

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:**
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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,
Nucl. Phys. A422 (1984) 103.
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,
Z. Phys. A329 (1988) 267.
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:**
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25. **Octupole softness of superdeformed ^{194}Pb :**
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26. **Generator coordinate method for triaxial quadrupole dynamics in strontium isotopes:**
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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:**
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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:**
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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”:**
J. Dobaczewski, W. Nazarewicz,
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33. **Hartree-Fock and Hartree-Fock-Bogoliubov calculations of superdeformed bands:**
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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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39. **Quadrupole collective states in a large single- j shell:**
K. Burzyński, J. Dobaczewski,
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40. **Nuclear shell structure at particle drip lines:**
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Acta Phys. Pol. **B25** (1994) 541.
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:**
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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:**
P. Magierski, K. Burzyński, J. Dobaczewski, W. Nazarewicz,
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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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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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56. **Influence of shell-quenching far from stability on the astrophysical r-process:**
B. Chen, J. Dobaczewski, K.-L. Kratz, K. Langanke, B. Pfeiffer, F.-K. Thielemann, P. Vogel,
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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:**
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61. **Excited superdeformed band in ^{142}Sm identical to ^{146}Gd :**
G. Hackman, R. Wadsworth, D.S. Haslip, R.M. Clark, J. Dobaczewski, J. Dudek, S. Flibotte, K. Hauschild, I.M. Hibbert, I.-Y. Lee, S.M. Mullins, A.O. Macchiavelli, S. Pilotte, A.T. Semple, I. Thorslund, J. Timar, P. Vaska, J.C. Waddington, L. Walker,
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W.D. Luo, A. Bouguettoucha, J. Dobaczewski, J. Dudek, X. Li,
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63. **Physics of drip-line nuclei:**
T.R. Werner, J. Dobaczewski, W. Nazarewicz,
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64. **Neutron radii and skins in the Hartree-Fock-Bogoliubov calculations:**
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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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69. **Structure of proton drip-line nuclei around doubly magic ^{48}Ni :**
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85. **Theoretical aspects of science with radioactive nuclear beams:**
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86. **Odd-even staggering of nuclear masses: pairing or shape effect?:**
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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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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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