

Table S1. The calculated energies of the ferromagnetic (FM) and two anti-ferromagnetic (AFM-1, AFM-2) configurations relative to the nonmagnetic (NM) configuration for EuN monolayer.

	NM/eV	FM/eV	AFM-1/eV	AFM-2/eV
EuN	0	-3.007	-2.990	-2.942

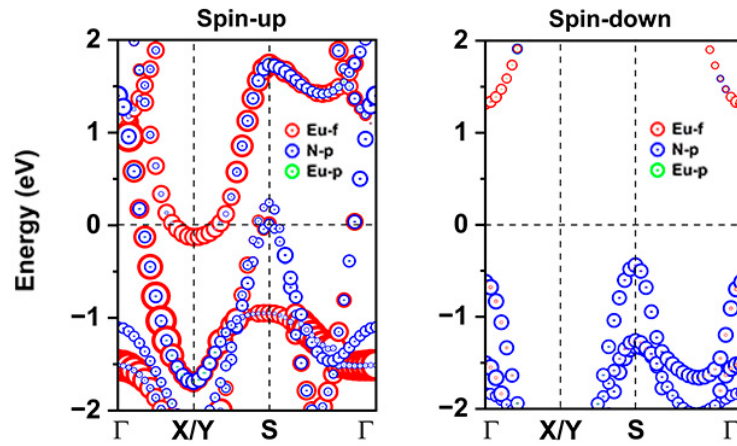


Figure S1. Orbitals-projected band structures for EuN monolayer.

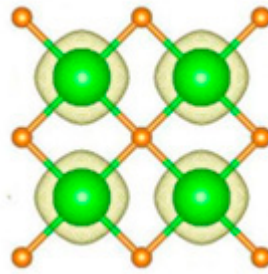


Figure S2. Spin-resolved charge density (SCD) of EuN monolayer with the isosurface value set as $0.03 \text{ e}\text{\AA}^{-3}$.