

# Kazuyuki Ogata

## List of Publications by Year in descending order

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Version: 2024-02-01

154  
papers

3,034  
citations

136950

32  
h-index

189892

50  
g-index

155  
all docs

155  
docs citations

155  
times ranked

1264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a Large Reaction Cross Section in the Drip-Line Nucleus $C$ . Physical Review Letters, 2010, 104, 062701.	7.8	198
2	Continuum-discretized coupled-channels method for four-body nuclear breakup in $He6+C12$ scattering. Physical Review C, 2004, 70, .	2.9	137
3	$78Ni$ revealed as a doubly magic stronghold against nuclear deformation. Nature, 2019, 569, 53-58.	27.8	120
4	Coulomb breakup effects on the elastic cross section of $He6+Bi209$ scattering near Coulomb barrier energies. Physical Review C, 2006, 73, .	2.9	113
5	Determination of the Structure of $Ne$ by a Fully Microscopic Framework. Physical Review Letters, 2012, 108, 052503.	7.8	91
6	New treatment of breakup continuum in the method of continuum discretized coupled channels. Physical Review C, 2003, 68, .	2.9	90
7	The continuum discretized coupled-channels method and its applications. Progress of Theoretical and Experimental Physics, 2012, 2012, 1A206-0.	6.6	90
8	Deformation of Ne isotopes in the region of the island of inversion. Physical Review C, 2012, 85, .	2.9	75
9	Low-lying intruder state of the unbound nucleus $13Be$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 245-249.	4.1	72
10	The Half-life of $^{130}Te$ Double $\beta^2$ -decay. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1966, 21, 84-90.	1.5	70
11	Proton-induced knockout reactions with polarized and unpolarized beams. Progress in Particle and Nuclear Physics, 2017, 96, 32-87.	14.4	69
12	Quantum Three-Body Calculation of the Nonresonant Triple- $\alpha$ Reaction Rate at Low Temperatures. Progress of Theoretical Physics, 2009, 122, 1055-1064.	2.0	66
13	Brief review of the microscopic nucleon-nucleus potential. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 085011.	3.6	65
14	Quenching of single-particle strength from direct reactions with stable and rare-isotope beams. Progress in Particle and Nuclear Physics, 2021, 118, 103847.	14.4	64
15	Deformation effect on total reaction cross sections for neutron-rich Ne isotopes. Physical Review C, 2011, 84, .	2.9	63
16	Persistence of the Shell Gap Around $Z=28$ in $Ni$ Isotopes. Physical Review Letters, 2017, 118, 022701.	7.8	62
17	Formation of $\beta$ clusters in dilute neutron-rich matter. Science, 2021, 371, 260-264.	12.6	57
18	Semiclassical distorted-wave model analysis of the $(\alpha, K^+)$ formation inclusive spectrum. Physical Review C, 2006, 74, .	2.9	51

#	ARTICLE	IF	CITATIONS
19	Corroborates Arising Halo Structure of the Neutron-Dripline Nucleus $^{54}\text{Ca}$ . Physical Review Letters, 2020, 124, 212503.	7.8	48
20	Quasifree Neutron Knockout Reaction Reveals a Small Orbital Component in the Borromean Nucleus $^{19}\text{B}$ . Physical Review Letters, 2020, 124, 212503.	7.8	43
21	Determination of $^{17}\text{F}$ from $^{8}\text{B}$ breakup by means of the method of continuum-discretized coupled channels. Physical Review C, 2006, 73, .	2.9	42
22	Microscopic calculations based on chiral two- and three-nucleon forces for proton- and $^4\text{He}$ -nucleus scattering. Physical Review C, 2015, 92, .	7.8	42
23	New coupled-channel approach to nuclear and Coulomb breakup reactions. Physical Review C, 2003, 68, .	2.9	41
24	Exclusive quasi-free proton knockout from oxygen isotopes at intermediate energies. Progress of Theoretical and Experimental Physics, 2018, 2018, .	2.9	40
25	One-neutron removal reactions of $^{18}\text{C}$ and $^{19}\text{C}$ on a proton target. Physical Review C, 2009, 79, .	6.6	40
26	Asymmetry of the parallel momentum distribution of $^{13}\text{C}$ reaction residues. Physical Review C, 2015, 92, .	2.9	39
27	Gaussian expansion approach to nuclear and Coulomb breakup. Physical Review C, 2004, 70, .	2.9	38
28	Investigating $^{11}\text{Li}$ clustering on the surface of $^{110}\text{Sn}$ . Physical Review Letters, 2020, 125, 252501.	2.9	37
29	Surface Localization of the Dineutron in $^{11}\text{Li}$ via the $^{11}\text{Li} + \text{p}$ Reaction. Physical Review Letters, 2020, 125, 252501.	7.8	36
30	Model analysis of $^{11}\text{Li}$ on $^{12}\text{C}$ . Physical Review Letters, 2020, 125, 252501.	2.9	34
31	Determination of $^{17}\text{F}$ from the $^7\text{Be}(d,n)^8\text{B}$ reaction. Physical Review C, 2003, 67, .	2.9	33
32	Eikonal Reaction Theory for Neutron Removal Reaction. Progress of Theoretical Physics, 2011, 126, 167-176.	2.0	29
33	Coupled-channels calculations for nuclear reactions: From exotic nuclei to superheavy elements. Progress in Particle and Nuclear Physics, 2022, 125, 103951.	14.4	29
34	A New Glauber Theory Based on Multiple Scattering Theory. Progress of Theoretical Physics, 2008, 120, 767-783.	2.0	28
35	New Approach for Evaluating Incomplete and Complete Fusion Cross Sections with Continuum-Discretized Coupled-Channels Method. Progress of Theoretical Physics, 2009, 122, 1291-1300.	2.0	28

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37	JENDL/DEU-2020: deuteron nuclear data library for design studies of accelerator-based neutron sources. Journal of Nuclear Science and Technology, 2021, 58, 805-821.	1.3	26

38	Applicability of the continuum-discretized coupled-channels method to the deuteron breakup at low energies. Physical Review C, 2016, 94, .	2.9	25
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55	Three-body breakup of ${}^6\text{He}$ and its halo structure. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 814, 136072.	4.1	15
56	Two neutron decay from the $21^+$ state of ${}^6\text{He}$ . <i>Physical Review C</i> , 2013, 88, .	2.9	14
57	Quantitative description of the ${}^{20}\text{Ne}(p, p^{\pm}){}^{16}\text{O}$ reaction as a means of probing the surface $\hat{1}\pm$ amplitude. <i>Physical Review C</i> , 2019, 100, .	2.9	14
58	How Different is the Core of ${}^{25}\text{F}$ ? <i>Physical Review C</i> , 2019, 100, .	7.8	14
59	Semiclassical distorted wave model with Wigner transform of one-body density matrix. <i>Physical Review C</i> , 1999, 60, .	2.9	13
60	Theoretical modification on semiclassical distorted wave model and its application to the study of spin observables. <i>Physical Review C</i> , 1999, 60, .	2.9	13
61	Determination of the ${}^{20}\text{Ne}(p, p^{\pm}){}^{16}\text{O}$ reaction as a means of probing the surface $\hat{1}\pm$ amplitude. <i>Physical Review C</i> , 2019, 100, .	2.9	13
62	Examination of the adiabatic approximation for (d,p) reactions. <i>Physical Review C</i> , 2017, 95, .	2.9	13
63	Cluster structures and monopole transitions of ${}^{14}\text{C}$ . <i>Physical Review C</i> , 2020, 101, .	2.9	13
64	Physics and Chemistry: Preliminary Report on the Masses of ${}^{12}\text{C}$ and ${}^{14}\text{N}$ . <i>Nature</i> , 1939, 143, 797-797.	27.8	12
65	Extracting the electric dipole breakup cross section of one-neutron halo nuclei from inclusive breakup observables. <i>Progress of Theoretical and Experimental Physics</i> , 2014, 2014, 53D03-0.	6.6	12
66	Microscopic effective reaction theory for deuteron-induced reactions. <i>Physical Review C</i> , 2016, 94, .	2.9	12
67	Microscopic calculation of inelastic proton scattering off ${}^{18}\text{O}$ , ${}^{10}\text{Be}$ , ${}^{12}\text{Be}$ , and ${}^{16}\text{C}$ to study neutron excitation in neutron-rich nuclei. <i>Physical Review C</i> , 2019, 100, .	2.9	12
68	Description of Four-Body Breakup Reaction with the Method of Continuum-Discretized Coupled-Channels. <i>Progress of Theoretical Physics</i> , 2009, 121, 789-807.	2.0	11
69	Benchmarking theoretical formalisms for (p,pn) reactions: The ${}^{15}\text{C}(p, pn){}^{14}\text{C}$ case. <i>Physical Review C</i> , 2018, 97, .	2.9	11
70	Direct probing of the cluster structure in ${}^{12}\text{Be}$ via the ${}^{12}\text{Be}(\text{p}, \text{p}^{\pm}){}^{11}\text{B}$ reaction. <i>Physical Review C</i> , 2019, 99, .	2.9	11
71	Unexpectedly enhanced ${}^{76}\text{Ni}$ $\hat{1}\pm$ -particle preformation in ${}^{76}\text{Ni}(\text{p}, \text{p}^{\pm}){}^{75}\text{Ni}$ reaction. <i>Physical Review C</i> , 2019, 99, .	2.9	11
72	Unexpectedly enhanced ${}^{76}\text{Ni}$ $\hat{1}\pm$ -particle preformation in ${}^{76}\text{Ni}(\text{p}, \text{p}^{\pm}){}^{75}\text{Ni}$ reaction. <i>Physical Review C</i> , 2019, 99, .	2.9	11

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73	Pairing Forces Govern Population of Doubly Magic $^{54}\text{Ca}$ . <a href="#">Physical Review Letters, 2021, 126, 252501.</a> $\langle N \rangle = 32$	7.8	11
74	Preliminary Report on a large Mass Spectrograph newly constructed at Osaka University. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1955, 10, 843-850.	1.5	10
75	Breakup and finite-range effects on the $B8(d,n)^9\text{C}$ reaction. Physical Review C, 2015, 91, .	2.9	10
76	First microscopic coupled-channels calculation of cross sections for inelastic $\hat{I}_{\pm}$ scattering off $O16$ . Physical Review C, 2019, 99, .	2.9	10
77	Investigation of spatial manifestation of $\hat{I}_{\pm}$ clusters in $^{16}\text{O}$ via $\hat{I}_{\pm}$ -transfer reactions. Nuclear Physics A, 2019, 983, 38-52.	1.5	10
78	shell closure below calcium: Low-lying structure of $^{50}\text{Ar}$ . <a href="#">Physical Review C, 2020, 102, .</a> $\langle N \rangle = 50$	2.9	10
79	Four-body dynamics in $^{6}\text{Li}$ elastic scattering. Physical Review C, 2015, 92, .	2.9	9
80	Borromean Feshbach resonance in $^{11}\text{Li}$ studied via $^{11}\text{Li}(p,p')^A$ . Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	9
81	Toward a reliable description of $^{20}\text{Ne}(p,p')^A$ reactions in the distorted-wave impulse approximation. Physical Review C, 2019, 100, .	2.9	9
82	Properties of $K^{\pi}=01^{+}$ , $K^{\pi}=2^{-}$ , and $K^{\pi}=01^{+}$ bands of $^{20}\text{Ne}$ probed via proton and $\hat{I}_{\pm}$ inelastic scattering. Physical Review C, 2020, 101, .	2.9	9
83	Semiclassical distorted wave model analysis of the complete set of spin transfer coefficients for multistep direct ( $p,nx$ ) at 350 MeV. Nuclear Physics A, 2002, 703, 152-166.	1.5	8
84	Smoothing Method of Discrete Breakup S-Matrix Elements in the Theory of Continuum-Discretized Coupled Channels. Progress of Theoretical Physics, 2009, 121, 885-894.	2.0	7
85	Three-Body Model Analysis of Subbarrier $\hat{A}$ Transfer Reaction. Progress of Theoretical Physics, 2011, 125, 1193-1204.	2.0	7
86	Cross sections and polarization observables for the $^{40}\text{Ca}(p,n)$ reaction at 345 MeV and multistep contributions in the continuum. Physical Review C, 2002, 65, .	2.9	6
87	Transition properties of low-lying states in $^{28}\text{Si}$ probed via inelastic proton and $\hat{I}_{\pm}$ . <a href="#">Physical Review C, 2021, 104, .</a> $\langle N \rangle = 28$	2.9	6
88	Investigation of the ground-state spin inversion in the neutron-rich $^{47}\text{Cl}$ isotopes. Physical Review C, 2021, 104, .	2.9	6
89	Analysis of $(K^{-},K^{+})$ Inclusive Spectrum with Semiclassical Distorted Wave Model. Progress of Theoretical Physics, 2008, 119, 1005-1027.	2.0	5
90	Eikonal reaction theory for two-neutron removal reactions. Physical Review C, 2014, 90, .	2.9	5

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91	Practical method for decomposing discretized breakup cross sections into components of each channel. Physical Review C, 2021, 103, .	2.9	5
92	Effect of deuteron breakup on the deuteron- $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \hat{z} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ correlation function. Physical Review C, 2021, 103, .	2.9	5
93	Quenching of the analyzing power for inclusive quasielastic ( $\langle \text{mml:math} \rangle T_j \text{ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 672 Td} \langle \text{xmln} \rangle$ scattering. Physical Review C, 2007, 76, .	2.9	4
94	Properties of Nuclear and Coulomb Breakup of $\langle \text{sup} \rangle 8 \langle \text{/sup} \rangle \text{B}$ . Journal of the Physical Society of Japan, 2009, 78, 084201.	1.6	4
95	Neutron dominance in excited states of Mg26 and Be10 probed by proton and $\hat{I}_{\pm}$ inelastic scattering. Physical Review C, 2020, 102, .	2.9	4
96	Probing negative-parity states of Mg24 probed with proton and $\hat{I}_{\pm}$ inelastic scattering. Physical Review C, 2021, 103, . First spectroscopic study of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \sqrt{\langle \text{mml:mprescripts} \rangle} \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 63 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ at the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 40 \langle \text{mml:mn} \rangle$ island of inversion. Physical Review C, 2021, 103, .	2.9	4
97	$\sqrt{\langle \text{mml:mprescripts} \rangle} \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 63 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ at the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 40 \langle \text{mml:mn} \rangle$ island of inversion. Physical Review C, 2021, 103, .	2.9	4
98	Three-body description of C9 : Role of low-lying resonances in breakup reactions. Physical Review C, 2021, 104, .	2.9	4
99	Isotopic Anomalies of Xenon from Tellurium minerals. Journal of the Mass Spectrometry Society of Japan, 1968, 16, 113-154.	0.1	4
100	A first glimpse at the shell structure beyond 54Ca: Spectroscopy of 55K, 55Ca, and 57Ca. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136953.	4.1	4
101	Three-Body Model Calculation of Spin Distribution in Two-Nucleon Transfer Reaction for the System of $^{238}\text{U}(18\text{O},16\text{O})^{240}\text{U}$ Reaction. Journal of Nuclear Science and Technology, 2011, 48, 1337-1342.	1.3	3
102	Determination of $8\text{B}(p, \hat{I}^3)9\text{C}$ Reaction Rate From $9\text{C}$ Breakup. Few-Body Systems, 2013, 54, 1583-1586.	1.5	3
103	Large-amplitude quadrupole shape mixing probed by the $(p, p')$ reaction: A model analysis. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	3
104	Coulomb breakup reactions of $^{93,94}\text{Zr}$ in inverse kinematics. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	3
105	Microscopic coupled-channel calculation of proton and alpha inelastic scattering to the $4^+_{-1}$ and $4^+_{-2}$ states of $^{24}\text{Mg}$ . Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	3
106	Continuum-discretized coupled-channels method for four-body breakup reactions. AIP Conference Proceedings, 2005, , .	0.4	2
107	COUPLED-CHANNELS ANALYSES OF $\langle \text{sup} \rangle 6 \langle \text{/sup} \rangle \langle \text{font} \rangle \text{He} \langle \text{/font} \rangle$ BREAKUP REACTIONS. International Journal of Modern Physics A, 2009, 24, 2191-2197.	1.5	2
108	Study of Tensor Correlations in $4\text{He}$ via the $4\text{He}(p, dp)d$ and $4\text{He}(p, dp)pn$ Reactions. Few-Body Systems, 2013, 54, 1353-1356.	1.5	2





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127	Calculation of the complete set of spin transfer coefficients including one- and two-step processes in (p,nx) reaction at 346 MeV. AIP Conference Proceedings, 2001, , .	0.4	0
128	Semiclassical Distorted Wave Model Analysis of Inclusive ( $\langle i \rangle N, N \hat{\epsilon}^{\text{TM}} x \langle i \rangle$ ) Reactions for Incident Energies up to 400 MeV. Journal of Nuclear Science and Technology, 2002, 39, 750-753.	1.3	0
129	Determination of S17 from 8B breakup by means of the method of continuum-discretized coupled-channels. AIP Conference Proceedings, 2006, , .	0.4	0
130	MICROSCOPIC APPROACH TO SCATTERING OF UNSTABLE NUCLEI. Modern Physics Letters A, 2010, 25, 1754-1758.	1.2	0
131	Nuclear Astrophysics Studies with the Method of Continuum-Discretized Coupled-Channels. , 2010, , .		0
132	Eikonal Reaction Theory for One- and Two-Neutron Removal Reactions. Few-Body Systems, 2013, 54, 1417-1419.	1.5	0
133	Four-Body CDCC Analysis for Breakup Reactions of Three-Body Projectiles. Few-Body Systems, 2013, 54, 1437-1440.	1.5	0
134	Breakup dynamics in 6Li elastic scattering with four-body and three-body CDCC. Journal of Physics: Conference Series, 2014, 569, 012048.	0.4	0
135	Extracting the Electric Dipole Breakup Cross Section of One-Neutron Halo Nuclei from Inclusive Breakup Observables. , 2015, , .		0
136	Systematic Analysis for Distribution of Extra Neutrons and Core in Halo Nucleus. , 2015, , .		0
137	Microscopic effective reaction theory for direct nuclear reactions. EPJ Web of Conferences, 2016, 122, 06003.	0.3	0
138	Determination of the 8B(p, $\hat{\epsilon}$ ...(gamma ))9C Reaction Rate Through Direct Nuclear Reaction Theories. , 2017, , .		0
139	Probing surface distributions of a clusters in 20Ne via $\hat{I}_{\pm}$ -transfer reaction. Journal of Physics: Conference Series, 2017, 863, 012036.	0.4	0
140	Four- and three-body breakup mechanism of 6Li elastic scattering. Journal of Physics: Conference Series, 2017, 863, 012042.	0.4	0
141	M1 Strength in Photonuclear Reactions with Linearly Polarized $\hat{I}^3$ -ray Beam. , 2017, , .		0
142	CALCULATION OF SPIN OBSERVABLES WITH THE SEMI-CLASSICAL DISTORTED WAVE (SCDW) MODEL. , 2000, , .		0
143	DETERMINATION OF S17 BASED ON CDCC ANALYSES FOR 7Be(d,n)8B. , 2002, , .		0
144	DEPENDENCE OF THE COMPLETE SET OF SPIN TRANSFER COEFFICIENTS ON EFFECTIVE INTERACTION IN NUCLEAR MEDIUM. , 2003, , .		0

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145	DETERMINATION OF $S_{17}$ BASED ON CDCC ANALYSIS OF $^8\text{B}$ DISSOCIATION. , 2004, , .		0
146	Invariant-mass spectroscopy of the unbound nucleus $^{13}\text{Be}$ . , 2012, , .		0
147	Extending the Eikonal Approximation to Low Energy. , 2015, , .		0
148	Dynamical Studies of the Formation and Decay of Particle-Unbound States. , 2015, , .		0
149	Breakup and Finite-Range Effects on the $8\text{B}(d,n)^9\text{C}$ Reaction. , 2015, , .		0
150	Effect of Tensor Interactions in $^{16}\text{O}$ Studied via (p,d) Reaction. , 2015, , .		0
151	Structure of the Hoyle State of $^{12}\text{C}$ Extracted from Reaction Observables. , 2017, , .		0
152	( $\alpha$ ) Inelastic Scattering Cross Sections Off $^{12}\text{C}$ with Microscopic Coupled-channel Calculation. , 2020, , .		0
153	Theoretical Study of Deuteron-Induced Reactions in the Nuclear Data Field. Few-Body Systems, 2022, 63, 1.	1.5	0
154	Ambiguities from Nuclear Interactions in the $^{12}\text{C}(p,2p)^{11}\text{B}$ Reaction. Communications in Physics, 2022, 32, 117.	0.0	0