

Philippe Quentin

List of Publications by Year in descending order

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29
papers

3,140
citations

516710

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526287

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29
all docs

29
docs citations

29
times ranked

968
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear ground-state properties and self-consistent calculations with the skyrme interaction. Nuclear Physics A, 1975, 238, 29-69.	1.5	1,219
2	Towards a better parametrisation of Skyrme-like effective forces: A critical study of the SkM force. Nuclear Physics A, 1982, 386, 79-100.	1.5	1,040
3	Nuclear deformation energy curves with the constrained Hartree-Fock method. Nuclear Physics A, 1973, 203, 433-472.	1.5	259
4	Self-consistent calculation of the ground state properties of some rare-earth nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1973, 46, 304-308.	4.1	89
5	Pairing correlations in an explicitly particle-number conserving approach. Nuclear Physics A, 2002, 697, 141-163.	1.5	78
6	A self-consistent approach to the quadrupole dynamics of medium heavy nuclei. Nuclear Physics A, 2004, 730, 59-79.	1.5	69
7	Mass parameters for large amplitude collective motion: A perturbative microscopic approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 461, 1-8.	4.1	50
8	Global microscopic calculations of ground-state spins and parities for odd-mass nuclei. Physical Review C, 2007, 76, .	2.9	49
9	Scission configurations and their implication in fission-fragment angular momenta. Physical Review C, 2007, 75, .	2.9	40
10	Rotations in nuclei – a semiclassical description. Nuclear Physics A, 1994, 571, 518-540.	1.5	37
11	Self-consistent description of heavy nuclei. II. Spectroscopic properties of some odd nuclei. Physical Review C, 1982, 25, 586-613.	2.9	32
12	Exact Coulomb exchange calculations in the Skyrme-Hartree-Fock-BCS framework and tests of the Slater approximation. Physical Review C, 2011, 84, .	2.9	27
13	Nuclear intrinsic vorticity and its coupling to global rotations. Nuclear Physics A, 1997, 627, 259-304.	1.5	20
14	A general solution of the Bohr collective Hamiltonian. Zeitschrift für Physik A, 1982, 306, 315-322.	1.4	19
15	Effect of core polarization on magnetic dipole moments in deformed odd-mass nuclei. Physical Review C, 2015, 91, .	2.9	18
16	Generalized routhian calculations within the Skyrme-Hartree-Fock approximation. Nuclear Physics A, 1999, 652, 34-60.	1.5	17
17	Equivalence of pairing correlations and intrinsic vortical currents in rotating nuclei. Physical Review C, 2003, 67, .	2.9	12
18	COLLECTIVE PROPERTIES OF STABLE EVEN-EVEN Cd ISOTOPES. International Journal of Modern Physics E, 2012, 21, 1250036.	1.0	12

#	ARTICLE	IF	CITATIONS
19	Effect of pairing correlations on the isospin-mixing parameter in deformed $N=Z$ even-even nuclei. <i>Physical Review C</i> , 2012, 86, .	2.9	9
20	Fission barriers of two odd-neutron actinide nuclei taking into account the time-reversal symmetry breaking at the mean-field level. <i>Physical Review C</i> , 2017, 95, .	2.9	9
21	Simple model for the quenching of the moments of inertia due to pairing correlations in rigidly deformed rotational bands. <i>Physical Review C</i> , 2004, 69, .	2.9	8
22	Band-head spectra of low-energy single-particle excitations in some well-deformed, odd-mass heavy nuclei within a microscopic approach. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	7
23	Triaxial quadrupole dynamics and the inner fission barrier of some heavy even-even nuclei. <i>Physical Review C</i> , 2017, 96, .	2.9	6
24	Consistency of two different approaches to determine the strength of a pairing residual interaction in the rare-earth region. <i>Physical Review C</i> , 2019, 99, .	2.9	6
25	K -isomeric states in well-deformed heavy even-even nuclei. <i>Physical Review C</i> , 2022, 105, .	2.9	5
26	Determination of a pairing residual interaction from Bohr quadrupole collective dynamics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2018, 45, 115102.	3.6	1
27	Collective coupling between pairing and rotational degrees of freedom within a simple model. <i>Physical Review C</i> , 2020, 102, .	2.9	1
28	Single-Particle Spectra, Pairing Correlations and Spectroscopic Properties of Actinide and Heavier Nuclei. , 2021, 48, 634-644.		1
29	Preliminary study of ground state properties of odd-mass nuclei using the SLy5* within the Skyrme mean-field approach. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0