

Ce³⁺ -doped colquiriite a new concept of all-solid-state tunable ultraviolet laser

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Abstract

In this letter the first performance of tunable solid-state ultraviolet laser, based on 5d-4f transitions of Ce³⁺ ions in a colquiriite LiCaAlF₆ single crystal, is reported. Our findings hold promise for devising a tunable u.v. allsolid- state laser pumped by the fourth harmonic radiation of any commercially available Nd laser. © 1993 Taylor & Francis Ltd.

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