

Why the black fault rocks appear black color? -Enrichment and alteration processes of minerals in the fault zones-

OOHASHI, Kiyokazu^{1*}

¹Graduate School of Science, Chiba University

Color of rock including fault rocks is one of the important material properties, which is affected by its condition, mineralogy, elements and so on. Black-colored fault rocks frequently found from the intensely-comminuted fault core in different faults (e.g., the Median Tectonic Line, the Tanakura Tectonic Line, the Atotsugawa fault system and the Chelungpu fault). However, origin for black color is still unknown since the coloring agent for each black fault rocks is not examined up to now. I thus performed detailed material analyses and color measurement with spectrophotometer to determine the coloring agent for the black fault rocks.

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