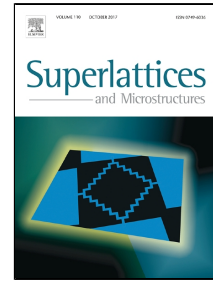


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A novel high-performance self-powered ultraviolet photodetector: concept, analytical modeling and analysis

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Highlights:

- A novel high-performance self-powered UV photodetector is proposed.
- Proposed device exhibits improvement over the conventional photodetectors.
- PSO-based metaheuristic approach is suggested to boost the sensor performance.
- Optimized self-powered photodetector device is suitable for UV optical communications.

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