Michael Block

List of Publications by Year
in descending order

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Version: 2024-02-01

194 papers	5,405 citations	71102 41 h-index	98798 67 g-index
197 all docs	197 docs citations	197 times ranked	1802 citing authors

#	Article	IF	Citations
1	Alpha-gamma decay studies of ^{247}Md. European Physical Journal A, 2022, 58, 1.	2.5	4
2	Nuclear structure investigations of Es253â^'255 by laser spectroscopy. Physical Review C, 2022, 105, .	2.9	9
3	Recent progress in experiments on the heaviest nuclides at SHIP. Rivista Del Nuovo Cimento, 2022, 45, 279-323.	5.7	10
4	Advancing Radiation-Detected Resonance Ionization towards Heavier Elements and More Exotic Nuclides. Atoms, 2022, 10, 41.	1.6	3
5	Electronic Structure of Lr+ (Z = 103) from Ab Initio Calculations. Atoms, 2022, 10, 48.	1.6	6
6	Formation of two-ion crystals by injection from a Paul-trap source into a high-magnetic-field Penning trap. Physical Review A, 2022, 105, .	2.5	4
7	Five decades of GSI superheavy element discoveries and chemical investigation. Radiochimica Acta, 2022, 110, 417-439.	1.2	10
8	Resolution Characterizations of JetRIS in Mainz Using 164Dy. Atoms, 2022, 10, 57.	1.6	4
9	Recent progress in laser spectroscopy of the actinides. Progress in Particle and Nuclear Physics, 2021, 116, 103834.	14.4	30
10	Spectroscopy along Flerovium Decay Chains: Discovery of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ds</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>280</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>and an Excited State in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><m	7.8	37
11	Rapid extraction of short-lived isotopes from a buffer gas cell for use in gas-phase chemistry experiments. Part I: Off-line studies with Â219Rn and Â221Fr. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 995, 165090.	1.6	5
12	Some Remarks on the Discovery of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Md</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>244</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2021, 126, 182501.	7.8	3
13	Non-equilibrium coupling of a quartz resonator to ions for Penning-trap fast resonant detection. Quantum Science and Technology, 2021, 6, 044002.	5.8	2
14	Electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Rf</mml:mi></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:math> from ab initio calculations. Physical Review A, 2021, 104, .	2.5	5
15	Rapid extraction of short-lived isotopes from a buffer gas cell for use in gas-phase chemistry experiments, Part II: On-line studies with short-lived accelerator-produced radionuclides. Nuclear Instruments & Methods in Physics Research B, 2021, 507, 27-35.	1.4	2
16	First Study on Nihonium (Nh, Element 113) Chemistry at TASCA. Frontiers in Chemistry, 2021, 9, 753738.	3.6	12
17	A gas-jet apparatus for high-resolution laser spectroscopy on the heaviest elements at SHIP. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 272-276.	1.4	15
18	The performance of the cryogenic buffer-gas stopping cell of SHIPTRAP. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 280-285.	1.4	14

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19	A setup to develop novel Chemical Isobaric SEparation (CISE). Nuclear Instruments & Methods in Physics Research B, 2020, 463, 508-511.	1.4	3
20	The identification and confirmation of isomeric states in 254Rf and 255Rf through conversion electron detection. Nuclear Physics A, 2020, 994, 121662.	1.5	13
21	Search for Electron-Capture Delayed Fission in the New Isotope <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Md</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>244</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2020, 125, 142504.	7.8	16
22	Quartz resonators for penning traps toward mass spectrometry on the heaviest ions. Review of Scientific Instruments, 2020, 91, 093202.	1.3	4
23	Search for elements 119 and 120. Physical Review C, 2020, 102, .	2.9	41
24	K isomerism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rf</mml:mi><mml:mprescripts /><mml:none /><mml:mn>255</mml:mn></mml:mmultiscripts></mml:math> and total kinetic energy measurements for spontaneous fission of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rf</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>255</mml:mn><mml:mo>,</mml:mo><mml:mn>256</mml:mn><mml	2.9	11
25	Ion Mobilities for Heaviest Element Identification. Hyperfine Interactions, 2020, 241, 1.	0.5	2
26	Filament studies for laser spectroscopy on lawrencium. Hyperfine Interactions, 2020, 241, 1.	0.5	6
27	Simulation studies of the laser ablation ion source at the SHIPTRAP setup. Hyperfine Interactions, 2020, 241, 1.	0.5	1
28	First online operation of TRIGA-TRAP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164013.	1.6	8
29	Spectroscopic Tools Applied to Flerovium Decay Chains. Journal of Physics: Conference Series, 2020, 1643, 012125.	0.4	5
30	Isomeric States in (^{255})Rf, (^{256})Rf and (^{257})Rf. Acta Physica Polonica B, 2020, 51, 849.	0.8	2
31	The TRAPSENSOR facility: an open-ring 7 tesla Penning trap for laser-based precision experiments. New Journal of Physics, 2019, 21, 023023.	2.9	12
32	A quartz amplifier for high-sensitivity Fourier-transform ion-cyclotron-resonance measurements with trapped ions. Review of Scientific Instruments, 2019, 90, 063202.	1.3	5
33	Direct mass measurements and ionization potential measurements of the actinides. Radiochimica Acta, 2019, 107, 821-831.	1.2	7
34	Fusion reaction <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mn>48</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Bk</mml:mi><mml:mprescripts /><mml:none /><mml:mn>249</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> leading to		

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37	Alpha-gamma decay studies of 258Db and its (grand)daughter nuclei 254Lr and 250Md. European Physical Journal A, 2019, 55, 1.	2.5	6
38	Spontaneous fission of rutherfordium isotopes - total kinetic energies. EPJ Web of Conferences, 2019, 223, 01043.	0.3	0
39	Dynamics of an unbalanced two-ion crystal in a Penning trap for application in optical mass spectrometry. Physical Review A, 2019, 100, .	2.5	12
40	La course aux Ã©lÃ©ments superlourds. Pourlascience Fr, 2019, NÂ° 496 - fÃ©vrier, 28-36.	0.0	1
41	Island of Heavyweights. Scientific American, 2018, 318, 46-53.	1.0	14
42	COMPASSâ€"A COMPAct decay spectroscopy set-up. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 907, 81-89.	1.6	3
43	Low-lying states in Ra219 and Rn215 : Sampling microsecond Î± -decaying nuclei. Physical Review C, 2018, 98, .	2.9	11
44	Precision Measurement of the First Ionization Potential of Nobelium. Physical Review Letters, 2018, 120, 263003.	7.8	56
45	Online chemical adsorption studies of Hg, Tl, and Pb on SiO₂ and Au surfaces in preparation for chemical investigations on Cn, Nh, and Fl at TASCA. Radiochimica Acta, 2018, 106, 1019-1031.	1.2	9
46	Study of non-fusion products in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mmultiscripts><mml:mrow><mml:mtext>Ti</mml:mtext></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>50</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mrow><mml:mtext>Rf</mml:mtext></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>249</mml:mn></mml:mrow></mml:mmultiscripts></mml:math> reaction.	4.1	21
47	Probing Sizes and Shapes of Nobelium Isotopes by Laser Spectroscopy. Physical Review Letters, 2018, 120, 232503.	7.8	63
48	Investigation of the First Ionization Potential of Ytterbium in Argon Buffer Gas. Acta Physica Polonica B, 2018, 49, 599.	0.8	2
49	Total Kinetic Energy Measurements for Spontaneous Fission of ^{255,,256,,258}Rf. Acta Physica Polonica B, 2018, 49, 605.	0.8	2
50	Decay Spectroscopy of Heavy Isotopes at SHIP Using the COMPASS Focal Plane Detection Set-up. Acta Physica Polonica B, 2018, 49, 613.	0.8	4
51	Towards saturation of the electron-capture delayed fission probability: The new isotopes 240 Es and 236 Bk. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 265-270.	4.1	19
52	Towards high-resolution laser ionization spectroscopy of the heaviest elements in supersonic gas jet expansion. Nature Communications, 2017, 8, 14520.	12.8	90
53	Recent trends in precision measurements of atomic and nuclear properties with lasers and ion traps. Hyperfine Interactions, 2017, 238, 1.	0.5	2
54	High-precision mass measurements for the isobaric multiplet mass equation atA= 52. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 065103.	3.6	17

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55	Quantum-state-selective decay spectroscopy of Ra213. Physical Review C, 2017, 96, .	2.9	8
56	Impact of buffer gas quenching on the 1S0Âà†'Â1P1 ground-state atomic transition in nobelium. European Physical Journal D, 2017, 71, 1.	1.3	10
57	In-gas laser ionization and spectroscopy of actinium isotopes near the N=126 closed shell. Physical Review C, 2017, 96, .	2.9	27
58	Laser spectroscopy studies on nobelium. EPJ Web of Conferences, 2017, 163, 00006.	0.3	1
59	Recent Upgrades of the SHIPTRAP Setup: On the Finish Line Towards Direct Mass Spectroscopy of Superheavy Elements. Acta Physica Polonica B, 2017, 48, 423.	0.8	6
60	Mass Measurements of the Heaviest Elements. , 2017, , .		1
61	Fission in the landscape of heaviest elements: Some recent examples. EPJ Web of Conferences, 2016, 131, 03003.	0.3	13
62	Mass measurements and ion-manipulation techniques applied to the heaviest elements. EPJ Web of Conferences, 2016, 131, 05003.	0.3	2
63	Recent developments in Penning-trap mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 265-269.	1.4	6
64	The decay energy of the pure s-process nuclide 123 Te. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 407-411.	4.1	8
65	Developments towards in-gas-jet laser spectroscopy studies of actinium isotopes at LISOL. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 382-387.	1.4	20
66	Alpha- and EC-decay measurements of 257Rf. European Physical Journal A, 2016, 52, 1.	2.5	14
67	A new assessment of the alleged link between element 115 and element 117 decay chains. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 293-296.	4.1	31
68	Developments for resonance ionization laser spectroscopy of the heaviest elements at SHIP. Nuclear Instruments & Methods in Physics Research B, 2016, 383, 115-122.	1.4	26
69	Atom-at-a-time laser resonance ionization spectroscopy of nobelium. Nature, 2016, 538, 495-498.	27.8	103
70	Investigation of electron capture decay of 258Db and $alpha$ Î± decay of 258Rf. European Physical Journal A, 2016, 52, 1.	2.5	25
71	Recoil-Î±-fission and recoil-Î±â€"Î±-fission events observed in the reaction 48Ca + 243Am. Nuclear Physics A, 2016, 953, 117-138.	1.5	48
72	Isotope dependence of the Zeeman effect in lithium-like calcium. Nature Communications, 2016, 7, 10246.	12.8	82

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73	Direct Measurement of the Mass Difference of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Rg</mml:mi><mml:mprescripts /><mml:none /><mml:mn>280</mml:mn></mml:mmultiscripts><mml:mo>â†’</mml:mo><mml:mmultiscripts><mml:mi>Mt</mml:mi><mml:mprescripts /><mml:none /><mml:mn>276</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ho</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>163</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>221</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>and the Mass Surface Near<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>126</mml:mn></mml:mrow></mml:math>.	2.9	47
74		7.8	116
75		7.8	73
76	Extending the applicability of an open-ring trap to perform experiments with a single laser-cooled ion. Review of Scientific Instruments, 2015, 86, 103104.	1.3	8
77	TRIGA-SPEC: the prototype of MATS and LaSpec. Journal of Physics: Conference Series, 2015, 599, 012033.	0.4	5
78	Direct mass measurements of the heaviest elements with Penning traps. Nuclear Physics A, 2015, 944, 471-491.	1.5	24
79	Selected spectroscopic results on element 115 decay chains. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 1185-1190.	1.5	7
80	Preparatory studies for a high-precision Penning-trap measurement of the 163Ho electron capture Q-value. European Physical Journal A, 2015, 51, 1.	2.5	15
81	Comment on â€œAtomic mass compilation 2012â€•by B.ÂPfeiffer, K.ÂVenkataramaniah, U.ÂCzok, C.ÂScheidenberger. Atomic Data and Nuclear Data Tables, 2015, 103-104, 1-3.	2.4	3
82	Prospects for laser spectroscopy, ion chemistry and mobility measurements of superheavy elements in buffer-gas traps. Nuclear Physics A, 2015, 944, 492-517.	1.5	46
83	Alpha-Photon Coincidence Spectroscopy Along Element 115 Decay Chains. Acta Physica Polonica B, 2014, 45, 263.	0.8	22
84	The cryogenic gas stopping cell of SHIPTRAP. Nuclear Instruments & Methods in Physics Research B, 2014, 338, 126-138.	1.4	28
85	Direct determination of the atomic mass difference of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Re</mml:mi><mml:mprescripts /><mml:none /><mml:mn>187</mml:mn></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Os</mml:mi><mml:mprescripts /><mml:none /><mml:mn>187</mml:mn></mml:mmultiscripts></mml:math>	2.9	25
86	In situ synthesis of volatile carbonyl complexes with short-lived nuclides. Journal of Radioanalytical and Nuclear Chemistry, 2014, 303, 2457.	1.5	12
87	Perspectives for laser spectroscopy of the element nobelium. Hyperfine Interactions, 2014, 227, 69-75.	0.5	14
88	An RFQ cooler and buncher for the TRIGA-SPEC experiment. Applied Physics B: Lasers and Optics, 2014, 114, 129-136.	2.2	14
89	A phase-imaging technique for cyclotron-frequency measurements. Applied Physics B: Lasers and Optics, 2014, 114, 107-128.	2.2	81
90	Superheavy Element Flerovium (Element 114) Is a Volatile Metal. Inorganic Chemistry, 2014, 53, 1624-1629.	4.0	114

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91	On laser spectroscopy of the element nobelium (ZÂ=Â102). European Physical Journal D, 2014, 68, 1.	1.3	18
92	Direct high-precision mass measurements on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Am</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>241</mml:mn><mml:mo>,</mml:mo><mml:mn>243</mml:mn></mml:mrow></mml:mmultiscripts></mml:m	2.9	31
93	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pu</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>244</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mrow><mml:mi>Ca</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>48</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mrow><mml:mn>249</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>Fusion	7.8	220
94	Spectroscopic Tools Applied to Element Z = 115 Decay Chains. EPJ Web of Conferences, 2014, 66, 02036.	0.3	8
95	High-Precision Mass Measurements of Radionuclides with Penning Traps. Springer Tracts in Modern Physics, 2014, , 223-251.	0.1	2
96	Direct mass measurements of the heaviest elements with Penning traps. International Journal of Mass Spectrometry, 2013, 349-350, 94-101.	1.5	11
97	Status of the project TRAPSENSOR: Performance of the laser-desorption ion source. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 522-527.	1.4	8
98	Phase-Imaging Ion-Cyclotron-Resonance Measurements for Short-Lived Nuclides. Physical Review Letters, 2013, 110, 082501.	7.8	141
99	High-precision mass measurements of 203-207Rn and 213Ra with SHIPTRAP. European Physical Journal A, 2013, 49, 1.	2.5	11
100	Spectroscopy of Element 115 Decay Chains. Physical Review Letters, 2013, 111, 112502.	7.8	122
101	Data analysis of Q-value measurements for double-electron capture with SHIPTRAP. European Physical Journal D, 2013, 67, 1.	1.3	27
102	Schaleneffekte in den schwersten Elementen. Physik in Unserer Zeit, 2013, 44, 9-10.	0.0	0
103	Recent developments for high-precision mass measurements of the heaviest elements at SHIPTRAP. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 501-505.	1.4	8
104	Extending Penning trap mass measurements with SHIPTRAP to the heaviest elements. , 2013, , .		0
105	Nuclear Structure of Heavy N = 153 Isotones. Acta Physica Polonica B, 2013, 44, 387.	0.8	1
106	Title is missing!. Acta Physica Polonica B, 2012, 43, 305.	0.8	10
107	Evidence for hindrance in fusion between sulfur and lead nuclei. Physical Review C, 2012, 86, .	2.9	24
108	Direct mass measurements of cadmium and palladium isotopes and their double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>transition<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>values. Physical Review C, 2012, 85, .	2.9	12

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109	Double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>transformations in isobaric triplets with mass numbers<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="bold">A</mml:mi><mml:mo>=</mml:mo><mml:mn mathvariant="bold">124</mml:mn></mml:mrow></mml:math>, 130, and 136. Physical Review C, 2012, 86, .	2.9	33
110	Direct Mapping of Nuclear Shell Effects in the Heaviest Elements. Science, 2012, 337, 1207-1210.	12.6	121
111	The reaction 48Ca + 248Cm â†’ 296116* studied at the GSI-SHIP. European Physical Journal A, 2012, 48, 1.	2.5	179
112	Qvalue and half-life of double-electron capture in184Os. Physical Review C, 2012, 86, .	2.9	16
113	High-precision method of measuring short-lived nuclides by means of developed systems of ion traps for high-charge ions (MATS project). Atomic Energy, 2012, 112, 139-146.	0.4	1
114	Targets on superhydrophobic surfaces for laser ablation ion sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 676, 84-89.	1.6	3
115	Probing the nuclide 180W for neutrinoless double-electron capture exploration. Nuclear Physics A, 2012, 875, 1-7.	1.5	27
116	Mass measurements on stable nuclides in the rare-earth region with the Penning-trap mass spectrometer TRIGA-TRAP. Physical Review C, 2011, 84, .	2.9	13
117	Octupolar-Excitation Penning-Trap Mass Spectrometry for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>-Value Measurement of Double-Electron Capture in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ba</mml:mi><mml:mprescripts /><mml:none	7.8	57
118	First superheavy element experiments at the GSI recoil separator TASCA: The production and decay of element 114 in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Pu</mml:mi><mml:mprescripts /><mml:none		

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127	Damping effects in Penning trap mass spectrometry. International Journal of Mass Spectrometry, 2011, 299, 102-112.	1.5	17
128	First investigation of phase-shifted Ramsey excitation in Penning trap mass spectrometry. International Journal of Mass Spectrometry, 2011, 303, 27-30.	1.5	8
129	Investigation of the magnetic field fluctuation and implementation of a temperature and pressure stabilization at SHIPTRAP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 632, 157-163.	1.6	24
130	Mass Measurements of Very Neutron-Deficient Mo and Tc Isotopes and Their Impact on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi><mml:mi>p</mml:mi></mml:math>Process Nucleosynthesis. Physical Review Letters, 2011, 106, 122501.	7.8	46
131	display="inline"><mml:msup><mml:mrow /><mml:mn>102</mml:mn></mml:msup></mml:math>Pd,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>106</mml:mn></mml:msup></mml:math>Cd, and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>	2.9	45
132	Multiple-resonance phenomenon in neutrinoless double-electron capture. Physical Review C, 2011, 84, .	2.9	44
133	High-precision Penning trap mass measurements of â€˜difficultâ€™ elements produced via projectile fragmentation with LEBIT. , 2011, , 251-259.		0
134	Collimated-hole structures as efficient differential pumping barrier, one-way valve and tool for aligning Penning traps. , 2011, , 321-326.		0
135	Accuracy studies with carbon clusters at the Penning trap mass spectrometer TRIGA-TRAP. European Physical Journal D, 2010, 58, 47-52.	1.3	14
136	MATS and LaSpec: High-precision experiments using ion traps and lasers at FAIR. European Physical Journal: Special Topics, 2010, 183, 1-123.	2.6	76
137	Penning trap mass measurements of transfermium elements with SHIPTRAP. Hyperfine Interactions, 2010, 196, 225-231.	0.5	4
138	Transport of fission products with a helium gas-jet at TRIGA-SPEC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 226-231.	1.6	19
139	Schwergewichte auf der Waage. Physik in Unserer Zeit, 2010, 41, 215-216.	0.0	1
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