Ingo Tews

List of Publications by Year in descending order

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41 papers	3,699 citations	186265 28 h-index	302126 39 g-index
42 all docs	42 docs citations	42 times ranked	1846 citing authors

#	Article	IF	Citations
1	Neutron Matter at Next-to-Next-to-Next-to-Leading Order in Chiral Effective Field Theory. Physical Review Letters, 2013, 110, 032504.	7.8	300
2	Stringent constraints on neutron-star radii from multimessenger observations and nuclear theory. Nature Astronomy, 2020, 4, 625-632.	10.1	269
3	Quantum MonteÂCarlo Calculations with Chiral Effective Field Theory Interactions. Physical Review Letters, 2013, 111, 032501.	7.8	257
4	Constraining the Speed of Sound inside Neutron Stars with Chiral Effective Field Theory Interactions and Observations. Astrophysical Journal, 2018, 860, 149.	4.5	250
5	Multimessenger constraints on the neutron-star equation of state and the Hubble constant. Science, 2020, 370, 1450-1453.	12.6	239
6	Critical examination of constraints on the equation of state of dense matter obtained from GW170817. Physical Review C, 2018, 98, .	2.9	238
7	Symmetry Parameter Constraints from a Lower Bound on Neutron-matter Energy. Astrophysical Journal, 2017, 848, 105.	4.5	233
8	Neutron matter from chiral effective field theory interactions. Physical Review C, 2013, 88, .	2.9	197
9	Chiral Three-Nucleon Interactions in Light Nuclei, Neutron-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>Scattering, and Neutron Matter. Physical Review Letters, 2016, 116, 062501.	7.8	189
10	Local chiral effective field theory interactions and quantum Monte Carlo applications. Physical Review C, 2014, 90, .	2.9	186
11	Quantum Monte Carlo calculations of neutron matter with chiral three-body forces. Physical Review C, 2016, 93, .	2.9	136
12	Constraining neutron-star matter with microscopic and macroscopic collisions. Nature, 2022, 606, 276-280.	27.8	112
13	Astrophysical Constraints on the Symmetry Energy and the Neutron Skin of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Pb</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>208</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> with Minimal Modeling Assumptions. Physical Review Letters, 2021, 127, 192701.	7.8	94
14	Confronting gravitational-wave observations with modern nuclear physics constraints. European Physical Journal A, 2019, 55, 1.	2.5	83
15	Dense matter with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	81
16	On the Nature of GW190814 and Its Impact on the Understanding of Supranuclear Matter. Astrophysical Journal Letters, 2021, 908, L1.	8.3	80
17	Nuclear Physics Multimessenger Astrophysics Constraints on the Neutron Star Equation of State: Adding NICERâ€™s PSR J0740+6620 Measurement. Astrophysical Journal, 2021, 922, 14.	4.5	75
18	Direct astrophysical tests of chiral effective field theory at supranuclear densities. Physical Review C, 2020, 102, .	2.9	73

#	Article	IF	Citations
19	Quantum Monte Carlo calculations of light nuclei with local chiral two- and three-nucleon interactions. Physical Review C, 2017, 96, .	2.9	62
20	Quantum Monte Carlo Methods in Nuclear Physics: Recent Advances. Annual Review of Nuclear and Particle Science, 2019, 69, 279-305.	10.2	62
21	Nuclear and neutron-star matter from local chiral interactions. Physical Review Research, 2020, 2, .	3.6	61
22	Combining Electromagnetic and Gravitational-Wave Constraints on Neutron-Star Masses and Radii. Physical Review Letters, 2021, 126, 061101.	7.8	57
23	Regulator artifacts in uniform matter for chiral interactions. Physical Review C, 2016, 94, .	2.9	41
24	Local Nucleon-Nucleon and Three-Nucleon Interactions Within Chiral Effective Field Theory. Frontiers in Physics, 2020, 7, .	2.1	39
25	Detailed examination of astrophysical constraints on the symmetry energy and the neutron skin of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>208</mml:mn></mml:mmultiscripts></mml:math> with minimal modeling assumptions. Physical Review C, 2021, 104, .	2.9	38
26	New ideas in constraining nuclear forces. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 103001.	3.6	34
27	Spectrum of shear modes in the neutron-star crust: Estimating the nuclear-physics uncertainties. Physical Review C, 2017, 95, .	2.9	33
28	Analyzing the Fierz rearrangement freedom for local chiral two-nucleon potentials. Physical Review C, 2017, 96, .	2.9	31
29	Constraints on the nuclear symmetry energy from asymmetric-matter calculations with chiral <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mi>N</mml:mi></mml:mrow></mml:m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>N</mml:mi></mml:mrow></mml: interactions. Physical Review C, 2021, 103, .	2.9	28
30	From the microscopic to the macroscopic world: from nucleons to neutron stars. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 103001.	3.6	26
31	Parameter estimation for strong phase transitions in supranuclear matter using gravitational-wave astronomy. Physical Review Research, 2020, 2, .	3.6	19
32	The chiral condensate in neutron matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 412-416.	4.1	16
33	Quantum Monte Carlo calculations of two neutrons in finite volume. Physical Review C, 2016, 94, .	2.9	15
34	Quantifying modeling uncertainties when combining multiple gravitational-wave detections from binary neutron star sources. Physical Review D, 2022, 105, .	4.7	12
35	Spin-polarized Neutron Matter, the Maximum Mass of Neutron Stars, and GW170817. Astrophysical Journal, 2020, 892, 14.	4.5	10
36	Quantum Monte Carlo Methods for Astrophysical Applications. Frontiers in Physics, 2020, 8, .	2.1	9

#	Article	IF	Citations
37	Large-cutoff behavior of local chiral effective field theory interactions. Physical Review C, 2018, 98, .	2.9	6
38	Constraining the properties of dense matter and neutron stars by combining nuclear physics and gravitational waves from GW170817. AIP Conference Proceedings, 2019, , .	0.4	5
39	Chiral Effective Field Theoryâ€™s Impact on Advancing Quantum Monte Carlo Methods. Few-Body Systems, 2021, 62, 1.	1.5	3
40	Neutron matter with Quantum Monte Carlo: chiral 3N forces and static response. Journal of Physics: Conference Series, 2016, 702, 012014.	0.4	0
41	What can neutron stars reveal about the equation of state of dense matter?. EPJ Web of Conferences, 2020, 235, 07002.	0.3	0