

Pierre-Michel Hillenbrand

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7260301/publications.pdf>

Version: 2024-02-01

89
papers

2,784
citations

293460

24
h-index

198040

52
g-index

89
all docs

89
docs citations

89
times ranked

1559
citing authors

#	ARTICLE	IF	CITATIONS
1	Single and double K -shell vacancy production in slow Xe collisions. Physical Review A, 2022, 105, .	1.0	5
2	Branching Ratio for $O + H_3^+ \rightarrow OH^+ + H_2^+$ and $H_2^+O^+ + H$. Astrophysical Journal, 2022, 927, 47.	1.6	0
3	Screening effects in the electron bremsstrahlung from heavy ions. Physical Review A, 2022, 105, .	1.0	0
4	X-ray emission associated with radiative recombination for Pb^{82+} ions at threshold energies. Physical Review A, 2022, 105, .	1.0	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.	1.2	3
6	Angular Distribution of Characteristic Radiation Following the Excitation of He-Like Uranium in Relativistic Collisions. Atoms, 2021, 9, 20.	0.7	3
7	Electron loss to continuum in collisions of U^{89+} with X . Physical Review A, 2021, 103, 013402.	1.0	3
8	Towards experiments with highly charged ions at HESR. X-Ray Spectrometry, 2020, 49, 33-36.	0.9	3
9	A magnetic spectrometer for electron-positron pair spectroscopy in storage rings. X-Ray Spectrometry, 2020, 49, 115-119.	0.9	0
10	High-resolution wavelength-dispersive spectroscopy of K -shell transitions in hydrogen-like gold. X-Ray Spectrometry, 2020, 49, 204-208.	0.9	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.	1.3	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.	0.7	2
13	Coincident mapping of e^+ and $e^{\hat{+}}$ from free-free pair production in a magnetic toroidal lepton spectrometer. Journal of Physics: Conference Series, 2020, 1412, 232004.	0.3	0
14	Electron capture to the continuum in collisions with H . Physical Review A, 2020, 101, 013402.	1.0	7
15	Impact parameter sensitive study of inner-shell atomic processes in Xe^{54+} , $Xe^{52+} \hat{+} Xe$ collisions. Journal of Physics: Conference Series, 2020, 1412, 142015.	0.3	0
16	Radiative electron capture to the continuum in U^{89+} collisions: Experiment and theory. Physical Review A, 2020, 101, .	1.0	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.	0.7	1
18	QED tests with highly charged ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 232001.	0.6	60

#	ARTICLE	IF	CITATIONS
19	New test of modulated electron capture decay of hydrogen-like ^{142}Pm ions: Precision measurement of purely exponential decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134800.	1.5	13
20	Experimental and Theoretical Studies of the Isotope Exchange Reaction. <i>Astrophysical Journal</i> , 2019, 877, 38.	1.6	12
21	Radiative electron capture as a tunable source of highly linearly polarized x rays. <i>Physical Review A</i> , 2019, 99, .	1.0	8
22	Approaching the Gamow Window with Stored Ions: Direct Measurement of $\text{Xe}^{124}(\text{p}, \hat{1}^3)$ in the ESR Storage Ring. <i>Physical Review Letters</i> , 2019, 122, 092701.	2.9	38
23	Electron- and proton-impact excitation of heliumlike uranium in relativistic collisions. <i>Physical Review A</i> , 2019, 99, .	1.0	13
24	Astrophysically motivated laboratory measurements of deuterium reacting with isotopologues of H. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 114-115.	0.0	0
25	All the fun of the FAIR: fundamental physics at the facility for antiproton and ion research. <i>Physica Scripta</i> , 2019, 94, 033001.	1.2	79
26	High-precision measurements of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle$ transition energies and level widths in He- and Be-like argon ions. <i>Physical Review A</i> , 2018, 97, .		
27	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle$		

#	ARTICLE	IF	CITATIONS
37	Coherent population of magnetic sublevels of $2\{m\}_{3/2}$ state in hydrogenlike uranium by radiative recombination. Physica Scripta, 2015, T166, 014027.	1.2	3
38	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 022005.	0.3	0
39	A lepton spectrometer for studies of fundamental atomic processes at HESR at FAIR. Journal of Physics: Conference Series, 2015, 635, 022087.	0.3	0
40	First observation of coherence in a highly charged ion. Journal of Physics: Conference Series, 2015, 635, 022096.	0.3	0
41	The magnetic toroidal sector: a broad-band electron-positron pair spectrometer. Journal of Physics: Conference Series, 2015, 635, 022046.	0.3	0
42	Radioactive decays of highly-charged ions. EPJ Web of Conferences, 2015, 93, 05003.	0.1	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.	0.6	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.	0.6	16
45	Experimental study of the dielectronic recombination into Li-like uranium. Physica Scripta, 2015, T166, 014024.	1.2	2
46	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 012011.	0.3	4
47	Electron emission spectra of U ²⁸⁺ -ions colliding with gaseous targets. Journal of Physics: Conference Series, 2015, 635, 022049.	0.3	1
48	Relativistic effects in electron-capture to the continuum in 90 MeV/u U ⁸⁸⁺ +N ₂ collisions. Journal of Physics: Conference Series, 2015, 635, 022065.	0.3	0
49	Electron-capture-to-continuum cusp in U^{28+} collisions. Physical Review A, 2015, 91, 013401.	1.8	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.	0.3	0
52	Metal vapor target for precise studies of ion-atom collisions. Review of Scientific Instruments, 2014, 85, 053513.	0.6	0
53	Radiative-electron-capture-to-continuum cusp in U ⁸⁸⁺ +N ₂ collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. Physical Review A, 2014, 90, .	1.0	25
54	Electron-loss-to-continuum cusp in U ⁸⁸⁺ +N ₂ collisions. Physical Review A, 2014, 90, .	1.0	17

#	ARTICLE	IF	CITATIONS
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.	0.3	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.	0.6	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.	0.6	84
76	Dielectronic Resonance Method for Measuring Isotope Shifts. Physical Review Letters, 2005, 95, 183003.	2.9	46
77	Lifetime of the $23P$ state of He-like ^{197}Au . Physical Review A, 2004, 69, .	1.0	27
78	Systematic calculation of total atomic energies of ground state configurations. Atomic Data and Nuclear Data Tables, 2004, 86, 117-233.	0.9	155
79	FOCAL: X-ray optics for accurate spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1535-1542.	1.5	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.	1.0	45
83	Observation and measurement of $n=2 \rightarrow n=1$ transitions of hydrogenlike and heliumlike uranium. Physical Review Letters, 1990, 65, 2761-2764.	2.9	78
84	Multiconfiguration Dirac-Fock calculations of transition energies with QED corrections in three-electron ions. Physical Review A, 1990, 42, 5139-5149.	1.0	218
85	Spectroscopic Study of Hydrogenlike and Heliumlike Xenon Ions. Europhysics Letters, 1989, 9, 225-230.	0.7	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.	1.0	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.	2.9	81