

Enrique Nacher

List of Publications by Year in descending order

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111
papers

1,337
citations

430874

18
h-index

414414

32
g-index

111
all docs

111
docs citations

111
times ranked

1241
citing authors

#	ARTICLE	IF	CITATIONS
1	http://www.w3.org/1998/Math/MathML display="inline"> <mml:mmultiscripts> <mml:mi>Pu</mml:mi> <mml:mprescripts /> <mml:none /> <mml:mn>239</mml:mn> </mml:mmultiscripts> </mml:math> Solving the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi> \hat{I}^3 </mml:mi> </mml:math> Discrepancy in the 4σ "3000-s Cooling Period. Physical Review Letters, 2010, 105, 202501.	7.8	107
2	Deformation of the $N=Z$ Nucleus ^{86}Sr using \hat{I}^2 -Decay Studies. Physical Review Letters, 2004, 92, 232501.	7.8	101
3	Nuclear structure of ^{229}Th . Physical Review C, 2006, 73, . Quasifree (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 642 Td (display="in	2.9	73
4	Reactions on Oxygen Isotopes: Observation of Isospin Independence of the Reduced Single-Particle Strength. Physical Review Letters, 2018, 120, 052501.	7.8	69
5	$B(GT)$ strength from \hat{I}^2 -decay measurements and inferred shape mixing in ^{74}Kr . Physical Review C, 2004, 69, .	2.9	63
6	Scattering of the Halo Nucleus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow> <mml:mmultiscripts> <mml:mrow> <mml:mi>Be</mml:mi> </mml:mrow> <mml:mprescripts /> <mml:mrow> <mml:mn>11</mml:mn> </mml:mrow> </mml:mmultiscripts> </mml:mrow> </mml:math> on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow> <mml:mmultiscripts> <mml:mrow> <mml:mi>Au</mml:mi> </mml:mrow> <mml:mprescripts /> <mml:mn>3</mml:mn> </mml:mrow> </mml:math> He (<mml:math	7.8	53
7	Observation of ^{54}Ni : Cross-Conjugate Symmetry in $7/2$ Mirror Energy Differences. Physical Review Letters, 2006, 97, 152501.	2.9	46
8	Total absorption study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi> \hat{I}^2 </mml:mi> </mml:math> decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:msup> <mml:mrow /> <mml:mrow> <mml:mn>102</mml:mn> </mml:mrow> <mml:mo>, </mml:mo> <mml:mn>104</mml:mn> <mml:mo>, </mml:mo> <mml:mn>105</mml:mn> </mml:mrow> </mml:math> Physical Review C, 2013, 87, .	2.9	36
9	Beta decay studies with the total absorption technique: past, present and future. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1477-S1483.	3.6	29
10	Large impact of the Decay of Niobium Isomers on the Reactor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:msub> <mml:mover accent="true"> <mml:mi> \hat{I}^2 </mml:mi> </mml:mover> <mml:mo> </mml:mo> <mml:mi>e</mml:mi> </mml:msub> </mml:math> Summation Shape study of the <mml:math	7.8	29
11	Shape study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:mi>N</mml:mi> <mml:mo>= </mml:mo> <mml:mi>Z</mml:mi> </mml:mrow> </mml:math> via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mi> \hat{I}^2 </mml:mi> </mml:math> decay. Physical	2.9	28
12	Shape study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow> <mml:mi>N</mml:mi> <mml:mo>= </mml:mo> <mml:mi>Z</mml:mi> </mml:mrow> </mml:math> line via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi> \hat{I}^2 </mml:mi> </mml:math> -decay studies using the total absorption technique. Physical Review C, 2013, 88, .	2.9	26
13	First measurement of \hat{I}^2 -decay properties of the proton drip-line nucleus ^{60}Ga . European Physical Journal A, 2001, 12, 269-277.	2.5	22
14	Shape study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"> <mml:mrow> <mml:mi mathvariant="normal">Cd</mml:mi> </mml:mrow> <mml:mrow> <mml:mn>81</mml:mn> </mml:mrow> <mml:none /> <mml:mprescripts /> <mml:none /> <mml:mrow> <mml:mn>123</mml:mn> </mml:mrow> </mml:mmultiscripts> </mml:math> via the	4.1	22
15	Gamma Decay of Unbound Neutron-Hole States in ^{133}Sn . Physical Review Letters, 2017, 118, 202502.	7.8	22
16	First experiment with the NUSTAR/FAIR Decay Total Absorption <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"> <mml:mrow> <mml:mi> \hat{I}^3 </mml:mi> </mml:mrow> </mml:math> -Ray Spectrometer (DTAS) at the IGISOL IV facility. Nuclear Instruments & Methods in Physics Research B. 2016. 376. 334-337.	1.4	21
17	CALIFA, a Dedicated Calorimeter for the R3B/FAIR. Nuclear Data Sheets, 2014, 120, 99-101.	2.2	18

#	ARTICLE	IF	CITATIONS
19	Quasi-free neutron and proton knockout reactions from light nuclei in a wide neutron-to-proton asymmetry range. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 682-688.	4.1	18
20	LaBr ₃ (Ce):LaCl ₃ (Ce) Phoswich with pulse shape analysis for high energy gamma-ray and proton identification. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 704, 19-26.	1.6	17
21	Characterization and performance of the DTAS detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 910, 79-89.	1.6	17
22	Performance analysis for the CALIFA Barrel calorimeter of the R3B experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 767, 453-466.	1.6	16
23	Experimental study of Tc100 \hat{I}^2 decay with total absorption \hat{I}^3 -ray spectroscopy. <i>Physical Review C</i> , 2017, 96, .	2.9	15
24	Quasifree ($\langle \text{mml:math} \rangle T_j E T Q q 0 0 0 r g B T / \text{Overlock } 10 T f 50 557 T d$ (xmlns:mml="http://www.w3.org/1998/Math/MathML") $\rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 14 \langle \text{mml:mn} \rangle$ (xmlns:mml="http://www.w3.org/1998/Math/MathML") $\rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 14 \langle \text{mml:mn} \rangle$	2.9	15
25	On the performance of large monolithic LaCl ₃ (Ce) crystals coupled to pixelated silicon photosensors. <i>Journal of Instrumentation</i> , 2018, 13, P03014-P03014. Hindered E4 decay of the $\langle \text{mml:math} \text{ altimg="si1.gif" overflow="scroll"} \rangle$	1.2	15
26	On the performance of large monolithic LaCl ₃ (Ce) crystals coupled to pixelated silicon photosensors. <i>Journal of Instrumentation</i> , 2018, 13, P03014-P03014. Hindered E4 decay of the $\langle \text{mml:math} \text{ altimg="si1.gif" overflow="scroll"} \rangle$	4.1	14
27	Proton response of CEPA4: A novel LaBr ₃ (Ce)â€“LaCl ₃ (Ce) phoswich array for high-energy gamma and proton spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 769, 105-111.	1.6	14
28	Beta-delayed proton emission from ²⁰ Mg. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	14
29	Effective proton-neutron interaction near the drip line from unbound states in $\langle \text{mml:math} \text{ altimg="si1.gif" overflow="scroll"} \rangle$	2.9	14
30	Effective proton-neutron interaction near the drip line from unbound states in $\langle \text{mml:math} \text{ altimg="si1.gif" overflow="scroll"} \rangle$	2.9	14
31	Search for beta-delayed proton emission from $\langle \text{mml:math} \text{ altimg="si1.gif" overflow="scroll"} \rangle$	2.5	14
32	Search for beta-delayed proton emission from $\langle \text{mml:math} \text{ altimg="si1.gif" overflow="scroll"} \rangle$	2.5	14
33	The DESPEC setup for GSI and FAIR. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022, 1033, 166662.	1.6	14
34	Mirror decay of ⁷⁵ Sr. <i>European Physical Journal A</i> , 2003, 16, 359-363.	2.5	13
35	Beta decay studies with total absorption spectroscopy and the <i>Lucrecia</i> spectrometer at ISOLDE. <i>Journal of Physics C: Nuclear and Particle Physics</i> , 2017, 44, 084004.	3.6	12
36	Two-phonon octupole excitation in $\langle \text{mml:math} \text{ altimg="si1.gif" overflow="scroll"} \rangle$	2.9	11

#	ARTICLE	IF	CITATIONS
37	Decay study of ^{150}Er . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 77-84.	2.9	11
38	CALIFA Barrel prototype detector characterisation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 77-84.	1.6	11
39	Octupole states in ^{208}Tl . Physical Review C, 2020, 102, .	7.8	11
40	^{207}Tl studied through ^{12}C decay. Physical Review C, 2020, 101, .	2.9	11
41	^{148}Dy : Study of the Gamow-Teller giant state by means of total absorption spectroscopy. Physical Review C, 2004, 70, .	2.9	10
42	Detailed spectroscopy of doubly magic ^{132}Sn . Physical Review C, 2020, 102, .	2.9	10
43	Comparison of different approaches based on Monte Carlo methods to calculate the system matrix for small animal PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 346-349.	1.6	9
44	Nuclear astrophysics with radioactive ions at FAIR. Journal of Physics: Conference Series, 2016, 665, 012044.	0.4	9
45	Strong Neutron Pairing in core+4n Nuclei. Physical Review Letters, 2018, 120, 152504.	7.8	9
46	^{13}Be studied in proton knockout from ^{14}B . Physical Review C, 2019, 99, .	2.9	9
47	^{133}In β^- emission from neutron-unbound states in ^{133}Sn . Physical Review C, 2019, 99, .	2.9	9
48	Fast-timing study of the ^{133}In β^- emission from neutron-unbound states in ^{133}Sn . Physical Review C, 2016, 93, .	2.9	8
49	^{137}Nb β^- -delayed neutron emitters. Physical Review C, 2019, 100, .	2.9	8
50	Total absorption β^- -ray spectroscopy of niobium isomers. Physical Review C, 2019, 100, .	2.9	8
51	Total absorption gamma-ray spectroscopy study of the ^{186}Hg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136438.	4.1	8
52	^{84}Sr β^- decay. Physical Review C, 2011, 84, .	2.9	7
53	Observations of the Gamow-Teller resonance in the rare-earth nuclei above ^{146}Gd populated in ^{12}C decay. Physical Review C, 2016, 93, .	2.9	6
54	First testing of the CALIFA Barrel Demonstrator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 814, 56-65.	1.6	6

#	ARTICLE	IF	CITATIONS
55	Investigation of the $I^{\pi} \rightarrow \pi^{\pi}$ selection rule in Gamow-Teller transitions: The I^{π} -decay of ^{207}Hg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 271-275.	4.1	6
56	Determination of I^{π} -decay ground state feeding of nuclei of importance for reactor applications. Physical Review C, 2020, 102, .	2.9	6
57	Decays of I^{π} and expansion of the I^{π} decays of ^{208}Po and expansion of the I^{π} decays of ^{208}Po .	2.9	6
58	Beta-decay studies using total absorption spectroscopy. European Physical Journal A, 2003, 20, 199-202.	2.5	5
59	Reaction of the Halo Nucleus ^{11}Be on Heavy Targets at Energies Around the Coulomb Barrier. Acta Physica Polonica B, 2014, 45, 375.	0.8	5
60	Decay heat studies for nuclear energy. Hyperfine Interactions, 2014, 223, 245-252.	0.5	5
61	Study of the I^{π} Decay of Fission Products with the DTAS Detector. Acta Physica Polonica B, 2017, 48, 529.	0.8	5
62	First I^{π} -decay spectroscopy of ^{135}In and new I^{π} -decay branches of ^{135}In .	2.9	5
63	I^{π} -ray spectroscopy of the I^{π} decays of ^{135}In .	2.9	5
64	Total absorption spectroscopy of ^{76}Sr with the Lucrecia spectrometer at ISOLDE. Nuclear Physics A, 2004, 734, E84-E87.	1.5	4
65	Particle identification using clustering algorithms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 717, 77-82.	1.6	4
66	Inclusive cross sections for one- and multi-nucleon removal from Sn, Sb, and Te projectiles beyond the $Z=82$ shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 356-361.	4.1	4
67	Multi-particle Emission from ^{31}Ar at ISOLDE. Acta Physica Polonica B, 2016, 47, 747.	0.8	4
68	Exploring the reactor heat problem: Study of the beta decay of $^{104,105}\text{Tc}$ using the TAS technique. European Physical Journal: Special Topics, 2007, 150, 383-384.	2.6	3
69	Decay studies of the long-lived states in ^{186}Tl .	2.9	3
70	Proton Radiographs Using Position-Sensitive Silicon Detectors and High-Resolution Scintillators. IEEE Transactions on Nuclear Science, 2022, 69, 696-702.	2.0	3
71	Fast phoswich scintillator endcap for gamma and proton detection. , 2013, , .		2
72	Characterization of a cylindrical plastic I^{π} -detector with Monte Carlo simulations of optical photons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 854, 134-138.	1.6	2

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73	Total absorption spectroscopy of fission fragments relevant for reactor antineutrino spectra. EPJ Web of Conferences, 2017, 146, 10002.	0.3	2
74	Strong \hat{I}^3 -ray emission from neutron unbound states populated in \hat{I}^2 -decay: Impact on (n, \hat{I}^3) cross-section estimates. EPJ Web of Conferences, 2017, 146, 01002.	0.3	2
75	TAGS measurements of ^{100}Nb ground and isomeric states and ^{140}Cs for neutrino physics with the new DTAS detector. EPJ Web of Conferences, 2017, 146, 10010.	0.3	2
76	Coulomb dissociation of ^{16}O into ^4He and ^{12}C . Journal of Physics: Conference Series, 2020, 1668, 012016.	0.4	2
77	Probing the $Z\hat{a}^{-6}$ spin-orbit shell gap with $(p,2p)$ quasi-free scattering reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135748.	4.1	2
78	Calibration and response function of a compact silicon-detector set-up for charged-particle spectroscopy using GEANT4. European Physical Journal A, 2021, 57, 1.	2.5	2
79	Improvements on Decay Heat Summation Calculations by Means of Total Absorption Gamma-ray Spectroscopy Measurements. Journal of the Korean Physical Society, 2011, 59, 1479-1482.	0.7	2
80	A prototype of pCT scanner: first tests. EPJ Web of Conferences, 2021, 253, 09008.	0.3	2
81	Isotopic cross sections of fragmentation residues produced by light projectiles on carbon near ^{12}C . Physical Review C, 2022, 105, .	2.9	2
82	Beta decay studies far from stability with the Total Absorption Technique: the case of ^{76}Sr . Nuclear Physics A, 2005, 752, 251-254.	1.5	1
83	Applications of the total absorption technique to improve reactor decay heat calculations: study of the beta decay of $^{102,104,105}\text{Tc}$. , 2009, . , .		1
84	CEPA: $\text{AlaBr}_3(\text{Ce})/\text{LaCl}_3(\text{Ce})$ phoswich array for simultaneous detection of protons and gamma radiation emitted in reactions at relativistic energies. EPJ Web of Conferences, 2014, 66, 11033.	0.3	1
85	Beta decay studies of the $N=Z$ and waiting point nucleus ^{72}Kr . EPJ Web of Conferences, 2014, 66, 02016.	0.3	1
86	New reaction chamber for transient field g-factor measurements with radioactive ion beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 785, 47-54.	1.6	1
87	Total absorption studies of high priority decays for reactor applications: ^{86}Br and ^{91}Rb . EPJ Web of Conferences, 2017, 146, 10001.	0.3	1
88	Scattering of halo nuclei on heavy targets at energies around the Coulomb barrier: The case of ^{11}Be on ^{197}Au . EPJ Web of Conferences, 2017, 163, 00045.	0.3	1
89	Summation Calculations for Reactor Antineutrino Spectra, Decay Heat and Delayed Neutron Fractions Involving New TAGS Data and Evaluated Databases. EPJ Web of Conferences, 2019, 211, 01001.	0.3	1
90	Performance recovery of long CsI(Tl) scintillator crystals with APD-based readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 965, 163845.	1.6	1

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91	Experimental study of the nature of the 1^{\pm} and 2^{\pm} excited states in ^{146}Gd . <i>Acta Physica Polonica B</i> , 2016, 47, 755.		
92	Total Absorption Spectroscopy of Fission Fragments Relevant for Reactor Antineutrino Spectra Determination. <i>Acta Physica Polonica B</i> , 2016, 47, 755.	0.8	1
93	The Most Accurate Determination of the ^{8}B Half-life. <i>Acta Physica Polonica B</i> , 2020, 51, 717.	0.8	1
94	r Process ($n, (\gamma)$) Rate Constraints from the (γ) Emission of Neutron Unbound States in (η) -Decay. , 2017, , .		1
95	Disentangling decaying isomers and searching for signatures of collective excitations in \hat{I}^2 decay. <i>Journal of Physics: Conference Series</i> , 2020, 1643, 012134.	0.4	1
96	Study of exotic decay of Cs isotope close to the proton drip line. <i>Journal of Physics: Conference Series</i> , 2020, 1643, 012127.	0.4	1
97	Two-Phonon Octupole Excitation in ^{146}Gd . <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
98	Two-Phonon Octupole Excitation in ^{146}Gd . <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
99	Publisher's Note: Observation of ^{54}Ni : Cross-Conjugate Symmetry $7/2$ Mirror Energy Differences [<i>Phys. Rev. Lett.</i> 97, 152501 (2006)]. <i>Physical Review Letters</i> , 2006, 97, .	7.8	0
100	Systematic Study of EC Decays in the ^{146}Gd Region Relevant for a Monoenergetic Neutrino Beam Facility. , 2010, , .		0
101	Conversion coefficients of the isomeric state in ^{72}Br . , 2010, , .		0
102	Phoswich scintillator for proton and gamma radiation of high energy. , 2011, , .		0
103	Beta delayed alpha emission from the neutron deficient rare earth isotopes ^{152}Tm and ^{150}Ho . , 2011, , .		0
104	TAS measurements for reactor physics and nuclear structure. , 2011, , .		0
105	Scattering of light halo nuclei on heavy target at energies around the Coulomb barrier. <i>EPJ Web of Conferences</i> , 2014, 66, 03086.	0.3	0
106	CEPA: A $\text{LaBr}_3(\text{Ce})/\text{LaCl}_3(\text{Ce})$ PHOSWICH ARRAY FOR SIMULTANEOUS DETECTION OF PROTONS AND GAMMA RADIATION EMITTED IN REACTIONS AT RELATIVISTIC ENERGIES. <i>International Journal of Modern Physics Conference Series</i> , 2014, 27, 1460143.	0.7	0
107	Commissioning of the CALIFA Barrel Calorimeter of the $R^{3\text{B}}$ Experiment at FAIR. <i>Journal of Physics: Conference Series</i> , 2020, 1667, 012006.	0.4	0
108	\hat{I}^2 STRENGTH DISTRIBUTIONS IN N-Z KR AND SR ISOTOPES USING TOTAL ABSORPTION SPECTROMETRY. , 2004, , .		0

#	ARTICLE	IF	CITATIONS
109	\hat{I}^2 -decay data requirements for reactor decay heat calculations: study of the possible source of the gamma-ray discrepancy in reactor heat summation calculations. , 2007, , .		0
110	Decay heat studies for nuclear energy. , 2012, , 379-386.		0
111	Clarifying the structure of low-lying states in ^{72}Br . Physical Review C, 2022, 105, .	2.9	0