Javier Menendez

List of Publications by Year
in descending order

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57	4,020	126907	155660
papers	citations	33 h-index	55 g-index

61	61	61	2958
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Disassembling the nuclear matrix elements of the neutrinoless Î²Î² decay. Nuclear Physics A, 2009, 818, 139-151.	1.5	390
2	Masses of exotic calcium isotopes pin down nuclear forces. Nature, 2013, 498, 346-349.	27.8	375
3	Status and future of nuclear matrix elements for neutrinoless double-beta decay: a review. Reports on Progress in Physics, 2017, 80, 046301.	20.1	370
4	Influence of Pairing on the Nuclear Matrix Elements of the Neutrinoless<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:math>Decays. Physical Review Letters, 2008, 100, 052503.	7.8	234
5	Nuclear Forces and Their Impact on Neutron-Rich Nuclei and Neutron-Rich Matter. Annual Review of Nuclear and Particle Science, 2015, 65, 457-484.	10.2	177
6	Chiral Two-Body Currents in Nuclei: Gamow-Teller Transitions and Neutrinoless Double-Beta Decay. Physical Review Letters, 2011, 107, 062501.	7.8	160
7	Neutrinoless double beta decay in seesaw models. Journal of High Energy Physics, 2010, 2010, 1.	4.7	145
8	Large-scale nuclear structure calculations for spin-dependent WIMP scattering with chiral effective field theory currents. Physical Review D, 2013, 88, .	4.7	138
9	78Ni revealed as a doubly magic stronghold against nuclear deformation. Nature, 2019, 569, 53-58.	27.8	120
10	New Precision Mass Measurements of Neutron-Rich Calcium and Potassium Isotopes and Three-Nucleon Forces. Physical Review Letters, 2012, 109, 032506.	7.8	106
11	Spin-dependent WIMP scattering off nuclei. Physical Review D, 2012, 86, .	4.7	98
12	Beyond the neutron drip line: The unbound oxygen isotopes<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>25</mml:mn></mml:msup></mml:math>O and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>26</mml:mn></mml:msup></mml:math>O. Physical Review C, 2013, 88, .	2.9	93
13	Exploring<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>s</mml:mi><mml:mi>d</mml:mi></mml:mrow></mml:math>nuclei from two- and three-nucleon interactions with realistic saturation properties. Physical Review C, 2016, 93, .	2.9	81
14	Large-Scale Shell-Model Analysis of the Neutrinoless<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:math>Decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ca</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>48</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></	7.8	79
15	Nuclear structure aspects of spin-independent WIMP scattering off xenon. Physical Review D, 2015, 91, .	4.7	78
16	Three-nucleon forces and spectroscopy of neutron-rich calcium isotopes. Physical Review C, 2014, 90, .	2.9	75
17	Coexistence of spherical states with deformed and superdeformed bands in doubly magicCa40: A shell-model challenge. Physical Review C, 2007, 75, .	2.9	72
18	Improved Limits for Higgs-Portal Dark Matter from LHC Searches. Physical Review Letters, 2017, 119, 181803.	7.8	72

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19	Coherent elastic neutrino-nucleus scattering: EFT analysis and nuclear responses. Physical Review D, 2020, 102, .	4.7	72
20	Analysis strategies for general spin-independent WIMP-nucleus scattering. Physical Review D, 2016, 94, .	4.7	70
21	Occupancies of individual orbits, and the nuclear matrix element of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>76</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>neutrinoless<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	2.9	69
22	Double Gamow-Teller Transitions and its Relation to Neutrinoless <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:math> Decay. Physical Review Letters, 2018, 120, 142502.	7.8	63
23	Three-Body Forces and Proton-Rich Nuclei. Physical Review Letters, 2013, 110, 022502.	7.8	61
24	Signatures of dark matter scattering inelastically off nuclei. Physical Review D, 2013, 88, .	4.7	60
25	NeutrinolessÎ²Î²decay mediated by the exchange of light and heavy neutrinos: the role of nuclear structure correlations. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 014003.	3.6	57
26	Chiral three-nucleon forces and bound excited states in neutron-rich oxygen isotopes. European Physical Journal A, 2013, 49, 1.	2.5	55
27	Precision Analysis of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Xe</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>136</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Two-Neutrino <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:math> Spectrum in KamLAND-Zen and Its	7.8	48
28	Nuclear structure factors for general spin-independent WIMP-nucleus scattering. Physical Review D, 2019, 99, .	4.7	46
29	First Glimpse of 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 below <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>50</mml:mn></mml:math> from Masses of Neutron-Rich Cadmium Isotopes and Isomers. Physical Review Letters, 2020, 124, 092502.	7.8	41
30	Ground-state electromagnetic moments of calcium isotopes. Physical Review C, 2015, 91, .	2.9	40
31	Testing the importance of collective correlations in neutrinoless<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:mrow></mml:m Physical Review C, 2016, 93, .	2.9	39
32	Breakdown of the Isobaric Multiplet Mass Equation for the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A</mml:mi><mml:mo>=</mml:mo><mml:mn>20</mml:mn></mml:mrow></mml:math>and 21 Multiplets. Physical Review Letters, 2014, 113, 082501.	7.8	34
33	The role of three-nucleon forces and many-body processes in nuclear pairing. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 075105.	3.6	33
34	Determining the nuclear neutron distribution from Coherent Elastic neutrino-Nucleus Scattering: current results and future prospects. Journal of High Energy Physics, 2020, 2020, 1.	4.7	33
35	Shell evolution of Nâ€¯=â€¯40 isotones towards 60Ca: First spectroscopy of 62Ti. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135071.	4.1	32
36	Correlations and neutrinoless<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:mrow></mml:m nuclear matrix elements of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mi>f</mml:mi></mml:mrow></mml:ma nuclei. Physical Review C, 2014, 90, .	2.9	30

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37	High intensity neutrino oscillation facilities in Europe. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	25
38	Impact of the leading-order short-range nuclear matrix element on the neutrinoless double-beta decay of medium-mass and heavy nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 823, 136720.	4.1	25
39	First Results on the Scalar WIMP-Pion Coupling, Using the XENON1T Experiment. Physical Review Letters, 2019, 122, 071301.	7.8	23
40	Uncertainties in constraining low-energy constants from 3H $ eta$Î² decay. European Physical Journal A, 2017, 53, 1.	2.5	16
41	Two-neutrino double electron capture on 124Xe based on an effective theory and the nuclear shell model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134885.	4.1	16
42	Testing the inverted neutrino mass ordering with neutrinoless double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> decay. Physical Review C, 2021, 104, .	2.9	15
43	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msup></mml:math> state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>16</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.	2.9	14
44	Unexpected distribution of Î½1f7/2 strength in Ca49. Physical Review C, 2017, 95, .	2.9	12
45	Gamow-Teller and double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> decays of heavy nuclei within an effective theory. Physical Review C, 2018, 98, .	2.9	12
46	Novel nuclear structure aspects of the OÎ½Î²Î²-decay. Journal of Physics: Conference Series, 2011, 267, 012058.	0.4	10
47	Neutrinoless Double Beta Decay The Nuclear Matrix Elements Revisited. Journal of Physics: Conference Series, 2011, 312, 072005.	0.4	10
48	Discriminating WIMP-nucleus response functions in present and future XENON-like direct detection experiments. Physical Review D, 2018, 97, .	4.7	8
49	Electromagnetic properties of 21O for benchmarking nuclear Hamiltonians. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135678.	4.1	8
50	Is it possible to study neutrinoless Î²Î² decay by measuring double Gamow-Teller transitions?. Journal of Physics: Conference Series, 2018, 1056, 012037.	0.4	4
51	Towards Reliable Nuclear Matrix Elements for Neutrinoless Î²Î² Decay. , 2018, , .		3
52	Nuclear physics insights for new-physics searches using nuclei: NeutrinolessÎ²Î²decay and dark matter direct detection. EPJ Web of Conferences, 2017, 137, 08011.	0.3	1
53	Correlations and the neutrinoless double beta decay. , 2009, , .		0
54	Shell model progress on neutrinoless double beta decay: nuclear matrix element uncertainties, neutrino exchange mechanism in seesaw models. Journal of Physics: Conference Series, 2011, 312, 072012.	0.4	0

#	Article	IF	Citations
55	Chiral Two-body Currents and Neutrinoless Double Beta Decay. , 2011, , .		0
56	Theoretical uncertainties in the nuclear matrix elements of neutrinoless double beta decay: The transition operator. , 2013, , .		0
57	Shell Structure and Spectroscopy of Neutron-Rich Calcium Isotopes Studied with Chiral Three-Nucleon Forces. , 2015, , .		0