Alexander Tichai

List of Publications by Year
in descending order

22 papers	459 citations	623734 14 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	191 citing authors

#	Article	IF	Citations
1	ADG: automated generation and evaluation of many-body diagrams. European Physical Journal A, 2022, 58, 1.	2.5	5
2	Importance truncation for the in-medium similarity renormalization group. Physical Review C, 2022, 105, .	2.9	2
3	Excited states from eigenvector continuation: The anharmonic oscillator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137101.	4.1	9
4	Angular-momentum projection in coupled-cluster theory: Structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Mg</mml:mi><mml:mprescripts /><mml:none /><mml:mn>34</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2022, 105, .	2.9	21
5	ADG: Automated generation and evaluation of many-body diagrams II.ÂParticle-number projected Bogoliubov many-body perturbation theory. Computer Physics Communications, 2021, 261, 107677.	7.5	9
6	Bogoliubov many-body perturbation theory under constraint. Annals of Physics, 2021, 424, 168358.	2.8	18
7	In-medium similarity renormalization group with three-body operators. Physical Review C, 2021, 103, .	2.9	27
8	Low-rank matrix decompositions for ab initio nuclear structure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 821, 136623.	4.1	5
9	Natural orbitals for many-body expansion methods. Physical Review C, 2021, 103, .	2.9	20
10	Importance truncation in non-perturbative many-body techniques. European Physical Journal A, 2021, 57, 1.	2.5	4
11	Symmetry reduction of tensor networks in many-body theory. European Physical Journal A, 2020, 56, 1.	2.5	7
12	Zero-pairing limit of Hartree-Fock-Bogoliubov reference states. Physical Review C, 2020, 102, .	2.9	8
13	Many-Body Perturbation Theories for Finite Nuclei. Frontiers in Physics, 2020, 8, .	2.1	49
14	Normal-ordered k-body approximation in particle-number-breaking theories. European Physical Journal A, 2020, 56, 1.	2.5	21
15	Improved many-body expansions from eigenvector continuation. Physical Review C, 2020, 101, .	2.9	28
16	Pre-processing the nuclear many-body problem. European Physical Journal A, 2019, 55, 1.	2.5	17
17	Tensor-decomposition techniques for ab initio nuclear structure calculations: From chiral nuclear potentials to ground-state energies. Physical Review C, 2019, 99, .	2.9	14
18	Natural orbitals for ab initio no-core shell model calculations. Physical Review C, 2019, 99, .	2.9	37

#	Article	IF	Citations
19	ADG: Automated generation and evaluation of many-body diagrams I. Bogoliubov many-body perturbation theory. Computer Physics Communications, 2019, 240, 202-227.	7.5	29
20	Open-shell nuclei from No-Core Shell Model with perturbative improvement. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 448-452.	4.1	25
21	Bogoliubov many-body perturbation theory for open-shell nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 195-200.	4.1	55
22	Hartreeâ€“Fock many-body perturbation theory for nuclear ground-states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 283-288.	4.1	49