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Depleted source mantle of Shitara volcanic rocks: Implications for origin of middle Miocene magmatism in SW Japan

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The Setouchi volcanic rocks in Shitara area were investigated to gain a better understanding of origin of middle Miocene magmatism in SW Japan. As a result of the investigations, source mantle of the Shitara volcanics has isotopically depleted compositions and was related to back arc opening in middle Miocene age.