Fe ¹⁴⁺ " (2011, ApJ, 735, 105). <i>Astrophysical Journal</i> , 2012, 761, 79.	4.5	2
49	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
50	Confinement jumps in a non-neutral plasma. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	1
51	Evidence for wave heating in the solar corona. <i>Annals of the New York Academy of Sciences</i> , 2013, 1293, 45-53.	3.8	1
52	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
53	Equilibrium, stability, and transport of electron plasmas in the Columbia Non-neutral Torus. , 2007, , .	0	0
54	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

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55	ADDENDUM: "STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR Mg ⁷ + FORMING Mg ⁸⁺ ". (2010, ApJ, 712, 1166). <i>Astrophysical Journal</i> , 2012, 761, 77.	4.5	0
56	ADDENDUM: "STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ¹¹⁺ FORMING Fe ¹²⁺ AND Fe ¹³⁺ ". (2011, ApJ, 729, 76). <i>Astrophysical Journal</i> , 2012, 761, 78.	4.5	0
57	Dielectronic recombination of berylliumlike Si ¹⁰⁺ ions at the heavy-ion storage ring TSR. <i>Journal of Physics: Conference Series</i> , 2014, 488, 062012.	0.4	0
58	Storage-ring measurement of the hyperfine induced 2s2p ^{3P₀} - 2s ² ^{2P₁} transition rate in berylliumlike sulfur. <i>Journal of Physics: Conference Series</i> , 2014, 488, 062016.	0.4	0
59	Dielectronic recombination of boronlike Si ⁹⁺ ions at the heavy-ion storage ring TSR. <i>Journal of Physics: Conference Series</i> , 2014, 488, 062011.	0.4	0
60	Recombination of open-4f-shell W ¹⁸⁺ ions with free electrons. <i>Journal of Physics: Conference Series</i> , 2014, 488, 062015.	0.4	0
61	Simultaneous measurement of photorecombination and electron-impact ionization of Fe ¹⁴⁺ ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052002.	0.4	0
62	Electron-ion recombination of the open-4f-shell ion W ¹⁹⁺ . <i>Journal of Physics: Conference Series</i> , 2015, 635, 052003.	0.4	0
63	Influence of Multiple Ionization on Charge State Distributions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052010.	0.4	0
64	Tracing the origins of the solar wind with helium. <i>Nature Astronomy</i> , 2020, 4, 1128-1129.	10.1	0