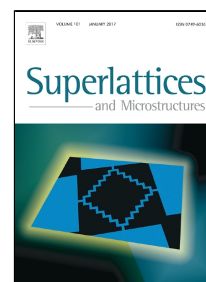


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Nonlinear optical rectification in laterally-coupled quantum well wires with applied electric field

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1. The quantum states of laterally-coupled quantum well wires with applied electric field are obtained by numerical method.
2. A blue shift of nonlinear optical rectification is observed with increasing electric field
3. A red shift followed by a blue shift with increasing the distance or with increasing the radius is observed.
4. The resonant peak values of optical rectification can be increased to a maximum value by adopting an appropriate choice for the electric field, the distance and the radius.

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