

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	Proton Structure from the Measurement of 2S-2P Transition Frequencies of Muonic Hydrogen. <i>Science</i> , 2013, 339, 417-420.	12.6	676
2	Multiconfigurational Dirac-Fock studies of two-electron ions. II. Radiative corrections and comparison with experiment. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987, 20, 651-663.	1.6	225
3	Multiconfiguration Dirac-Fock calculations of transition energies with QED corrections in three-electron ions. <i>Physical Review A</i> , 1990, 42, 5139-5149.	2.5	218
4	Systematic calculation of total atomic energies of ground state configurations. <i>Atomic Data and Nuclear Data Tables</i> , 2004, 86, 117-233.	2.4	155
5	Physics book: CRYRING@ESR. <i>European Physical Journal: Special Topics</i> , 2016, 225, 797-882.	2.6	101
6	Measurement of the ground-state lambshift of hydrogenlike uranium at the electron cooler of the ESR. <i>Zeitschrift fÃ¼r Physik D-Atoms Molecules and Clusters</i> , 1995, 35, 169-175.	1.0	91
7	Spectroscopy of hydrogenlike and heliumlike argon. <i>Physical Review A</i> , 1983, 28, 1413-1417.	2.5	85
8	Relativistic quantum dynamics in strong fields: photon emission from heavy, few-electron ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, S707-S726.	1.5	84
9	High-Precision Spectroscopic Studies of Lyman- \pm Lines of Hydrogenlike Iron: A Measurement of the 1sLamb Shift. <i>Physical Review Letters</i> , 1983, 50, 832-835.	7.8	81
10	All the fun of the FAIR: fundamental physics at the facility for antiproton and ion research. <i>Physica Scripta</i> , 2019, 94, 033001.	2.5	79
11	Observation and measurement of $n=2 \rightarrow n=1$ transitions of hydrogenlike and heliumlike uranium. <i>Physical Review Letters</i> , 1990, 65, 2761-2764.	7.8	78
12	QED tests with highly charged ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 232001.	1.5	60
13	Spectroscopic Study of Hydrogenlike and Heliumlike Xenon Ions. <i>Europhysics Letters</i> , 1989, 9, 225-230.	2.0	52
14	Dielectronic Resonance Method for Measuring Isotope Shifts. <i>Physical Review Letters</i> , 2005, 95, 183003.	7.8	46
15	Measurement of the 1sLamb shift in hydrogenlike nickel. <i>Physical Review A</i> , 1991, 43, 223-227.	2.5	45
16	Observation of hydrogenlike and heliumlike krypton spectra. <i>Zeitschrift fÃ¼r Physik A</i> , 1984, 318, 1-5.	1.4	44
17	Two-loop QED corrections with closed fermion loops. <i>Physical Review A</i> , 2008, 77, .	2.5	39
18	Approaching the Gamow Window with Stored Ions: Direct Measurement of $Xe^{124}(p,\gamma^3)$ in the ESR Storage Ring. <i>Physical Review Letters</i> , 2019, 122, 092701.	7.8	38

#	ARTICLE	IF	CITATIONS
37	New test of modulated electron capture decay of hydrogen-like 142Pm ions: Precision measurement of purely exponential decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134800.	4.1	13
38	Electron- and proton-impact excitation of heliumlike uranium in relativistic collisions. Physical Review A, 2019, 99, .	2.5	13
39	Experimental and Theoretical Studies of the Isotope Exchange Reaction. Astrophysical Journal, 2019, 877, 38.	4.5	12
40	Strong asymmetry of the electron-loss-to-continuum cusp of multielectron U_{25}^{+} in near-relativistic collisions with gaseous targets. Physical Review A, 2016, 93, .	2.5	11
41	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
42	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
43	Radiative electron capture as a tunable source of highly linearly polarized x rays. Physical Review A, 2019, 99, .	2.5	8
44	Radiative electron capture to the continuum in U_{89}^{+} and N_{2} collisions: Experiment and theory. Physical Review A, 2020, 101, .	2.5	8
45	X-ray emission associated with radiative recombination for U_{28}^{+} in collisions with gaseous targets ranging from hydrogen to krypton. Physical Review Special Topics: X-ray Science and Applications, 2022, 105, .	1.8	8
46	A study of radiative double electron capture in bare chromium ions at the ESR. Physica Scripta, 2013, T156, 014048.	2.5	7
47	Electron capture of Xe_{2} in collisions with H_{2} . Physica Scripta, 2013, T156, 014025.	2.5	7
48	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
49	Beta decay of highly charged ions. Physica Scripta, 2013, T156, 014025.	2.5	6
50	Half-life measurements of highly charged radionuclides. Physica Scripta, 2013, T156, 014026.	2.5	6
51	Impact parameter sensitive study of inner-shell atomic processes in the experimental storage ring. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 27-30.	1.4	5
52	Single and double shell vacancy production in slow Xe collisions. Physical Review A, 2022, 105, .	2.5	5

#	ARTICLE	IF	CITATIONS
55	Electron Spectroscopy In Heavy-Ion Storage Rings: Resonant and Non-Resonant Electron Transfer Processes. , 2011,,.	4	
56	Charge transfer of slow highly charged xenon ions in collisions with magnesium atoms. Physical Review A, 2013, 88, .	2.5	4
57	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 012011.	0.4	4
58	Search for bound-state electron+positron pair decay. EPJ Web of Conferences, 2016, 123, 04003.	0.3	4
59	Experimental study of the proton-transfer reaction C + H ₂ ⁺ + H ⁺ CH⁺ + H and its isotopic variant (D ₂ ⁺). Physical Chemistry Chemical Physics, 2020, 22, 27364-27384.	2.8	4
60	Coherent population of magnetic sublevels of \$2{{m{p}}}_{-3/2}\$ state in hydrogenlike uranium by radiative recombination. Physica Scripta, 2015, T166, 014027.	2.5	3
61	Studies at the border between nuclear and atomic physics: Weak decays of highly charged ions. Journal of Physics: Conference Series, 2017, 875, 012008.	0.4	3
62	Towards experiments with highly charged ions at HESR. X-Ray Spectrometry, 2020, 49, 33-36.	1.4	3
63	Dynamics of the isotope exchange reaction of D with H3+, H2D+, and D2H+. Journal of Chemical Physics, 2021, 154, 084307.	3.0	3
64	Angular Distribution of Characteristic Radiation Following the Excitation of He-Like Uranium in Relativistic Collisions. Atoms, 2021, 9, 20. <i>Electromagnetic-to-continuum cusp in collisions of</i> U^{+} <i>with</i> He^{+} .	1.6	3
65	$\text{xmlns:mml} = \text{http://www.w3.org/1998/Math/MathML}$ $\text{mathvariant} = \text{"normal"}$ U^{+} mml:mi mml:mrow mml:mn 89 mml:mn mml:mo $+$ mml:mo mml:mrow mml:mrow mml:mi $\text{mathvariant} = \text{"normal"}$ N mml:mi mml:mrow mml:mn 2 mml:mn mml:mo mml:math end	2.5	3
66	Experimental study of the dielectronic recombination into Li-like uranium. Physica Scripta, 2015, T166, 014024.	2.5	2
67	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
68	Electron emission spectra of U28+-ions colliding with gaseous targets. Journal of Physics: Conference Series, 2015, 635, 022049.	0.4	1
69	Proton and $\bar{\nu}$ capture studies for nuclear astrophysics at GSI storage rings. Journal of Physics: Conference Series, 2017, 875, 092015.	0.4	1
70	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
71	High-resolution wavelength-dispersive spectroscopy of K shell transitions in hydrogenlike gold. X-Ray Spectrometry, 2020, 49, 204-208.	1.4	1
72	Spectroscopy of Ly- $\bar{\nu}$ Lines at Storage Rings by Crystal Spectrometry and Absorption Edge Technique. , 2021, 121, 121001.	1	

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73	Electron-impact single and double ionization of tin ions. Journal of Physics: Conference Series, 2012, 388, 062023.	0.4	0
74	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
75	Metal vapor target for precise studies of ion-atom collisions. Review of Scientific Instruments, 2014, 85, 053513.	1.3	0
76	Electron-impact ionization of 4d-shell xenon and tin ions. Journal of Physics: Conference Series, 2014, 488, 062025.	0.4	0
77	Experiments with Stored Highly Charged Ions at the Border between Atomic and Nuclear Physics. Physics Procedia, 2015, 66, 28-38.	1.2	0
78	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 022005.	0.4	0
79	A lepton spectrometer for studies of fundamental atomic processes at HESR at FAIR. Journal of Physics: Conference Series, 2015, 635, 022087.	0.4	0
80	First observation of coherence in a highly charged ion. Journal of Physics: Conference Series, 2015, 635, 022096.	0.4	0
81	The magnetic toroidal sector: a broad-band electron-positron pair spectrometer. Journal of Physics: Conference Series, 2015, 635, 022046.	0.4	0
82	Radioactive decays of highly-charged ions. EPJ Web of Conferences, 2015, 93, 05003.	0.3	0
83	Relativistic effects in electron-capture to the continuum in 90 MeV/u U88++N2collisions. Journal of Physics: Conference Series, 2015, 635, 022065.	0.4	0
84	Astrophysically motivated laboratory measurements of deuterium reacting with isotopologues of H. Proceedings of the International Astronomical Union, 2019, 15, 114-115.	0.0	0
85	A magnetic spectrometer for electron-positron pair spectroscopy in storage rings. X-Ray Spectrometry, 2020, 49, 115-119.	1.4	0
86	Coincident mapping of e+ and e- from free-free pair production in a magnetic toroidal lepton spectrometer. Journal of Physics: Conference Series, 2020, 1412, 232004.	0.4	0
87	Impact parameter sensitive study of inner-shell atomic processes in Xe ⁵⁴⁺ , Xe ⁵²⁺ \rightarrow Xe collisions. Journal of Physics: Conference Series, 2020, 1412, 142015.	0.4	0
88	Branching Ratio for O + H ₃ \rightarrow OH + H ₂ and H ₂ O + H. Astrophysical Journal, 2022, 927, 47.	4.5	0
89	Screening effects in the electron bremsstrahlung from heavy ions. Physical Review A, 2022, 105, .	2.5	0