

Structure-property relationships in non-linear optical crystals I : the UV-Vis region

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Abstrak

This book about structural designs and property characterizations for second-harmonic generation materials, second-order non-linear optical materials based on metal Iodates, selenites and tellurites, structure, growth, nonlinear optics and laser properties of $RX_3(BO_3)_4$ ($R=Y, Gd, La; X=Al, Sc$), the recent development of borate SF-conversion laser crystal, structure design and crystal growth of uv nonlinear borate materials, and cation effect in doped BBO and halogen anion effect in $Pb_2B_5O_9X$ ($X = I^-, Br^-, Cl^-$).