

Lista de publicatii WoS AIS/Q2 (with corresponding author underlined)

- [1] V Avrigeanu and M. Avrigeanu, *Validation of an optical potential for incident and emitted low-energy alpha-particles in the A60 mass range* (Part of a collection: [Light Clusters in Nuclei and Nuclear Matter: Nuclear Structure and Decay, Heavy Ion Collisions, and Astrophysics](#)), Eur. Phys. J. A **57**, 54 (2021), doi:10.1140/epja/198 s10050-020-00336-0; <https://link.springer.com/article/10.1140/epja/s10050-020-00336-0>
- [2] M. Avrigeanu, D. Rochman, A. J. Koning, U. Fischer, D. Leichtle, C. Costache, and V. Avrigeanu. *Advanced breakup nucleon enhancement of deuteron-induced reaction cross sections*. Eur. Phys. J. A **58**, 3 (2022), doi:10.1140/epja/s10050-021-00659-6; <https://link.springer.com/article/10.1140/epja/s10050-021-00659-6>
- [3] V Avrigeanu and M. Avrigeanu, *Validation of an optical potential for incident and emitted low-energy alpha-particles in the A60 mass range. II. Neutron-induced reactions on Ni isotopes* (Part of a collection: [Light Clusters in Nuclei and Nuclear Matter: Nuclear Structure and Decay, Heavy Ion Collisions, and Astrophysics](#)), Eur. Phys. J. A **58**, 189 (2022), doi:10.1140/epja/s10050-022-00831-6; <https://link.springer.com/article/10.1140/epja/s10050-022-00831-6>
- [4] V. Avrigeanu and M. Avrigeanu, *Charged-particle optical potentials tested by first direct measurement of the $^{59}\text{Cu}(p,a)^{56}\text{Ni}$ reaction*, Phys. Rev. C **106**, 024615 (2022), doi:10.1103/PhysRevC.106.024615; <https://doi.org/10.1103/PhysRevC.106.024615>
- [5] M. Avrigeanu and V. Avrigeanu, *Optical potential for incident and emitted low-energy alpha particles. III. Non-statistical processes induced by neutrons on Zr, Nb, and Mo nuclei*, Phys. Rev. C **107**, 034613 (2023).
- [6] V. Avrigeanu and M. Avrigeanu, *Consistent assessment of neutron-induced activation of ^{93}Nb* , Front. Phys. **11**, 1142436 (2023), <https://doi.org/10.3389/fphy.2023.1142436> (part of the *Research Topic on Nuclear Data for Fusion Technology from Basic Research to Full-Scale Applications*, <https://www.frontiersin.org/research-topics/39045/nuclear-data-for-fusion-technology-from-basic-research-to-full-scale-application>)
- [7] M. Avrigeanu and V. Avrigeanu, *Structural material nuclear data basic research*, Front. Phys. **11**, 1172697 (2023), <https://doi.org/10.3389/fphy.2023.1172697> (part of the *Research Topic on Nuclear Data for Fusion Technology from Basic Research to Full-Scale Applications*, <https://www.frontiersin.org/research-topics/39045/nuclear-data-for-fusion-technology-from-basic-research-to-full-scale-application>)
- [8] V. Avrigeanu and M. Avrigeanu, *Constrained model assumptions using recent data of α -particle reactions on ^{144}Sm* , Front. Phys. **12**, 1247311 (2023), <https://doi.org/10.3389/fphy.2023.1247311> (part of the *Research Topic on Cross Section Data of Interest for Nuclear Astrophysics: Experimental and Theoretical Status, and Perspectives*. <https://www.frontiersin.org/research-topics/51270/cross-section-data-of-interest-for-nuclear-astrophysics-experimental-and-theoretical-status-and-perspectives#overview>)
- [9] M. Avrigeanu, E. Simeckova, J. Mrazek, C. Costache, and V. Avrigeanu, *Modeling of deuteron-induced reactions on molybdenum at low energies* (submitted for publication in Phys. Rev. C, Nov. 1st, 2023)

Lista de publicatii indexate WoS

- [10] M. Avrigeanu and V. Avrigeanu, *Role of direct interactions in (d,p) and (d,2p) reactions*, submitted to EPJ Web of Conf. (14.10.2022); oral talk at [Int. Conf. on Nucl. Data for Sci. and Tech. \(ND2022\), July 25-29, 2022, Sacramento, California, US](#); EPJ Web of Conf. **284**, 03006 (2023), <https://doi.org/10.1051/epjconf/202328403006>
- [11] V. Avrigeanu and M. Avrigeanu, *Additional reaction mechanisms to statistical alpha-emission and the related optical-potential validation*, submitted to EPJ Web of Conf. (15.10.2022) ; oral talk at [Int. Conf. on Nucl. Data for Sci. and Tech. \(ND2022\), July 25-29, 2022, Sacramento, California, US](#); EPJ Web of Conf. **284**, 07001 (2023), <https://doi.org/10.1051/epjconf/202328407001>
- [12] M. Avrigeanu and V. Avrigeanu, *Due consideration of the breakup and direct reaction mechanisms within (d,p), (d,2p), (d,xn2p), and (d,xn) reactions*, main oral talk at *16th Varenna Conference on Nuclear Reaction Mechanisms (NRM2023)*, Varenna, Italy, June 11-16, 2023, F. Cerutti and T. Kawano (Eds.), <https://indico.cern.ch/event/1132769/>; EPJ Web of Conf. (accepted, Oct. 2023)