

List of publications

I. Papers published in periodicals

- 1. Dynamics of nuclear quadrupole excitations:**
J. Dobaczewski, S.G. Rohoziński, J. Srebrny,
Nukleonika **20** (1975) 981.
- 2. Solutions of the Schrödinger equation with the Bohr Hamiltonian for the even-even barium and xenon nuclei:**
S.G. Rohoziński, J. Dobaczewski, J. Srebrny, B. Nerlo-Pomorska, K. Pomorski,
Nukleonika **22** (1977) 293.
- 3. Nuclei from the barium region: nonaxial or gamma-soft:**
J. Dobaczewski, S.G. Rohoziński, J. Srebrny,
Z. Phys. **A282** (1977) 203.
- 4. Microscopic dynamic calculations of collective states in xenon and barium isotopes:**
S.G. Rohoziński, J. Dobaczewski, B. Nerlo-Pomorska, K. Pomorski, J. Srebrny,
Nucl. Phys. **A292** (1977) 66.
- 5. Study of the ^{124}Xe and ^{126}Xe structure:**
Ch. Droste, L. Goetting, T. Morek, J. Srebrny, J. Bucka, J. Dobaczewski, S.G. Rohoziński,
Z. Phys. **A284** (1978) 297.
- 6. Collective quadrupole dynamics and the band structure of the nucleus ^{127}Cs :**
Ch. Droste, D. Chlebowska, J. Dobaczewski, F. Döna, A. Kerek, G. Leander, J. Srebrny, W. Waluś,
Nucl. Phys. **A341** (1980) 98.
- 7. The quadrupole vibrational inertial function in the adiabatic time-dependent Hartree-Fock-Bogolyubov approximation:**
J. Dobaczewski, J. Skalski,
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- 8. A unification of boson expansion theories. (I) Functional representations of fermion states:**
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9. **A unification of boson expansion theories. (II) Boson expansions as provided by the functional representation method:**
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10. **A unification of boson expansion theories. (III) Applications:**
J. Dobaczewski,
Nucl. Phys. **A380** (1982) 1.
11. **Isotope shifts and zero-point motion of the nuclear surface:**
J. Dobaczewski, P. Vogel, A. Winther,
Phys. Rev. **C29** (1984) 1540.
12. **Hartree-Fock-Bogolyubov description of nuclei near the neutron-drip line:**
J. Dobaczewski, H. Flocard, J. Treiner,
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13. **On the SU(6) dynamic symmetry in nuclei:**
J. Dobaczewski,
Ann. Univ. M. Curie-Skłodowska, Lublin, XL/XLI, 9 Sect. AAA (1986) 81.
14. **Violation of quadrupole sum rules in the Interacting Boson Model:**
J. Dobaczewski, S.G. Rohoziński, J. Srebrny,
Nucl. Phys. **A462** (1987) 72.
15. **Structure of nuclei near ^{100}Sn and the $\pi g_{9/2} \Rightarrow \nu g_{7/2}$ Gamow-Teller beta decays:**
J. Dobaczewski, W. Nazarewicz, A. Płochocki, K. Rykaczewski, J. Żylicz,
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16. **Deformed nuclear state as a quasiparticle-pair condensate:**
J. Dobaczewski, J. Skalski,
Phys. Rev. **C38** (1988) 580.
17. **Nuclear deformation: A proton-neutron effect?:**
J. Dobaczewski, W. Nazarewicz, J. Skalski, T.R. Werner,
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18. **Quadrupole collective models from the Hartree-Fock standpoint:**
J. Dobaczewski, J. Skalski,
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19. **Composition and equation of state of cold catalyzed matter below neutron drip:**
P. Haensel, J.L. Zdunik, J. Dobaczewski,
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20. **Charge densities of ^{208}Pb , ^{206}Pb , and ^{205}Tl and the mean-field approximation:**
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21. **Fermion expansions for boson systems:**
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22. **Analysis of the Generator Coordinate Method in a study of shape isomerism in ^{194}Hg :**
P. Bonche, J. Dobaczewski, H. Flocard, P.-H. Heenen, J. Meyer,
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23. **A new representation of the BCS states and the quadrupole collective excitations:**
J. Dobaczewski,
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24. **Quadrupole collective correlations and the depopulation of the superdeformed bands in mercury:**
P. Bonche, J. Dobaczewski, H. Flocard, P.-H. Heenen, S.J. Krieger, J. Meyer, M.S. Weiss,
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25. **Octupole softness of superdeformed ^{194}Pb :**
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27. **Projection onto physical boson states in a collective subspace:**
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28. **Pairing vibrations and stability of superdeformed states:**
J. Meyer, P. Bonche, J. Dobaczewski, H. Flocard, P.-H. Heenen,
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29. **Dynamical symmetries, multiclustering, and octupole susceptibility in superdeformed and hyperdeformed nuclei:**
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30. **Generator coordinate kernels between zero- and two-quasiparticle BCS states:**
N. Tajima, H. Flocard, P. Bonche, J. Dobaczewski, P.-H. Heenen,
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31. **Diabatic effects in ^{186}Pb : A generator coordinate analysis:**
N. Tajima, H. Flocard, P. Bonche, J. Dobaczewski, P.-H. Heenen,
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32. **Comment on “Pairing correlations studied in the two-level model”:**
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33. **Hartree-Fock and Hartree-Fock-Bogoliubov calculations of superdeformed bands:**
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34. **Generator coordinate method for triaxial quadrupole dynamics in strontium isotopes. II Results for particle-number projected states:**
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35. **Approximate particle number projection for rotating nuclei:**
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36. **Particle-drip lines from the Hartree-Fock-Bogoliubov theory with Skyrme interaction:**
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37. **Boson-fermion mappings for odd systems from supercoherent states:**
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38. **Nuclear shell structure at particle drip lines:**
J. Dobaczewski, I. Hamamoto, W. Nazarewicz, J.A. Sheikh,
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39. **Quadrupole collective states in a large single- j shell:**
K. Burzyński, J. Dobaczewski,
Acta Phys. Pol. **B25** (1994) 655.
40. **Nuclear shell structure at particle drip lines:**
J. Dobaczewski, I. Hamamoto, W. Nazarewicz, J.A. Sheikh,
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41. **Spurious states in boson calculations – spectre or reality?:**
P. Navrátil, H.B. Geyer, J. Dobeš, J. Dobaczewski,
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42. **Superdeformed rotational bands in the mercury region; a cranked Skyrme-Hartree-Fock-Bogoliubov study:**
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43. **Comment on “Shell effects in nuclei near the neutron-drip line”:**
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44. **Microscopic approach to collective motion:**
P. Bonche, E. Chabanat, B.Q. Chen, J. Dobaczewski, H. Flocard, B. Gall, P.-H. Heenen, J. Meyer, N. Tajima, M.S. Weiss,
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45. **Microscopic aspects of nuclear deformation:**
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46. **Mean-field description of ground-state properties of drip-line nuclei: Shell-correction method:**
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47. **Isospin impurities in ground states of $N=Z$ nuclei near the proton-drip line:**
J. Dobaczewski, I. Hamamoto,
Phys. Lett. B **345** (1995) 181.
48. **The $\Delta I=4$ bifurcation in superdeformed bands:**
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49. **Multiclustering and physics of exotic nuclear shapes:**
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50. **Limits of Proton Stability Near ^{100}Sn :**
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51. **Quadrupole-collective states in a large single- j shell:**
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52. **Physics of exotic nuclear states:**
W. Nazarewicz, J. Dobaczewski, T.R. Werner,
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53. **Closed shells at drip-line nuclei:**
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54. **Hexadecapole interaction and the $\Delta I=4$ staggering effect in rotational bands:**
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55. **Quadrupole and octupole correlations in normal, superdeformed, and hyperdeformed states of ^{194}Pb :**
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Nucl. Phys. **A588** (1995) 597.
56. **Influence of shell-quenching far from stability on the astrophysical r-process:**
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58. **Boson-fermion mapping of collective fermion-pair algebras:**
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59. **Time-odd components in the mean field of rotating superdeformed nuclei:**
J. Dobaczewski, J. Dudek,
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60. **Superdeformed rotational bands with density dependent pairing interactions:**
J. Terasaki, P.-H. Heenen, P. Bonche, J. Dobaczewski, H. Flocard,
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61. **Excited superdeformed band in ^{142}Sm identical to ^{146}Gd :**
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62. **Microscopic study of a C_4 -symmetry hypothesis in $A \sim 150$ superdeformed nuclei. Deformed Woods-Saxon mean field:**
W.D. Luo, A. Bouguettoucha, J. Dobaczewski, J. Dudek, X. Li,
Phys. Rev. C **52** (1995) 2989.
63. **Physics of drip-line nuclei:**
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64. **Neutron radii and skins in the Hartree-Fock-Bogoliubov calculations:**
J. Dobaczewski, W. Nazarewicz, T.R. Werner,
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65. **Time-odd components in the rotating mean field and identical bands:**
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66. **On the quality of microscopic descriptions of nuclear mass:**
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67. **Calculation of decay properties of very neutron-rich nuclei with a modified Nilsson potential:**
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68. **Proton localization in neutron star matter:**
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69. **Structure of proton drip-line nuclei around doubly magic ^{48}Ni :**
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K. Rutz, C.R. Chinn, A.S. Umar, M.R. Strayer,
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73. **Additivity of Quadrupole Moments in Superdeformed Bands: Single-Particle Motion at Extreme Conditions:**
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83. **Prompt proton decay of a well-deformed rotational band in ^{58}Cu :**
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84. **High-spin γ -ray spectroscopy in the vicinity of ^{56}Ni :**
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85. **Theoretical aspects of science with radioactive nuclear beams:**
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87. **Masses and radii of spherical nuclei calculated in various microscopic approaches:**
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88. **Rotational bands in the doubly magic nucleus ^{56}Ni :**
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90. **Shape coexistence and the effective nucleon-nucleon interaction:**
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91. **Comparison of superdeformed bands in ^{61}Zn and ^{60}Zn : Possible evidence for $T = 0$ pairing:**
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92. **Continuum effects for the mean-field and pairing properties of weakly bound nuclei:**
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93. **Structure of nuclei at extreme values of the isospin:**
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104. **Pairing anti-halo effect:**
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II. Papers submitted for publication in periodicals and in press

1. **Opportunities for Fundamental Physics Research with Radioactive Molecules:**
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2. **Electromagnetic properties of indium isotopes elucidate the doubly magic character of ^{100}Sn :**
 J. Karthein, C.M. Ricketts, R.F. Garcia Ruiz, C.L. Binnersley, T.E. Cocolios, R.P. de Groote, J. Dobaczewski, G.J. Farooq-Smith, K. Flanagan, F.P. Gustafsson, J.D. Holt, A. Kanellakopoulos, A. Koszorus, K.M. Lynch, T. Miyagi, W. Nazarewicz, G. Neyens, P.-G. Reinhard, A.R. Vernon, S.G. Wilkins, X.F. Yang,
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III. Popularized papers for general public

1. **O obrotach ciał niewielkich (I):**
J. Dobaczewski, W. Nazarewicz,
Delta **170** (1988) 13 (in Polish).
2. **O obrotach ciał niewielkich (II):**
J. Dobaczewski, W. Nazarewicz,
Delta **172** (1988) 10 (in Polish).
3. **Prawdopodobieństwo rozpadu promieniotwórczego:**
J. Dobaczewski,
Delta **307** (1999) 2 (in Polish).
4. **The atomic nucleus as a laboratory:**
H. Białkowska, Z. Sujkowski, J. Dobaczewski,
CERN Courier **44** (2004) 16.
5. **The atomic nucleus: greater than the sum of its parts:**
J. Dobaczewski,
Futurum **2** (2019) 86, <https://doi.org/10.33424/FUTURUM15>.
6. **Physics: Nuclear Density Functional Theory for determining the properties of atomic nuclei:**
J. Dobaczewski,
Open Access Government **24** (2019) 218,
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IV. Papers published as preprints or e-prints

1. **Microscopic dynamic calculations of collective states in xenon and barium isotopes II:**
S.G. Rohoziński, J. Dobaczewski, B. Nerlo-Pomorska, K. Pomorski, J. Srebrny,
preprint IFT/77/8.
2. **Real coherent states for fermion systems:**
J. Dobaczewski, S.K. Koonin,
CALTECH preprint (1983), MAP-35.
3. **Wybrane zagadnienia teorii jądra atomowego (in Polish):**
J. Dobaczewski,
 - *Part I - preprint IFT/16/85,*
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4. **Excited superdeformed bands in ^{148}Gd : Band crossing and identical bands:**
G. de France, D. Prévost, J.C. Lisle, H.R. Andrews, B.C. Ball, C.W. Beausang, F.A. Beck, Th. Byrski, D. Curien, G. Duchêne, Ch. Finck, S. Flibotte, G. Gall, B. Haas, G. Hackman, V. Janzen, B. Khararaja, J.C. Merdinger, S.M. Mullins, S. Pilotte, D.C. Radford, C. Rigollet, H. Savajols, O. Stezowski, Ch. Theisen, P.J. Twin, J.P. Vivien, J.C. Waddington, D. Ward, L. Wei, K. Zuber, J. Dobaczewski, J. Dudek, W.D. Luo, A. Bouguettoucha, W. Nazarewicz,
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5. **HFODD (v2.08k): User's Guide:**
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J. Dobaczewski, B.G. Carlsson, J. Dudek, J. Engel, P. Olbratowski P. Powalowski, M. Sadziak, J. Sarich, W. Satuła, N. Schunck, A. Staszczak, M. Stoitsov, M. Zalewski, H. Zduńczuk,
on-line-only publication: arXiv:0909.3626.
7. **Approximate restoration of translational and rotational symmetries within the Lipkin method:**
Y. Gao, J. Dobaczewski, P. Toivanen,
arXiv:1511.02814.
8. **Density functional theory for nuclear fission - a proposal:**
J. Dobaczewski,
arXiv:1910.03924.

V. Conference invited talks

1. **Nuclear deformation: A proton-neutron effect?:**
J. Dobaczewski,
Contemporary Topics in Nuclear structure, Proceedings of the International Conference in Cocoyoc, México, R.F. Casten, A. Frank, M. Moshinsky, S. Pittel (World Scientific, Singapore, 1988), p. 227.
2. **Hartree-Fock description with quadrupole correlations of superdeformed states in lead:**
J. Dobaczewski, P. Bonche, H. Flocard, P.-H. Heenen, S.J. Krieger, J. Meyer, M.S. Weiss,
Wetherill Symposium, Philadelphia, May 1991, unpublished.
3. **Hartree-Fock description of superdeformed states:**
J. Dobaczewski, P. Bonche, H. Flocard, P.-H. Heenen, S.J. Krieger, J. Meyer, M.S. Weiss,
Frontier Topics in Nuclear and Astrophysics—Graduate Lectures, Proceedings of the 22nd Mazurian Lakes Summer School on Nuclear Physics, held in Piaski, Poland, eds. Z. Sujkowski, G. Szeplińska (Institute of Physics Publishing, Bristol, 1992), p. 109.
4. **Coherent states and boson-fermion mapping:**
J. Dobaczewski, J. Dobeš, H.B. Geyer, F.J.W. Hahne, P. Navrátil, F.G. Scholtz,
Proc. of the Int. Symp. on Coherent States, Past, Present, and Future, eds. D.H. Feng, J.R. Klauder, M.R. Strayer, (World Scientific, Singapore, 1994) p. 119.
5. **Nuclear shell structure at particle drip lines:**
J. Dobaczewski,
International workshop on high spins and novel deformations, ECT, Trento, 29 November – 18 December 1993, unpublished.*

6. **Nuclear Structure at the Proton and Neutron Drip Lines:**
J. Dobaczewski,
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7. **Closed shells at drip-line nuclei:**
J. Dobaczewski, W. Nazarewicz, T.R. Werner,
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– 3 September 1994, reference I.53.*
8. **Pairing correlations at drip lines:**
J. Dobaczewski,
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9. **Nuclear structure aspects of exotic nuclei:**
J. Dobaczewski,
*Int. Conf. on Reaction Studies with Exotic Nuclei from SPIRAL, GANIL, Caen, 30-31 January 1995,
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10. **Mean-field description of drip-line nuclei:**
J. Dobaczewski,
1995 Nuclear Chemistry Gordon Research Conference, New London, 18-23 June 1995, unpublished.
11. **Pairing correlations in drip-line nuclei:**
J. Dobaczewski,
Theory Workshop on Pairing Forces, Argonne, 26-30 June 1995, unpublished.
12. **Time-odd components in the rotating mean field and identical bands:**
J. Dobaczewski, J. Dudek,
*High angular momentum phenomena, Special Workshop in honour of Zdzisław Szymański, Piaski, 23-
26 August 1995, reference I.65.*
13. **Jądra dalekie od linii stabilności beta: nowe wino w starej beczce (in Polish):**
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