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International Researcher IDs

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Education Information

Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 2021 - Continues

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 2018 - 2021

Research Areas

Nuclear physics, Properties of Nuclei, Special nuclear reactions

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A quantal diffusion approach for multinucleon transfer in heavy-ion collisions**
Kayaalp A., ARIK M., Ocal S., YILMAZ O., Ayik S., Umar A.
Nuclear Physics A, vol.1050, 2024 (SCI-Expanded)
- II. **A theoretical study on quasifission and fusion-fission processes in heavy-ion collisions**
Kayaalp A., Ocal S., Yaprakli B., ARIK M., Ayik S., YILMAZ O., Umar A.
European Physical Journal A, vol.60, no.4, 2024 (SCI-Expanded)
- III. **Description of the multinucleon transfer mechanism for Ca 48 + Pu 244 and Kr 86 + Pt 198 reactions in a quantal transport approach**
Arik M., Ayik S., Yilmaz O., Umar A. S.
Physical Review C, vol.108, no.6, 2023 (SCI-Expanded)
- IV. **Multinucleon transfer mechanism in 160Gd+186W collisions in stochastic mean-field theory**
Ayik S., Arik M., Erbayri E., Yilmaz O., Umar A.
PHYSICAL REVIEW C, vol.108, no.5, 2023 (SCI-Expanded)
- V. **Multinucleon transfer mechanism in Cf 250 + Th 232 collisions using the quantal transport description based on the stochastic mean-field approach**
Ayik S., ARIK M., YILMAZ O., YILMAZ B., Umar A.
Physical Review C, vol.107, no.1, 2023 (SCI-Expanded)
- VI. **Quantal diffusion description of isotope production via the multinucleon transfer mechanism in Ca-**

48+U-238 collisions

Ayik S., Arik M., Karanfil E. C., YILMAZ O., Yilmaz B., Umar A. S.

PHYSICAL REVIEW C, vol.104, no.5, 2021 (SCI-Expanded)

Metrics

Publication: 6

Citation (WoS): 1

Citation (Scopus): 27

H-Index (WoS): 1

H-Index (Scopus): 3