

Rb-Sr and Sm-Nd ages and petrochemistry of the Buncheon granitic gneiss, northeastern Yeongnam massif, South Korea

Yoji Arakawa[1], Kye-Hun Park[2], Nam-Hoon Kim[3], Yong-Sun Song[4], Hiroshi Amakawa[5]

[1] Geosphere Res Inst., Saitama University, [2] Dept. of Applied Geol., Pukyong National Univ., [3] Dept. Applied Geol., Pukyong National Univ., [4] Dept. Applied Geol., Pukyong National Univ., [5] ORI, Univ. of Tokyo

Rb-Sr and Sm-Nd whole rock ages were determined for Buncheon granitic gneiss in northeastern Yeongnam massif, South Korea. Rb-Sr age of 2045 Ma and Sm-Nd age of 2002 Ma were obtained, and this age was interpreted to be intrusive age of the granitic gneiss. Chemical compositions and initial isotopic compositions show that this granitic gneiss is a result of fractional crystallization from isotopically homogeneous lower crustal rocks.