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Third order nonlinear optical, spectral, dielectric, laser damage threshold, and photo luminescence characteristics of an efficacious semiorganic acentric crystal: L-Ornithine Monohydrochloride

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Highlights

- LOMHCl disclose higher laser damage threshold value than KDP and Urea.
- LOMHCl possess negative nonlinearity.
- The dielectric properties attest its suitability in electro-optic devices.
- The crystal shows high mechanical strength suitable for device fabrication.
- Z-Scan technique was employed to characterize the NLO response in LOMHCl.

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