

Iain D Moore

List of Publications by Year in descending order

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289
papers

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298
all docs

298
docs citations

298
times ranked

1944
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#	ARTICLE	IF	CITATIONS
1	First Offline Results from the S3 Low-Energy Branch. <i>Atoms</i> , 2022, 10, 21.	1.6	6
2	Benchmark of a multi-physics Monte Carlo simulation of an ion guide for neutron-induced fission products. <i>European Physical Journal A</i> , 2022, 58, 1.	2.5	3
3	High-precision spectroscopy study of ^{119}Sn and $^{119}\text{Sn}^+$ using collinear laser spectroscopy. <i>Physical Review Letters</i> , 2022, 128, 152501.	2.9	3
4	First trap-assisted decay spectroscopy of the ^{81}Ge ground state. <i>European Physical Journal A</i> , 2022, 58, 1.	2.5	1
5	Impact of Nuclear Deformation and Pairing on the Charge Radii of Palladium Isotopes. <i>Physical Review Letters</i> , 2022, 128, 152501.	7.8	10
6	Observation of Collisional De-Excitation Phenomena in Plutonium. <i>Atoms</i> , 2022, 10, 40.	1.6	2
7	High-precision measurement of a low Q value for allowed β^+ -decay of ^{131}I related to neutrino mass determination. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 830, 137135.	4.1	7
8	High-precision electron-capture Q value measurement of ^{111}In for electron-neutrino mass determination. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 832, 137226.	4.1	5
9	Measurement of the atomic mass difference of the pairs ^{76}Ge and $^{76}\text{Ge}^+$ using collinear laser spectroscopy. <i>Physical Review Letters</i> , 2022, 128, 152501.	2.9	6
10	Mass measurements towards doubly magic ^{78}Ni : Hydrodynamics versus nuclear mass contribution in core-collapse supernovae. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 833, 137309.	4.1	5
11	Separation of atomic and molecular ions by ion mobility with an RF carpet. <i>International Journal of Mass Spectrometry</i> , 2021, 459, 116450.	1.5	2
12	Magnetic octupole moment of ^{173}Yb using collinear laser spectroscopy. <i>Physical Review A</i> , 2021, 103, 052501.	2.5	11
13	Measurement of the atomic mass difference of the pairs ^{72}Ge and $^{72}\text{Ge}^+$ using collinear laser spectroscopy. <i>Physical Review Letters</i> , 2022, 128, 152501.	2.9	4
14	Evidence of a sudden increase in the nuclear size of proton-rich silver-96. <i>Nature Communications</i> , 2021, 12, 4596.	12.8	19
15	Proton-neutron pairing correlations in the self-conjugate nucleus ^{42}Sc . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 819, 136439.	4.1	10
16	Electron-Capture: A New Candidate for Neutrino Mass Determination. <i>Physical Review Letters</i> , 2021, 127, 272301.	7.8	15
17	Removal of molecular contamination in low-energy RIBs by the isolation-dissociation-isolation method. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 463, 324-326.	1.4	8
18	A new off-line ion source facility at IGISOL. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 463, 382-383.	1.4	13

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19	Upgrades to the collinear laser spectroscopy experiment at the IGISOL. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 437-440.	1.4	19
20	Characterization of ²³³ U alpha recoil sources for ²²⁹ Th beam production. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 441-448.	1.4	3
21	The MARA-LEB ion transport system. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 286-289.	1.4	4
22	Three beta-decaying states in ¹²⁸ In and ¹³⁰ In resolved for the first time using Penning-trap techniques. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135642.	4.1	18
23	Radioactive ion beam manipulation at the IGISOL-4 facility. EPJ Web of Conferences, 2020, 239, 17002.	0.3	2
24	Fission studies at IGISOL/JYFLTRAP: Simulations of the ion guide for neutron-induced fission and comparison with experimental data. EPJ Web of Conferences, 2020, 239, 17019.	0.3	0
25	Gas cell studies of thorium using filament dispensers at IGISOL. Nuclear Instruments & Methods in Physics Research B, 2020, 484, 59-70.	1.4	3
26	Determination of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -decay ground state feeding of nuclei of importance for reactor applications. Physical Review C, 2020, 102, .	2.9	6
27	Publisher's Note: QEC value of the superallowed \hat{I}^2 emitter Sc42 [Phys. Rev. C 95 , 025501 (2017)]. Physical Review C, 2020, 102, .	2.9	0
28	Mass and half-life measurements of neutron-deficient iodine isotopes. European Physical Journal A, 2020, 56, 1.	2.5	2
29	Precision mass measurements of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mi} \rangle Q \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -value Measurement Confirms the Potential of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Cs} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:math} \rangle$	2.9	14
30	Collinear laser spectroscopy of stable palladium isotopes at the IGISOL facility. Hyperfine Interactions, 2020, 241, 1.	0.5	3
31	Exploring the mass surface near the rare-earth abundance peak via precision mass measurements at JYFLTRAP. Physical Review C, 2020, 101, .	2.9	22
32	On the performance of wavelength meters: Part 1 "consequences for medium-to-high-resolution laser spectroscopy. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	20
33	Precision mass measurements of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mprescripts} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Co} \langle \text{mml:mprescripts} \rangle \langle \text{mml:math} \rangle$	2.9	13
34	Alternative approach to populate and study the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Th} \langle \text{mml:mprescripts} \rangle \langle \text{mml:math} \rangle$ nuclear clock isomer. Physical Review C, 2019, 100, .	2.9	19
35	The science case of the FRS Ion Catcher for FAIR Phase-0. Hyperfine Interactions, 2019, 240, 1.	0.5	6
36	The MORA project. Hyperfine Interactions, 2019, 240, 1.	0.5	8

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37	High-resolution, accurate multiple-reflection time-of-flight mass spectrometry for short-lived, exotic nuclei of a few events in their ground and low-lying isomeric states. Physical Review C, 2019, 99, .	2.9	8
38	High-resolution, accurate multiple-reflection time-of-flight mass spectrometry for short-lived, exotic nuclei of a few events in their ground and low-lying isomeric states. Physical Review C, 2019, 99, .	2.9	32
39	Summation Calculations for Reactor Antineutrino Spectra, Decay Heat and Delayed Neutron Fractions Involving New TAGS Data and Evaluated Databases. EPJ Web of Conferences, 2019, 211, 01001.	0.3	1
40	A novel method for the measurement of half-lives and decay branching ratios of exotic nuclei. European Physical Journal A, 2019, 55, 1.	2.5	5
41	First \hat{I}^2 -decay scheme of Nb107 : New insight into the low-energy levels of Mo107. Physical Review C, 2019, 100, .	2.9	4
42	Isomeric fission yield ratios for odd-mass Cd and In isotopes using the phase-imaging ion-cyclotron-resonance technique. Physical Review C, 2019, 99, .	2.9	17
43	Large impact of the Decay of Niobium Isomers on the Reactor Antineutrino Spectra. Physical Review Letters, 2019, 122, 042502.	7.8	29
44	Total absorption \hat{I}^3 -ray spectroscopy of niobium isomers. Physical Review C, 2019, 100, .	2.9	8
45	Excited states in Br87 populated in \hat{I}^2 decay of Se87. Physical Review C, 2019, 100, .	2.9	5
46	Measurement of the ground-state transition in the \hat{I}^2 decay of ^{87}Se . Physical Review C, 2019, 100, .	2.9	19
47	Decay transition of ^{87}Se to ^{87}Br . Physical Review C, 2019, 100, .	7.8	36
48	High-precision mass measurements and production of neutron-deficient isotopes using heavy-ion beams at IGISOL. Physical Review C, 2019, 100, .	2.9	9
49	Isotope shifts from collinear laser spectroscopy of doubly charged yttrium isotopes. Physical Review A, 2018, 97, .	2.5	22
50	Production of Sn and Sb isotopes in high-energy neutron-induced fission of natU. European Physical Journal A, 2018, 54, 1.	2.5	5
51	Rotational excitation of the Hoyle state in ^{12}C . Journal of Physics: Conference Series, 2018, 940, 012043.	0.4	1
52	Measurement of fission yields and isomeric yield ratios at IGISOL. EPJ Web of Conferences, 2018, 169, 00017.	0.3	0
53	Status and development of the MARA low-energy branch. AIP Conference Proceedings, 2018, , .	0.4	1
54	Resonant Ionization Spectroscopy Technique Becomes Tabletop Friendly. Physics Magazine, 2018, 11, .	0.1	0

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55	New insights into triaxiality and shape coexistence from odd-mass Rh109. Physical Review C, 2018, 98, .	2.9	3
56	Characterization and performance of the DTAS detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 910, 79-89.	1.6	17
57	Phase-Imaging Ion-Cyclotron-Resonance technique at the JYFLTRAP double Penning trap mass spectrometer. European Physical Journal A, 2018, 54, 1.	2.5	52
58	First isomeric yield ratio measurements by direct ion counting and implications for the angular momentum of the primary fission fragments. Physical Review C, 2018, 98, .	2.9	17
59	First determination of \hat{I}^2 -delayed multiple neutron emission beyond A=100 through direct neutron measurement: The P2n value of Sb136. Physical Review C, 2018, 98, .	2.9	9
60	A facility for production and laser cooling of cesium isotopes and isomers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 908, 367-375.	1.6	2
61	Precision Mass Measurements on Neutron-Rich Rare-Earth Isotopes at JYFLTRAP: Reduced Neutron Pairing and Implications for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle r \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Process Calculations. Physical Review Letters, 2018, 120, 262701.	7.8	46
62	Excited levels in the multishaped Pd117 nucleus studied via \hat{I}^2 decay of Rh117. Physical Review C, 2018, 98, .	2.9	6
63	Development of two-color resonance ionization scheme for Th using an automated wide-range tunable Ti:sapphire laser system. Progress in Nuclear Science and Technology, 2018, 5, 97-99.	0.3	6
64	Towards high-resolution laser ionization spectroscopy of the heaviest elements in supersonic gas jet expansion. Nature Communications, 2017, 8, 14520.	12.8	90
65	Efficient, high-resolution resonance laser ionization spectroscopy using weak transitions to long-lived excited states. Physical Review A, 2017, 95, .	2.5	32
66	Total absorption $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{I}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -ray spectroscopy of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -delayed neutron emitters $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle Q \langle \text{mml:mi} \rangle \langle \text{mml:text} \rangle E_0 \langle \text{mml:text} \rangle \langle \text{mml:msub} \rangle$	2.9	35
67	value of the superallowed $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ emitter $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle Sc \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle$	2.9	5
68	Precise measurements of half-lives and branching ratios for the $\$ \text{ eta} \$ \hat{I}^2$ mirror transitions in the decay of 23Mg and 27Si. European Physical Journal A, 2017, 53, 1.	2.5	3
69	High-precision mass measurements for the isobaric multiplet mass equation at $\langle i \rangle A \langle /i \rangle = 52$. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 065103.	3.6	17
70	Characterization of a cylindrical plastic \hat{I}^2 -detector with Monte Carlo simulations of optical photons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 854, 134-138.	1.6	2
71	Penning-trap-assisted study of excitations in Br88 populated in \hat{I}^2 decay of Se88. Physical Review C, 2017, 95, .	2.9	6
72	Internal conversion from excited electronic states of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle Th \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 229 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ ions. Physical Review A, 2017, 95, .	2.5	16

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73	High-resolution laser spectroscopy of long-lived plutonium isotopes. Physical Review A, 2017, 95, .	2.5	19
74	A neutron source for IGISOL-JYFLTRAP: Design and characterisation. European Physical Journal A, 2017, 53, 1.	2.5	10
75	Characterization of a pulsed injection-locked Ti:sapphire laser and its application to high resolution resonance ionization spectroscopy of copper. Laser Physics, 2017, 27, 085701.	1.2	33
76	Total absorption spectroscopy study of the ^{86}Br decay of ^{86}Br and ^{86}Br β -ray spectroscopy. Physical Review C, 2017, 96, .	2.9	29
77	Experimental study of ^{100}Tc β -decay with total absorption β -ray spectroscopy. Physical Review C, 2017, 96, .	2.9	15
78	In-gas laser ionization and spectroscopy of actinium isotopes near the N=126 closed shell. Physical Review C, 2017, 96, .	2.9	27
79	Shape coexistence in the odd-odd nucleus ^{98}Y : The role of the $g_{9/2}$ neutron intruder. Physical Review C, 2017, 96, .	2.9	16
80	Development of a saturated absorption spectroscopy setup at IGISOL for characterisation of Fabry-Pérot interferometers. Hyperfine Interactions, 2017, 238, 1.	0.5	2
81	Laser spectroscopy with an electrostatic ConeTrap. Hyperfine Interactions, 2017, 238, 1.	0.5	1
82	Measurements of isomeric yield ratios of fission products from proton-induced fission on ^{235}U and ^{232}Th via direct ion counting. EPJ Web of Conferences, 2017, 146, 04054.	0.3	4
83	Simulations of the stopping efficiencies of fission ion guides. EPJ Web of Conferences, 2017, 146, 03025.	0.3	0
84	Total absorption spectroscopy of fission fragments relevant for reactor antineutrino spectra. EPJ Web of Conferences, 2017, 146, 10002.	0.3	2
85	Strong β -ray emission from neutron unbound states populated in β -decay: Impact on (n, β) cross-section estimates. EPJ Web of Conferences, 2017, 146, 01002.	0.3	2
86	TAGS measurements of ^{100}Nb ground and isomeric states and ^{140}Cs for neutrino physics with the new DTAS detector. EPJ Web of Conferences, 2017, 146, 10010.	0.3	2
87	New accurate measurements of neutron emission probabilities for relevant fission products. EPJ Web of Conferences, 2017, 146, 01004.	0.3	3
88	Measurement of the heaviest β -delayed 2-neutron emitter: ^{136}Sb . EPJ Web of Conferences, 2017, 146, 01005.	0.3	0
89	Total absorption studies of high priority decays for reactor applications: ^{86}Br and ^{91}Rb . EPJ Web of Conferences, 2017, 146, 10001.	0.3	1
90	First Evidence of Multiple β -delayed Neutron Emission for Isotopes with $A > 100$. Acta Physica Polonica B, 2017, 48, 517.	0.8	1

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109	Rate capability of a cryogenic stopping cell for uranium projectile fragments produced at 1000 MeV/u. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 240-245.	1.4	11
110	Laser spectroscopy for nuclear structure physics. Progress in Particle and Nuclear Physics, 2016, 86, 127-180.	14.4	221
111	Total Absorption Spectroscopy of Fission Fragments Relevant for Reactor Antineutrino Spectra Determination. Acta Physica Polonica B, 2016, 47, 755.	0.8	1
112	Evidence for Increased neutron and proton excitations between 51 ⁺ 63 Mn. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 176-180.	4.1	17
113	Spins and magnetic moments of ^{56}Mn . Total Absorption Spectroscopy Study of ^{60}Co and ^{62}Zn . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 744, 137-141.	2.9	11
114	Decay of ^{92}Rb . A Major Contributor to Reactor Antineutrino Spectrum Shape. Physical Review Letters, 2015, 115, 062502.	7.8	68
115	and the onset of deformation at ^{109}Pd . Enhanced ^{13}I -Ray Emission from Neutron Unbound States Populated in ^{12}I Decay. Physical Review Letters, 2015, 115, 062502.	2.9	5
116	Enhanced ^{13}I -Ray Emission from Neutron Unbound States Populated in ^{12}I Decay. Physical Review Letters, 2015, 115, 062502.	7.8	37
117	An inductively heated hot cavity catcher laser ion source. Review of Scientific Instruments, 2015, 86, 123501.	1.3	3
118	Intracavity Frequency Doubling and Difference Frequency Mixing for Pulsed ns Ti:Sapphire Laser Systems at On-Line Radioactive Ion Beam Facilities. , 2015, , .		11
119	Simulations of the fission-product stopping efficiency in IGISOL. European Physical Journal A, 2015, 51, 1.	2.5	19
120	Recent Advances in On-Line Laser Spectroscopy. Nuclear Physics News, 2015, 25, 12-18.	0.4	0
121	Collinear Laser Spectroscopy on Neutron-rich Mn Isotopes Approaching $N=40$. Acta Physica Polonica B, 2015, 46, 699.	0.8	3
122	First spatial separation of a heavy ion isomeric beam with a multiple-reflection time-of-flight mass spectrometer. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 137-141.	4.1	38
123	Design, construction and cooling system performance of a prototype cryogenic stopping cell for the Super-FRS at FAIR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 770, 87-97.	1.6	32
124	Super-Allowed ^{23}Mg Studied with a High-Precision Germanium Detector. , 2015, , .		0
125	Gamma/neutron competition above the neutron separation energy in delayed neutron emitters. EPJ Web of Conferences, 2014, 66, 02002.	0.3	3
126	Results of fission products ^{12}I decay properties measurement performed with a total absorption spectrometer. EPJ Web of Conferences, 2014, 66, 10019.	0.3	2

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127	Isomeric Yield Ratios of Fission Products Measured with the JYFLTRAP. Acta Physica Polonica B, 2014, 45, 211.	0.8	1
128	Gas purification studies at IGISOL-4. Hyperfine Interactions, 2014, 227, 169-180.	0.5	6
129	Characterization of a dual-etalon Ti:sapphire laser via resonance ionization spectroscopy of stable copper isotopes. Hyperfine Interactions, 2014, 227, 113-123.	0.5	11
130	Recent developments in collinear laser spectroscopy with relevance for LASPEC. Hyperfine Interactions, 2014, 227, 125-130.	0.5	1
131	Decay heat studies for nuclear energy. Hyperfine Interactions, 2014, 223, 245-252.	0.5	5
132	Production of pure ^{133m}Xe for CTBTO. Hyperfine Interactions, 2014, 223, 239-243.	0.5	1
133	The IGISOL technique—three decades of developments. Hyperfine Interactions, 2014, 223, 17-62.	0.5	34
134	New Beta-delayed Neutron Measurements in the Light-mass Fission Group. Nuclear Data Sheets, 2014, 120, 74-77.	2.2	15
135	Total Absorption Study of Beta Decays Relevant for Nuclear Applications and Nuclear Structure. Nuclear Data Sheets, 2014, 120, 12-15.	2.2	9
136	An IGISOL portrait. Hyperfine Interactions, 2014, 223, 1-3.	0.5	2
137	Laser spectroscopy at IGISOL IV. Hyperfine Interactions, 2014, 227, 139-145.	0.5	4
138	The FRS Ion Catcher — A facility for high-precision experiments with stopped projectile and fission fragments. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 457-462.	1.4	97
139	Recommissioning of JYFLTRAP at the new IGISOL-4 facility. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 506-509.	1.4	21
140	The FURIOS laser ion source at IGISOL-4. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 422-425.	1.4	4
141	Towards commissioning the new IGISOL-4 facility. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 208-213.	1.4	102
142	Electron capture on ^{116}In and implications for nuclear structure related to double- β decay. Physical Review C, 2013, 87, .	2.9	8
143	Isomeric states close to doubly magic ^{132}Sn studied with the double Penning trap JYFLTRAP. Physical Review C, 2013, 87, .	2.9	45
144	Production of pure samples of ^{131m}Xe and ^{135}Xe . Applied Radiation and Isotopes, 2013, 71, 34-36.	1.5	6

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145	Development of high resolution resonance ionization mass spectrometry for trace analysis of ^{93m} Nb. Hyperfine Interactions, 2013, 216, 41-46.	0.5	6
146	Development of resonance ionization in a supersonic gas-jet for studies of short-lived and long-lived radioactive nuclei. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 586-589.	1.4	4
147	First experimental results of a cryogenic stopping cell with short-lived, heavy uranium fragments produced at 1000 MeV/u. Europhysics Letters, 2013, 104, 42001.	2.0	36
148	The Total Absorption Spectroscopy technique for reactor technology and basic nuclear physics. , 2013, , .		0
149	Total absorption study of the β decay of ¹⁰² Mo. Physical Review C, 2013, 87, .	2.9	36
150	Measurement of fission products ¹³² I decay properties using a total absorption spectrometer. EPJ Web of Conferences, 2013, 62, 01007.	0.3	0
151	Total absorption β -ray spectroscopy of beta delayed neutron emitters. , 2013, , .		0
152	The IGISOL technique—three decades of developments. , 2013, , 15-60.		0
153	INDEPENDENT ISOTOPIC FISSION YIELD STUDIES WITH JYFLTRAP. , 2013, , .		0
154	Trap-assisted separation of nuclear states for gamma-ray spectroscopy: the example of ¹⁰⁰ Nb. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015101.	3.6	9
155	Precision Mass Measurements beyond ¹³² Sn: Anomalous Behavior of Odd-Even Staggering of Binding Energies. Physical Review Letters, 2012, 109, 032501.	7.8	74
156	Structure of ¹¹⁵ Ag studied by β decays of ¹¹⁵ Pd and ¹¹⁵ Pd. Physical Review C, 2012, 86, .	2.9	6
157	Low-spin excitations in the ¹⁰⁹ Tc nucleus. Physical Review C, 2012, 86, .	2.9	10
158	Nuclear mean-square charge radii of ⁶³ Ni, ⁶⁴ Ni, ⁶⁶ Ni nuclei: No anomalous behavior at ⁶⁶ Ni. Physical Review C, 2012, 86, .	2.9	24
159	Laser spectroscopy of gallium isotopes beyond <i>Z</i> = 50. Journal of Physics: Conference Series, 2012, 381, 012071.	0.4	10
160	Characterization of a cryogenic ion guide at IGISOL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 685, 70-77.	1.6	8
161	Laser developments and resonance ionization spectroscopy at IGISOL. European Physical Journal A, 2012, 48, 1.	2.5	22
162	JYFLTRAP: a Penning trap for precision mass spectrometry and isobaric purification. European Physical Journal A, 2012, 48, 1.	2.5	118

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163	Determination of the ground-state hyperfine structure in neutral ^{229}Th . Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 165005.	1.5	12
164	Performance of a high repetition pulse rate laser system for in-gas-jet laser ionization studies with the Leuven laser ion source @ LISOL. Nuclear Instruments & Methods in Physics Research B, 2012, 291, 29-37.	1.4	28
165	Precision half-life determination of a mirror \hat{I}^2 transition: The decay of ^{31}S . European Physical Journal A, 2012, 48, 1.	2.5	10
166	Fission yield studies at the IGISOL facility. European Physical Journal A, 2012, 48, 1.	2.5	20
167	An IGISOL portrait " Selected contributions. European Physical Journal A, 2012, 48, 1.	2.5	9
168	The search for the existence of $^{229\text{m}}\text{Th}$ at IGISOL. European Physical Journal A, 2012, 48, 1.	2.5	30
169	JYFLTRAP: a Penning trap for precision mass spectroscopy and isobaric purification. , 2012, , 61-81.		1
170	Production of pure $^{133\text{m}}\text{Xe}$ for CTBTO. , 2012, , 373-377.		0
171	Decay heat studies for nuclear energy. , 2012, , 379-386.		0
172	Fission yield studies at the IGISOL facility. , 2012, , 101-111.		0
173	Laser developments and resonance ionization spectroscopy at IGISOL. , 2012, , 295-309.		0
174	Ground-state spins and moments of ^{229}Th and $^{229\text{m}}\text{Th}$ nuclei. Physical Review C, 2011, 84, .	2.9	32
175	First Measurements with the BEta deLayEd Neutron Detector (BELEN-20) at JYFLTRAP. Journal of Physics: Conference Series, 2011, 312, 052008.	0.4	15
176	Resonance ionization spectroscopy of thorium isotopes "towards a laser spectroscopic identification of the low-lying 7.6 eV isomer of ^{229}Th . Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 165005.	1.5	32
177	Precision half-life and Q -value measurement of the super-allowed η emitter ^{30}S . European Physical Journal A, 2011, 47, 1.	2.5	17
178	Penning-trap-assisted study of ^{115}Ru beta decay. European Physical Journal A, 2011, 47, 1.	2.5	9
179	Precision mass measurements of neutron-rich Y, Nb, Mo, Tc, Ru, Rh, and Pd isotopes. European Physical Journal A, 2011, 47, 1.	2.5	22
180	Gas jet studies towards an optimization of the IGISOL LIST method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, 24-34.	1.6	22

#	ARTICLE	IF	CITATIONS
181	Precise and accurate determination of the B decay spectrum. Decay study of ^{114}Tc with a Penning trap. Physical Review C, 2011, 83, .	2.9	24
182	Decay study of ^{114}Tc with a Penning trap. Physical Review C, 2011, 83, .	2.9	12
183	EC values of the superallowed ^{114}Tc emitters. Physical Review C, 2011, 83, .	2.9	0
184	EC values of the superallowed ^{114}Tc emitters. Physical Review C, 2011, 83, .	2.9	0
185	EC values of the superallowed ^{114}Tc emitters. Physical Review C, 2011, 83, .	2.9	25
186	Signatures of oblate deformation in the ^{111}Tc nucleus. Physical Review C, 2011, 84, .	2.9	15
187	TAS measurements for reactor physics and nuclear structure. , 2011, , .		0
188	Improvements on Decay Heat Summation Calculations by Means of Total Absorption Gamma-ray Spectroscopy Measurements. Journal of the Korean Physical Society, 2011, 59, 1479-1482.	0.7	2
189	Beta Decay Studies of Neutron Rich Nuclei Using Total Absorption Gamma-ray Spectroscopy and Delayed Neutron Measurements. Journal of the Korean Physical Society, 2011, 59, 1499-1502.	0.7	6
190	Monte Carlo Simulations for the Study of a Moderated Neutron Detector. Journal of the Korean Physical Society, 2011, 59, 1573-1576.	0.7	7
191	The Possibilities of the Extended IGISOL Facility at JYFL. Journal of the Korean Physical Society, 2011, 59, 1589-1592.	0.7	3
192	Determining isotopic distributions of fission products with a Penning trap. European Physical Journal A, 2010, 44, 147-168.	2.5	30
193	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
194	Status of the LASER-IGISOL collaboration at the University of Jyväskylä. Hyperfine Interactions, 2010, 196, 143-150.	0.5	11
195	Ground state properties of manganese isotopes across the shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 346-351.	4.1	53
196	A study of on-line gas cell processes at IGISOL. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 657-670.	1.4	18
197	Ultra-high resolution mass separator Application to detection of nuclear weapons tests. Applied Radiation and Isotopes, 2010, 68, 450-453.	1.5	17
198	Nuclear spin determination of ^{100}mY by collinear laser spectroscopy of optically pumped ions. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 105103.	3.6	29

#	ARTICLE	IF	CITATIONS
199	<p>Excited States and Moments of Ga Isotopes Reveal Sudden Structural Changes between $N=40$ and $N=50$. Physical Review Letters, 2010, 105, 155001.</p> <p>Discovery of a long-lived low-lying isomeric state in ^{115}Ga. Physical Review Letters, 2010, 105, 155001.</p>	7.8	154
200	<p>Mass measurements in the vicinity of the doubly magic waiting point ^{115}Ga. Physical Review Letters, 2010, 105, 155001.</p>	2.9	35
201	<p>Excited states in ^{115}Pd populated in the ^{212}Po decay of ^{115}Rh. Physical Review C, 2010, 82, .</p>	2.9	22
202	<p>Mass measurements in the vicinity of the doubly magic waiting point ^{115}Ni. Physical Review Letters, 2010, 105, 155001.</p>	2.9	38
203	<p>Discovery of a long-lived low-lying isomeric state in ^{115}Ga. Physical Review Letters, 2010, 105, 155001.</p>	2.9	32
204	<p>New isomer and decay half-life of ^{115}Ru. Physical Review C, 2010, 82, .</p>	2.9	14
205	<p>Mass measurements in the vicinity of the doubly magic waiting point ^{115}Pu. Physical Review Letters, 2010, 105, 155001.</p>	7.8	107
206	<p>Matrix analysis of the ^{115}Rb decays of ^{115}Rb. Physical Review Letters, 2010, 105, 155001.</p>	2.9	59
207	<p>Status of the LASER-IGISOL collaboration at the University of Jyväskylä. , 2010, , 143-150.</p>		0
208	<p>Selected properties of nuclei at the magic shell closures from the studies of E1, M1 and E2 transition rates. , 2009, , .</p>		0
209	<p>Quenching of the SnSbTe Cycle in the r-p Process. Physical Review Letters, 2009, 102, 252501.</p>	7.8	77
210	<p>Mass of ^{23}Al for testing the isobaric multiplet mass equation. Physical Review C, 2009, 80, .</p>	2.9	39
211	<p>QEC Values of the Superallowed ^2E Emitters ^{34}Cl and ^{38}K. Physical Review Letters, 2009, 103, 252501.</p>	7.8	42
212	<p>Laser Spectroscopy of Niobium Fission Fragments: First Use of Optical Pumping in an Ion Beam Cooler Buncher. Physical Review Letters, 2009, 102, 222501.</p>	7.8	88
213	<p>Event Mode Data Acquisition for Characterization of Samples Containing Radioactive Particles. IEEE Transactions on Nuclear Science, 2009, 56, 1444-1447.</p>	2.0	3
214	<p>Half-life, branching-ratio, and Q-value measurement for the superallowed $0^+ \rightarrow 0^+$ emitter ^{42}Ti. Physical Review C, 2009, 80, .</p>	2.9	35
215	<p>Mass and ^{115}Ga and ^{115}Ge. Physical Review Letters, 2010, 105, 155001.</p>	2.9	23
216	<p>Mass and ^{115}Si and ^{115}P. Physical Review Letters, 2010, 105, 155001.</p>	2.9	48

#	ARTICLE	IF	CITATIONS
217	<p>channels for C.</p> $C > 12$	2.9	21
218	Systematic studies of the accuracy of the Penning trap mass spectrometer JYFLTRAP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 612, 97-102.	1.6	32
219	Nuclear charge radii of molybdenum fission fragments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 23-27.	4.1	83
220	Precise branching ratios to unbound ^{12}C states from ^{12}N and ^{12}B β^2 -decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 459-464.	4.1	41
221	Light-ion-induced reactions in mass measurements of neutron-deficient nuclides close to $A = 100$. European Physical Journal A, 2009, 40, 1-9.	2.5	31
222	A hot cavity laser ion source at IGISOL. European Physical Journal A, 2009, 42, 509.	2.5	15
223	Laser pumping of ions in a cooler buncher. Hyperfine Interactions, 2008, 181, 107-110.	0.5	2
224	The decay of ^{133}mXe . Applied Radiation and Isotopes, 2008, 66, 530-534.	1.5	10
225	Off-line studies of the laser ionization of yttrium at the IGISOL facility. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 681-700.	1.4	29
226	Development of a carbon-cluster ion source for JYFLTRAP. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4425-4428.	1.4	12
227	Towards on-line production of $N=Z94\text{Ag}$ at IGISOL. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4420-4424.	1.4	7
228	New concepts for the ion guide technique. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4434-4441.	1.4	25
229	Cryogenic helium as stopping medium for high-energy ions. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4488-4492.	1.4	13
230	Upgrade and yields of the IGISOL facility. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4454-4459.	1.4	21
231	A sextupole ion beam guide to improve the efficiency and beam quality at IGISOL. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4794-4807.	1.4	112
232	Beta-decay branching ratios of ^{62}Ga . European Physical Journal A, 2008, 36, 121-126.	2.5	16
233	Precise half-life measurement of the ^{26}Si ground state. European Physical Journal A, 2008, 37, 151-158.	2.5	26
234	Mass Measurements and Implications for the Energy of the High-Spin Isomer in ^{94}Ag . Physical Review Letters, 2008, 101, 142503.	7.8	39

#	ARTICLE	IF	CITATIONS
235	<p>Mass measurements in the vicinity of the Q_{EC} values of the Superallowed $0^+ \rightarrow 0^+$ β decays of ^{54}Mn and ^{54}Co. Physical Review Letters, 2008, 100, 132502.</p>	7.8	1
236	<p>Evolution of the $7^+ \rightarrow 8^+$ states in ^{122}Cd. Physical Review C, 2008, 77, .</p>	2.9	119
237	<p>Lifetime measurements of the negative-parity 7^+ and 8^+ states in ^{122}Cd. Physical Review C, 2008, 77, .</p>	2.9	17
238	<p>Electron-capture branch of ^{122}Cd. Physical Review C, 2008, 77, .</p>	2.9	21
239	<p>QEC Values of the Superallowed $0^+ \rightarrow 0^+$ β Emitters ^{54}Mn and ^{54}Co. Physical Review Letters, 2008, 100, 132502.</p>	7.8	70
240	<p>Evolution of the $7^+ \rightarrow 8^+$ states in ^{122}Cd. Physical Review C, 2008, 77, .</p>	7.8	147
241	<p>Gap Energy towards ^{122}Cd. Physical Review Letters, 2008, 101, 052502.</p>		0
242	<p>Laser pumping of ions in a cooler buncher. , 2008, , 627-630.</p>		0
243	<p>LASER SPECTROSCOPY AND THE NATURE OF THE SHAPE TRANSITION AT $N \approx 60$. , 2008, , .</p>		0
244	<p>Precision mass measurements of neutron-rich yttrium and niobium isotopes. Nuclear Physics A, 2007, 793, 20-39.</p>	1.5	74
245	<p>The shape transition in the neutron-rich yttrium isotopes and isomers. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 645, 133-137.</p>	4.1	92
246	<p>On the decrease in charge radii of multi-quasi particle isomers. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 645, 330-334.</p>	4.1	35
247	<p>Precise atomic masses of neutron-rich Br and Rb nuclei close to the r-process path. European Physical Journal A, 2007, 32, 87-96.</p>	2.5	56
248	<p>Penning trap assisted decay spectroscopy of neutron-rich ^{115}Ru. European Physical Journal A, 2007, 31, 263-266.</p>	2.5	26
249	<p>Masses of neutron-rich Ni and Cu isotopes and the shell closure at $Z = 28$, $N = 40$. European Physical Journal A, 2007, 34, 5-9.</p>	2.5	82
250	<p>LIST developments at IGISOL. European Physical Journal: Special Topics, 2007, 150, 283-284.</p>	2.6	8
251	<p>Independent fission yields with JYFLTRAP. European Physical Journal: Special Topics, 2007, 150, 317-318.</p>	2.6	6
252	<p>Precision mass measurements of radioactive nuclei at JYFLTRAP. European Physical Journal: Special Topics, 2007, 150, 349-352.</p>	2.6	5
252	<p>Exploring the reactor heat problem: Study of the beta decay of $^{104,105}\text{Tc}$ using the TAS technique. European Physical Journal: Special Topics, 2007, 150, 383-384.</p>	2.6	3

#	ARTICLE	IF	CITATIONS
253	Upgrade to the IGISOL laser ion source towards spectroscopy on Tc. , 2007, , 121-126.		0
254	\hat{I}^2 -decay data requirements for reactor decay heat calculations: study of the possible source of the gamma-ray discrepancy in reactor heat summation calculations. , 2007, , .		0
255	Resonance ionization spectroscopy of bismuth at the IGISOL facility. , 2007, , 135-141.		0
256	Investigation of the low-lying isomer in ^{229}Th by collinear laser spectroscopy. , 2007, , 197-201.		0
257	Retention of Pb isotopes in glass surfaces for retrospective assessment of radon exposure. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 544-547.	1.4	8
258	An ion guide for the production of a low energy ion beam of daughter products of \hat{I}^\pm -emitters. Nuclear Instruments & Methods in Physics Research B, 2006, 252, 347-353.	1.4	14
259	Q-value of the superallowed \hat{I}^2 decay of ^{62}Ga . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 636, 191-196.	4.1	45
260	Excited states in ^{31}S studied via beta decay of ^{31}Cl . European Physical Journal A, 2006, 27, 67-75.	2.5	29
261	Mass measurements of neutron-deficient nuclides close to $A = 80$ with a Penning trap. European Physical Journal A, 2006, 29, 271-280.	2.5	72
262	Laser Ion Source Project at IGISOL. Hyperfine Interactions, 2006, 162, 39-43.	0.5	8
263	Investigation of the low-lying isomer in ^{229}Th by collinear laser spectroscopy. Hyperfine Interactions, 2006, 171, 197-201.	0.5	11
264	Resonance ionization spectroscopy of bismuth at the IGISOL facility. Hyperfine Interactions, 2006, 171, 135-141.	0.5	12
265	Upgrade to the IGISOL laser ion source towards spectroscopy on Tc. Hyperfine Interactions, 2006, 171, 121-126.	0.5	6
266	Precision experiments on exotic nuclei at IGISOL. International Journal of Mass Spectrometry, 2006, 251, 204-211.	1.5	64
267	Nuclear structure effects probed by precision atomic mass measurements. AIP Conference Proceedings, 2006, , .	0.4	0
268	Laser Ion Source Development at IGISOL. AIP Conference Proceedings, 2006, , .	0.4	10
269	First Precision Mass Measurements of Refractory Fission Fragments. Physical Review Letters, 2006, 96, 042504.	7.8	112
270	QValues of the Superallowed \hat{I}^2 Emitters ^{26}Al , ^{42}Sc , and ^{46}V and Their Impact on ν and the Unitarity of the Cabibbo-Kobayashi-Maskawa Matrix. Physical Review Letters, 2006, 97, 232501.	7.8	59

#	ARTICLE	IF	CITATIONS
271	Model independent determination of the spin of the Ta180 naturally occurring isomer. Physical Review C, 2006, 74, .	2.9	16
272	Publisher's Note: First Precision Mass Measurements of Refractory Fission Fragments [Phys. Rev. Lett.96, 042504 (2006)]. Physical Review Letters, 2006, 96, .	7.8	2
273	New ion-guide for the production of beams of neutron-rich nuclei between Z=20-28. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 546, 418-425.	1.6	10
274	Beta-delayed gamma and proton spectroscopy near the Z = N line. European Physical Journal A, 2005, 25, 129-130.	2.5	13
275	Production of beams of neutron-rich nuclei between Ca and Ni using the ion-guide technique. European Physical Journal A, 2005, 25, 749-750.	2.5	0
276	Performance of IGISOL 3. European Physical Journal A, 2005, 25, 745-747.	2.5	32
277	Development of a laser ion source at IGISOL. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1499-S1502.	3.6	61
278	β^2 -decay of O13. Physical Review C, 2005, 72, .	2.9	12
279	Nuclear charge radii of neutron deficient titanium isotopes 44Ti and 45Ti. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 1089-1098.	3.6	37
280	Counting Individual Ca41 Atoms with a Magneto-Optical Trap. Physical Review Letters, 2004, 92, 153002.	7.8	28
281	Towards measuring the charge radius of 6He and 8He. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 536-539.	1.4	7
282	Cooling and bunching of ion beams for collinear laser spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 563-569.	1.4	31
283	Towards ultrahigh sensitivity analysis of 41Ca. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 701-704.	1.4	6
284	First results from laser spectroscopy on bunched radioactive beams from the JYFL ion-beam cooler. , 2003, , 75-78.		0
285	On-Line Ion Cooling and Bunching for Collinear Laser Spectroscopy. Physical Review Letters, 2002, 88, 094801.	7.8	160
286	First results from laser spectroscopy on bunched radioactive beams from the JYFL ion-beam cooler. European Physical Journal A, 2002, 15, 45-48.	2.5	34
287	Progress of laser spectroscopy at the IGISOL. , 2000, 127, 83-90.		3
288	Nuclear moments and charge radii of the 171Hf ground state and isomer. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 839-847.	3.6	19

#	ARTICLE	IF	CITATIONS
289	Nuclear moments and charge radii of bismuth isotopes. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 1829-1848.	3.6	46