

John Hardy

List of Publications by Year in descending order

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80
papers

3,012
citations

186265

28
h-index

161849

54
g-index

80
all docs

80
docs citations

80
times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	Superallowed $0^+ \rightarrow 0^+$ nuclear β decays: A new survey with precise results for ^{26}Al , ^{26}Mg , ^{54}Co , and ^{54}Fe . Physical Review C, 2000, 70, 044301.	2.9	343
2	Superallowed $0^+ \rightarrow 0^+$ nuclear β decays: 2014 critical survey, with precise results for ^{26}Al , ^{26}Mg , ^{54}Co , and ^{54}Fe . Physical Review C, 2015, 91, .	2.9	217
3	Improved calculation of the isospin-symmetry-breaking corrections to superallowed Fermi β decay. Physical Review C, 2008, 77, .	2.9	183
4	Superallowed $0^+ \rightarrow 0^+$ nuclear β decays: A critical survey with tests of the conserved vector current hypothesis and the standard model. Physical Review C, 2005, 71, .	2.9	175
5	Calculated corrections to superallowed Fermi β decay: New evaluation of the nuclear-structure-dependent terms. Physical Review C, 2002, 66, .	2.9	135
6	The evaluation of V_{ud} and its impact on the unitarity of the Cabibbo-Kobayashi-Maskawa quark-mixing matrix. Reports on Progress in Physics, 2010, 73, 046301.	20.1	129
7	Superallowed $0^+ \rightarrow 0^+$ nuclear β decays: 2020 critical survey, with implications for V_{ud} and the unitarity of the Cabibbo-Kobayashi-Maskawa matrix. Physical Review C, 2020, 102, 044301.	2.9	117
8	Precise efficiency calibration of an HPGe detector: source measurements and Monte Carlo calculations with sub-percent precision. Applied Radiation and Isotopes, 2002, 56, 65-69.	1.5	96
9	QValue of the Superallowed Decay of ^{54}V and Its Influence on V_{ud} and the Unitarity of the Cabibbo-Kobayashi-Maskawa Matrix. Physical Review Letters, 2005, 95, 102501.	7.8	86
10	Precise efficiency calibration of an HPGe detector up to 3.5 MeV, with measurements and Monte Carlo calculations. Applied Radiation and Isotopes, 2004, 60, 173-177.	1.5	77
11	New Limits on Fundamental Weak-Interaction Parameters from Superallowed β Decay. Physical Review Letters, 2005, 94, 092502.	7.8	71
12	QEC Values of the Superallowed β Emitters ^{54}Mn and ^{54}Co . Physical Review Letters, 2008, 100, 132502.	7.8	70
13	Comparative tests of isospin-symmetry-breaking corrections to superallowed $0^+ \rightarrow 0^+$ nuclear β decay. Physical Review C, 2010, 82, .	2.9	68
14	QValues of the Superallowed β Emitters ^{26}Al , ^{26}Mg , and ^{54}V and Their Impact on V_{ud} and the Unitarity of the Cabibbo-Kobayashi-Maskawa Matrix. Physical Review Letters, 2006, 97, 232501.	7.8	59
15	The evaluation of V_{ud} , experiment and theory. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 197-211.	3.6	56
16	Superallowed Beta Decay of Nuclei with $A \leq 62$: The Limiting Effect of Weak Gamow-Teller Branches. Physical Review Letters, 2002, 88, 252501.	7.8	51
17	Tests of Isospin Mixing Corrections in Superallowed $0^+ \rightarrow 0^+$ β Decays. Physical Review Letters, 1994, 73, 396-399.	7.8	50
18	High Precision Measurement of the Superallowed $0^+ \rightarrow 0^+$ β Decay of ^{22}Mg . Physical Review Letters, 2003, 91, 082501.	7.8	49

#	ARTICLE	IF	CITATIONS
19	Precise Half-Life Measurement for the Superallowed $0^+ \rightarrow 0^+$ Emitter ^{74}Rb : First Results from the New Radioactive Beam Facility (ISAC) at TRIUMF. Physical Review Letters, 2001, 86, 1454-1457.	7.8	48
20	Fermi Beta Decay, $A > 40$: The Masses of ^{42}Sc , ^{46}V , ^{50}Mn , and ^{54}Co . Physical Review Letters, 1974, 33, 320-323.	7.8	47
21	$10C$ Superallowed Branching Ratio and the Cabibbo-Kobayashi-Maskawa Matrix Unitarity. Physical Review Letters, 1995, 74, 1521-1524.	7.8	45
22	High precision branching ratio measurement for the superallowed $\hat{1}^2$ decay of ^{74}Rb : A prerequisite for exacting tests of the standard model. Physical Review C, 2003, 67, .	2.9	42
23	QEC Values of the Superallowed $\hat{1}^2$ Emitters ^{34}Cl and ^{38}K . Physical Review Letters, 2009, 103, 252501.	7.8	42
24	Q value of the superallowed decay of ^{22}Mg and the calibration of the ^{21}Na ($p, \hat{1}^3$) experiment. Physical Review C, 2004, 70, .	2.9	34
25	Parametrization of the statistical rate function for select superallowed transitions. Physical Review C, 2015, 91, .	2.9	32
26	Production of ^{60}Co sources for high-accuracy efficiency calibrations of gamma-ray spectrometers. Applied Radiation and Isotopes, 2002, 56, 215-221.	1.5	31
27	Precise measurement of $f_{\pm K}$ for the $M4$ transition from ^{193}Ir : A test of internal-conversion theory. Physical Review C, 2004, 70, .	2.9	30
28	Precise half-life measurements for the superallowed $\hat{1}^2$ emitters ^{34}Ar and ^{34}Cl . Physical Review C, 2006, 74, .	2.9	28
29	Fermi Beta Decay, $A > 40$: The Half-lives of ^{46}V , ^{50}Mn , and ^{54}Co . Physical Review Letters, 1974, 33, 1647-1649.	7.8	26
30	Beta decay of ^{62}Ga . Physical Review C, 2003, 68, .	2.9	25
31	QEC values of the superallowed $\hat{1}^2$ emitters ^{10}C , ^{34}Ar , ^{38}Ca , and ^{46}V . Physical Review C, 2011, 83, .	2.9	25
32	$\hat{1}^2$ Decay of ^{38}Ca : Sensitive test of Isospin Symmetry-Breaking Corrections from Mirror Superallowed $0^+ \rightarrow 0^+$ Transitions. Physical Review Letters, 2014, 112, 102502.	7.8	25
33	Test of internal-conversion theory with measurements in ^{134}Cs and ^{137}Ba . Physical Review C, 2007, 75, .	2.9	24
34	Internal conversion coefficients in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Cs} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle$	2.9	24
35	Half-life of the electron-capture decay of ^{97}Ru : Precision measurement shows no temperature dependence. Physical Review C, 2009, 80, .	2.9	23
36	Precise measurement of K -shell fluorescence yield in iridium: An improved test of internal-conversion theory. Physical Review C, 2005, 71, .	2.9	22

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37	Mirror Asymmetry of Fermi ² Decay. Physical Review Letters, 1972, 29, 1027-1030.	7.8	21
38	Precise half-life measurement of the superallowed ^{26}Si β^+ decay. Physical Review Letters, 2011, 107, 182301.	2.9	21
39	Experimental Validation of the Largest Calculated Isospin-Symmetry-Breaking Effect in a Superallowed Fermi Decay. Physical Review Letters, 2011, 107, 182301.	7.8	21
40	Fermi beta decay: The masses of Mg22, Si26, S30, and Ar34. Physical Review C, 1974, 9, 252-257.	2.9	20
41	Precise half-life measurement of the superallowed ^{38}Ca β^+ emitter. Physical Review C, 2011, 84, .	2.9	20
42	Do radioactive half-lives vary with the Earth-to-Sun distance?. Applied Radiation and Isotopes, 2012, 70, 1931-1933.	1.5	20
43	New analysis of ^{14}O β^+ decay: Branching ratios and conserved vector current consistency. Physical Review C, 2005, 72, .	2.9	19
44	The half-life of ^{198}Au : High-precision measurement shows no temperature dependence. European Physical Journal A, 2007, 34, 271-274.	2.5	17
45	Further test of internal-conversion theory with a measurement in ^{197}Pt β^+ decay. Physical Review C, 2009, 80, .	2.9	16
46	Branching ratios for the ^{21}Na β^+ decay. Physical Review C, 2006, 74, .	2.9	15
47	^{32}Cl β^+ decay: Precision β^+ -ray spectroscopy and a measurement of isospin-symmetry breaking. Physical Review C, 2012, 85, .	2.9	14
48	Precision half-life measurement of the ^{37}K β^+ decay. Physical Review C, 2014, 90, .	2.9	14
49	The measurement and interpretation of superallowed ^{20}O β^+ nuclear β^+ decay. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 114004.	3.6	14
50	Precise half-life measurement of the superallowed ^{10}C β^+ emitter. Physical Review C, 2008, 77, .	2.9	12
51	Precise measurement of the ^{10}C β^+ decay. Physical Review C, 2008, 77, .	2.9	12
52	High-precision QEC -value measurements for superallowed decays. European Physical Journal A, 2012, 48, 1.	2.5	11
53	Precise measurement of the ^{10}C β^+ decay. Physical Review C, 2008, 77, .	2.9	11
54	Precise test of internal-conversion theory: Transitions measured in five nuclei spanning 50Z . Applied Radiation and Isotopes, 2014, 87, 87-91.	1.5	10

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55	Precise half-life measurement of the superallowed ${}^2+_{\text{emitter}}46\text{V}$. Physical Review C, 2012, 85, .	2.9	10
56	Superallowed $0+ \hat{\nu}^0+ \hat{\nu}^2$ decay and CKM unitarity: A new overview including more exotic nuclei. European Physical Journal A, 2005, 25, 695-698.	2.5	9
57	Precise half-life measurement of the superallowed ${}^2+_{\text{emitter}}46\text{V}$. Physical Review C, 2012, 85, .	2.9	9
58	Precise measurement of branching ratios in the ${}^2+$ decay of $\text{Ca}38$. Physical Review C, 2015, 92, .	2.9	9
59	Precise measurement of ${}^2+$ decay for the 88.2-keV ${}^2+$ transition in ${}^2+$	2.9	7
60	Test of internal-conversion theory with precise ${}^3-$ and X-ray spectroscopy. Applied Radiation and Isotopes, 2006, 64, 1392-1395.	1.5	6
61	Tests of nuclear half-lives as a function of the host medium and temperature: Refutation of recent claims. Applied Radiation and Isotopes, 2010, 68, 1550-1554.	1.5	6
62	Measurement of the half-life of $\text{Au}198$ in a nonmetal: High-precision measurement shows no host-material dependence. Physical Review C, 2010, 82, .	2.9	6
63	Precise measurement of ${}^2+$ decay for the 88.2-keV ${}^2+$ transition in ${}^2+$	2.9	6
64	Precise measurement of ${}^2+$ decay for the 39.8-keV E3 transition in $\text{Rh}103$: Test of internal-conversion theory. Physical Review C, 2018, 98, .	2.9	6
65	Precise measurement of the superallowed ${}^2+$ emitter	2.9	5
66	Precise measurement of ${}^2+$ decay for the 109.3-keV M4 transition in $\text{Te}125$: Test of internal-conversion theory. Physical Review C, 2017, 95, .	2.9	5
67	High-precision half-life measurement of the ${}^2+$ decay of $\text{Na}21$. Physical Review C, 2018, 98, .	2.9	5
68	Precise branching ratio measurement for the superallowed ${}^2+$ decay of $\text{Si}26$: Completion of a second mirror pair. Physical Review C, 2019, 100, .	2.9	5
69	Superallowed $0+ \hat{\nu}^0+ \hat{\nu}^2$ beta-decay from ${}^2+$ shell nuclei. Journal of Physics: Conference Series, 2012, 387, 012006.	0.4	4
70	Precise half-life measurement of the superallowed emitter $\text{S}30$. Physical Review C, 2018, 97, .	2.9	4
71	Precise tests of internal-conversion theory. Applied Radiation and Isotopes, 2008, 66, 701-704.	1.5	3
72	Precise test of internal-conversion theory: ${}^2+$ measurements for transitions in nine nuclei spanning 45 $\hat{\nu}^0+ \hat{\nu}^2$. Applied Radiation and Isotopes, 2018, 134, 406-409.	1.5	3

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73	New precise half-life measurement for the superallowed \hat{I}^2+ emitter Ar34. Physical Review C, 2020, 101, .	2.9	3
74	The Cyclotron Institute at Texas A&M University. Nuclear Physics News, 2017, 27, 5-13.	0.4	2
75	K -shell internal conversion coefficient for M4 decay of the 30.8 keV isomer in Nb93. Physical Review C, 2020, 102, .	2.9	2
76	Precise $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ branching-ratio measurement for the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \frac{2}{3} \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ superallowed decay of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ar} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle$		
77	Superallowed $0+ \hat{a}^+ 0+$ beta-decay and CKM unitarity. , 2003, , 393-397.		2
78	FT values measured to $\hat{A} \pm 0.1\%$ for superallowed beta transitions: Metrology at sub-second time scales. Applied Radiation and Isotopes, 2014, 87, 297-301.	1.5	0
79	Intensity of a weak 519-keV \hat{I}^3 ray following \hat{I}^2 decay of the superallowed emitter Ar34 determined via the $S33 (p, \hat{I}^3) Cl34$ reaction. Physical Review C, 2020, 102, .	2.9	0
80	High-precision QEC-value measurements for superallowed decays. , 2012, , 337-344.		0