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Photoconductivity of nanoscale grain boundaries in two-dimensional ZnO platelets

The response of individual grain boundaries in polycrystalline ZnO platelets to light illumination on the nanoscale is studied using scanning probe based techniques. While many previous studies show the UV responses of ZnO, we find that even in the visible light range below the bandgap grain boundaries are sensitive to light, which is attributed to defect accumulation and local changes of the band structure at the grain boundaries

Primary author(s) : Mrs FARAJI OUCH HESAR, Nastaran (UNSW)

Presenter(s) : Mrs FARAJI OUCH HESAR, Nastaran (UNSW)