Feng Pan

List of Publications by Year
in descending order

112 papers	1,234 citations	361413 20 h-index	454955 30 g-index
112 all docs	112 docs citations	112 times ranked	350 citing authors

#	ARTICLE	IF	CITATIONS
1	algebraic approach applied to the $[QQ][\hat{Q}\hat{Q}]$...	4.7	8
2	Nuclear structure and band mixing in ^{194}Pt. Physical Review C, 2021, 103, .	2.9	8
3	Mean-field plus quadrupole–quadrupole and pairing model in the ds-shell. European Physical Journal Plus, 2021, 136, 1.	2.6	0
4	Structure of rotational bands in ^{109}Rh. Physical Review C, 2021, 104, .	2.9	5
5	Extended Heine-Stieltjes polynomials related to the isovector pairing model. European Physical Journal A, 2021, 57, 1.	2.5	1
6	Partial dynamical symmetry versus quasi dynamical symmetry examination within a quantum chaos analyses of spectral data for even–even nuclei. Scientific Reports, 2021, 11, 16417.	3.3	5
7	np-Pair Correlations in the Isovector Pairing Model. Symmetry, 2021, 13, 1405.	2.2	0
8	Properties of giant dipole resonances within an extended pairing model with a focus on spectral statistics. Physical Review C, 2021, 104, .	2.9	6
9	Random Matrix Theory in Cd isotopes. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 105107.	3.6	1
10	Exact solution of the two-axis two-spin Hamiltonian. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 103104.	2.3	0
11	Quantum phase transitions and band mixing in ^{135}Ba. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 125107.	3.6	3
12	Neutron-proton pairing correction in the extended isovector and isoscalar pairing model. Physical Review C, 2020, 102, .	2.9	5
13	Exact solutions of mean-field plus various pairing interactions and shape phase transitions in nuclei. European Physical Journal: Special Topics, 2020, 229, 2497-2526.	2.6	4
14	Nucleon pair shell model in M scheme. Physical Review C, 2020, 102, .	2.9	13
15	Exact solution of spherical mean-field plus multi-pair interaction model with two non-degenerate j-orbits. European Physical Journal A, 2020, 56, 1.	2.5	1
16	Analytical study of the $$ \gamma $$-unstable Bohr Hamiltonian with quasi-exactly solvable decatic potential. European Physical Journal A, 2020, 56, 1.	2.5	7
17	Exact solution of the extended dimer Bose–Hubbard model with multi-body interactions. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 043102.	2.3	2
18	On the importance of np-pairs in the isovector pairing model. Europhysics Letters, 2020, 132, 32001.	2.0	2

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19	An exact solution of spherical mean-field plus orbit-dependent non-separable pairing model with two non-degenerate j-orbits. Nuclear Physics A, 2019, 984, 68-76.	1.5	7
20	Exact solution of spherical mean-field plus special orbit-dependent non-separable pairing model with multi non-degenerate j-orbits. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 165-171.	4.1	5
21	A close look at the competition of isovector and isoscalar pairing in A=18 and 20 even-even Nâ‰ˆZ nuclei *. Chinese Physics C, 2019, 43, 074106.	3.7	1
22	Ground-state shape evolution in Er and Yb isotopes. Nuclear Physics A, 2019, 986, 86-97.	1.5	5
23	Exact solution of mean-field plus an extended T = 1 nuclear pairing Hamiltonian in the seniority-zero symmetric subspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 1-6.	4.1	3
24	A simple procedure for construction of the orthonormal basis vectors of irreducible representations of O(5) in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>O</mml:mi></mml:mrow><mml:mrow><mml:mi>T</mml:mi></mml:mrow></mm stretchy="false">(</mml:mo><mml:mn>3</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 522 Td (stretchy="false">)</mml:r	1.5	6
25	Exactly solvable configuration mixing scheme in the vibrational limit of the interacting boson model. Physical Review C, 2018, 97, .	2.9	7
26	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> -soft rotor with configuration mixing in the O(6) limit of the interacting boson model. Physical Review C, 2018, 97, .	2.9	10
27	Exact solution of the mean-field plus separable pairing model reexamined. Physical Review C, 2017, 95, .	2.9	9
28	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> -rigid solution of the Bohr Hamiltonian for the critical point description of the spherical to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> -rigidly deformed shape phase transition. Physical Review C, 2017, 96, .	2.9	12
29	Exactly Solvable Pairing in a Mean-field Framework: Models and Applications. , 2017, , 327-355.		0
30	A nucleon-pair and boson coexistent description of nuclei. Chinese Physics C, 2017, 41, 074103.	3.7	1
31	An exact solution of spherical mean-field plus a special separable pairing model. Nuclear Physics A, 2017, 957, 51-59.	1.5	9
32	Ground state phase transition in the Nilsson mean-field plus standard pairing model. Physical Review C, 2016, 94, .	2.9	8
33	Excited-state quantum phase transitions in the interacting boson model: Spectral characteristics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>0</mml:mn><mml:mo>+</mml:mo></mml:msup></mm and effective order parameter. Physical Review C, 2016, 93, .	2.9	11
34	Quantum phase transition in the spherical mean-field plus quadrupole-quadrupole and pairing model in a single-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>j</mml:mi></mml:math>shell. Physical Review C, 2016, 93, .	2.9	5
35	A new procedure for constructing basis vectors of SU(3)âŠƒSO(3). Nuclear Physics A, 2016, 952, 70-99.	1.5	12
36	Angular momentum projection for a Nilsson mean-field plus pairing model. Nuclear Physics A, 2016, 950, 1-28.	1.5	1

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37	An exactly solvable spherical mean-field plus extended monopole pairing model. Nuclear Physics A, 2016, 947, 234-247.	1.5	7
38	A NEW POLYNOMIAL APPROACH WITH HEINE-STIELTJES CORRESPONDENCE TO THE STANDARD PAIRING PROBLEM. , 2016, , .		0
39	Ground-state properties of rare-earth nuclei in the Nilsson mean-field plus extended-pairing model. Physical Review C, 2015, 92, .	2.9	9
40	The progressive solutions for the Dicke Hamiltonian. European Physical Journal Plus, 2015, 130, 1.	2.6	2
41	Alternative solvable description of the E(5) critical point symmetry in the interacting boson model. Physical Review C, 2015, 91, .	2.9	11
42	Exact Solutions of an Extended Bose-Hubbard Model with E 2 Symmetry. International Journal of Theoretical Physics, 2015, 54, 2204-2217.	1.2	1
43	Understanding nuclear shape phase transitions within SD-pair shell model. , 2014, , .		0
44	Emergent dynamical symmetry at the triple point of nuclear deformations. Physical Review C, 2014, 90, .	2.9	16
45	Triaxial rotor in the SU(3) limit of the interacting boson model. Physical Review C, 2014, 90, .	2.9	11
46	Construction of basis vectors for symmetric irreducible representations of O(5) $ supset$ O(3). European Physical Journal Plus, 2014, 129, 1.	2.6	12
47	Numerical algorithm for the standard pairing problem based on the Heine–Stieltjes correspondence and the polynomial approach. Computer Physics Communications, 2014, 185, 2714-2723.	7.5	28
48	Shape phase transition and phase coexistence in odd Sm nuclei. Physical Review C, 2013, 88, .	2.9	17
49	Level statistical properties of the spherical mean-field plus standard pairing model. Physical Review C, 2013, 88, .	2.9	14
50	Heine-Stieltjes correspondence and a new angular momentum projection for many-particle systems. Physical Review C, 2013, 88, .	2.9	21
51	Ground-state phase transition in odd-A and odd-odd nuclei near $N=90$. Physical Review C, 2013, 88, .	2.9	19
52	GROUND STATE OCCUPATION PROBABILITIES OF VALENCE NUCLEON PAIRS IN EVEN-EVEN NUCLEI IN THE NILSSON MEAN-FIELD PLUS THE NEAREST-ORBIT PAIRING MODEL. , 2013, , .		0
53	Heine-Stieltjes correspondence and the polynomial approach to the standard pairing problem. Physical Review C, 2012, 86, .	2.9	62
54	Critical-point symmetries in intermediately deformed odd-Anuclei. Physical Review C, 2012, 86, .	2.9	6

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55	Analytically solvable prolate-oblate shape phase transitional description within the SU(3) limit of the interacting boson model. Physical Review C, 2012, 85, .	2.9	23
56	The extended Heine–Stieltjes polynomials associated with a special LMG model. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 395305.	2.1	24
57	THE SD-PAIR SHELL MODEL AND INTERACTING BOSON MODEL. , 2011, , .		0
58	Simple description of odd-A nuclei around the critical point of the spherical to axially deformed shape phase transition. Physical Review C, 2011, 84, .	2.9	15
59	Critical point symmetries in deformed odd-Anuclei. Physical Review C, 2011, 84, .	2.9	7
60	Nilsson mean-field plus the extended pairing model description of rare earth nuclei. Chinese Physics C, 2011, 35, 747-752.	3.7	4
61	Mean-field plus various types of pairing models and an exact boson mapping of the standard pairing model. AIP Conference Proceedings, 2011, , .	0.4	2
62	ANGULAR MOMENTUM PROJECTION OF THE NILSSON MEAN-FIELD PLUS NEAREST-ORBIT PAIRING INTERACTION MODEL. , 2011, , .		0
63	APPLICATIONS OF NILSSON MEAN-FIELD PLUS EXTENDED PAIRING MODEL TO RARE-EARTH NUCLEI. , 2011, , .		0
64	High spin states in stable nucleus 84Sr. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1861-1867.	5.1	6
65	High-spin states and level structure inRb84. Physical Review C, 2010, 82, .	2.9	6
66	Analytical description of odd-A nuclei near the critical point of the spherical to axially deformed shape transition. Physical Review C, 2010, 82, .	2.9	18
67	New exact solutions of the standard pairing model for well-deformed nuclei. Physical Review C, 2009, 80, .	2.9	21
68	Quantum phase transitional patterns in theSD-pair shell model. Physical Review C, 2009, 80, .	2.9	23
69	Quantum phase transitions in the consistent-QHamiltonian of the interacting boson model. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 125105.	3.6	20
70	MEAN-FIELD PLUS VARIOUS TYPES OF PAIRING INTERACTIONS AND AN EXACT BOSON MAPPING OF THE REDUCED BCS PAIRING INTERACTION. International Journal of Modern Physics E, 2008, 17, 386-397.	1.0	1
71	SD-PAIR SHELL MODEL FOR EVEN-EVEN SYSTEMS. International Journal of Modern Physics E, 2008, 17, 245-255.	1.0	1
72	SD-pair shell model study forXe126andBa128. Physical Review C, 2008, 77, .	2.9	20

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73	CLASSIFICATION AND QUANTIFICATION OF ENTANGLED BIPARTITE QUTRIT PURE STATES. International Journal of Modern Physics B, 2006, 20, 1333-1342.	2.0	18
74	Vibration-rotation transitional patterns in theSD-pair shell model. Physical Review C, 2006, 73, .	2.9	20
75	Entropy product measure for multipartite pure states. Science in China Series G: Physics, Mechanics and Astronomy, 2006, 49, 606-615.	0.2	22
76	QUANTUM PHASE TRANSITIONAL BEHAVIOR IN THE EXTENDED CASTEN TRIANGLE OF THE INTERACTING BOSON MODEL. International Journal of Modern Physics E, 2006, 15, 1723-1733.	1.0	7
77	ON THE SURVIVAL OF THE SD-PAIR SHELL MODEL UNDER PSEUDO-SPIN TRANSFORMATION. International Journal of Modern Physics E, 2006, 15, 101-108.	1.0	1
78	On Solutions of the One-dimensional Holstein Model. , 2006, , .		0
79	EXACTLY SOLVABLE PAIRING MODELS. , 2005, , .		0
80	Quantum critical behavior of two coupled Boseâ€"Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 339, 403-407.	2.1	31
81	Exact solutions of an extended Dicke model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 341, 94-100.	2.1	8
82	Application of the extended pairing model to heavy isotopes. European Physical Journal A, 2005, 25, 515-516.	2.5	1
83	Extended pairing model revisited. European Physical Journal A, 2005, 25, 511-513.	2.5	0
84	SD-pair shell model and the interacting boson model. Physical Review C, 2005, 71, .	2.9	18
85	INTRUDER LEVELS AND VIBRATIONAL MODES IN THE SD-PAIR SHELL MODEL. International Journal of Modern Physics E, 2005, 14, 1205-1212.	1.0	2
86	Quantum phase transitions in the U(5)â€"O(6) large-N limit. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 1039-1044.	3.6	25
87	Pairing gaps in neutron stars. Physical Review C, 2004, 70, .	2.9	34
88	Exactly Solvable Pairing Plus Mean Field Model. AIP Conference Proceedings, 2004, , .	0.4	0
89	Simple Entanglement Measure for Multipartite Pure States. International Journal of Theoretical Physics, 2004, 43, 1241-1247.	1.2	21
90	Algebraic Solutions of an Extended Pairing Model for Well Deformed Nuclei. Physical Review Letters, 2004, 92, 112503.	7.8	31

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91	EXACT SOLUTIONS OF THE ISOVECTOR PAIRING INTERACTION. , 2004, , .		0
92	Possible deviations from the O(4) limit of the vibron model in diatomic molecules. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 316, 84-90.	2.1	5
93	Reconsideration of enhancement of sd dominance in interacting boson models. Physical Review C, 2003, 68, .	2.9	8
94	Algebraic solutions of mean-field plus $T=1$ pairing interaction. Physical Review C, 2002, 66, .	2.9	29
95	Analytical expressions for some multiplicity-free isoscalar factors of $Sfâ\check{S}ƒSfâ\check{}1$. Journal of Mathematical Physics, 2002, 43, 6296-6306.	1.1	1
96	APPLICATIONS OF A HARD-CORE BOSEâ€"HUBBARD MODEL TO WELL-DEFORMED NUCLEI. International Journal of Modern Physics B, 2002, 16, 2071-2077.	2.0	3
97	APPLICATIONS OF A HARD-CORE BOSE-HUBBARD MODEL TO WELL-DEFORMED NUCLEI. , 2002, , .		0
98	Exact solutions of the high dimensional hard-core Fermi-Hubbard model. Science in China Series A: Mathematics, 2001, 44, 83-88.	0.5	0
99	Magnetic excitations in the nucleon-pair shell model. Physical Review C, 2001, 64, .	2.9	7
100	ROTATIONAL AND VIBRATIONAL MOTION IN NUCLEI. , 2001, , .		0
101	Simple exact solutions of one-dimensional finite-chain hard-core Bose-Hubbard and Fermi-Hubbard models. Journal of Physics A, 2000, 33, 9095-9100.	1.6	8
102	Analytical solutions for the LMG model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 451, 1-10.	4.1	71
103	Exact Solutions for Some Nuclear Many-Body Problems. Annals of Physics, 1999, 271, 120-140.	2.8	20
104	New algebraic approach for an exact solution of the nuclear mean-field plus orbit-dependent pairing hamiltonian. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 442, 7-13.	4.1	24
105	A particle-number-conserving solution to the generalized pairing problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 1-5.	4.1	78
106	New algebraic solutions for SO(6) â†" U(5) transitional nuclei in the interacting boson model. Nuclear Physics A, 1998, 636, 156-168.	1.5	104
107	Complementary group resolution of the SU(n) outer multiplicity problem. I. The Littlewood rules and a complementary U(2nâˆ2) group structure. Journal of Mathematical Physics, 1998, 39, 5631-5641.	1.1	2
108	Complementary group resolution of the SU(n) outer multiplicity problem. II. Recoupling approach for SU(3)âŠƒU(2) reduced Wigner coefficients. Journal of Mathematical Physics, 1998, 39, 5642-5662.	1.1	5

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109	Generalized deformed algebrasF(A1) and their applications. Journal of Mathematical Physics, 1994, 35, 5065-5073.	1.1	14
110	The SO(6)-reduced matrix elements in the SO(8) fermion dynamical symmetry model. Nuclear Physics A, 1992, 537, 117-133.	1.5	1
111	The matrix representation of SO7 in an (SU2)3 basis. Journal of Mathematical Physics, 1991, 32, 386-391.	1.1	0
112	The matrix representation of U4 in the U2Ã—U2 basis and some isoscalar factors for Up+q âŠ‡UpÃ—Uq. Journal of Mathematical Physics, 1990, 31, 1333-1339.	1.1	5