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Record: 1

Title: Mineral phases on corroded archaeological bronze artefacts excavated in Sweden

Authors: Nord, Anders G. (Swedish National Heritage Board, Stockholm, Sweden); Mattsson, Einar; Tronner, Kate

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Abstract: The corrosion products on 107 recently excavated bronze artefacts from 16 different sites in Sweden were studied, using SEM and XRD techniques; the corresponding soil samples were also analysed. Cuprite and malachite are ubiquitous; brochantite, atacamite/paratacamite and various Cu phosphates are common, and rare examples of the occurrence of tenorite, azurite, botallackite, nantokite, antlerite, posnjakite, bonattite, chalcantite, smithsonite, cerussite and Cu sulphides are noted. In most cases the corrosion products are as would be expected for the soil chemistry, on the basis of thermodynamic calculations for soil-water compositions.

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url=http://search.ebscohost.com/login.aspx?
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artefacts excavated in Sweden

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