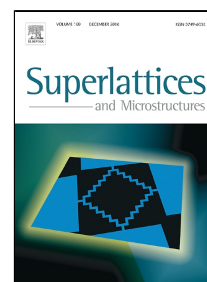


# Accepted Manuscript

Decoherence time, Hydrogenic-like Impurity Effect and Shannon Entropy on Polaron in RbCl Triangular Quantum Dot Qubit

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**Highlights of the paper:**

- 1- Using Pekar variational method, Eigen energies of the ground and first excited states of the polaron in RbCl triangular quantum dot with Hydrogenic impurity.
- 2- The Study of Coulombic impurity on polaron in RbCl triangular QD was done.
- 3- The density of probability, decoherence time and Shannon entropy of the polaron in RbCl triangular QD have already been studied.

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