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Carbon-bearing materials found in volcanic basalt on surface at Shimonoseki, Japan

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The present paper is summarized as follows:

- 1) First example of carbon-bearing materials in volcanic rocks on surface is reported on phlogopites in Shimonoseki-shi, Yamaguchi, Japan.
 - 2) Carbon-bearing materials are relicts of melting of basalt to produce phlogopite crystal in druses of basalt.
- 3)Origin of carbon is considered to be calcites in deeper places transported by meteoritic impacts at first, which are broken by magmatic melting.
- 4) Carbon-bearing micro-grains with spherule texture on phlogopite plates are formed as gas explosive and quenched processes during high-temperature formation with fluids of carbon dioxides.