Flux growth of ruby and sapphire crystals

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Flux-grown synthetic rubies and sapphires have been described in the gemological literature, but the techniques for growing the most beautiful crystals are kept secret. In this study, the flux method is used to grow ruby and sapphire single crystals. Ruby crystals showing the same habit with that of the legendary Ramaura ruby are successfully grown. Sapphire crystals and ruby crystals showing other habits are also grown.

Fig. 1 Flux-grown ruby crystals

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