

## Accepted Manuscript

Growth, spectroscopic studies, and third order non-linear optical analysis of an organic dicarboxylic acid based single crystal: Urea Oxalic acid

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PII: S0577-9073(18)30159-X  
DOI: [10.1016/j.cjph.2018.05.021](https://doi.org/10.1016/j.cjph.2018.05.021)  
Reference: CJPH 543



To appear in: *Chinese Journal of Physics*

Received date: 29 January 2018  
Revised date: 17 April 2018  
Accepted date: 24 May 2018

Please cite this article as: S. Jeeva , S. Muthu , S. Tamil Selvan , M. Lydia Caroline , P. Purushothaman , S. Sevvanthi , G. Vinitha , G. Mani , Growth, spectroscopic studies, and third order non-linear optical analysis of an organic dicarboxylic acid based single crystal: Urea Oxalic acid, *Chinese Journal of Physics* (2018), doi: [10.1016/j.cjph.2018.05.021](https://doi.org/10.1016/j.cjph.2018.05.021)

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**Highlights**

- UV can be used as a nonlinear optical material.
- Urbach energy of UOA is found to be 0.4350 eV.
- Dielectric properties of UOA attest its suitability in electro-optic devices.
- UOA crystal possesses negative nonlinearity.
- Molecular electrostatic potentials (MEP<sub>s</sub>) and NLO activity are calculated in the present work.

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