Wanpeng P Tan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5234104/publications.pdf

Version: 2024-02-01

131 papers	2,935 citations	172457 29 h-index	189892 50 g-index
142 all docs	142 docs citations	142 times ranked	1760 citing authors

#	Article	IF	Citations
1	Isospin Diffusion and the Nuclear Symmetry Energy in Heavy Ion Reactions. Physical Review Letters, 2004, 92, 062701.	7.8	354
2	Isospin Fractionation in Nuclear Multifragmentation. Physical Review Letters, 2000, 85, 716-719.	7.8	289
3	Isoscaling in statistical models. Physical Review C, 2001, 64, .	2.9	163
4	Evidence for a new<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>state at 13.3ÂMeV. Physical Review C, 2011, 83, .	2.9	102
5	Measurement of scintillation and ionization yield and scintillation pulse shape from nuclear recoils in liquid argon. Physical Review D, 2015, 91, .	4.7	80
6	LASSA: a large area silicon strip array for isotopic identification of charged particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 473, 302-318.	1.6	78
7	Fragment isotope distributions and the isospin dependent equation of state. Physical Review C, 2001, 64, .	2.9	66
8	Isotope yields from centralSn112,124+Sn112,124collisions: Dynamical emission?. Physical Review C, 2004, 69, .	2.9	64
9	SuN: Summing NaI(Tl) gamma-ray detector for capture reaction measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 703, 16-21.	1.6	56
10	Suppression of the centrifugal barrier effects in the off-energy-shell neutron<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>+</mml:mo><mml:msup><mml:mrow /><mml:mn>17</mml:mn></mml:msup><mml:mi mathvariant="bold">O</mml:mi></mml:mrow></mml:math>interaction. Physical Review C, 2013, 87, .	2.9	54
11	Isospin diffusion observables in heavy-ion reactions. Physical Review C, 2007, 76, .	2.9	53
12	O15(Î±,Î³)Ne19Breakout Reaction and Impact on X-Ray Bursts. Physical Review Letters, 2007, 98, 242503.	7.8	53
13	Energy resolution and energyâ€“light response of CsI(Tl) scintillators for charged particle detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 456, 290-299.	1.6	46
14	Isospin effects in nuclear multifragmentation. Physical Review C, 2003, 68, .	2.9	46
15	Progress of Jinping Underground laboratory for Nuclear Astrophysics (JUNA). Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	45
16	New Measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">C</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow><mml:mo>+</mml:mo><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">C</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow><mml:mo>→</mml:mo><mml:mi	7.8	43
17	Improvement of the high-accuracy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>12</mml:mn></mml:msup></mml:math>C+<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>C,	2.9	42
18	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>17</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>14</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>reaction-rate me	2.9	40

#	Article	IF	Citations
19	Determining the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi></mml:mrow></mml:math>factor of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>15</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo		

#	Article	IF	Citations
37	Comparison of midvelocity fragment formation with projectilelike decay. Physical Review C, 2005, 71, .	2.9	22
38	Measurement of the decay branching ratios of theÎ±-unbound states inNe19and theO15(Î±,Î³)reaction rate. Physical Review C, 2009, 79, .	2.9	22
39	Isospin observables from fragment energy spectra. Physical Review C, 2012, 86, .	2.9	22
40	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">F</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>19</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10	2.9	21
41	Experimental cross sections ofHo165(Î±,n)Tm168andEr166(Î±,n)Yb169for optical potential studies relevant for the astrophysicalÎ³process. Physical Review C, 2014, 89, .	2.9	21
42	Indirect measurement of the $$^3hbox {He}$$(n,p)$$^3hbox {H}$$ reaction cross section at Big Bang energies. European Physical Journal A, 2020, 56, 1.	2.5	21
43	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>16</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math) Tj ETQq1 1 0.784314 rgBT /O	2.9	20
44	Be8+Be8andC12+Î±breakup states inO16populated via theC13(He4,4Î±)nreaction. Physical Review C, 2016, 94, .	2.9	20
45	Isoscaling bearing information on the nuclear caloric curve. Physical Review C, 2004, 69, .	2.9	19
46	Systematic study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>(</mml:mo><mml:mi>Î±</mml:mi><mml:mo>,</mml:mo><mml:mi>Î³ for stable nickel isotopes. Physical Review C, 2015, 92, .	2.9	19
47	(Î±,Î³)cross section measurements in the region of lightpnuclei. Physical Review C, 2015, 92, .	2.9	18
48	Determination of hexadecapole (Î²4) deformation of the light-mass nucleus 24Mg using quasi-elastic scattering measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135473.	4.1	18
49	Excitation and decay of projectilelike fragments formed in dissipative peripheral collisions at intermediate energies. Physical Review C, 2003, 68, .	2.9	17
50	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Mg</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>24</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10	2.9	17
51	Measurements of proton-induced reaction cross sections onTe120for the astrophysicalpprocess. Physical Review C, 2009, 80, .	2.9	17
52	Systematic study of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-optical potential via elastic scattering near the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>50</mml:mn></mml:mrow></mml:math>region for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-process nuclei. Physical Review C, 2012, 85, .	2.9	17
53	A measurement of the ionization efficiency of nuclear recoils in silicon. Journal of Instrumentation, 2017, 12, P06014-P06014.	1.2	17
54	Spin determination of particle unstable levels with particle correlations. Physical Review C, 2004, 69, .	2.9	16

#	Article	IF	Citations
55	Neutron oscillations for solving neutron lifetime and dark matter puzzles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134921.	4.1	16
56	High Efficiency Total Absorption Spectrometer HECTOR for capture reaction measurements. European Physical Journal A, 2019, 55, 1.	2.5	16
57	Interplay of initial deformation and Coulomb proximity on nuclear decay. Physical Review C, 2004, 70, .	2.9	15
58	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>90</mml:mn><mml:mo>,</mml:mo><mml:mn>92</mml:mn></mml:mrow></mml:msup></mml:math>Zr(<m	2.9	15
59	Level structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>18</mml:mn></mml:msup></mml:math>Ne and its importance in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow		

#	Article	IF	Citations
73	Measurements of conversion electrons in the s-process branching point nucleus 176Lu. European Physical Journal A, 2016, 52, 1.	2.5	7
74	Astrophysical nuclear reactions and the break-out from the hot CNO cycles. Progress in Particle and Nuclear Physics, 2007, 59, 51-65.	14.4	6
75	Production of stable tellurium evaporated targets. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 590, 76-78.	1.6	6
76	Yield measurements for resonances above the multi-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>threshold in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>20</mml:mn></mml:msup></mml:math>Ne. Physical Review C, 2013, 87, .	2.9	6
77	Experimental investigation of the¹²C+¹²C fusion at very low energies by direct and indirect methods. Journal of Physics: Conference Series, 2013, 420, 012151.	0.4	6
78	Progress of Jinping Underground laboratory for Nuclear Astrophysics (JUNA). EPJ Web of Conferences, 2016, 109, 09001.	0.3	6
79	Proton capture reaction cross section measurements on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Er</mml:mi><mml:mprescripts /><mml:none /><mml:mn>162</mml:mn></mml:mmultiscripts></mml:math> as a probe of statistical model calculations. Physical Review C, 2017, 96, .	2.9	6
80	Quenching measurements and modeling of a boron-loaded organic liquid scintillator. Journal of Instrumentation, 2017, 12, P08002-P08002.	1.2	6
81	Searching for (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 442 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> -process path near <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>=</mml:mo><mml:mn.	2.9	6
82	Study of the hindrance effect in sub-barrier fusion reactions. Nuclear Physics A, 2010, 834, 192c-194c.	1.5	5
83	Photoneutron strengths in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow /><mml:mn>26</mml:mn></mml:msup><mml:mi>Mg</mml:mi></mml:math>at energies of astrophysical interest. Physical Review C, 2014, 89, .	2.9	5
84	Constraining the¹²C+¹²C fusion cross section for astrophysics. EPJ Web of Conferences, 2015, 93, 03009.	0.3	5
85	New Î³ -ray transitions observed in Ne19 with implications for the O15(Î±,Î³)Ne19 reaction rate. Physical Review C, 2019, 99, .	2.9	5
86	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mn>19</mml:mn></mml:mmultiscripts></mml:math> level structure for explosive nucleosynthesis. Physical Review C, 2020, 102, .	2.9	5
87	Thermonuclear reaction rates of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>=</mml:mo><mml:mn>100</mml:mn></mml:mrow></mml:math> mass region: Constraints on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>In</mml:mi><mml:mprescripts /><mml:none		

#	Article	IF	Citations
91	Breakup branches of Borromean beryllium-9. AIP Conference Proceedings, 2015, , .	0.4	4
92	Kaon oscillations and baryon asymmetry of the Universe. Physical Review D, 2019, 100, .	4.7	4
93	Î³ -ray spectroscopy of astrophysically important states in Ca39. Physical Review C, 2020, 101, .	2.9	4
94	Isospin fractionation in nuclear fragmentation. Nuclear Physics A, 2001, 681, 299-308.	1.5	3
95	The reaction rate for the destruction of fluorine in AGB stars. Nuclear Physics A, 2005, 758, 577-580.	1.5	3
96	Cross-section measurement of theF18(Î±,p)Ne21reaction and possible implication for neutron production in explosive helium burning. Physical Review C, 2009, 80, .	2.9	3
97	Searching for the low-energy resonances in the¹²C(¹²C,n)²³Mg reaction cross section relevant for s-process nucleosynthesis. Journal of Physics: Conference Series, 2013, 420, 012141.	0.4	3
98	Proton capture cross section of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>72</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and astrophysical implications. Physical Review C, 2015, 92, .	2.9	3
99	First measurements of capture reactions for the Î³-process using HECTOR. Journal of Physics: Conference Series, 2019, 1308, 012020.	0.4	3
100	Evidence for a 3.8 MeV state inBe9. Physical Review C, 2016, 94, .	2.9	2
101	Observation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>T</mml:mi><mml:mo>=</mml:mo><mml:mn>3</mml:mn></mml:mr isobaric analog states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Be</mml:mi><mml:mprescripts /><mml:none /><mml:mn>9</mml:mn></mml:mmultiscripts></mml:math> using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi><mml:mspace width="4pt" />	2.9	2
102	Truly two-dimensional black holes under dimensional transitions of spacetime. International Journal of Modern Physics D, 2021, 30, .	2.1	2
103	18F(Î±,p)21Ne Reaction: Neutron Source For r-Process In Supernovae. AIP Conference Proceedings, 2006, , .	0.4	1
104	Î±-Induced Reaction Rates for Accreting Compact Stars. Nuclear Physics A, 2010, 834, 679c-681c.	1.5	1
105	Recent results from the carbon fusion project at Notre Dame. , 2012, , .		1
106	Simplicity from Complexity. Journal of Physics: Conference Series, 2012, 381, 012009.	0.4	1
107	Does a 4-Î± linear chain exist in16O?. Journal of Physics: Conference Series, 2012, 381, 012079.	0.4	1
108	First direct measurement of12C(12C,n)23Mg at stellar energies. EPJ Web of Conferences, 2016, 109, 04009.	0.3	1

#	Article	IF	Citations
109	Study of the ¹⁷O(n, (alpha))¹⁴C Reaction: Extension of the Trojan Horse Method to the Neutrons Induced Reactions. , 2017, , .		1
110	Disentangling unclear nuclear breakup channels of beryllium-9 using the three-axis Dalitz plot. Journal of Physics: Conference Series, 2017, 863, 012032.	0.4	1
111	Using 19F(3He,t)19Ne*(Î³) to study astrophysically important levels near the 18F+p threshold. AIP Conference Proceedings, 2019, , .	0.4	1
112	Phase structures of magnetic impurity models with two-body hybridization. Physical Review B, 1998, 57, 5879-5890.	3.2	0
113	Scaling behavior of isotopes in nuclear reactions. AIP Conference Proceedings, 2002, , .	0.4	0
114	Threshold states in 19Ne and the CNO breakout reaction 15O(Î±,Î³)19Ne. AIP Conference Proceedings, 2006, , .	0.4	0
115	19F(p,Î³)20Ne: Putting a Lid on the CNO Cycle. AIP Conference Proceedings, 2006, , .	0.4	0
116	Excited states of¹²C above the alpha-decay threshold. Journal of Physics: Conference Series, 2011, 321, 012036.	0.4	0
117	Publisher's Note: Level structure of18Ne and its importance in the14O(Î±,p)17F reaction rate [Phys. Rev. C86, 025801 (2012)]. Physical Review C, 2012, 86, .	2.9	0
118	p process measurements with SuN. AIP Conference Proceedings, 2012, , .	0.4	0
119	[sup 17]O(Î±,Î³)[sup 21]Ne and [sup 17]O(Î±,n)[sup 20]Ne for the weak s process. , 2012, , .		0
120	The Role of12C(12C,n) in the Astrophysical S-Process. Journal of Physics: Conference Series, 2012, 381, 012121.	0.4	0
121	Application of the Trojan Horse Method to study neutron induced reactions: the17O(n,Î±)14Creaction. EPJ Web of Conferences, 2014, 66, 07008.	0.3	0
122	Study of the 17O(n,Î±)14C reaction: Extension of the Trojan Horse Method to neutron induced reactions. , 2014, , .		0
123	Trojan horse method with neutrons induced reactions: The 17O(n,Î±)14C reaction. AIP Conference Proceedings, 2017, , .	0.4	0
124	First measurement of the B(E2; 3/2â^' â†' 1/2â^') in 7Be. AIP Conference Proceedings, 2018, , .	0.4	0
125	Experimental measurement of the 12C+16O fusion cross sections at astrophysical energies. EPJ Web of Conferences, 2018, 178, 04008.	0.3	0
126	First results from HECTOR: High EffiCiency TOtal absorption spectrometeR for Î³-process nucleosynthesis studies. Journal of Physics: Conference Series, 2020, 1668, 012038.	0.4	0

#	Article	IF	Citations
127	Intensity of a weak 519-keV Î³ ray following Î² decay of the superallowed emitter Ar34 determined via the S33 (p,Î³) Cl34 reaction. Physical Review C, 2020, 102, .	2.9	0
128	An Efficient Thick Target Method for Scanning Resonances of the 12C+12C Fusion at Stellar Energies. , 2020, , .		0
129	MEASUREMENT OF THE REACTIONS ¹⁷O(Î±, Î³)²¹Ne AND ¹⁷O(Î±, n)²⁰Ne AND THEIR IMPACT ON THE WEAK s PROCESS. , 2013, , .		0
130	Development of the (d,n) Proton-transfer Reaction in Inverse Kinematics for Structure Studies. Acta Physica Polonica B, 2018, 49, 365.	0.8	0
131	Precision Measurements of the (^{24}ext{Mg}(alpha ,pgamma)^{27}ext{Al}) and (^{27}ext{Al}(p,alpha gamma)^{24}ext{Mg}) Cross Sections. , 2020, , .		0