

# Dao Tien Khoa

## List of Publications by Year in descending order

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97  
papers

3,564  
citations

147801

31  
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138484

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99  
all docs

99  
docs citations

99  
times ranked

1064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin symmetry energy and equation of state of spin-polarized neutron star matter. Physical Review C, 2022, 105, .	2.9	2
2	Folding model approach to the elastic $p+^{12,13}\text{C}$ scattering at low energies and radiative capture $^{12,13}\text{C}(p,\hat{1}^3)$ reactions. Nuclear Physics A, 2021, 1006, 122078.	1.5	5
3	Suppression of the nuclear rainbow in the inelastic nucleus-nucleus scattering. European Physical Journal A, 2021, 57, 1.	2.5	1
4	Equation of state of asymmetric nuclear matter and the tidal deformability of neutron star. European Physical Journal A, 2021, 57, 1.	2.5	4
5	Elastic $\alpha$ transfer in the $^{16}\text{O}+^{12}\text{C}$ scattering and its impact on the nuclear rainbow. European Physical Journal A, 2021, 57, 1.	2.5	4
6	Rearrangement term in the folding model of the nucleon optical potential. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 035106.	3.6	8
7	Spin-polarized $\hat{1}^2$ -stable neutron star matter: The nuclear symmetry energy and GW170817 constraint. Physical Review C, 2020, 102, .	2.9	4
8	Coupled-reaction-channel study of the $\text{C}^{12}(\hat{1}^\pm, \text{Be}^8)$ reaction and the $\text{Be}^8+\text{Be}^8$ optical potential. Physical Review C, 2020, 102, .	2.9	3
9	Elastic transfer and parity dependence of the nucleus-nucleus optical potential. Physical Review C, 2019, 100, .	2.9	5
10	Mean-field description of heavy-ion scattering at low energies and fusion. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	7
11	Consistent mean-field description of the $\text{C}^{12}+\text{C}^{12}$ optical potential at low energies and the astrophysical S factor. Physical Review C, 2018, 98, .	2.9	20
12	Direct and indirect $\hat{1}^\pm$ transfer in elastic $\text{O}^{16}+\text{C}^{12}$ scattering. Physical Review C, 2018, 98, .	2.9	10
13	R-matrix method and the nonlocal nucleon optical potential. Communications in Physics, 2018, 28, 323.	0.0	2
14	Single-charge-exchange reactions and the neutron density at the surface of the nucleus. Physical Review C, 2017, 96, .	2.9	9
15	The dominance of the $\hat{1}^2(0d5/2)_2$ configuration in the $N=8$ shell in $^{12}\text{Be}$ from the breakup reaction on a proton target at intermediate energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 559-563.	4.1	6
16	The $2+$ -excitation of the Hoyle state. EPJ Web of Conferences, 2016, 107, 09001.	0.3	0
17	Nuclear mean field and double-folding model of the nucleus-nucleus optical potential. Physical Review C, 2016, 94, .	2.9	38
18	Mean-field study of hot $\hat{1}^2$ -stable protoneutron star matter: Impact of the symmetry energy and nucleon effective mass. Physical Review C, 2016, 93, .	2.9	20

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19	Mean-field Study of $(^{12}\text{C})^+ (^{12}\text{C})$ Fusion. Communications in Physics, 2016, 25, 265.	0.0	1
20	Extended Hartree-Fock study of the single-particle potential: The nuclear symmetry energy, nucleon effective mass, and folding model of the nucleon optical potential. Physical Review C, 2015, 92, .	2.9	17
21	Elastic proton scattering at intermediate energies as a probe of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mi mathvariant="normal"} \text{He} \langle \text{mml:mi} \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle , \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \text{matter densities. Physical Review C, 2015, 92, .$	2.9	16
22	Charge-Exchange Excitation of the Isobaric Analog State and Implication for the Nuclear Symmetry Energy and Neutron Skin. , 2015, , .		0
23	Charge-exchange scattering to the isobaric analog state at medium energies as a probe of the neutron skin. Physical Review C, 2014, 89, .	2.9	16
24	Folding model study of the charge-exchange scattering to the isobaric analog state and implication for the nuclear symmetry energy. European Physical Journal A, 2014, 50, 1.	2.5	21
25	The isoscalar transition strengths of the cluster states of $^{12}\text{C}$ . Journal of Physics: Conference Series, 2014, 569, 012015.	0.4	0
26	Folding-model analysis of inelastic $^{12}\text{C}$ scattering at medium energies, and the isoscalar transition strengths of the cluster states of $^{12}\text{C}$ . Physical Review C, 2013, 88, .	2.9	15
27	Neutron scattering from $^{208}\text{Pb}$ at 30.4 and 40.0 MeV and isospin dependence of the nucleon optical potential. Physical Review C, 2012, 85, .	2.9	12
28	Hindrance of the excitation of the Hoyle state and the ghost of the $^{12}\text{C}$ state in $^{12}\text{C}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 469-475.	1.8	18
29	Equation of state of neutron star matter, and the nuclear symmetry energy. Physical Review C, 2011, 83, .	2.9	41
30	Microscopic study of the isoscalar giant resonances in $^{208}\text{Pb}$ induced by inelastic $^{12}\text{C}$ scattering. Nuclear Physics A, 2010, 836, 11-42.	1.5	9
31	Neutron transition strengths of $^{21}\text{O}$ states in the neutron-rich oxygen isotopes determined from inelastic proton scattering. Physical Review C, 2009, 79, .	2.9	9
32	Neutron star cooling: A challenge to the nuclear mean field. Physical Review C, 2009, 80, .	2.9	19
33	Missing monopole strength of the Hoyle state in the inelastic $^{12}\text{C}$ scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 660, 331-338.	4.1	32
34	PROBING THE ISOSCALAR EXCITATIONS OF $^{12}\text{C}$ WITH INELASTIC ALPHA SCATTERING. International Journal of Modern Physics E, 2008, 17, 2055-2060.	1.0	5
35	PROBING THE EQUATION OF STATE OF NUCLEAR MATTER IN THE NUCLEAR RAINBOW SCATTERING. International Journal of Modern Physics B, 2008, 22, 4684-4696.	2.0	1
36	PROBING THE EQUATION OF STATE OF NUCLEAR MATTER IN THE NUCLEAR RAINBOW SCATTERING. , 2008, , .		0

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37	Nuclear spin polarization following intermediate-energy heavy-ion reactions. <i>Physical Review C</i> , 2007, 76, .	2.9	5
38	Folding model study of the isobaric analog excitation: Isovector density dependence, Lane potential, and nuclear symmetry energy. <i>Physical Review C</i> , 2007, 76, .	2.9	43
39	Nuclear rainbow scattering and nucleus-nucleus potential. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, R111-R164.	3.6	157
40	Isovector deformation and its link to the neutron shell closure. <i>European Physical Journal: Special Topics</i> , 2007, 150, 31-34.	2.6	1
41	N=14 Shell Closure in $^{22}\text{O}$ Viewed through a Neutron Sensitive Probe. <i>Physical Review Letters</i> , 2006, 96, 012501.	7.8	97
42	Study of refractive structure in the inelastic scattering at the incident energies of 250 to 1120 MeV. <i>Nuclear Physics A</i> , 2005, 759, 3-22.	1.5	25
43	Isospin dependence of $^6\text{He} + \text{optical potential}$ and the symmetry energy. <i>Physical Review C</i> , 2005, 71, .	2.9	43
44	Microscopic calculation of the interaction cross section for stable and unstable nuclei based on the nonrelativistic nucleon-nucleon matrix. <i>Physical Review C</i> , 2004, 69, .	2.9	12
45	Di-neutron elastic transfer in the $^4\text{He}(^6\text{He}, ^6\text{He})^4\text{He}$ reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 595, 193-201.	4.1	21
46	Microscopic study of interaction cross sections measured at relativistic energies for stable and unstable nuclei. <i>Nuclear Physics A</i> , 2003, 722, C92-C97.	1.5	8
47	Excited states of neutron-rich nuclei: mean field theory and beyond. <i>Nuclear Physics A</i> , 2003, 722, C111-C116.	1.5	13
48	Nuclear rainbow and the EOS of cold nuclear matter. <i>Nuclear Physics A</i> , 2003, 722, C202-C208.	1.5	11
49	DWBA analysis of the $^{13}\text{C}(^6\text{Li}, d)^{17}\text{O}$ reaction at $10\text{ MeV/nucleon}$ and its astrophysical implications. <i>Nuclear Physics A</i> , 2003, 726, 159-172.	1.5	24
50	Probing the isovector transition strength of the low-lying nuclear excitations induced by inverse kinematics proton scattering. <i>Physical Review C</i> , 2003, 68, .	2.9	14
51	Do $1.37\text{ GeV}$ particles find nuclei attractive or repulsive?. <i>Physical Review C</i> , 2002, 65, .	2.9	8
52	Isovector Mixing in Inelastic Scattering Induced by the Radioactive Beams. <i>Progress of Theoretical Physics Supplement</i> , 2002, 146, 452-456.	0.1	0
53	Coupling effects in the elastic scattering of $^6\text{He}$ on $^{12}\text{C}$ . <i>Physical Review C</i> , 2002, 66, .	2.9	71
54	One-neutron transfer reaction and refractive effects in the $^{16}\text{O} + ^{16}\text{O}$ system. <i>Nuclear Physics A</i> , 2002, 703, 573-592.	1.5	5

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55	Folding model analysis of elastic and inelastic proton scattering on sulfur isotopes. Nuclear Physics A, 2002, 706, 61-84.	1.5	58
56	Nuclear-rainbow scattering and nucleus-nucleus potentials at short distances. Physics of Atomic Nuclei, 2002, 65, 678-682.	0.4	3
57	$\hat{1}\pm$ -nucleus optical potential in the double-folding model. Physical Review C, 2001, 63, .	2.9	175
58	New results for reaction cross sections of intermediate energy $\hat{1}\pm$ -particles on targets from Be to Pb. Nuclear Physics A, 2000, 676, 3-31.	1.5	87
59	Generalized folding model for elastic and inelastic nucleus-nucleus scattering using realistic density dependent nucleon-nucleon interaction. Nuclear Physics A, 2000, 668, 3-41.	1.5	201
60	Study of diffractive and refractive structure in the elastic OO scattering at incident energies ranging from 124 to 1120 MeV. Nuclear Physics A, 2000, 672, 387-416.	1.5	112
61	At the end of the rainbow an understanding of nuclear matter. Europhysics News, 2000, 31, 5-9.	0.3	10
62	At the end of the rainbow - an understanding of nuclear matter. Europhysics News, 2000, 31, 21-21.	0.3	1
63	New measurement of the refractive, elastic $^{16}\text{O}+^{12}\text{C}$ scattering at 132, 170, 200, 230, and 260 MeV incident energies. Physical Review C, 2000, 62, .	2.9	93
64	Pronounced Airy structure in elastic $^{16}\text{O}+^{12}\text{C}$ scattering at $E_{\text{lab}}=132\text{MeV}$ . Physical Review C, 1998, 57, 1797-1802.	2.9	45
65	Missing monopole strength in $^{58}\text{Ni}$ and uncertainties in the analysis of $\hat{1}\pm$ -particle scattering. Physical Review C, 1997, 55, 285-297.	2.9	88
66	Nuclear incompressibility and density dependent NN interactions in the folding model for nucleus-nucleus potentials. Physical Review C, 1997, 56, 954-969.	2.9	322
67	Model-unrestricted nucleus-nucleus scattering potentials from measurement and analysis of scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 23-28.	4.1	45
68	Study of the equation of state for asymmetric nuclear matter and interaction potential between neutron-rich nuclei using the density-dependent M3Y interaction. Nuclear Physics A, 1996, 602, 98-132.	1.5	114
69	Refractive alpha-nucleus scattering: a probe for the incompressibility of cold nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 342, 6-12.	4.1	147
70	Realistic scenario for the quasielastic scattering of $^{11}\text{Li}$ , $^{11}\text{C}+^{12}\text{C}$ at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 358, 14-20.	4.1	24
71	Thermalization effects in heavy-ion collisions. Nuclear Physics A, 1995, 583, 353-356.	1.5	1
72	Folding analysis of the elastic $^{6}\text{Li}+^{12}\text{C}$ scattering: Knock-on exchange effects, energy dependence, and dynamical polarization potential. Physical Review C, 1995, 51, 2069-2084.	2.9	62

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73	Equation of State for Cold Nuclear Matter from RefractiveO16+O16Elastic Scattering. Physical Review Letters, 1995, 74, 34-37.	7.8	91
74	Temperature-dependent mean field and its effect on heavy-ion reactions. Nuclear Physics A, 1994, 575, 733-765.	1.5	72
75	Double-folding model for heavy-ion optical potential: Revised and applied to studyC12andO16elastic scattering. Physical Review C, 1994, 49, 1652-1668.	2.9	193
76	Subthreshold K+ production in 1GeV/u 197Au + 197Au collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 298, 41-45.	4.1	55
77	Quantum molecular dynamics and particle production in heavy ion collisions. Progress in Particle and Nuclear Physics, 1993, 30, 105-114.	14.4	25
78	Relativistic versus nonrelativistic quantum molecular dynamics. Progress in Particle and Nuclear Physics, 1993, 30, 219-228.	14.4	42
79	Refractive scattering and reactions, comparison of two systems:16O+16O and20Ne+12C. Zeitschrift FÄ¼r Physik A, 1993, 346, 189-200.	0.9	52
80	A nuclear matter study using the density dependent M3Y interaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 304, 8-16.	4.1	152
81	Relativistic extended Thomas-Fermi calculations of finite nuclei with realistic nucleon-nucleon interactions. Physical Review C, 1993, 47, 1091-1102.	2.9	11
82	Impact parameter dependence of collective flows and particle multiplicities in heavy-ion reactions. Journal of Physics G: Nuclear and Particle Physics, 1992, 18, 681-705.	3.6	4
83	Microscopic study of thermal properties of the nuclear matter formed in heavy-ion collisions. Nuclear Physics A, 1992, 542, 671-698.	1.5	40
84	Kaon production in nucleus-nucleus collisions. Nuclear Physics A, 1992, 537, 645-666.	1.5	20
85	In-medium effects in the description of heavy-ion collisions with realistic NN interactions. Nuclear Physics A, 1992, 548, 102-130.	1.5	102
86	Relativistic quantum molecular dynamics and eta production in nucleus-nucleus collisions. Nuclear Physics A, 1992, 537, 631-644.	1.5	8
87	Subthreshold pion production in nucleus-nucleus collisions within the quantum molecular dynamics approach. Nuclear Physics A, 1991, 534, 697-719.	1.5	15
88	Photon production in heavy-ion collisions and nuclear equation of state. Nuclear Physics A, 1991, 529, 363-386.	1.5	21
89	Pauli exchange effects in the elastic scattering of 16O + 16O. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 260, 278-284.	4.1	21
90	Microscopic calculation of pion production in nucleus-nucleus collisions around 1 GeV;½. Zeitschrift FÄ¼r Physik A, 1991, 340, 271-279.	0.9	9

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91	Relativistic extended Thomas-Fermi calculations of finite nuclei. Journal of Physics G: Nuclear and Particle Physics, 1991, 17, L193-L199.	3.6	7
92	Low-lying magnetic dipole excitations in actinide nuclei. Physical Review Letters, 1990, 65, 2978-2981.	7.8	15
93	Exchange part of the real heavy-ion optical potential within the double-folding model and the nuclear matter approach. Journal of Physics G: Nuclear and Particle Physics, 1990, 16, 1253-1270.	3.6	15
94	Exchange effects in nuclear rainbow scattering. Nuclear Physics A, 1988, 484, 376-396.	1.5	53
95	On the role of hexadecapole forces in describing $\hat{I}^3$ -band states in the rare-earth region. Journal of Physics G: Nuclear Physics, 1988, 14, 725-732.	0.8	8
96	Exchange effects in elastic and inelastic alpha- and heavy-ion scattering. Zeitschrift für Physik A, Atomic Nuclei, 1987, 328, 67-79.	0.3	6
97	Basic equations of the quasiparticle-phonon nuclear model for odd spherical nuclei. Theoretical and Mathematical Physics(Russian Federation), 1985, 64, 819-826.	0.9	0