Fluid inclusion studies of Pinavand fluorite deposit
Shafaezadeh* Elahe, Bagheri Hashem, Khalili Mahmoud and Mackizadeh Mohammad Ali
University of Isfahan, Department of Geology

Abstract:
The Pinavand fluorite deposit belongs to a part of Uromieh – Dokhtar magmatic belt. The host rocks of this deposit are sandstone, limestone and dolomite. Fluid inclusion studies were carried out on several samples of fluorite in order to determine the physicochemical properties of mineralized fluids. On the base of the results, their homogenization temperature varies from 75 to 189 °C and salinity from 0.3 to 18.6 wt % NaCl. Fluid inclusion density is about 0.9 to 1.1 gr/cm³. The size of fluid inclusion varies between 5 to 20 micron. According to the obtained data, the mechanism of deposit is considered as cooling.