

59. Crystal structural and SHG efficiency study on NaCl doped KDP crystals

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ABSTRACT

The effect of NaCl doping on crystal structure and second harmonic generation efficiency of potassium dihydrogen phosphate (KDP) crystals is being presented. The single crystals of pure and NaCl doped KDP were grown by low temperature solution growth method using water as a solvent in the crystal growth. The lattice constants found to be increased in doped crystals. The SHG efficiency of 1mole% doped KDP found to be less as compare to the KDP but for higher doping the SHG efficiency has been increased.