Wouter Gins

List of Publications by Year
in descending order

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48	951	430874	477307
papers	citations	18 h-index	29 g-index

50	50	50	716
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards high-resolution laser ionization spectroscopy of the heaviest elements in supersonic gas jet expansion. Nature Communications, 2017, 8, 14520.	12.8	90
2	Laser Spectroscopy of Neutron-Rich Tin Isotopes: A Discontinuity in Charge Radii across the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>82</mml:mn></mml:math> Shell Closure. Physical Review Letters, 2019, 122, 192502.	7.8	81
3	Measurement and microscopic description of oddâ€“even staggering of charge radii of exotic copper isotopes. Nature Physics, 2020, 16, 620-624.	16.7	76
4	Isomer Shift and Magnetic Moment of the Long-Lived<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo stretchy="false">]</mml:mo><mml:msup><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msup></mml:math>Isomer in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:msub><mml:mrow><mml:mi>Zn</mml:mi></mml:mrow><mml:mr /><mml:mrow><mml. Physical Review Letters, 2016, 116, 182502.	7.8	51
5	Analysis of counting data: Development of the SATLAS Python package. Computer Physics Communications, 2018, 222, 286-294.	7.5	42
6	Evolution of nuclear structure in neutron-rich odd-Zn isotopes and isomers. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 385-391.	4.1	30
7	Charge Radius of the Short-Lived <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>68</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> and Correlation with the Dipole Polarizability. Physical Review Letters, 2020, 124, 132502.	7.8	30
8	In-gas laser ionization and spectroscopy of actinium isotopes near the N=126 closed shell. Physical Review C, 2017, 96, .	2.9	27
9	Nuclear Charge Radii of the Nickel Isotopes <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>58</mml:mn><mml:mo>â”</mml:mo><mml:mn>68</mml:mn><mml:mo>,</mml:mo><mml:mn>70</mml:mn></mml Physical Review Letters, 2022, 128, 022502.	7.8	27
10	Structural trends in atomic nuclei from laser spectroscopy of tin. Communications Physics, 2020, 3, .	5.3	24
11	Changes in nuclear structure along the Mn isotopic chain studied via charge radii. Physical Review C, 2016, 94, .	2.9	23
12	Nuclear charge radii of 62â˜80Zn and their dependence on cross-shell proton excitations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134805.	4.1	23
13	Precision measurements of the charge radii of potassium isotopes. Physical Review C, 2019, 100, .	2.9	22
14	Nuclear moments of indium isotopes reveal abrupt change at magic number 82. Nature, 2022, 607, 260-265.	27.8	22
15	Quadrupole moments of odd-A 53â˜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
16	Laser-spectroscopy studies of the nuclear structure of neutron-rich radium. Physical Review C, 2018, 97, .	2.9	21
17	Simulation of the relative atomic populations of elements 1â€¯â‰â€¯Zâ€¯â‰89 following charge exchange tested with collinear resonance ionization spectroscopy of indium. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 153, 61-83.	2.9	21
18	Analytic response relativistic coupled-cluster theory: the first application to indium isotope shifts. New Journal of Physics, 2020, 22, 012001.	2.9	21

#	Article	IF	Citations
19	Evidence of a sudden increase in the nuclear size of proton-rich silver-96. Nature Communications, 2021, 12, 4596.	12.8	19
20	Evidence for Increased neutron and proton excitations between 51â˜63 Mn. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 176-180.	4.1	17
21	High-Precision Multiphoton Ionization of Accelerated Laser-Ablated Species. Physical Review X, 2018, 8, .	8.9	17
22	High-resolution laser spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Al</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>27</mml:mn><mml:mo>â€“</mml:mo><mml:mn>32</mml:mn></mml:mrow></mml:mmultiscripts></mml:m Physical Review C, 2021, 103, .	2.9	17
23	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
24	Probing the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ga</mml:mi><mml:mprescripts /><mml:mn>31</mml:mn><mml:none /></mml:mmultiscripts></mml:math> ground-state properties in the region near <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>28</mml:m display="inline"><mml:mrow><mml:mmultiscripts><mml:mi>Dy</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>159</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Electron-Capture: A New Candidate for Neutrino Mass Determination. Physical Review Letters, 2021, 127, 272301.	2.9	15
25		7.8	15
26	Development of a sensitive setup for laser spectroscopy studies of very exotic calcium isotopes. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 044003.	3.6	13
27	Optimising the Collinear Resonance Ionisation Spectroscopy (CRIS) experiment at CERN-ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 384-389.	1.4	13
28	Characterization of Supersonic Gas Jets for High-Resolution Laser Ionization Spectroscopy of Heavy Elements. Physical Review X, 2018, 8, .	8.9	12
29	Direct measurement of the mass difference of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>As</mml:mi><mml:mprescripts /><mml:none /><mml:mn>72</mml:mn></mml:mmultiscripts><mml:mtext>â˜’</mml:mtext><mml:mmultiscripts><mml:mi>Ge</mml:mi><mml:mpr /><mml:none /><mml:mn>72</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> rules out	2.9	12
30	Spins and magnetic moments of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Mn</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>58</mml:mn><mml:mo>,</mml:mo><mml:mn>60</mml:mn><mml:mo>,</mml:mo><mml:mn>62</mml:mn> states and isomers. Physical Review C, 2015, 92, .	2.9	11
31	Quadrupole moment of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Fr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>203</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2017, 96, .	2.9	10
32	A new beamline for laser spin-polarization at ISOLDE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 925, 24-32.	1.6	10
33	Impact of Nuclear Deformation and Pairing on the Charge Radii of Palladium Isotopes. Physical Review Letters, 2022, 128, 152501.	7.8	10
34	New laser polarization line at the ISOLDE facility. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 084005.	3.6	9
35	Investigating the large deformation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:mo>/</mml:mo><mml:msup><mm isomeric state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Zn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>73</mml:mn></mml:mmultiscripts></mml:math> : An indicator for triaxiality. Physical Review C, 2018, 97, .	2.9	9
36	Nuclear moments of the low-lying isomeric 1+ state of 34Al: Investigation on the neutron 1p1h excitation across Nâ€¯=â€¯20 in the island of inversion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 619-626.	4.1	8

#	Article	IF	Citations
37	The MORA project. Hyperfine Interactions, 2019, 240, 1.	0.5	8
38	Doubly-magic character of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>132</mml:mn></mml:mmultiscripts></mml:math> studied via electromagnetic moments of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>133</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2020, 102,	2.9	8
39	Resonance ionization schemes for high resolution and high efficiency studies of exotic nuclei at the CRIS experiment. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 398-402.	1.4	7
40	High-precision measurement of a low Q value for allowed Î²âˆ’-decay of 131I related to neutrino mass determination. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137135.	4.1	7
41	Direct determination of the atomic mass difference of the pairs <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>As</mml:mi><mml:mprescripts /><mml:none /><mml:mn>76</mml:mn></mml:mmultiscripts><mml:mtext>âˆ’</mml:mtext><mml:mmultiscripts><mml:mi>Se</mml:mi><mml:mprescripts /><mml:none /><mml:mn>76</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> and <mml:math	2.9	6
42	High-accuracy liquid-sample <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e101" altimg="si42.svg"><mml:mi>Î²</mml:mi></mml:math>-NMR setup at ISOLDE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1020, 165862.	1.6	4
43	Collinear Laser Spectroscopy on Neutron-rich Mn Isotopes Approaching $N=40$. Acta Physica Polonica B, 2015, 46, 699.	0.8	3
44	A simple decay-spectroscopy station at CRIS-ISOLDE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 844, 14-18.	1.6	3
45	Radium ionization scheme development: The first observed autoionizing states and optical pumping effects in the hot cavity environment. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 150, 99-104.	2.9	3
46	A compact RFQ cooler buncher for CRIS experiments. Hyperfine Interactions, 2019, 240, 1.	0.5	3
47	Collinear laser spectroscopy of stable palladium isotopes at the IGISOL facility. Hyperfine Interactions, 2020, 241, 1.	0.5	3
48	Magnetic Moments of Short-Lived Nuclei with Part-per-Million Accuracy: Toward Novel Applications of Î² -Detected NMR in Physics, Chemistry, and Biology. Physical Review X, 2020, 10, .	8.9	2