



**SDI Review Form 1.6**

Journal Name:	<a href="#">Physical Review &amp; Research International</a>
Manuscript Number:	2013_PRRI_5778
Title of the Manuscript:	NaCl, KCl and SrCl <sub>2</sub> Doping Effect on Linear and Nonlinear Optical Properties of KDP Crystal
Type of the Article	Research Paper

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



## SDI Review Form 1.6

### PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments	<p>1. The final manuscript should be further polished and show a native language expression to us.</p> <p>2. Please focus on the details of tense appeared in the paragraph, especially in a single sentence.</p> <p>3. Please explain the shift trend of peaks of all doped samples in FI-IR spectroscopy, and make a connection with the change of bond lengths discussed in XRD, which will lead to the distortion in crystal (If the bond energy become stronger, the bond lengths will decrease).</p> <p>4. For KCl doped samples, the increase in the band gap is not consistent with the increase in optical transparency of doped crystals, because the 2mole% KCl doped crystal has the highest optical transparency, in which the band gap is not the highest. Thus, the author need to express the result more rigorous.</p> <p>5. Please list out the calculated lattice parameters of NaCl, KCl and ScCl doped KDP with 1%, 2%, especially for those of K2NC, K2KC, K1SC, which show the better SHG efficiency than others. Furthermore, can you explain the reason why the distortion can cause the change in SHG efficiency of doped crystals and find the change regular between them?</p>	<ul style="list-style-type: none"> <li>➤ Language errors have been rectified and manuscript has been revised as per suggestions.</li> <li>➤ The shift trend of peaks of all doped samples in FT-IR spectroscopy has been explained and made a connection with the change of bond lengths discussed in XRD section.</li> <li>➤ The increase in the band gap of KCl doped KDP crystals and optical transparency has been discussed.</li> <li>➤ As XRD facility was not available at our place. Only samples with highest doping level were characterised. I regret for not accommodating the XRD results for the samples K2NC, K2KC, K1SC.</li> <li>➤ The reason behind change in SHG efficiency due to distortion has been discussed in section 3.6.</li> </ul>
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments	This comment is received form reviewer as e-mail.	