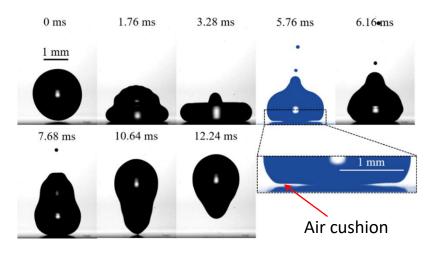
Air cushion under an impacting drop

Introduction

A liquid drop impacting on a solid surface usually entraps a thin air film under the drop. The dynamics of such air film is crucial for drop impact outcomes, such as bouncing and splashing. A novel air cushion under an drop impacting on nanoporous surfaces have been observed in our group.



What to do?

Investigations on the formation and evolution of the air cushion by performing drop impact experiments on different nanoporous structured surfaces and under different air pressures.

What you will learn?

- Surface modification (chemical vapor deposition)
- Contact angle measurement (optical goniometer)
- Drop impact experiments (high-speed camera)
- Video analysis (Matlab or other programmes)
- in an international group





Independent work in wetting-related ressearch Interested students are welcome to contact us! Dr. Binyu Zhao / Dr. Günter K. Auernhammer zhao-binyu@ipfdd.de / auernhammer@ipfdd.de