

Michael Lestinsky

List of Publications by Year in descending order

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142
papers

2,988
citations

172457

29
h-index

197818

49
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142
all docs

142
docs citations

142
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Single and double K -shell vacancy production in slow U^{92+} collisions with He . Physical Review A, 2022, 105, .	2.5	5
2	X-ray emission associated with radiative recombination for U^{92+} ions at threshold energies. Physical Review A, 2022, 105, .	2.5	8
3	Angular Distribution of Characteristic Radiation Following the Excitation of He-Like Uranium in Relativistic Collisions. Atoms, 2021, 9, 20.	1.6	3
4	Transverse electron cooling of heavy molecular ions. Physical Review Accelerators and Beams, 2021, 24, .	1.6	5
5	Electron-loss-to-continuum cusp in collisions of U^{92+} with N . Physical Review A, 2021, 103, .	2.5	3
6	High-resolution wavelength-dispersive spectroscopy of K -shell transitions in hydrogen-like gold. X-Ray Spectrometry, 2020, 49, 204-208.	1.4	1
7	Status of CRYRING@ESR and preparations for first experiments. Journal of Physics: Conference Series, 2020, 1412, 232007.	0.4	0
8	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
9	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
10	Electron capture of U^{92+} in collisions with He . Physical Review A, 2020, 102, .	2.5	7
11	H^{100+} molecules in the energy range between U^{92+} impact parameter sensitive study of inner-shell atomic processes in U^{92+} collisions. Journal of Physics: Conference Series, 2020, 1412, 142015.	0.4	0
12	Radiative electron capture to the continuum in U^{92+} collisions: Experiment and theory. Physical Review A, 2020, 101, .	2.5	8
13	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
14	Radiative electron capture as a tunable source of highly linearly polarized x rays. Physical Review A, 2019, 99, .	2.5	8
15	Approaching the Gamow Window with Stored Ions: Direct Measurement of $^{124}Pb(p, \gamma)^{125}Pb$ in the ESR Storage Ring. Physical Review Letters, 2019, 122, 092701.	7.8	38
16	Electron- and proton-impact excitation of heliumlike uranium in relativistic collisions. Physical Review A, 2019, 99, .	2.5	13
17	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
18	Status and outlook of the CRYRING@ESR project. Hyperfine Interactions, 2017, 238, 1.	0.5	5

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19	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
20	Proton and $\hat{L}\pm$ capture studies for nuclear astrophysics at GSI storage rings. Journal of Physics: Conference Series, 2017, 875, 092015.	0.4	1
21	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
22	Photorecombination of berylliumlike and boronlike silicon ions. Journal of Physics: Conference Series, 2017, 875, 052005.	0.4	0
23	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	2.6	101
24	Strong asymmetry of the electron-loss-to-continuum cusp of multielectron $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:msup}> \langle \text{mml:mrow}> \langle \text{mml:mi mathvariant="normal"> U} \langle \text{/mml:mi}> \langle \text{/mml:mrow}> \langle \text{mml:mrow}> \langle \text{mml:mn}> 28 \langle \text{/mml:mn}> \langle \text{mml:mo}> + \langle \text{/mml:mo}> \langle \text{mml:mrow}> \langle \text{mml:mn}> 11 \langle \text{/mml:mn}> \langle \text{/mml:mrow}> \langle \text{/mml:math}>$ in near-relativistic collisions with gaseous targets. Physical Review A, 2016, 93, .	2.5	11
25	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
26	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
27	APPA at FAIR: From fundamental to applied research. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 680-685.	1.4	41
28	Subshell-selective x-ray studies of radiative recombination of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:msup}> \langle \text{mml:mrow}> \langle \text{mml:mi mathvariant="normal"> U} \langle \text{/mml:mi}> \langle \text{/mml:mrow}> \langle \text{mml:mrow}> \langle \text{mml:mn}> 92 \langle \text{/mml:mn}> \langle \text{mml:mo}> + \langle \text{/mml:mo}> \langle \text{mml:mrow}> \langle \text{mml:mn}> 7 \langle \text{/mml:mn}> \langle \text{/mml:mrow}> \langle \text{/mml:math}>$ with electrons for very low relative energies. Physical Review A, 2015, 92, .	2.5	7
29	Antiproton chain of the FAIR storage rings. Physica Scripta, 2015, T166, 014073.	2.5	2
30	Ion-optical design of CRYRING@ESR. Physica Scripta, 2015, T166, 014043.	2.5	4
31	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
32	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 022005.	0.4	0
33	Simultaneous measurement of photorecombination and electron-impact ionization of Fe ¹⁴⁺ ions. Journal of Physics: Conference Series, 2015, 635, 052002.	0.4	0
34	First observation of coherence in a highly charged ion. Journal of Physics: Conference Series, 2015, 635, 022096.	0.4	0
35	CRYRING@ESR: present status and future research. Physica Scripta, 2015, T166, 014075.	2.5	14
36	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

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37	Storage-ring experiments on dielectronic recombination at the interface of atomic and nuclear physics. Physica Scripta, 2015, T166, 014022.	2.5	15
38	High-resolution dielectronic recombination experiments at the upcoming CRYRING@ESR facility. Journal of Physics: Conference Series, 2015, 635, 022084.	0.4	1
39	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ⁷⁺ . Astrophysical Journal, 2015, 813, 16.	4.5	12
40	Electron emission spectra of U ²⁸⁺ -ions colliding with gaseous targets. Journal of Physics: Conference Series, 2015, 635, 022049.	0.4	1
41	Electron-capture-to-continuum cusp in U^{28+} . Physical Review A, 2015, 91, .	2.5	20
42	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
43	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
44	Absolute rate coefficients for photorecombination and electron-impact ionization of magnesiumlike iron ions from measurements at a heavy-ion storage ring. Physical Review A, 2014, 90, .	2.5	15
45	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, .	2.5	25
46	Electron-loss-to-continuum cusp in U ⁸⁸⁺⁺ N ₂ collisions. Physical Review A, 2014, 90, .	2.5	17
47	Storage-ring measurement of the hyperfine induced $2s2p^3P_{0} \rightarrow 2s2p^3S_{0}$ transition rate in berylliumlike sulfur. Journal of Physics: Conference Series, 2014, 488, 062016.	0.4	0
48	ELECTRON-ION RECOMBINATION OF Fe ¹²⁺ FORMING Fe ¹¹⁺ : LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2014, 788, 46.	4.5	7
49	Observation of Coherence in the Time-Reversed Relativistic Photoelectric Effect. Physical Review Letters, 2014, 113, 113001.	7.8	28
50	SPARC collaboration: new strategy for storage ring physics at FAIR. Hyperfine Interactions, 2014, 227, 45-53.	0.5	47
51	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
52	Nuclear physics experiments with ion storage rings. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 603-616.	1.4	60
53	Probing nuclear properties by resonant atomic collisions between electrons and ions. Physica Scripta, 2013, T156, 014050.	2.5	23
54	High-resolution measurement of the time-modulated orbital electron capture and of the $1s \rightarrow 2s$ 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	11

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55	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
56	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
57	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
58	Beta decay of highly charged ions. Physica Scripta, 2013, T156, 014025.	2.5	6
59	Half-life measurements of highly charged radionuclides. Physica Scripta, 2013, T156, 014026.	2.5	6
60	Electron-impact-ionization measurements using hyperfine-assisted state preparation of ground-state berylliumlike sulfur. Physical Review A, 2012, 85, .	2.5	10
61	Storage-ring measurement of the hyperfine-induced $\langle \mathbf{L} \cdot \mathbf{S} \rangle$ transition rate in berylliumlike sulfur. Physical Review A, 2012, 85, 043402.	2.5	33
62	ELECTRON-ION RECOMBINATION OF Fe XII FORMING Fe XI: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2012, 753, 57.	4.5	19
63	Dielectronic recombination of xenonlike tungsten ions. Journal of Physics: Conference Series, 2012, 388, 062028.	0.4	1
64	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
65	Electron impact ionization measurements at the Heidelberg heavy ion storage ring TSR. Journal of Physics: Conference Series, 2012, 388, 062021.	0.4	0
66	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
67	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
68	ADDENDUM: 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.	4.5	2
69	Astrochemistry in an Ion Storage Ring. Journal of Physics: Conference Series, 2012, 388, 012012.	0.4	0
70	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
71	ELECTRON-ION RECOMBINATION OF Mg ⁶⁺ FORMING Mg ⁵⁺ AND OF Mg ⁷⁺ FORMING Mg ⁶⁺ : LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2012, 758, 40.	4.5	20
72	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

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73	Storage ring at HIE-ISOLDE. European Physical Journal: Special Topics, 2012, 207, 1-117.	2.6	101
74	Branching ratios in dissociative recombination of formyl and isoformyl cations. Journal of Physics: Conference Series, 2011, 300, 012004.	0.4	4
75	Recombination of Au ²⁰⁺ at low electron-ion collision energies. Physica Scripta, 2011, T144, 014039.	2.5	9
76	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ¹²⁺ FORMING Fe ¹³⁺ AND Fe ¹⁴⁺ . Astrophysical Journal, 2011, 735, 105.	4.5	25
77	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ¹¹⁺ FORMING Fe ¹²⁺ AND Fe ¹³⁺ . Astrophysical Journal, 2011, 729, 76.	4.5	31
78	Theory of the polarization of highly charged ions in storage rings: Production, preservation, observation and application to the search for a violation of the fundamental symmetries. Physics Reports, 2011, 507, 1-42.	25.6	20
79	SPARC: The Stored Particle Atomic Research Collaboration At FAIR. AIP Conference Proceedings, 2011, , .	0.4	24
80	Assignment of resonances in dissociative recombination of HD ⁺ ions: High-resolution measurements compared with accurate computations. Physical Review A, 2011, 84, .	2.5	15
81	N ⁴⁺ and N ⁵⁺ ions: High-resolution measurements compared with accurate computations. Physical Review A, 2011, 84, .	2.5	10
82	Dielectronic recombination of xenonlike tungsten ions. Physical Review A, 2011, 83, .	2.5	67
83	STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR Mg ⁷⁺ FORMING Mg ⁸⁺ . Astrophysical Journal, 2010, 712, 1166-1171.	4.5	20
84	High-resolution storage-ring measurements of the dissociative recombination of H ³⁺ a supersonic expansion ion source. Physical Review A, 2010, 82, .	2.5	48
85	A novel merged beams apparatus to study anion-neutral reactions. Review of Scientific Instruments, 2010, 81, 013112.	1.3	23
86	Fragmentation Channels in Dissociative Electron Recombination with Hydronium and Other Astrophysically Important Species. Journal of Physical Chemistry A, 2010, 114, 4870-4874.	2.5	25
87	ELECTRON-ION RECOMBINATION OF Fe X FORMING Fe IX AND OF Fe XI FORMING Fe X: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2009, 698, 648-659.	4.5	27
88	Dissociative recombination of CF ⁺ : Experiment and theory. Journal of Physics: Conference Series, 2009, 192, 012021.	0.4	5
89	Fragmentation by electron recombination for HF ⁺ and CF ⁺ . Journal of Physics: Conference Series, 2009, 194, 062028.	0.4	1
90	Crystal optics for hard-X-ray spectroscopy of highly charged ions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 736-743.	2.9	14

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91	Low-energy collisions with atomic and molecular ions in a photocathode electron target. Journal of Physics: Conference Series, 2009, 194, 012024.	0.4	7
92	Electron collisions with 4^+He^{2+} at the TSR. Journal of Physics: Conference Series, 2009, 192, 012013.	0.4	0
93	Observation of the $2p_{3/2} \rightarrow 2s_{1/2}$ intra-shell transition in He-like uranium. Europhysics Letters, 2009, 87, 63001.	2.0	29
94	Anisotropic fragmentation in low-energy dissociative recombination. Journal of Physics: Conference Series, 2009, 192, 012024.	0.4	2
95	An ultra cold photoelectron gun for the Heidelberg TSR target section. Journal of Physics: Conference Series, 2009, 192, 012025.	0.4	5
96	Experimental rate coefficient for dielectronic recombination of neonlike iron forming sodiumlike iron. Journal of Physics: Conference Series, 2009, 163, 012028.	0.4	4
97	Ultra Cold Photoelectron Beams for Ion Storage Rings. , 2009, , .		1
98	Experimental studies of electron collisions with atomic ions for astrophysical plasmas. Journal of Physics: Conference Series, 2009, 194, 062025.	0.4	0
99	Anisotropy and Molecular Rotation in Resonant Low-Energy Dissociative Recombination. Physical Review Letters, 2008, 100, 193201.	7.8	11
100	Inelastic electron collisions of the isotopically symmetric helium dimer ion He_2^+ in a storage ring. Physical Review A, 2008, 77, .	2.5	6
101	Screened Radiative Corrections from Hyperfine-Split Dielectronic Resonances in Lithiumlike Scandium. Physical Review Letters, 2008, 100, 033001.	7.8	82
102	Electron-ion recombination for Si^{18+} forming Si^{17+} and Si^{19+} forming Si^{18+} : measurements and theory. Astronomy and Astrophysics, 2008, 492, 265-275.	5.1	25
103	Dielectronic Recombination of Fe^{26+} Forming Fe^{25+} : Laboratory Measurements and Theoretical Calculations. Astrophysical Journal, 2007, 664, 1244-1252.	4.5	21
104	Photorecombination of berylliumlike Ti^{18+} : Hyperfine quenching of dielectronic resonances. Journal of Physics: Conference Series, 2007, 58, 137-140.	0.4	9
105	Three-body kinematical correlation in the dissociative recombination of CH_2^{2+} in a storage ring. Physical Review A, 2007, 76, .	2.5	12
106	Storage-Ring Measurement of the Hyperfine Induced $\text{Ti}^{18+} 47(2s^2 \rightarrow 2s^1 3d^1)$ Transition Rate. Physical Review Letters, 2007, 98, 033001.	7.8	75
107	Electron-ion recombination of Si^{18+} forming Si^{17+} and Si^{19+} forming Si^{18+} : Storage-ring measurement and theory. Physical Review Letters, 2008, 100, 033001.	2.5	23
108	Electron-ion recombination measurements of Fe^{7+} , Fe^{8+} , Fe^{13+} motivated by active galactic nuclei x-ray absorption features. Journal of Physics: Conference Series, 2007, 58, 223-226.	0.4	2

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109	Electron collisions and rovibrational action spectroscopy of cold H_3^+ molecules. Journal of Physics: Conference Series, 2007, 88, 012064. Radiative Electron Capture to the Continuum and the Short-Wavelength Limit of Electron-Nucleus Bremsstrahlung in 90° $\text{A} \ll \epsilon \ll \text{MeV}$	0.4	8
110	$U_{88} +$		

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127	Towards a new measurement of the decay rate of the negative positronium ion Ps^- . Nuclear Instruments & Methods in Physics Research B, 2004, 221, 185-194.	1.4	33
128	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
129	FOCAL: X-ray optics for accurate spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1535-1542.	2.9	23
130	Schemes for radiative polarization of ion beams in storage rings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 574, 180-185.	4.1	21
131	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
132	Parity-violation effect in heliumlike gadolinium and europium. Physical Review A, 2001, 63, .	2.5	75
133	Near-Threshold Photoionization of Hydrogenlike Uranium Studied in Ion-Atom Collisions via the Time-Reversed Process. Physical Review Letters, 2001, 86, 983-986.	7.8	43
134	Spectroscopy of $\text{Ly-}\frac{1}{2}$ Lines at Storage Rings by Crystal Spectrometry and Absorption Edge Technique. , 2001, , 491-494.		1
135	Simultaneous excitation and ionization of He-like uranium ions in relativistic collisions with gaseous targets. Physical Review A, 2000, 61, .	2.5	25
136	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
137	Electron bremsstrahlung in collisions of 223 MeV/uHe-like uranium ions with gaseous targets. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 2601-2609.	1.5	19
138	Application of low temperature calorimeters for precise Lamb shift measurements on hydrogen-like very heavy ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 263-265.	1.6	21
139	Measurement of the ground-state lambshift 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
140	Measurement of the 1sLamb shift in hydrogenlike nickel. Physical Review A, 1991, 43, 223-227.	2.5	45
141	Spectroscopic Study of Hydrogenlike and Heliumlike Xenon Ions. Europhysics Letters, 1989, 9, 225-230.	2.0	52
142	Observation of hydrogenlike and heliumlike krypton spectra. Zeitschrift für Physik A, 1984, 318, 1-5.	1.4	44