

Guillaume Hupin

List of Publications by Year in descending order

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35
times ranked

643
citing authors

#	ARTICLE	IF	CITATIONS
1	Unified <i>ab initio</i> approaches to nuclear structure and reactions. <i>Physica Scripta</i> , 2016, 91, 053002.	2.5	147
2	Can <i>Ab Initio</i> Theory Explain the Phenomenon of Parity Inversion in ^{11}Be ? Physical Review Letters, 2016, 117, 242501.	7.8	81
3	Unified Description of ^3He and ^3H Scattering with Three-Nucleon Forces. Physical Review Letters, 2016, 117, 242501.	4.1	65
4	Structure and Deuterium-Induced Nucleon Transfer Reactions within an <i>Ab Initio</i> Framework. Physical Review Letters, 2014, 113, 032503.	7.8	56
5	<i>Ab initio</i> many-body calculations of nucleon scattering with three-nucleon forces. <i>Physical Review C</i> , 2013, 88, .	2.9	55
6	<i>Ab initio</i> predictions for polarized deuterium-tritium thermonuclear fusion. <i>Nature Communications</i> , 2019, 10, 351.	12.8	44
7	He4+n+n Continuum within an <i>Ab Initio</i> Framework. <i>Physical Review Letters</i> , 2014, 113, 032503.	7.8	34
8	Predictive theory for elastic scattering and recoil of protons from ^4He . <i>Physical Review Letters</i> , 2014, 113, 032503.	2.9	32
9	Clustering Shape and Three-Nucleon Force Effects on ^7Li . <i>Physical Review Letters</i> , 2015, 115, 032503.	2.9	30
10	Continuum and three-nucleon force effects on ^9Be energy levels. <i>Physical Review C</i> , 2015, 91, .	2.9	29
11	Quantum Monte Carlo method applied to non-Markovian barrier transmission. <i>Physical Review C</i> , 2010, 81, .	2.9	28
12	^7Li and ^7Li nuclei within the no-core shell model. <i>Physical Review C</i> , 2010, 81, .	2.9	24
13	Deuteron-induced nucleon transfer reactions within an <i>ab initio</i> framework: First application to p -shell nuclei. <i>Nuclear Force Imprints Revealed on the Elastic Scattering of Protons with ^7Li</i> . <i>Physical Review C</i> , 2018, 97, .	2.9	23
14	Nuclear Force Imprints Revealed on the Elastic Scattering of Protons with ^7Li . <i>Physical Review C</i> , 2018, 97, .	7.8	23
15	Many-body correlations and ^3He scattering. <i>Physical Review C</i> , 2018, 97, .	2.9	19
16	Description of pairing correlation in many-body finite systems with density functional theory. <i>Physical Review C</i> , 2011, 83, .	2.9	18
17	Number-conserving approach to the pairing problem: Application to Kr and Sn isotopic chains. <i>Physical Review C</i> , 2012, 86, .	2.9	15
18	Structure of the exotic ^9He nucleus from the no-core shell model with continuum. <i>Physical Review C</i> , 2018, 97, .	2.9	15

#	ARTICLE	IF	CITATIONS
19	Formulation of functional theory for pairing with particle number restoration. Physical Review C, 2011, 84, .	2.9	12
20	Application of an <i>ab initio</i> S matrix to data analysis of transfer reactions to the continuum populating ^{11}Be . Physical Review C, 2019, 100, .	2.9	12
21	PUMA, antiProton unstable matter annihilation. European Physical Journal A, 2022, 58, .	2.5	12
22	Microscopic investigation of the n α reaction. Physical Review C, 2021, 103, .	2.9	16
23	Density-matrix functionals for pairing in mesoscopic superconductors. Physical Review B, 2010, 82, .	3.2	8
24	The self-consistent multiparticle-multihole configuration mixing. European Physical Journal A, 2017, 53, 1.	2.5	5
25	Ab initio calculations of reactions with light nuclei. EPJ Web of Conferences, 2016, 113, 01005.	0.3	3
26	Using spin alignment of inelastically excited nuclei in fast beams to assign spins: The spectroscopy of ^{13}O as a test case. Physical Review C, 2021, 104, .	2.9	3
27	Progress on Light-Ion Fusion Reactions with Three-Nucleon Forces. Few-Body Systems, 2014, 55, 1013-1016.	1.5	2
28	<i>Ab initio</i> calculation of the ^{12}C decay from ^{11}Be to a ^{10}C nucleus.	2.9	2
29	DENSITY FUNCTIONAL FOR PAIRING WITH PARTICLE NUMBER CONSERVATION. Modern Physics Letters A, 2010, 25, 1854-1857.	1.2	0
30	Functional approach for pairing in finite systems: How to define restoration of broken symmetries in Energy Density Functional theory?. Journal of Physics: Conference Series, 2011, 321, 012056.	0.4	0
31	On the Application of Symmetry Breaking and Its Restoration to Treat Pairing Correlation in Finite Nuclei. Progress of Theoretical Physics Supplement, 2012, 196, 250-254.	0.1	0
32	Advances in the <i>ab initio</i> description of nuclear three-cluster systems. EPJ Web of Conferences, 2016, 113, 03004.	0.3	0
33	Ab initio calculations of reactions of light nuclei. EPJ Web of Conferences, 2017, 146, 12022.	0.3	0
34	$^7\text{Li}(d,p)^8\text{Li}$ transfer reaction in the NCSM/RGM approach. Journal of Physics: Conference Series, 2018, 981, 012006.	0.4	0
35	Transfer to the continuum of ^{11}Be with the application of <i>ab-initio</i> S-matrix. Journal of Physics: Conference Series, 2020, 1643, 012119.	0.4	0