Javier Menendez

List of Publications by Year
in descending order

57 papers	4,020 citations	126907 33 h-index	155660 55 g-index
61 all docs	61 docs citations	61 times ranked	2958 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	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
6	Coherent elastic neutrino-nucleus scattering: EFT analysis and nuclear responses. Physical Review D, 2020, 102, .	4.7	72
7	Testing <i>ab initio</i> nuclear structure in neutron-rich nuclei: Lifetime measurements of second <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msup></m 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	2.9	14
8	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
9	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
10	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 I	7.8	48
11	78Ni revealed as a doubly magic stronghold against nuclear deformation. Nature, 2019, 569, 53-58.	27.8	120
12	Nuclear structure factors for general spin-independent WIMP-nucleus scattering. Physical Review D, 2019, 99, .	4.7	46
13	First Results on the Scalar WIMP-Pion Coupling, Using the XENON1T Experiment. Physical Review Letters, 2019, 122, 071301.	7.8	23
14	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
15	Neutrinoless<i>Î²Î²</i>decay 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
16	Is it possible to study neutrinoless <i>Î²Î²</i> decay by measuring double Gamow-Teller transitions?. Journal of Physics: Conference Series, 2018, 1056, 012037.	0.4	4
17	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
18	Discriminating WIMP-nucleus response functions in present and future XENON-like direct detection experiments. Physical Review D, 2018, 97, .	4.7	8

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19	Towards Reliable Nuclear Matrix Elements for Neutrinoless Î²Î² Decay. , 2018, , .		3
20	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
21	Nuclear physics insights for new-physics searches using nuclei: Neutrinoless<i>Î²Î²</i>decay and dark matter direct detection. EPJ Web of Conferences, 2017, 137, 08011.	0.3	1
22	Improved Limits for Higgs-Portal Dark Matter from LHC Searches. Physical Review Letters, 2017, 119, 181803.	7.8	72
23	Unexpected distribution of Î½1f7/2 strength in Ca49. Physical Review C, 2017, 95, .	2.9	12
24	Uncertainties in constraining low-energy constants from 3H $ eta$Î² decay. European Physical Journal A, 2017, 53, 1.	2.5	16
25	Analysis strategies for general spin-independent WIMP-nucleus scattering. Physical Review D, 2016, 94, .	4.7	70
26	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:ma nuclei from two- and three-nucleon interactions with realistic saturation properties. Physical Review C, 2016, 93, .	2.9	81
27	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></mm Physical Review C, 2016, 93, .	2.9	39
28	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
29	Shell Structure and Spectroscopy of Neutron-Rich Calcium Isotopes Studied with Chiral Three-Nucleon Forces. , 2015, , .		0
30	Nuclear structure aspects of spin-independent WIMP scattering off xenon. Physical Review D, 2015, 91, .	4.7	78
31	Ground-state electromagnetic moments of calcium isotopes. Physical Review C, 2015, 91, .	2.9	40
32	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
33	Three-nucleon forces and spectroscopy of neutron-rich calcium isotopes. Physical Review C, 2014, 90, .	2.9	75
34	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
35	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></mm 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
36	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

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37	Three-Body Forces and Proton-Rich Nuclei. Physical Review Letters, 2013, 110, 022502.	7.8	61
38	Masses of exotic calcium isotopes pin down nuclear forces. Nature, 2013, 498, 346-349.	27.8	375
39	Chiral three-nucleon forces and bound excited states in neutron-rich oxygen isotopes. European Physical Journal A, 2013, 49, 1.	2.5	55
40	Theoretical uncertainties in the nuclear matrix elements of neutrinoless double beta decay: The transition operator. , 2013, , .		0
41	High intensity neutrino oscillation facilities in Europe. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	25
42	Signatures of dark matter scattering inelastically off nuclei. Physical Review D, 2013, 88, .	4.7	60
43	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
44	Large-scale nuclear structure calculations for spin-dependent WIMP scattering with chiral effective field theory currents. Physical Review D, 2013, 88, .	4.7	138
45	Spin-dependent WIMP scattering off nuclei. Physical Review D, 2012, 86, .	4.7	98
46	New Precision Mass Measurements of Neutron-Rich Calcium and Potassium Isotopes and Three-Nucleon Forces. Physical Review Letters, 2012, 109, 032506.	7.8	106
47	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
48	Novel nuclear structure aspects of the O<i>Î½Î²Î²</i>-decay. Journal of Physics: Conference Series, 2011, 267, 012058.	0.4	10
49	Chiral Two-body Currents and Neutrinoless Double Beta Decay. , 2011, , .		0
50	Chiral Two-Body Currents in Nuclei: Gamow-Teller Transitions and Neutrinoless Double-Beta Decay. Physical Review Letters, 2011, 107, 062501.	7.8	160
51	Neutrinoless Double Beta Decay The Nuclear Matrix Elements Revisited. Journal of Physics: Conference Series, 2011, 312, 072005.	0.4	10
52	Neutrinoless double beta decay in seesaw models. Journal of High Energy Physics, 2010, 2010, 1.	4.7	145
53	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" display="inline"><mml:mrow><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:mrow></mml:math>decay. P	2.9	69
54	Correlations and the neutrinoless double beta decay. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Disassembling the nuclear matrix elements of the neutrinoless Î²Î² decay. Nuclear Physics A, 2009, 818, 139-151.	1.5	390
56	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
57	Coexistence of spherical states with deformed and superdeformed bands in doubly magicCa40: A shell-model challenge. Physical Review C, 2007, 75, .	2.9	72