

Mid-IR Fluorescence of Ho³⁺ -doped Low-Phonon Single Crystals and Chalcogenide Glasses

Recently there has been renewed interest in rare-earth ion doped low-phonon crystals and glasses as gain media for possible compact mid-IR lasers. In this work, mid-IR fluorescence characterization of Ho³⁺ doped low-phonon energy crystals (NaYF₄, CsCdCl₃) and glasses (Ga₂Ge₅S₁₃) were explored.

Primary authors: BROWN, Ei Ei (DEVCOM Army Research Laboratory, Adelphi, USA); FLEISCHMAN, Zackery (DEVCOM Army Research Laboratory, Adelphi, USA); MCKAY, Jason (DEVCOM Army Research Laboratory, Adelphi, USA); HOMMERICH, Uwe (Hampton University, Hampton, USA); PALOSZ, Witold (Brimrose Corporation of America, Adelphi, USA); TRIVEDI, Sudhir (Brimrose Corporation of America, Adelphi, USA); DUBINSKII, Mark (DEVCOM Army Research Laboratory, Adelphi, USA)

Presenter: BROWN, Ei Ei (DEVCOM Army Research Laboratory, Adelphi, USA)

Session Classification: Lunch and Poster Session 2