

Accepted Manuscript

Reply to comment on the paper “Remarkable enhancement in dielectric, piezoelectric, ferroelectric and SHG properties by iron doping in sodium para-nitrophenolatedihydrate single crystal” [Mater. Lett. 165 (2016) 99-102]

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PII: S0167-577X(18)30201-5
DOI: <https://doi.org/10.1016/j.matlet.2018.02.005>
Reference: MLBLUE 23831

To appear in: *Materials Letters*



Please cite this article as: B. Kumar, Reply to comment on the paper “Remarkable enhancement in dielectric, piezoelectric, ferroelectric and SHG properties by iron doping in sodium para-nitrophenolatedihydrate single crystal” [Mater. Lett. 165 (2016) 99-102], *Materials Letters* (2018), doi: <https://doi.org/10.1016/j.matlet.2018.02.005>

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Abstract

This article is in response to the comments raised on our paper “Remarkable enhancement in dielectric, piezoelectric, ferroelectric and SHG properties by iron doping in sodium para-nitrophenolate dihydrate single crystal” published in Materials Letters [1]. In the ferroelectric studies, we performed PUND studies to establish that an unsaturated P-E loop may also contain intrinsic ferroelectric polarization. In dielectric studies, it has been shown that the variation did follow Curie-Wiess law confirming the transition to be related to ferroelectric to paraelectric phase. In respect of the comment on piezoelectric enhancement, it has been shown that the achieved rise in d_{33} -value due to Fe-doping is well within the possible change in piezo-response by doping in different types of systems.

Keywords: Ferroelectricity, PUND measurement, Dielectric study, Piezoelectricity.

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