Adrian A Valverde

List of Publications by Year
in descending order

36 papers	382 citations	759233 12 h-index	888059 17 g-index
40 all docs	40 docs citations	40 times ranked	384 citing authors

#	Article	IF	Citations
1	Measurement of the direct double-$β$-decay$Q$value of<math xmlns="http://www.w3.org/1998/Math/MathML"><mmultiscripts><mi mathvariant="normal">Zr</mi><mprescripts /><mnone	2.9	34
2	High-Precision Mass Measurement of <math xmlns="http://www.w3.org/1998/Math/MathML" display="inline"><mrow><mmultiscripts><mrow><mi>Cu</mi></mrow><mprescripts /><mnone /><mrow><mn>56</mn></mrow></mmultiscripts></mrow></math> and the Redirection of the <math xmlns="http://www.w3.org/1998/Math/MathML" display="inline"><mi>r</mi><mi>p</mi></math> -Process Flow. Physical Review	7.8	25
3	The Nâ€“â€“126 factory: A new facility to produce very heavy neutron-rich isotopes. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 258-261.	1.4	25
4	First direct determination of the<math xmlns="http://www.w3.org/1998/Math/MathML" display="inline"><mrow><msup><mrow /><mn>48</mn></msup><mi mathvariant="bold">Ca</mi></mrow></math>double-$β$decay$Q$value of$β$-Decay<math xmlns="http://www.w3.org/1998/Math/MathML" display="inline"><msub><mi>Q</mi><mi>EC</mi></msub></math>	2.9	19
5	Precision Mass Measurements of Neutron-Rich Scandium Isotopes Refine the Evolution of N = 32 and 34 Shell Closures. Physical Review Letters, 2021, 126, 042501.	7.8	19
6	A laser ablation source for offline ion production at LEBIT. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 60-63.	1.4	14
7	Determination of the<math xmlns="http://www.w3.org/1998/Math/MathML"><msub><mi>Q</mi><mi>EC</mi></msub></math>of the<math xmlns="http://www.w3.org/1998/Math/MathML"><mrow><mi>T</mi><mo>=</mo><mn>1</mn></mrow></math>nuclei<math xmlns="http://www.w3.org/1998/Math/MathML"><mmultiscripts><mi mathvariant="normal">Na</mi><mprescripts /><mnone /><mrow><mn	2.9	13
8	Double resonant enhancement in the neutrinoless double-electron capture of<math xmlns="http://www.w3.org/1998/Math/MathML"><mmultiscripts><mi>Pt</mi><mprescripts /><mnone /><mrow><mn>192</mn></mrow></mmultiscripts></math>	2.9	13
9	-decay Q values among the <math xmlns="http://www.w3.org/1998/Math/MathML"><mrow><mi>A</mi><mo>=</mo><mn>50</mn></mrow></math> Ti-V-Cr isobaric triplet and atomic masses of $β$	2.9	13
10	Precision mass measurements of neutron-rich Mo isotopes beyond <math xmlns="http://www.w3.org/1998/Math/MathML"><mrow><mi>N</mi><mo>=</mo><mn>60</mn></mrow></math>. Physical Review C, 2018, 97, .	2.9	13
11	Gaussian mixture model clustering algorithms for the analysis of high-precision mass measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1027, 166299.	1.6	13
12	Decay$Q$value of<math xmlns="http://www.w3.org/1998/Math/MathML" display="inline"><msub><mi>Q</mi><mi>EC</mi></msub></math>	7.8	12
13	LEBIT II: Upgrades and developments for high precision Penning trap mass measurements with rare isotopes. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 510-516.	1.4	11
14	Penning trap mass measurement of<math xmlns="http://www.w3.org/1998/Math/MathML"><mmultiscripts><mi mathvariant="normal">Br</mi><mprescripts /><mnone /><mrow><mn>72</mn></mrow></mmultiscripts></math>. Physical Review	2.9	11
15	Precision half-life measurement of <math xmlns="http://www.w3.org/1998/Math/MathML"><mmultiscripts><mi mathvariant="normal">C</mi><mprescripts /><mnone /><mn>11</mn></mmultiscripts></math> : The most precise mirror transition <math xmlns="http://www.w3.org/1998/Math/MathML"><mrow><mi mathvariant="script">F</mi><mi>t</mi></mrow></math> value. Physical Review	2.9	11
16	Stopped, bunched beams for the TwinSol facility. Hyperfine Interactions, 2019, 240, 1.	0.5	11
17	Testing the weak interaction using St. Benedict at the University of Notre Dame. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 488-490.	1.4	11

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19	High-precision mass measurements of the isomeric and ground states of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">V</mml:mi><mml:mprescripts /><mml:none /><mml:mn>44</mml:mn></mml:mmultiscripts></mml:math> : Improving constraints on the isobaric multiplet mass equation parameters of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>=</mml:mo><mml:mn>44</mml:mn>	2.9	11
20	Searching for the origin of the rare-earth peak with precision mass measurements across Ceâ€“Eu isotopic chains. Physical Review C, 2022, 105, .	2.9	11
21	Precise determination of theCd113fourth-forbidden non-uniqueÎ²-decayQvalue. Physical Review C, 2016, 94, .	2.9	10
22	Precision half-life measurement of Al25. Physical Review C, 2017, 96, .	2.9	10
23	Mass measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Fe</mml:mi><mml:mprescripts /><mml:none /><mml:mn>51</mml:mn></mml:mmultiscripts></mml:math> for the determination of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi	2.9	8
24	A cooler-buncher for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>126</mml:mn></mml:mrow></mml:math> factory at Argonne National Laboratory. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 330-333.	1.4	8
25	Spin-trap isomers in deformed, odd-odd nuclei in the light rare-earth region near <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>98</mml:mn> Physical Review C, 2020, 102, .	2.9	8
26	First Penning trap mass measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mn>36</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2021, 103, .	2.9	7
27	Fabrication and characterization of field emission points for ion production in Penning trap applications. International Journal of Mass Spectrometry, 2015, 379, 187-193.	1.5	4
28	Development of a high-precision Penning trap magnetometer for the LEBIT facility. International Journal of Mass Spectrometry, 2015, 379, 1-8.	1.5	4
29	Resolving the discrepancy in the half-life of F20. Physical Review C, 2019, 99, .	2.9	4
30	Precision mass measurements of 44V and 44mV for nucleon-nucleon interaction studies. Hyperfine Interactions, 2019, 240, 1.	0.5	2
31	High-precision mass measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Si</mml:mi><mml:mprescripts /><mml:none /><mml:mn>24</mml:mn></mml:mmultiscripts></mml:math> and a refined determination of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>r</mml:mi><mml:mi>p</mml:mi></mml:mrow> process at the <mml:math	2.9	2
32	Improved nuclear physics near <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>=</mml:mo><mml:mn>61</mml:mn> refines urca neutrino luminosities in accreted neutron star crusts. Physical Review C, 2022, 105, .	2.9	1
33	Mass Measurement of 56Cu for the Astrophysical rp-Process. Springer Theses, 2019, , 59-71.	0.1	0
34	Half-Life Measurement of 11C for Testing the Standard Model. Springer Theses, 2019, , 25-41.	0.1	0
35	The LEBIT Facility and Penning Traps. Springer Theses, 2019, , 43-58.	0.1	0
36	A Cooler-Buncher for the Nâ€‰=â€‰126 Factory. Springer Theses, 2019, , 73-92.	0.1	0