

Identification and age estimation of some Middle Pleistocene tephras using ESR of quartz

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ESR of quartz extracted from several Middle Pleistocene tephras

is examined. Three kinds of ESR signals, Al-, Ti-, and Ge-centers are obserbed in each tephra, and the tephras are classified into two groups by the pattern of signal growth due to gamma irradiation. ESR of quartz might be useful as a new tool of identification of tephras. ESR ages of two famous Middle Pleistocene tephras, Omachi APm and Kamitakara tephras is also be presented and compared with their recently published FT ages.