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Study of the impacts of droplets deposited from the gas core onto a gas-sheared liquid film

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**Highlights**

- Impacts of droplets, depositing from gas core, are studied experimentally;
- Two types of film perturbation due to impacts - craters and furrows - are observed;
- Furrows mostly occur on the base film, craters occur on disturbance waves.
- Crater impacts create secondary droplets, furrows create bubbles in liquid film;
- A droplet may survive the impact, being partially broken into smaller droplets.

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