## Takashi Nakatsukasa

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Self-consistent energy density functional approaches to the crust of neutron stars. EPJ Web of Conferences, 2022, 260, 11041.	0.3	0
2	Microscopic collective inertial masses for nuclear reaction in the presence of nucleonic effective mass. Physical Review C, 2022, 105, .	2.9	0
3	Finite-amplitude method for collective inertia in spontaneous fission. Physical Review C, 2021, 103, .	2.9	19
4	Coordinate-space solver for finite-temperature Hartree-Fock-Bogoliubov calculations using the shifted Krylov method. Physical Review C, 2020, 101, .	2.9	12
5	Collective Inertial Masses in Nuclear Reactions. Frontiers in Physics, 2020, 8, .	2.1	2
6	Nuclear Structure and Reaction with Quantum Shape Fluctuation. , 2020, , .		0
7	Self-consistent band calculation of the slab phase in the neutron-star crust. Physical Review C, 2019, 100, .	2.9	9
8	Nuclear chart of deformation. Atomos, 2019, 61, 610-615.	0.0	0
9	Comparative study of the requantization of the time-dependent mean field for the dynamics of nuclear pairing. Physical Review C, 2018, 97, .	2.9	3
10	Nuclear Reaction Path and Requantization of TDDFT. , 2018, , .		1
11	Low-lying collective excited states in nonintegrable pairing models based on the stationary-phase approximation to the path integral. Physical Review C, 2018, 98, .	2.9	2
12	Multipole Modes for Triaxially Deformed Superfluid Nuclei. , 2018, , .		3
13	Octupole deformation in the nuclear chart based on the 3D Skyrme Hartree–Fock plus BCS model. Physica Scripta, 2017, 92, 064005.	2.5	38
14	Density Functional Calculations for the Neutron Star Matter at Subnormal Density. , 2017, , .		0
15	Adiabatic self-consistent collective path in nuclear fusion reactions. Physical Review C, 2017, 96, .	2.9	13
16	Multipole modes of excitation in triaxially deformed superfluid nuclei. Physical Review C, 2017, 96, .	2.9	12
17	Microscopic derivation of the quadrupole collective Hamiltonian for shape coexistence/mixing dynamics. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 024006.	3.6	16
18	Self-consistent collective coordinate for reaction path and inertial mass. Physical Review C, 2016, 94, .	2.9	14

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Τακάσηι Νακατσυκάσα

#	Article	IF	CITATIONS
19	Time-dependent density-functional description of nuclear dynamics. Reviews of Modern Physics, 2016, 88, .	45.6	185
20	Quantal rotation and its coupling to intrinsic motion in nuclei. Physica Scripta, 2016, 91, 073008.	2.5	12
21	Microscopic derivation of the Bohr–Mottelson collective Hamiltonian and its application to quadrupole shape dynamics. Physica Scripta, 2016, 91, 063014.	2.5	16
22	Repulsive Aspects of Pairing Correlation in Nuclear Fusion Reaction. , 2015, , .		7
23	Pairing Effects in Nuclear Fusion Reaction. , 2014, , .		6
24	Systematic investigation of low-lying dipole modes using the canonical-basis time-dependent Hartree-Fock-Bogoliubov theory. Physical Review C, 2014, 90, .	2.9	49
25	Finite-amplitude method: an extension to the covariant density functionals. Physica Scripta, 2014, 89, 054018.	2.5	6
26	Finite amplitude method in linear response TDDFT calculations. Journal of Physics: Conference Series, 2014, 533, 012054.	0.4	3
27	Systematic investigation of <i>E</i> l strength for the isotopes from <i>Z</i> = 28 to 50. Journal of Physics: Conference Series, 2013, 445, 012021.	0.4	3
28	Shape evolution of giant resonances in Nd and Sm isotopes. Physical Review C, 2013, 88, .	2.9	42
29	Low-energyE1strength in select nuclei: Possible constraints on neutron skin and symmetry energy. Physical Review C, 2013, 88, .	2.9	24
30	Efficient calculation for the quasiparticle random-phase approximation matrix. Physical Review C, 2013, 87, .	2.9	31
31	Energy-density-functional calculations including proton-neutron mixing. Physical Review C, 2013, 88, .	2.9	24
32	Feasibility of the finite-amplitude method in covariant density functional theory. Physical Review C, 2013, 87, .	2.9	42
33	Cb-TDHFB Calculation for the Low-Lying \$E1\$ Strength of Heavy Nuclei around the \$r\$-Process Path. Progress of Theoretical Physics Supplement, 2012, 196, 316-321.	0.1	0
34	Shell and Neutron-Skin Effects on Pygmy Dipole Resonances. Progress of Theoretical Physics Supplement, 2012, 196, 365-370.	0.1	1
35	Fragmentation of electric dipole strength inN=82isotones. Physical Review C, 2012, 85, .	2.9	15
36	Shape transition and fluctuations in neutron-rich Cr isotopes aroundN=40. Physical Review C, 2012, 86, .	2.9	35

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37	Microscopic Analysis of Shape Coexistence/Mixing and Shape Phase Transition in Neutron-Rich Nuclei around \$^{32}\$Mg. Progress of Theoretical Physics Supplement, 2012, 196, 328-333.	0.1	0
38	Density functional approaches to collective phenomena in nuclei: Time-dependent density functional theory for perturbative and non-perturbative nuclear dynamics. Progress of Theoretical and Experimental Physics, 2012, 2012, .	6.6	34
39	Microscopic approach to large-amplitude deformation dynamics with local QRPA inertial masses. Journal of Physics: Conference Series, 2012, 381, 012103.	0.4	0
40	Study of pygmy dipole resonance with a new time-dependent mean field theory. Journal of Physics: Conference Series, 2012, 381, 012104.	0.4	1
41	Time-dependent Hartree-Fock studies of the dynamical fusion threshold. EPJ Web of Conferences, 2012, 38, 09003.	0.3	47
42	Real-time calculations of many-body dynamics in quantum systems. Journal of Physics: Conference Series, 2012, 402, 012032. Shape fluctuations in the ground and excited combinath	0.4	0
43	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:msup><mml:mn>0+</mml:mn></mml:msup> states of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:msup><mml:mrow< td=""><td>2.9</td><td>47</td></mml:mrow<></mml:msup></mml:math>	2.9	47
44	/> <mml:mrow><mml:mn>30&lt;3032323232323232323232323232323232323232323232323232323232323232323232323232323232323232323232323232323232323232323232323232</mml:mn></mml:mrow>	mml:mn>3 2.9	3479
45	Density functional approaches to atomic nuclei. Journal of Physics: Conference Series, 2011, 302, 012050.	0.4	0
46	Skyrme energy-density functional approach to collective dynamics. Journal of Physics: Conference Series, 2011, 321, 012017.	0.4	3
47	Dipole responses in Nd and Sm isotopes with shape transitions. Physical Review C, 2011, 83, .	2.9	55
48	Emergence of pygmy dipole resonances: Magic numbers and neutron skins. Physical Review C, 2011, 84, .	2.9	88
49	Microscopic description of large-amplitude shape-mixing dynamics with local QRPA inertial functions. , 2011, , .		0
50	Open problems in nuclear structure near drip lines. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 064017.	3.6	9
51	Canonical-basis time-dependent Hartree-Fock-Bogoliubov theory and linear-response calculations. Physical Review C, 2010, 82, .	2.9	133
52	Microscopic description of large-amplitude shape-mixing dynamics with inertial functions derived in local quasiparticle random-phase approximation. Physical Review C, 2010, 82, .	2.9	64
53	SYSTEMATIC CALCULATION OF ELECTRIC DIPOLE STRENGTH WITH SKYRME-HF PLUS RPA. Modern Physics Letters A, 2010, 25, 1931-1934.	1.2	1
54	PHENOMENOLOGICAL ANALYSIS OF THE OBLATE-PROLATE SYMMETRY BREAKING IN TRIAXIAL DEFORMATION DYNAMICS. Modern Physics Letters A, 2010, 25, 2018-2019.	1.2	0

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#	Article	IF	CITATIONS
55	THE FINITE AMPLITUDE METHOD FOR THE QRPA. Modern Physics Letters A, 2010, 25, 1999-2000.	1.2	Ο
56	MICROSCOPIC APPROACH TO ADIABATIC LARGE-AMPLITUDE QUADRUPOLE COLLECTIVE DYNAMICS IN Se ISOTOPES. Modern Physics Letters A, 2010, 25, 1796-1799.	1.2	4
57	MICROSCOPIC ANALYSIS OF SHAPE MIXING IN LOW-LYING STATES OF PROTON-RICH Kr ISOTOPES. Modern Physics Letters A, 2010, 25, 2020-2021.	1.2	0
58	Microscopic derivation of five-dimensional collective Hamiltonian of large-amplitude quadrupole motion: application to shape coexistence in proton-rich Se isotopes. , 2010, , .		0
59	Large-amplitude quadrupole collective dynamics of shape coexistence phenomena in proton-rich Se and Kr isotopes. , 2010, , .		0
60	N-body nuclear forces at short distances in holographic QCD. Physical Review D, 2010, 81, .	4.7	9
61	Time-Dependent Density-Functional Theory for Oscillator Strength Distribution. , 2010, , 65-86.		1
62	Collective path and inertial mass of large-amplitude collective dynamics: Application to shape coexistence. , 2009, , .		1
63	Self-consistent calculation of nuclear photoabsorption cross sections: Finite amplitude method with Skyrme functionals in the three-dimensional real space. Physical Review C, 2009, 80, .	2.9	72
64	Microscopic description of oblate-prolate shape mixing in proton-rich Se isotopes. Physical Review C, 2009, 80, .	2.9	49
65	RESPONSE FUNCTIONS IN THE CONTINUUM OF DEFORMED NUCLEI STUDIED WITH THE TIME-DEPENDENT DENSITY-FUNCTIONAL CALCULATIONS. International Journal of Modern Physics E, 2009, 18, 2088-2092.	1.0	1
66	TDDFT APPROACH TO PHOTOABSORPTION IN EVEN-EVEN NUCLEI. International Journal of Modern Physics A, 2009, 24, 2159-2167.	1.5	0
67	Non-local mean field effect on nuclei near <mmi:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"&gt;<mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>64</mml:mn> sub-shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680,</mmi:math 	4.1	58
68	MICROSCOPIC DYNAMICS OF SHAPE COEXISTENCE PHENOMENA AROUND <sup>68</sup> <font>Se</font> AND <sup>72</sup> <font>Kr</font> ., 2008, .		0
69	MICROSCOPIC DYNAMICS OF SHAPE COEXISTENCE PHENOMENA AROUND <sup>68</sup> <font>Se</font> AND <sup>72</sup> <font>Kr</font> ., 2008, .		Ο
70	Finite amplitude method for the solution of the random-phase approximation. Physical Review C, 2007, 76, .	2.9	139
71	Real-time Skyrme TDHF dynamics of giant resonances. Nuclear Physics A, 2007, 788, 349-354.	1.5	4
72	Fusion reaction of halo nuclei: A real-time wave-packet method for three-body tunneling dynamics. AIP Conference Proceedings, 2006, , .	0.4	1

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#	Article	IF	CITATIONS
73	Configuration mixing calculation for complete low-lying spectra with a mean-field Hamiltonian. Physical Review C, 2006, 74, .	2.9	16
74	Linear response theory in the continuum for deformed nuclei: Green's function vs time-dependent Hartree-Fock with the absorbing boundary condition. Physical Review C, 2005, 71, .	2.9	149
75	Collective Path Connecting the Oblate and Prolate Local Minima in 68Se. Progress of Theoretical Physics, 2004, 112, 363-368.	2.0	3
76	Continuum Response and Reaction in Neutron-Rich Be Nuclei. AIP Conference Proceedings, 2004, , .	0.4	1
77	RESPONSE IN THE CONTINUUM FOR LIGHT DEFORMED NEUTRON-RICH NUCLEI. , 2004, , .		Ο
78	Oscillator strength distribution in C3H6 isomers studied with the time-dependent density functional method in the continuum. Chemical Physics Letters, 2003, 374, 613-619.	2.6	7
79	Application of density-functional theory to line broadening: Cs atoms in liquid helium. Physical Review A, 2002, 65, .	2.5	18
80	3D Real-Space Calculation of the Continuum Response. Progress of Theoretical Physics Supplement, 2002, 146, 447-451.	0.1	11
81	ATOMIC SPECTRA IN A HELIUM BUBBLE. , 2002, , .		Ο
82	Photoabsorption spectra in the continuum of molecules and atomic clusters. Journal of Chemical Physics, 2001, 114, 2550-2561.	3.0	91
83	A basis of cranking operators for the pairing-plus-quadrupole model. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, L23-L28.	3.6	3
84	Self-consistent collective subspaces and diabatic/adiabatic motion in nuclei. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 815-817.	3.6	0
85	Local harmonic approaches with approximate cranking operators. Physical Review C, 1999, 61, .	2.9	8
86	Title is missing!. European Physical Journal D, 1998, 48, 813-816.	0.4	1
87	Diabatic and adiabatic collective motion in a model pairing system. Physical Review C, 1998, 57, 1192-1203.	2.9	13
88	Collective coordinates, shape transitions, and shape coexistence: A microscopic approach. Physical Review C, 1998, 58, 3397-3406.	2.9	8
89	Microscopic structure of high-spin vibrational excitations in superdeformedHg190,192,194. Physical Review C, 1996, 53, 2213-2226.	2.9	63
90	Octupole correlations in excited bands of superdeformed 152Dy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 343, 19-24.	4.1	21

#	Article	IF	CITATIONS
91	Effects of Octupole Vibrations on Quasiparticle Modes of Excitation in Superdeformed <sup>193</sup> Hg. Progress of Theoretical Physics, 1993, 89, 847-854.	2.0	9
92	Octupole Vibrations in the Harmonic-Oscillator-Potential Model with Axis Ratio Two to One. Progress of Theoretical Physics, 1992, 87, 607-626.	2.0	22