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Effects of high magnetic field assisted annealing on structure and optical, electric properties of electrodeposited ZnO films

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**Highlights:**

- Thin hexagonal platelets of ZnO were electrodeposited on the ITO glass.
- Application of high magnetic field in annealing promoted the c-axis of hexagonal platelets orienting parallel to the substrate.
- The PL spectra of the ZnO films exhibited the main blue emission.

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