^{81}Zn

The discovery of ^{81}Zn was reported by Kratz et al. in "Neutron-rich isotopes around the *r*-process 'waiting-point' nuclei $^{79}_{29}Cu_{50}$ and $^{80}_{30}Zn_{50}$" in 1991 (1991Kr15). A ^{238}UC-graphite target was irradiated with 600 MeV protons from the CERN synchro-cyclotron and the fragments were separated and identified with the ISOLDE on-line mass separator. "During the experiment, three further new isotopes could be identified, i.e. ^{77}Cu, ^{81}Zn, and ^{84}Ga, the latter two lying even 'beyond' the r-process path..."

Adapted from reference (2012Gr02)

1991Kr15 K. L. Kratz, H. Gabelmann, P. Moller, B. Pfeiffer *et al.*, Z. Phys. A **340**, 419 (1991).

2012Gr02 J. L. Gross, J. Claes, J. Kathawa, and M. Thoennessen, At. Data Nucl. Data Tables **98**, 75 (2012).

Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"