

# Hidetada Baba

## List of Publications by Year in descending order

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53  
papers

2,057  
citations

279798

23  
h-index

233421

45  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1409  
citing authors

#	ARTICLE	IF	CITATIONS
1	$I^2$ Decay Half-Lives of 110 Neutron-Rich Nuclei across the Shell Gap. <i>Physical Review Letters</i> , 2011, 106, 0525.	7.8	167
2	$r$ Process Path: An Indication of Fast Matter Flow. <i>Physical Review Letters</i> , 2011, 106, 0525.	7.8	166
3	$r$ The first excited state of $^{30}\text{Ne}$ studied by proton inelastic scattering in reversed kinematics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 566, 84-89.	4.1	145
4	78Ni revealed as a doubly magic stronghold against nuclear deformation. <i>Nature</i> , 2019, 569, 53-58.	27.8	120
5	Probing the Symmetry Energy with the Spectral Pion Ratio. <i>Physical Review Letters</i> , 2021, 126, 162701.	7.8	95
6	Well Developed Deformation in $^{42}\text{Si}$ . <i>Physical Review Letters</i> , 2012, 109, 182501.	7.8	94
7	$\text{Mg}$ Ray Spectroscopy of $^{36}\text{Mg}$ and $^{38}\text{Mg}$ . <i>Physical Review Letters</i> , 2009, 103, 032501.	7.8	92
8	$\text{Ne}$ Spectroscopy of $^{32}\text{Ne}$ and the $\beta$ -island of Inversion. <i>Physical Review Letters</i> , 2009, 103, 032501.	7.8	91
9	$\text{Ca}$ First Mass Measurements of $^{54}\text{Ca}$ . <i>Physical Review Letters</i> , 2011, 106, 052501.	7.8	89
10	GET: A generic electronics system for TPCs and nuclear physics instrumentation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 887, 81-93.	1.6	81
11	$\text{N}$ Island of Inversion towards $^{50}\text{N}$ . <i>Physical Review Letters</i> , 2011, 106, 052501.	7.8	77
12	$\text{Zr}$ Structural Evolution in the Neutron-Rich Nuclei $^{106}\text{Zr}$ and $^{108}\text{Zr}$ . <i>Physical Review Letters</i> , 2009, 102, 012502.	7.8	72
13	$\text{Cr}$ Development of Large Deformation in $^{62}\text{Cr}$ . <i>Physical Review Letters</i> , 2009, 102, 012502.	7.8	66
14	SĪERIT: A time-projection chamber for symmetry-energy studies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 784, 513-517.	1.6	66
15	$p$ Proton-Hole State in $^{132}\text{Sn}$ . <i>Physical Review Letters</i> , 2014, 112, 052501.	7.8	51
16	GET: A Generic Electronic System for TPCs for Nuclear Physics Experiments. <i>Physics Procedia</i> , 2012, 37, 1799-1804.	1.2	49
17	Proton inelastic scattering studies at the borders of the $\beta$ -island of inversion. <i>Physical Review C</i> , 2006, 73, .	2.9	45
18	Development of axial asymmetry in the neutron-rich nucleus $^{110}\text{Mo}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 704, 270-275.	4.1	43

#	ARTICLE	IF	CITATIONS
19	Symmetry energy investigation with pion production from Sn+Sn systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136016.	4.1	40
20	Shell evolution of $N=40$ isotones towards 60Ca: First spectroscopy of 62Ti. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135071.	4.1	32
21	Mapping the deformation in the second island of inversion in the $N=29$ isotones of Ne and Mg at intermediate energies. Physical Review C, 2016, 93.	2.9	28
22	Observation of New Neutron-rich Isotopes among Fission Fragments from In-flight Fission of 345 MeV/nucleon $^{238}\text{U}$ : Search for New Isotopes Conducted Concurrently with Decay Measurement Campaigns. Journal of the Physical Society of Japan, 2018, 87, 014203.	1.6	25
23	New data acquisition system for the RIKEN Radioactive Isotope Beam Factory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 616, 65-68.	1.6	24
24	Development of CVD diamond detector for time-of-flight measurements. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 710-713.	1.4	23
25	Commissioning of the BRIKEN detector for the measurement of very exotic $\hat{I}^2$ -delayed neutron emitters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 616, 65-68.	1.6	23
26	Mapping of a New Deformation Region Around $^{62}\text{Ti}$ . Physical Review C, 2010, 81, 035001.	7.8	23
27	Half-lives of 55 neutron-rich isotopes beyond the $N=28$ shell gap. Physical Review C, 2020, 101, .	2.9	23
28	$\hat{I}^2$ -delayed neutron emission of r-process nuclei at the $N=82$ shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136266.	4.1	21
29	Low-lying level structure of the neutron-rich nucleus $^{109}\text{Nb}$ : A possible oblate-shape isomer. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 186-190.	4.1	18
30	Spectroscopy of strongly deformed $^{32}\text{Ne}$ by proton knockout reactions. Physical Review C, 2019, 99, .	2.9	17
31	The BRIKEN Project: Extensive Measurements of $\beta$ -delayed Neutron Emitters for the Astrophysical r Process. Acta Physica Polonica B, 2018, 49, 417.	0.8	16
32	SHARAO spectrometer for high-resolution studies for RI-induced reactions. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 305-310.	1.4	14
33	Decays of the $r$ -process nuclei $^{132}\text{La}$ and $^{132}\text{Ce}$ . Physical Review C, 2019, 99, .	2.9	13
34	Application of the Generic Electronics for Time Projection Chamber (GET) readout system for heavy Radioactive isotope collision experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 899, 43-48.	1.6	12
35	Decays of the $r$ -process nuclei $^{132}\text{La}$ and $^{132}\text{Ce}$ . Physical Review C, 2019, 99, .	7.8	12
36	Isoscalar compressional strengths in $^{140}\text{Sn}$ . Nuclear Physics A, 2007, 788, 188-193.	1.5	10

#	ARTICLE	IF	CITATIONS
37	Proton-hole and core-excited states in the semi-magic nucleus $^{131}\text{In}$ . European Physical Journal A, 2016, 52, 1.	2.5	9
38	Beam commissioning of the S $\ddot{I}$ ERIT time projection chamber. Journal of the Korean Physical Society, 2016, 69, 144-151.	0.7	9
39	First spectroscopy of $^{61}\text{Ti}$ and the transition to the Island of Inversion at $N=Z=40$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 16-20.	4.1	8
40	Observation of new neutron-rich isotopes in the vicinity of $^{110}\text{Zr}$ . Physical Review C, 2021, 103, .	2.9	7
41	The S $\ddot{I}$ ERIT time projection chamber. Review of Scientific Instruments, 2021, 92, 063302.	1.3	6
42	Spectroscopy of $^{33}\text{Mg}$ with knockout reactions. Physical Review C, 2021, 103, .	2.9	6
43	Rapidity distributions of $Z=1$ isotopes and the nuclear symmetry energy from Sn+Sn collisions with radioactive beams at 270 MeV/nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136681.	4.1	5
44	Time-stamping system for nuclear physics experiments at RIKEN RIBF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 777, 75-79.	1.6	4
45	Inclusive cross sections for one- and multi-nucleon removal from Sn, Sb, and Te projectiles beyond the $N=Z=82$ shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 356-361.	4.1	4
46	First spectroscopic study of $^{63}\text{V}$ at the island of inversion. Physical Review C, 2021, 103, .	2.9	4
47	A first glimpse at the shell structure beyond $^{54}\text{Ca}$ : Spectroscopy of $^{55}\text{K}$ , $^{55}\text{Ca}$ , and $^{57}\text{Ca}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136953.	4.1	4
48	Isomeric states in neutron-rich nuclei near $^{40}\text{N}$ . Physical Review C, 2021, 104, .	2.9	4
49	Sharaq Spectrometer: High-resolution Spectroscopy Using Exotic Beams And Reactions. , 2017, , .		2
50	Border of the island of inversion: Unbound states in $^{29}\text{Ne}$ . Physical Review C, 2022, 105, .	2.9	2
51	MPV $\ddot{a}$ Parallel Readout Architecture for the VME Data Acquisition System. IEEE Transactions on Nuclear Science, 2021, 68, 1841-1848.	2.0	1
52	DAQ coupling in RIKEN RIBF. , 2014, , .		0
53	Indirect method to estimate the deadtime of a data acquisition system as a function of the data size. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, , 166823.	1.6	0