

ABSTRACT

An oxide superconducting thin film includes a substrate 32, and an intermediate layer 34 and a superconducting layer 36 provided in this order on the substrate 32. The intermediate layer 34 has an average thickness of from 10 nm to 20 nm and a surface roughness Ra of 0.5 nm or less. The superconducting layer 36 is formed on a surface of the intermediate layer 34 and includes an oxide superconductor as a main component.