

Thomas Day Goodacre

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7898557/publications.pdf>

Version: 2024-02-01

59
papers

1,149
citations

430874

18
h-index

414414

32
g-index

62
all docs

62
docs citations

62
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the shape-staggering effect in mercury nuclei. Nature Physics, 2018, 14, 1163-1167.	16.7	106
2	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
3	The electron capture in ^{163}Ho experiment â€“ ECHO. European Physical Journal: Special Topics, 2017, 226, 1623-1694.	2.6	97
4	Measurement and microscopic description of oddâ€“even staggering of charge radii of exotic copper isotopes. Nature Physics, 2020, 16, 620-624.	16.7	76
5	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
6	Shape staggering of midshell mercury isotopes from in-source laser spectroscopy compared with density-functional-theory and Monte Carlo shell-model calculations. Physical Review C, 2019, 99, .	2.9	43
7	Dipole and quadrupole moments of ^{73}Cu and ^{78}Cu . Physical Review C, 2019, 99, .	2.9	41
8	Precision Mass Measurements of ^{78}Cr and ^{58}Cr . Physical Review Letters, 2019, 123, 082501.	7.8	40
9	Nuclear Collectivity Towards the Island of Inversion in ^{40}Ni . Nuclear Instruments & Methods in Physics Research B, 2016, 376, 91-96.	1.4	38
10	Laser Spectroscopy of Neutron-Rich ^{207}Hg and ^{208}Hg . Physical Review Letters, 2018, 121, 082501.	7.8	37
11	Isotopes: Illuminating the Kink and Odd-Even Staggering in Charge Radii across the ^{195}At and ^{211}At . Physical Review C, 2018, 97, .	2.9	35
12	Large Shape Staggering in Neutron-Deficient Bi Isotopes. Physical Review Letters, 2021, 127, 192501.	7.8	27
13	Hyperfine anomaly in gold and magnetic moments of ^{197}Au and ^{199}Au gold isomers. Physical Review C, 2020, 101, .	2.9	24
14	Changes in nuclear structure along the Mn isotopic chain studied via charge radii. Physical Review C, 2016, 94, .	2.9	23
15	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
16	Change in structure between the $\lambda = 1/2$ states in ^{181}Tl and $^{177,179}\text{Au}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 355-363.	4.1	22
17	Quadrupole moments of odd-A ^{53}Mn to ^{63}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
18	Laser-spectroscopy studies of the nuclear structure of neutron-rich radium. Physical Review C, 2018, 97, .	2.9	21

#	ARTICLE	IF	CITATIONS
19	Recent Results for the ECHo Experiment. Journal of Low Temperature Physics, 2016, 184, 910-921.	1.4	17
20	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
21	Laser and decay spectroscopy of the short-lived isotope ^{214}Fr in the vicinity of the $N=126$ shell. Spectroscopy of the long-lived excited state in the neutron-deficient nuclides ^{126}N by precision mass measurements. Physical Review C, 2017, 96, .	2.9	15
22	Laser and decay spectroscopy of the short-lived isotope ^{195}Po in the vicinity of the $N=126$ shell. Spectroscopy of the long-lived excited state in the neutron-deficient nuclides ^{195}Po by precision mass measurements. Physical Review C, 2017, 96, .	2.9	15
23	Laser and decay spectroscopy of the short-lived isotope ^{31}Ga in the vicinity of the $N=28$ shell. Spectroscopy of the long-lived excited state in the neutron-deficient nuclides ^{31}Ga by precision mass measurements. Physical Review C, 2017, 96, .	2.9	15
24	High-resolution and low-background ^{163}Ho spectrum: interpretation of the resonance tails. European Physical Journal C, 2019, 79, 1.	3.9	15
25	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
26	Enhancing the extraction of laser-ionized beams from an arc discharge ion source volume. Nuclear Instruments & Methods in Physics Research B, 2018, 431, 59-66.	1.4	14
27	Laser photodetachment of radioactive $^{128}\text{I}^{\sim}$. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 104003.	3.6	13
28	Inverse odd-even staggering in nuclear charge radii and possible octupole collectivity in ^{217}At , ^{218}At , ^{219}At revealed by in-source laser spectroscopy. Physical Review C, 2019, 99, .	2.9	13
29	Penning-trap mass spectrometry and mean-field study of nuclear shape coexistence in the neutron-deficient lead region. Physical Review C, 2017, 95, .	2.9	12
30	Direct observation of Mg^{2+} complexes in ionic liquid solutions by ^{31}Mg \hat{I}^2 -NMR spectroscopy. Dalton Transactions, 2018, 47, 14431-14435.	3.3	12
31	RILIS-ionized mercury and tellurium beams at ISOLDE CERN. Hyperfine Interactions, 2017, 238, 1.	0.5	11
32	RILIS applications at CERN/ISOLDE. Hyperfine Interactions, 2014, 227, 101-111.	0.5	10
33	Quadrupole moment of ^{203}Fr . Physical Review C, 2017, 96, .	2.9	10
34	Production, isolation and characterization of radiochemically pure ^{163}Ho samples for the ECHo-project. Radiochimica Acta, 2018, 106, 535-547.	1.2	10
35	Laser-assisted decay spectroscopy for the ground states of ^{180}Au and ^{182}Au . Physical Review C, 2020, 102, .	2.9	10
36	Detailed spectroscopy of doubly magic ^{132}Sn . Physical Review C, 2020, 102, .	2.9	10

#	ARTICLE	IF	CITATIONS
37	Charge radii, moments, and masses of mercury isotopes across the shell closure. <i>Physical Review C</i> , 2021, 104, .		
38	Laser resonance ionization scheme development for tellurium and germanium at the dual Ti:Sa "Dye ISOLDE RILIS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 830, 510-514.	1.6	9
39	Measurement of the cross section at thermal energy. <i>Physical Review C</i> , 2019, 99, .	2.9	9
40	The ^{68}mCu / ^{68}Cu isotope as a new probe for hyperfine studies: The nuclear moments. <i>Europhysics Letters</i> , 2016, 115, 62002.	2.0	7
41	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
42	\hat{I}^2 -delayed fission of isomers in Bi188. <i>Physical Review C</i> , 2020, 102, .	2.9	7
43	Advances in surface ion suppression from RILIS: Towards the Time-of-Flight Laser Ion Source (ToF-LIS). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 376, 86-90.	1.4	6
44	Fine structure in the \hat{I}^{\pm} decay of At218. <i>Physical Review C</i> , 2019, 99, .	2.9	5
45	First \hat{I}^2 -decay spectroscopy of \ln^{135} and new \hat{I}^2 -decay branches of \ln^{135} .	2.9	5
46	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
47	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
48	Multiphysics simulation of a FEBIAD ion source. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 463, 302-304.	1.4	3
49	Material development towards a solid 100 kW electron-gamma converter for TRIUMF-ARIEL. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 463, 232-236.	1.4	3
50	In-source laser photoionization spectroscopy of Bi isotopes: accuracy of the technique and methods of data analysis. <i>Hyperfine Interactions</i> , 2020, 241, 1.	0.5	3
51	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
52	Offline target and ion source studies for TRIUMF-ARIEL. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 463, 464-467.	1.4	2
53	UCx target production at TRIUMF in the ARIEL era. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 463, 367-370.	1.4	2
54	\hat{I}^{\pm} -decay branching ratio of Pt^{180} . <i>Physical Review C</i> , 2020, 101, .	2.9	2

#	ARTICLE	IF	CITATIONS
55	Resonance ionization scheme development for europium. <i>Hyperfine Interactions</i> , 2017, 238, 1.	0.5	1
56	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
57	Ionization Scheme Development for the ISOLDE RILIS. <i>Springer Theses</i> , 2021, , 65-94.	0.1	0
58	In-Source Resonance Ionization Spectroscopy of Mercury. <i>Springer Theses</i> , 2021, , 95-106.	0.1	0
59	The CERN/ISOLDE Laser Ion Source. , 2017, , .		0