

# Pierre-Michel Hillenbrand

## List of Publications by Year in descending order

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89  
papers

2,784  
citations

257450

24  
h-index

175258

52  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1489  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single and double $K$ -shell vacancy production in slow $Xe$ collisions. Physical Review A, 2022, 105, .	2.5	5
2	Branching Ratio for $O + H_3^+ \rightarrow OH^+ + H_2^+$ and $H_2^+O^+ + H$ . Astrophysical Journal, 2022, 927, 47.	4.5	0
3	Screening effects in the electron bremsstrahlung from heavy ions. Physical Review A, 2022, 105, .	2.5	0
4	X-ray emission associated with radiative recombination for $Pb^{82+}$ ions at threshold energies. Physical Review A, 2022, 105, .	2.5	8
5	Dynamics of the isotope exchange reaction of D with $H_3^+$ , $H_2D^+$ , and $D_2H^+$ . Journal of Chemical Physics, 2021, 154, 084307.	3.0	3
6	Angular Distribution of Characteristic Radiation Following the Excitation of He-Like Uranium in Relativistic Collisions. Atoms, 2021, 9, 20.	1.6	3
7	Electron loss to continuum in collisions of $U^{89+}$ with $X$ . Physical Review A, 2021, 103, 042701.	2.5	3
8	Towards experiments with highly charged ions at HESR. X-Ray Spectrometry, 2020, 49, 33-36.	1.4	3
9	A magnetic spectrometer for electron-positron pair spectroscopy in storage rings. X-Ray Spectrometry, 2020, 49, 115-119.	1.4	0
10	High-resolution wavelength-dispersive spectroscopy of $K$ -shell transitions in hydrogen-like gold. X-Ray Spectrometry, 2020, 49, 204-208.	1.4	1
11	Experimental study of the proton-transfer reaction $C + H_2^+ \rightarrow CH^+ + H$ and its isotopic variant ( $D_2^+ + H$ ). Physical Chemistry Chemical Physics, 2020, 22, 27364-27384.	2.8	4
12	Determination of luminosity for in-ring reactions: A new approach for the low-energy domain. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 982, 164367.	1.6	2
13	Coincident mapping of $e^+$ and $e\hat{\nu}$ from free-free pair production in a magnetic toroidal lepton spectrometer. Journal of Physics: Conference Series, 2020, 1412, 232004.	0.4	0
14	Electron capture to the continuum in collisions with $H$ . Physical Review A, 2020, 101, 042701.	2.5	7
15	Impact parameter sensitive study of inner-shell atomic processes in $Xe^{54+}$ , $Xe^{52+} \hat{\nu}^+ Xe$ collisions. Journal of Physics: Conference Series, 2020, 1412, 142015.	0.4	0
16	Radiative electron capture to the continuum in $U^{89+}$ collisions: Experiment and theory. Physical Review A, 2020, 101, .	2.5	8
17	The magnetic toroidal sector as a broad-band electron-positron pair spectrometer I. lepton trajectories. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 946, 162641.	1.6	1
18	QED tests with highly charged ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 232001.	1.5	60



#	ARTICLE	IF	CITATIONS
37	Coherent population of magnetic sublevels of $\{m\}_{3/2}$ state in hydrogenlike uranium by radiative recombination. Physica Scripta, 2015, T166, 014027.	2.5	3
38	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 022005.	0.4	0
39	A lepton spectrometer for studies of fundamental atomic processes at HESR at FAIR. Journal of Physics: Conference Series, 2015, 635, 022087.	0.4	0
40	First observation of coherence in a highly charged ion. Journal of Physics: Conference Series, 2015, 635, 022096.	0.4	0
41	The magnetic toroidal sector: a broad-band electron-positron pair spectrometer. Journal of Physics: Conference Series, 2015, 635, 022046.	0.4	0
42	Radioactive decays of highly-charged ions. EPJ Web of Conferences, 2015, 93, 05003.	0.3	0
43	Crystal optics for precision x-ray spectroscopy on highly charged ions—conception and proof. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144010.	1.5	20
44	Between atomic and nuclear physics: radioactive decays of highly-charged ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144024.	1.5	16
45	Experimental study of the dielectronic recombination into Li-like uranium. Physica Scripta, 2015, T166, 014024.	2.5	2
46	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 012011.	0.4	4
47	Electron emission spectra of U <sup>28+</sup> -ions colliding with gaseous targets. Journal of Physics: Conference Series, 2015, 635, 022049.	0.4	1
48	Relativistic effects in electron-capture to the continuum in 90 MeV/u U <sup>88+</sup> +N <sub>2</sub> collisions. Journal of Physics: Conference Series, 2015, 635, 022065.	0.4	0
49	Electron-capture-to-continuum cusp in $U^{28+}$ collisions. Physical Review A, 2015, 91, 013401.	2.5	20
50	Total projectile electron loss cross sections of $U^{28+}$ in collisions with gaseous targets ranging from hydrogen to krypton. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	8
51	First observation of correlated photons emitted by heavy highly charged ions in the process of radiative recombination. Journal of Physics: Conference Series, 2014, 488, 082023.	0.4	0
52	Metal vapor target for precise studies of ion-atom collisions. Review of Scientific Instruments, 2014, 85, 053513.	1.3	0
53	Radiative-electron-capture-to-continuum cusp in U <sup>88+</sup> +N <sub>2</sub> collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. Physical Review A, 2014, 90, .	2.5	25
54	Electron-loss-to-continuum cusp in U <sup>88+</sup> +N <sub>2</sub> collisions. Physical Review A, 2014, 90, .	2.5	17

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55	Electron-impact ionization of 4d-shell xenon and tin ions. Journal of Physics: Conference Series, 2014, 488, 062025.	0.4	0
56	Observation of Coherence in the Time-Reversed Relativistic Photoelectric Effect. Physical Review Letters, 2014, 113, 113001.	7.8	28
57	Probing nuclear properties by resonant atomic collisions between electrons and ions. Physica Scripta, 2013, T156, 014050.	2.5	23
58	Proton Structure from the Measurement of 2S-2P Transition Frequencies of Muonic Hydrogen. Science, 2013, 339, 417-420.	12.6	676
59	Few-body quantum dynamics of high- $Z$ ions studied at the future relativistic high-energy storage ring. Physica Scripta, 2013, T156, 014086.	2.5	5
60	Future experiments using forward electron spectroscopy to study the quantum dynamics of high-Z ions at the ESR/CRYRING storage rings. Physica Scripta, 2013, T156, 014087.	2.5	8
61	Beta decay of highly charged ions. Physica Scripta, 2013, T156, 014025.	2.5	6
62	A study of radiative double electron capture in bare chromium ions at the ESR. Physica Scripta, 2013, T156, 014048.	2.5	7
63	Half-life measurements of highly charged radionuclides. Physica Scripta, 2013, T156, 014026.	2.5	6
64	Charge transfer of slow highly charged xenon ions in collisions with magnesium atoms. Physical Review A, 2013, 88, .	2.5	4
65	Observation of $\langle \mathbf{p} \rangle$ in $3d$ $1P^o$ states of $\text{Xe}^{23+}$ ions.		

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73	Investigation of the Decay Properties of the $1s(2s)2$ State in Li-Like Uranium. Journal of Physics: Conference Series, 2007, 58, 141-144.	0.4	9
74	The FOCAL spectrometer for accurate X-ray spectroscopy of fast heavy ions. Nuclear Instruments & Methods in Physics Research B, 2006, 245, 67-71.	1.4	15
75	Relativistic quantum dynamics in strong fields: photon emission from heavy, few-electron ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S707-S726.	1.5	84
76	Dielectronic Resonance Method for Measuring Isotope Shifts. Physical Review Letters, 2005, 95, 183003.	7.8	46
77	Lifetime of the $23P$ state of He-like $^{197}\text{Au}$ . Physical Review A, 2004, 69, .	2.5	27
78	Systematic calculation of total atomic energies of ground state configurations. Atomic Data and Nuclear Data Tables, 2004, 86, 117-233.	2.4	155
79	FOCAL: X-ray optics for accurate spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1535-1542.	2.9	23
80	Spectroscopy of $\text{Ly}\hat{1}\pm$ Lines at Storage Rings by Crystal Spectrometry and Absorption Edge Technique. , 2001, , 491-494.		1
81	Measurement of the ground-state Lamb shift of hydrogenlike uranium at the electron cooler of the ESR. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1995, 35, 169-175.	1.0	91
82	Measurement of the $1s$ Lamb shift in hydrogenlike nickel. Physical Review A, 1991, 43, 223-227.	2.5	45
83	Observation and measurement of $n=2 \rightarrow n=1$ transitions of hydrogenlike and heliumlike uranium. Physical Review Letters, 1990, 65, 2761-2764.	7.8	78
84	Multiconfiguration Dirac-Fock calculations of transition energies with QED corrections in three-electron ions. Physical Review A, 1990, 42, 5139-5149.	2.5	218
85	Spectroscopic Study of Hydrogenlike and Heliumlike Xenon Ions. Europhysics Letters, 1989, 9, 225-230.	2.0	52
86	Multiconfigurational Dirac-Fock studies of two-electron ions. II. Radiative corrections and comparison with experiment. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 651-663.	1.6	225
87	Observation of hydrogenlike and heliumlike krypton spectra. Zeitschrift für Physik A, 1984, 318, 1-5.	1.4	44
88	Spectroscopy of hydrogenlike and heliumlike argon. Physical Review A, 1983, 28, 1413-1417.	2.5	85
89	High-Precision Spectroscopic Studies of Lyman $\hat{1}\pm$ Lines of Hydrogenlike Iron: A Measurement of the $1s$ Lamb Shift. Physical Review Letters, 1983, 50, 832-835.	7.8	81