

## Highlights

### **A test of meta-heuristic algorithms for parameter extraction of next-generation solar cells with S-shaped current-voltage curves**

Oleg Olikh

- 14 meta-heuristic algorithms are used to parameter estimation from S-shaped  $IV$  curves
- The algorithms' efficiencies are compared by using nonparametric statistic methods
- The relevance of using the square error fitness function has been demonstrated
- STLBO and ADELI excel in identifying parameters of the opposed two-diode model