

**SHAPED CRYSTALS: GROWTH BY
MICRO-PULLING-DOWN TECHNIQUE: 8 (ADVANCES IN
MATERIALS RESEARCH)**

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This volume presents an overview of the growth of shaped crystals (oxides, fluorides, etc.) Currently the micro-pulling-down technique is applicable to the growth of crystals up to 1 m long with cross-section . Series Title: Advances in Materials Research; Series Volume: 8; Copyright: ; Publisher: Springer- Verlag.

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Growth of Optical Crystals by the Micro-Pulling-Down Method | MRS Bulletin | Cambridge Core

Growth by Micro-Pulling-Down Technique Tsuguo Fukuda, Valery I. Chani Chani Editors ADVANCES IN MATERIALS RESEARCH Shaped Crystals Growth by.

This material has a cubic lattice, which makes it appealing for use in the industry. PSL Research University, Chimie ParisTech, CNRS, Institut de of KY3F10 (KYF) grown by the micro-pulling-down (?-PD) method, doped with Pr³⁺ ions. This technique enables the growth of cylindrical-shaped crystals.

Shaped crystals: growth by micro-pulling-down technique. T Fukuda 47, Fiber Single-Crystal Growth from the Melt for Optical Applications Journal of Instrumentation 8 (04), C, 17, Advances in materials research.

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The fluorescence light-collected perpendicularly to the incident beam-was sent into a monochromator and detected with a photomultiplier. The most common technique to grow rare-earth-doped fluorides is the Czochralski CZ method, which allows the growth of large single crystals with remarkable optical quality.

Crystal growth and scintillation properties of multi-component oxides in
The dashed curve shows the fit of the background Rayleigh scattering. The absorption spectrum discussed before, after subtracting the fitted background, is alike to the spectrum of a CZ-grown sample of Pr:

Our main goals for the future are to improve our growth procedures and to develop which ranged from 0.