

Thomas Day Goodacre

List of Publications by Year in descending order

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59
papers

1,149
citations

430874

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414414

32
g-index

62
all docs

62
docs citations

62
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionization Scheme Development for the ISOLDE RILIS. Springer Theses, 2021, , 65-94. Laser Spectroscopy of Neutron-Rich Hg	0.1	0
2	Isotopes: Illuminating the Kink and Odd-Even Staggering in Charge Radii across the N shell closure. Physical Review C, 2021, 104, .	7.8	27
3	In-Source Resonance Ionization Spectroscopy of Mercury. Springer Theses, 2021, , 95-106. First I^2 -decay spectroscopy of In	0.1	0
4	Large Shape Staggering in Neutron-Deficient Bi Isotopes. Physical Review Letters, 2021, 127, 192501.	2.9	5
5	Charge radii, moments, and masses of mercury isotopes across the N shell closure. Physical Review C, 2021, 104, .	2.9	10
6	Offline target and ion source studies for TRIUMF-ARIEL. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 464-467.	1.4	2
7	Multiphysics simulation of a FEBIAD ion source. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 302-304.	1.4	3
8	UCx target production at TRIUMF in the ARIEL era. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 367-370.	1.4	2
9	Material development towards a solid 100 kW electron-gamma converter for TRIUMF-ARIEL. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 232-236.	1.4	3
10	Laser-assisted decay spectroscopy for the ground states of Au	2.9	10
11	I^2 -delayed fission of isomers in Bi188. Physical Review C, 2020, 102, .	2.9	7
12	Detailed spectroscopy of doubly magic Sn	2.9	10
13	Hyperfine anomaly in gold and magnetic moments of Au gold isomers. Physical Review C, 2020, 101, .	2.9	10
14	I^2 -decay branching ratio of Pt	2.9	2
15	In-source laser photoionization spectroscopy of Bi isotopes: accuracy of the technique and methods of data analysis. Hyperfine Interactions, 2020, 241, 1.	0.5	3
16	Measurement and microscopic description of odd-even staggering of charge radii of exotic copper isotopes. Nature Physics, 2020, 16, 620-624.	16.7	76
17	Fine structure in the I^\pm decay of At218. Physical Review C, 2019, 99, .	2.9	5

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19	Inverse odd-even staggering in nuclear charge radii and possible octupole collectivity in At _{217,218,219} revealed by in-source laser spectroscopy. <i>Physical Review C</i> , 2019, 99, .	2.9	13
20	Shape staggering of midshell mercury isotopes from in-source laser spectroscopy compared with density-functional-theory and Monte Carlo shell-model calculations. <i>Physical Review C</i> , 2019, 99, .	2.9	43
21	High-resolution and low-background ^{163}Ho spectrum: interpretation of the resonance tails. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	15
22	Measurement of the ^{77}Ge cross section at thermal energy. <i>Physical Review C</i> , 2019, 99, .	2.9	9
23	Production, isolation and characterization of radiochemically pure ^{163}Ho samples for the ECHO-project. <i>Radiochimica Acta</i> , 2018, 106, 535-547.	1.2	10
24	Laser-spectroscopy studies of the nuclear structure of neutron-rich radium. <i>Physical Review C</i> , 2018, 97, .	2.9	21
25	Development of a proton-to-neutron converter for radioisotope production at ISAC-TRIUMF. <i>Journal of Physics: Conference Series</i> , 2018, 1067, 082022.	0.4	2
26	Direct observation of Mg^{2+} complexes in ionic liquid solutions by ^{31}Mg \hat{I}^2 -NMR spectroscopy. <i>Dalton Transactions</i> , 2018, 47, 14431-14435.	3.3	12
27	Target and Ion Source Development for Better Beams in the ARIEL Era. <i>Journal of Physics: Conference Series</i> , 2018, 1067, 052019.	0.4	1
28	Change in structure between the $\hat{I}^{-1/2}$ states in ^{181}Tl and $^{177,179}\text{Au}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 786, 355-363.	4.1	22
29	Characterization of the shape-staggering effect in mercury nuclei. <i>Nature Physics</i> , 2018, 14, 1163-1167.	16.7	106
30	Radium ionization scheme development: The first observed autoionizing states and optical pumping effects in the hot cavity environment. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 150, 99-104.	2.9	3
31	Charge radii and electromagnetic moments of ^{195}Au and ^{211}Po . <i>Physical Review C</i> , 2018, 97, .	2.9	35
32	Enhancing the extraction of laser-ionized beams from an arc discharge ion source volume. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 431, 59-66.	1.4	14
33	Precision mass measurements of ^{58}Cr and ^{63}Cr . <i>Physical Review C</i> , 2018, 97, .	7.8	40
34	Investigation of Low-lying States in ^{133}Sn Populated in the β Decay of ^{133}In Using Isomer-selective Laser Ionization. <i>Acta Physica Polonica B</i> , 2018, 49, 523.	0.8	4
35	The identification of autoionizing states of atomic chromium for the resonance ionization laser ion source of the ISOLDE radioactive ion beam facility. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 129, 58-63.	2.9	7
36	Spectroscopy of the long-lived excited state in the neutron-deficient nuclides ^{195}Po and ^{197}Po by precision mass measurements. <i>Physical Review C</i> , 2017, 96, .	2.9	15

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37	Penning-trap mass spectrometry and mean-field study of nuclear shape coexistence in the neutron-deficient lead region. Physical Review C, 2017, 96, .	2.9	15
38	Quadrupole moment of ^{203}Fr . Physical Review C, 2017, 96, .	2.9	10
39	Laser photodetachment of radioactive ^{128}I . Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 104003.	2.9	41
40	Penning-trap mass spectrometry and mean-field study of nuclear shape coexistence in the neutron-deficient lead region. Physical Review C, 2017, 95, .	3.6	13
41	RILIS-ionized mercury and tellurium beams at ISOLDE CERN. Hyperfine Interactions, 2017, 238, 1.	2.9	12
42	RILIS-ionized mercury and tellurium beams at ISOLDE CERN. Hyperfine Interactions, 2017, 238, 1.	0.5	11
43	Resonance ionization scheme development for europium. Hyperfine Interactions, 2017, 238, 1.	0.5	1
44	Ion beam production and study of radioactive isotopes with the laser ion source at ISOLDE. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 084006.	3.6	97
45	The electron capture in ^{163}Ho experiment $\hat{\epsilon}$ ECHo. European Physical Journal: Special Topics, 2017, 226, 1623-1694.	2.6	97
46	The CERN/ISOLDE Laser Ion Source. , 2017, , .		0
47	Changes in nuclear structure along the Mn isotopic chain studied via charge radii. Physical Review C, 2016, 94, .	2.9	23
48	Laser and decay spectroscopy of the short-lived isotope ^{214}Fr in the vicinity of the shell closure. Physical Review C, 2016, 94, .	2.9	15
49	The ^{68}mCu / ^{68}Cu isotope as a new probe for hyperfine studies: The nuclear moments. Europhysics Letters, 2016, 115, 62002.	2.0	7
50	High-resolution laser spectroscopy with the Collinear Resonance Ionisation Spectroscopy (CRIS) experiment at CERN-ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 284-287.	1.4	16
51	Quadrupole moments of odd-A $^{53}\sim^{63}\text{Mn}$: Onset of collectivity towards N = 40. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 387-392.	4.1	21
52	Combined high-resolution laser spectroscopy and nuclear decay spectroscopy for the study of the low-lying states in ^{206}Fr , ^{202}At , and ^{198}Bi . Physical Review C, 2016, 93, .	2.9	14
53	Laser resonance ionization scheme development for tellurium and germanium at the dual Ti:Sa $\hat{\epsilon}$ Dye ISOLDE RILIS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 510-514.	1.6	9
54	Advances in surface ion suppression from RILIS: Towards the Time-of-Flight Laser Ion Source (ToF-LIS). Nuclear Instruments & Methods in Physics Research B, 2016, 376, 86-90.	1.4	6

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55	Recent Results for the ECHo Experiment. Journal of Low Temperature Physics, 2016, 184, 910-921.	1.4	17
56	Laser ion beam production at CERN-ISOLDE: New features “ More possibilities. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 91-96.	1.4	38
57	Blurring the boundaries between ion sources: The application of the RILIS inside a FEBIAD type ion source at ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 39-45.	1.4	22
58	RILIS applications at CERN/ISOLDE. Hyperfine Interactions, 2014, 227, 101-111.	0.5	10
59	New developments of the in-source spectroscopy method at RILIS/ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 550-556.	1.4	47