

Michael Lestinsky

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1141356/publications.pdf>

Version: 2024-02-01

142
papers

2,988
citations

172457

29
h-index

197818

49
g-index

142
all docs

142
docs citations

142
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Electrodynamics in Strong Electric Fields: The Ground-State Lamb Shift in Hydrogenlike Uranium. Physical Review Letters, 2005, 94, 223001.	7.8	185
2	First Measurement of the Linear Polarization of Radiative Electron Capture Transitions. Physical Review Letters, 2006, 97, 223202.	7.8	112
3	High-Resolution Dissociative Recombination of Cold H ₃ ⁺ and First Evidence for Nuclear Spin Effects. Physical Review Letters, 2005, 95, 263201.	7.8	106
4	Storage ring at HIE-ISOLDE. European Physical Journal: Special Topics, 2012, 207, 1-117.	2.6	101
5	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	2.6	101
6	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
7	Screened Radiative Corrections from Hyperfine-Split Dielectronic Resonances in Lithiumlike Scandium. Physical Review Letters, 2008, 100, 033001.	7.8	82
8	Parity-violation effect in heliumlike gadolinium and europium. Physical Review A, 2001, 63, .	2.5	75
9	Storage-Ring Measurement of the Hyperfine Induced Ti ¹⁸⁺ 4f(2s ² p ³ 2s ² S ₀₁) Transition Rate. Physical Review Letters, 2007, 98, 033001.	7.8	75
10	Dielectronic recombination of xenonlike tungsten ions. Physical Review A, 2011, 83, .	2.5	67
11	Measurement of the Decay Rate of the Negative Ion of Positronium (Ps ⁻). Physical Review Letters, 2006, 96, 063401.	7.8	65
12	Nuclear physics experiments with ion storage rings. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 603-616.	1.4	60
13	The high-resolution electron-ion collision facility at TSR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 532, 298-302.	1.6	57
14	Electron-electron interaction studied in strong central fields by resonant transfer and excitation with H-like U ions. Physical Review A, 2003, 68, .	2.5	53
15	Spectroscopic Study of Hydrogenlike and Heliumlike Xenon Ions. Europhysics Letters, 1989, 9, 225-230.	2.0	52
16	High-resolution measurement of the time-modulated orbital electron capture and of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle$ decay of hydrogen-like ¹⁴² Pm ⁶⁰⁺ ions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 638-645.	1.4	51
17	Electron-Electron Interaction in Strong Electromagnetic Fields: The Two-Electron Contribution to the Ground-State Energy in He-like Uranium. Physical Review Letters, 2004, 92, 203004.	7.8	50
18	Angular Distribution Studies for the Time-Reversed Photoionization Process in Hydrogenlike Uranium: The Identification of Spin-Flip Transitions. Physical Review Letters, 1999, 82, 3232-3235.	7.8	49

#	ARTICLE	IF	CITATIONS
19	High-resolution storage-ring measurements of the dissociative recombination of H^+ a supersonic expansion ion source. <i>Physical Review A</i> , 2010, 82, .	2.5	48
20	SPARC collaboration: new strategy for storage ring physics at FAIR. <i>Hyperfine Interactions</i> , 2014, 227, 45-53.	0.5	47
21	Measurement of the 1sLamb shift in hydrogenlike nickel. <i>Physical Review A</i> , 1991, 43, 223-227.	2.5	45
22	Observation of hydrogenlike and heliumlike krypton spectra. <i>Zeitschrift für Physik A</i> , 1984, 318, 1-5.	1.4	44
23	Near-Threshold Photoionization of Hydrogenlike Uranium Studied in Ion-Atom Collisions via the Time-Reversed Process. <i>Physical Review Letters</i> , 2001, 86, 983-986.	7.8	43
24	APPA at FAIR: From fundamental to applied research. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 365, 680-685.	1.4	41
25	Electron-Ion Recombination Measurements Motivated by AGN X-Ray Absorption Features: Fe xiv Forming Fe xiii. <i>Astrophysical Journal</i> , 2006, 641, L157-L160.	4.5	38
26	Approaching the Gamow Window with Stored Ions: Direct Measurement of $Xe^{124}(p, \hat{p}^3)$ in the ESR Storage Ring. <i>Physical Review Letters</i> , 2019, 122, 092701.	7.8	38
27	Towards a new measurement of the decay rate of the negative positronium ion Ps^- . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 221, 185-194.	1.4	33
28	Storage-ring measurement of the hyperfine-induced s $2p$ transition in He-like uranium. <i>Physical Review Letters</i> , 2009, 103, 083001.	2.5	33
29	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
30	Observation of the $2p_{3/2} \rightarrow 2s_{1/2}$ intra-shell transition in He-like uranium. <i>Europhysics Letters</i> , 2009, 87, 63001.	2.0	29
31	Effects of molecular rotation in low-energy electron collisions of. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 2981-2997.	3.4	28
32	Observation of Coherence in the Time-Reversed Relativistic Photoelectric Effect. <i>Physical Review Letters</i> , 2014, 113, 113001.	7.8	28
33	Lifetime of the $23P_0$ state of He-like ^{197}Au . <i>Physical Review A</i> , 2004, 69, .	2.5	27
34	ELECTRON-ION RECOMBINATION OF Fe^{10+} FORMING Fe^{IX} AND OF Fe^{11+} FORMING Fe^{X} : LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. <i>Astrophysical Journal</i> , 2009, 698, 648-659.	4.5	27
35	Simultaneous excitation and ionization of He-like uranium ions in relativistic collisions with gaseous targets. <i>Physical Review A</i> , 2000, 61, .	2.5	25
36	Progress in stored ion beam experiments on atomic and molecular processes. <i>Hyperfine Interactions</i> , 2006, 172, 111-124.	0.5	25

#	ARTICLE	IF	CITATIONS
37	Electron-ion recombination for $\text{Si ion}\{\text{Fe}\}\{\text{viii}\}$ forming $\text{Si ion}\{\text{Fe}\}\{\text{vii}\}$ and $\text{Si ion}\{\text{Fe}\}\{\text{ix}\}$ forming $\text{Si ion}\{\text{Fe}\}\{\text{viii}\}$: measurements and theory. <i>Astronomy and Astrophysics</i> , 2008, 492, 265-275.	5.1	25
38	Fragmentation Channels in Dissociative Electron Recombination with Hydronium and Other Astrophysically Important Species. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4870-4874.	2.5	25
39	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
40	Radiative-electron-capture-to-continuum cusp in U^{88+} collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. <i>Physical Review A</i> , 2014, 90, .	2.5	25
41	SPARC: The Stored Particle Atomic Research Collaboration At FAIR. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	24
42	FOCAL: X-ray optics for accurate spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1535-1542.	2.9	23
43	Photocathodes as electron sources for high resolution merged beam experiments. <i>Journal of Physics: Conference Series</i> , 2005, 4, 290-295.	0.4	23
44	Electron-ion recombination of Si^{IV} forming Si^{III} and Si^{II} . <i>Journal of Physics: Conference Series</i> , 2005, 4, 290-295.	2.5	23
45	Storage ring measurement and multi-cone bremsstrahlung in U^{90+} collisions. <i>Physical Review A</i> , 2014, 90, .		

#	ARTICLE	IF	CITATIONS
55	Electron-capture-to-continuum cusp in U^{88+} ions. Physical Review A, 2015, 91, .	2.5	20
56	Electron bremsstrahlung in collisions of 223 MeV/u He-like uranium ions with gaseous targets. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 2601-2609.	1.5	19
57	ELECTRON-ION RECOMBINATION OF Fe XII FORMING Fe XI: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2012, 753, 57.	4.5	19
58	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe^{13+} AND SINGLE IONIZATION OF Fe^{16+} AND Fe^{17+} . Astrophysical Journal, 2013, 767, 47.	4.5	18
59	STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe^{9+} AND SINGLE IONIZATION OF Fe^{10+} . Astrophysical Journal, 2012, 760, 80.	4.5	17
60	Electron-loss-to-continuum cusp in $U^{88+} + N_2$ collisions. Physical Review A, 2014, 90, .	2.5	17
61	Wavelength-dispersive spectroscopy in the hard x-ray regime of a heavy highly-charged ion: the $1s$ Lamb shift in hydrogen-like gold. New Journal of Physics, 2018, 20, 073033.	2.9	17
62	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
63	Assignment of resonances in dissociative recombination of HD ions: High-resolution measurements compared with accurate computations. Physical Review A, 2011, 84, .	2.5	15
64	Absolute rate coefficients for photorecombination and electron-impact ionization of magnesium-like iron ions from measurements at a heavy-ion storage ring. Physical Review A, 2014, 90, .	2.5	15
65	Storage-ring experiments on dielectronic recombination at the interface of atomic and nuclear physics. Physica Scripta, 2015, T166, 014022.	2.5	15
66	Crystal optics for hard-X-ray spectroscopy of highly charged ions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 736-743.	2.9	14
67	CRYRING@ESR: present status and future research. Physica Scripta, 2015, T166, 014075.	2.5	14
68	New test of modulated electron capture decay of hydrogen-like ^{142}Pm ions: Precision measurement of purely exponential decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134800.	4.1	13
69	Electron- and proton-impact excitation of helium-like uranium in relativistic collisions. Physical Review A, 2019, 99, .	2.5	13
70	A new measurement of the decay rate of the negative positronium ion: status and preliminary results. Canadian Journal of Physics, 2005, 83, 413-423.	1.1	12
71	Three-body kinematical correlation in the dissociative recombination of CH_2^+ ions: three-dimensional imaging. Physical Review A, 2007, 76, .	2.5	12
72	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe^{7+} . Astrophysical Journal, 2015, 813, 16.	4.5	12

#	ARTICLE	IF	CITATIONS
73	Anisotropy and Molecular Rotation in Resonant Low-Energy Dissociative Recombination. Physical Review Letters, 2008, 100, 193201.	7.8	11
74	Strong asymmetry of the electron-loss-to-continuum cusp of multielectron U in near-relativistic collisions with gaseous targets. Physical Review A, 2016, 93, .	2.5	11
75	N^4+ and N^5+ in collisions with He . Physical Review A, 2016, 93, .	2.5	10
76	Electron-impact-ionization measurements using hyperfine-assisted state preparation of ground-state berylliumlike sulfur. Physical Review A, 2012, 85, .	2.5	10
77	Photorecombination of berylliumlike Ti^{18+} : Hyperfine quenching of dielectronic resonances. Journal of Physics: Conference Series, 2007, 58, 137-140.	0.4	9
78	Recombination of Au^{20+} at low electron-ion collision energies. Physica Scripta, 2011, T144, 014039.	2.5	9
79	Electron collisions and rovibrational action spectroscopy of cold H_3^+ molecules. Journal of Physics: Conference Series, 2007, 88, 012064.	0.4	8
80	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
81	Radiative electron capture as a tunable source of highly linearly polarized x rays. Physical Review A, 2019, 99, .	2.5	8
82	Radiative electron capture to the continuum in U collisions: Experiment and theory. Physical Review A, 2020, 101, .	2.5	8
83	X-ray emission associated with radiative recombination for Pb^{82+} ions at threshold energies. Physical Review A, 2022, 105, .	2.5	8
84	Low-energy collisions with atomic and molecular ions in a photocathode electron target. Journal of Physics: Conference Series, 2009, 194, 012024.	0.4	7
85	ELECTRON-ION RECOMBINATION OF Fe^{12+} FORMING Fe^{11+} : LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2014, 788, 46.	4.5	7
86	Subshell-selective x-ray studies of radiative recombination of U with electrons for very low relative energies. Physical Review A, 2015, 92, .	2.5	7
87	H_2^+ in collisions with Xe . Physical Review A, 2015, 92, .	2.5	7
88	Ground state Lamb-shift of heavy hydrogen-like ions: status and perspectives. Hyperfine Interactions, 2006, 172, 135-140.	0.5	6
89	Inelastic electron collisions of the isotopically symmetric helium dimer ion He_2^+ in a storage ring. Physical Review A, 2008, 77, .	2.5	6
90	Beta decay of highly charged ions. Physica Scripta, 2013, T156, 014025.	2.5	6

#	ARTICLE	IF	CITATIONS
91	Half-life measurements of highly charged radionuclides. Physica Scripta, 2013, T156, 014026.	2.5	6
92	Storage ring cross section measurements for electron impact ionization of Fe ⁸⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 084006.	1.5	6
93	Dissociative recombination of CF ⁺ : Experiment and theory. Journal of Physics: Conference Series, 2009, 192, 012021.	0.4	5
94	An ultra cold photoelectron gun for the Heidelberg TSR target section. Journal of Physics: Conference Series, 2009, 192, 012025.	0.4	5
95	Few-body quantum dynamics of high- <i>Z</i> ions studied at the future relativistic high-energy storage ring. Physica Scripta, 2013, T156, 014086.	2.5	5
96	Absolute rate coefficients for photorecombination of beryllium-like and boron-like silicon ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074004.	1.5	5
97	Status and outlook of the CRYRING@ESR project. Hyperfine Interactions, 2017, 238, 1.	0.5	5
98	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
99	Transverse electron cooling of heavy molecular ions. Physical Review Accelerators and Beams, 2021, 24, .	1.6	5
100	Single and double K -shell vacancy production in slow U -Xe collisions. Physical Review A, 2022, 105, .	2.5	5
101	Experimental rate coefficient for dielectronic recombination of neonlike iron forming sodiumlike iron. Journal of Physics: Conference Series, 2009, 163, 012028.	0.4	4
102	Branching ratios in dissociative recombination of formyl and isoformyl cations. Journal of Physics: Conference Series, 2011, 300, 012004.	0.4	4
103	Ion-optical design of CRYRING@ESR. Physica Scripta, 2015, T166, 014043.	2.5	4
104	Ultra-Cold Electron Beams for the Heidelberg TSR and CSR. AIP Conference Proceedings, 2006, , .	0.4	3
105	Coherent population of magnetic sublevels of $2\{m\}_{{3/2}}$ state in hydrogenlike uranium by radiative recombination. Physica Scripta, 2015, T166, 014027.	2.5	3
106	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
107	Angular Distribution of Characteristic Radiation Following the Excitation of He-Like Uranium in Relativistic Collisions. Atoms, 2021, 9, 20.	1.6	3
108	Electron-loss-to-continuum cusp in collisions of U with N^{2+} and X	2.5	3

#	ARTICLE	IF	CITATIONS
109	Electron-ion recombination measurements of Fe7+, Fe8+, Fe13+ motivated by active galactic nuclei x-ray absorption features. Journal of Physics: Conference Series, 2007, 58, 223-226.	0.4	2
110	Anisotropic fragmentation in low-energy dissociative recombination. Journal of Physics: Conference Series, 2009, 192, 012024.	0.4	2
111	ADDENDUM: α STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ¹²⁺ FORMING Fe ¹³⁺ AND Fe ¹⁴⁺ (2011, ApJ, 735, 105). Astrophysical Journal, 2012, 761, 79.		2
112	Antiproton chain of the FAIR storage rings. Physica Scripta, 2015, T166, 014073.	2.5	2
113	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
114	Fragmentation by electron recombination for HF+ and CF+. Journal of Physics: Conference Series, 2009, 194, 062028.	0.4	1
115	Ultra Cold Photoelectron Beams for Ion Storage Rings. , 2009, , .		1
116	Dielectronic recombination of xenonlike tungsten ions. Journal of Physics: Conference Series, 2012, 388, 062028.	0.4	1
117	High-resolution dielectronic recombination experiments at the upcoming CRYRING@ESR facility. Journal of Physics: Conference Series, 2015, 635, 022084.	0.4	1
118	Electron emission spectra of U28+ ions colliding with gaseous targets. Journal of Physics: Conference Series, 2015, 635, 022049.	0.4	1
119	Proton and \hat{L} capture studies for nuclear astrophysics at GSI storage rings. Journal of Physics: Conference Series, 2017, 875, 092015.	0.4	1
120	High-resolution wavelength-dispersive spectroscopy of K-shell transitions in hydrogen-like gold. X-Ray Spectrometry, 2020, 49, 204-208.	1.4	1
121	Development of a detector to register low-energy, charge-changed ions from ionization experiments at CRYRING@ESR. Journal of Physics: Conference Series, 2020, 1412, 242003.	0.4	1
122	Spectroscopy of Ly- \hat{L} Lines at Storage Rings by Crystal Spectrometry and Absorption Edge Technique. , 2001, , 491-494.		1
123	Electron collisions with ⁴ He ₂₊ at the TSR. Journal of Physics: Conference Series, 2009, 192, 012013.	0.4	0
124	Experimental studies of electron collisions with atomic ions for astrophysical plasmas. Journal of Physics: Conference Series, 2009, 194, 062025.	0.4	0
125	Storage ring meets astrophysics: Dielectronic recombination of L-shell and M-shell iron ions. Journal of Physics: Conference Series, 2012, 388, 062029.	0.4	0
126	Electron impact ionization measurements at the Heidelberg heavy ion storage ring TSR. Journal of Physics: Conference Series, 2012, 388, 062021.	0.4	0

#	ARTICLE	IF	CITATIONS
127	ADDENDUM: ∞ STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR Mg^{7+} FORMING Mg^{8+} (2010, ApJ, 712, 1166). Astrophysical Journal, 2012, 761, 77.	4.5	0
128	ADDENDUM: ∞ STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe^{11+} FORMING Fe^{12+} AND Fe^{13+} (2011, ApJ, 729, 76). Astrophysical Journal, 2012, 761, 78.	4.5	0
129	Astrochemistry in an Ion Storage Ring. Journal of Physics: Conference Series, 2012, 388, 012012.	0.4	0
130	Towards a storage-ring measurement of the hyperfine induced $2s2p^3P^{\circ} \rightarrow 2s21S^{\circ}$ transition rate in berylliumlike sulfur. Journal of Physics: Conference Series, 2012, 388, 152004.	0.4	0
131	Dielectronic recombination of berylliumlike Si^{10+} ions at the heavy-ion storage ring TSR. Journal of Physics: Conference Series, 2014, 488, 062012.	0.4	0
132	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
133	Storage-ring measurement of the hyperfine induced $2s2p^3P^{\circ} \rightarrow 2s^2s^2p^1S^{\circ}$ transition rate in berylliumlike sulfur. Journal of Physics: Conference Series, 2014, 488, 062016.	0.4	0
134	Dielectronic recombination of boronlike Si^{9+} ions at the heavy-ion storage ring TSR. Journal of Physics: Conference Series, 2014, 488, 062011.	0.4	0
135	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 022005.	0.4	0
136	Simultaneous measurement of photorecombination and electron-impact ionization of Fe^{14+} ions. Journal of Physics: Conference Series, 2015, 635, 052002.	0.4	0
137	First observation of coherence in a highly charged ion. Journal of Physics: Conference Series, 2015, 635, 022096.	0.4	0
138	Photorecombination of berylliumlike and boronlike silicon ions. Journal of Physics: Conference Series, 2017, 875, 052005.	0.4	0
139	Status of CRYRING@ESR and preparations for first experiments. Journal of Physics: Conference Series, 2020, 1412, 232007.	0.4	0
140	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.	0.4	0
141	PERFORMANCE OF THE COLD PHOTOCATHODE GUN AT THE ELECTRON TARGET OF THE HEIDELBERG TSR. , 2005, , .		0
142	Progress in stored ion beam experiments on atomic and molecular processes. , 2007, , 111-124.		0