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Laser microscope pictures show the Zn surface after Ar-water vapor (H_2O) discharge under varying H_2O content at the center and racetrack regions of the discharge cathode of a planar magnetron device for ZnO film deposition. Redeposited layers of metal and metal oxide are seen at a H_2O content of 0% to 20% at the center. Surface structures at the sputter dominating racetrack region indicate complicated change according to H_2O content.

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