

Droplet breakup in airflow with strong shear effect: Movie captions

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- Movie 1: Video clip for figure 4. Typical process of droplet breakup in shear flow with synchronised visualisation from the bottom view and the side view at $We_g = 230$, $We_d = 19.9$, $\chi = 0.295$.
- Movie 2: Video clip for figure 6c. Liquid ridge formation due to lateral RT instability at $We_g = 917$, $We_d = 36.5$, $\chi = 0.199$.
- Movie 3: Video clip for figure 7a. Collapse of the droplet front rim at $We_g = 230$, $We_d = 19.9$, $\chi = 0.295$.
- Movie 4: Video clip for figure 7b. Shrinkage of the droplet front rim at $We_g = 230$, $We_d = 36.5$, $\chi = 0.399$.
- Movie 5: Video clip for figure 15b. Droplet breakup with the tail bag at $Oh = 0.47$, $We_g = 219$, $\chi = 0.354$.
- Movie 6: Video clip for figure 15c. Droplet breakup in the regime of swing breakup with front rim collapse at $Oh = 0.95$, $We_g = 873$, $\chi = 0.177$.
- Movie 7: Video clip for figure 17. Droplet breakup in the regime of swing breakup with front rim shrinkage at $We_g = 230$, $We_d = 36.5$, $\chi = 0.399$.
- Movie 8: Video clip for figure 18. Droplet breakup in the regime of swing breakup with front rim collapse at $We_g = 480$, $We_d = 65.4$, $\chi = 0.400$.
- Movie 9: Video clip for figure 19. Droplet breakup in the regime of shear-stripping breakup at $We_g = 230$, $We_d = 312$, $\chi = 1.165$.
- Movie 10: Video clip for figure S1. Image processing for measuring fragment size based on fragment tracking.

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