Synchronously pumped OPO for generation of picosecond pulses around 6.5 µm using AgGaS2 and CdSiP2, Nordine Hendaoui, Ernest Kakoudgi, Mani Aladin, Christophe Silien, André G. Peremans, Vincent Bruyninckx, Facultes Univ. Notre Dame de la Paix (Belgium); Adolfo Esteban-Martin, Majid Ebrahim-Zadeh, ICFO - Instituto de Ciencias Fotónicas (Spain); Stefan Been, Rudolf M. Verdaasdonk, Univ. Medical Ctr. Utrecht (Netherlands); Peter G. Schunemann, Kevin T. Zawilski, BAE Systems (USA); Valentin P. Petrov, Max-Born-Institut für Nichtlineare Optik und Kurzzeitspektroskopie (Germany) . . . . . .[8092-56]

We compare the performances of cadmium silicon phosphide (CSP) with with those of silver thiogallate in a singly resonant OPO, synchronously pumped by a Nd:YAG laser. We demonstrate the feasibility of a CSP-based OPO at 6.5µm for medical applications as evidenced by preliminary ablation tests on biological tissues