AOM-Systems list of publications (05/2021)

1. Schäfer, W. ; Tropea, C. ; Wigger, G. ; Eierhoff, D. (2021)
Spray measurements with the time-shift technique. In Measurement Science and Technology Link

2. Lingxi, L. & Tropea, C. (2021)
Geometric optics applied to drops passing through a focused Gaussian beam. In Applied Optics Link

3. Lingxi, L.; Stegmann, P. G.; Rosenkranz, S.; Schäfer, W. &Tropea, C. (2019)
Simulation of light scattering from a colloidal droplet using a polarized Monte Carlo method: application to the time-shift technique Link

4. Lingxi, L.; Rosenkranz, S.; Schäfer, W. & Tropea, C. (2019)
Light scattering from a drop with an embedded particle and its exploitation in the time-shift technique Link

5. Lingxi, L.; Rosenkranz, S.; Schäfer, W. & Tropea, C. (2018)
Sensitivity of the Time-Shift Technique in Characterizing Non-spherical Drops
In 19th International Symposium on the Application of Laser and Imagining Techniques to Fluid Mechanics Lisbon, Portugal Link

6. Lingxi, L.; Rosenkranz W.; Schäfer, W. & Tropea, C. (2018)
Light scattering form a drop with an embedded spherical particle for the time-shift technique.
In 12th Laser-light and Interactions with Particles (LIP) Texas, USA Link

7. Rosenkranz, S. **,** Tropea, C. **,** Zoubir, A. M. (2016).
Detection of drops measured by the time shift technique for spray characterization.
In IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) IEEE.
Link

8. Rosenkranz, S. , Schäfer, W. , Tropea, C. , Zoubir, A. M. (2016a).
Concentration measurement of suspension droplets by using the time-shift technique.
Proc. 18th International Symposium on Applications of Laser and Imaging Techniques to fluid Mechanics Lisbon, Portugal.

9. Rosenkranz, S. ; Schäfer, W. ; Tropea, C. ; Zoubir, A. M. (2016b).
Modeling photon transport in turbid media for measuring colloidal concentration in drops using the time-shift technique. In Applied Optics.

10. Schäfer, W., Rosenkranz, S., Brinckmann, F., & Tropea, C. (2016). Analysis of pneumatic atomizer spray profiles. Particuology. Link

11. Rosenkranz, S., Tropea, C., & Zoubir, A. M. (2015). Bias Correction for Characterizing Transparent Particles using the Time Shift Technique. In ICLASS 2015, 13th Triennial International Conference on Liquid Atomization and Spray Systems, Tainan, Taiwan (pp. 1–7).

12. Schäfer, W., & Tropea, C. (2015). Characterization of atomization processes in suspension / emulsion sprays. In ICLASS 2015, 13th Triennial International Conference on Liquid Atomization and Spray Systems, Tainan, Taiwan (pp. 1–7).

13. Schäfer, W., Rosenkranz, S., & Tropea, C. (2015). Validation of the Time-Shift Technique for Spray Characterization. In ILASS Americas 27th Annual Conference on Liquid Atomization and Spray Systems, Raleigh, NC.

14. Hahn, J., Rosenkranz, S., & Zoubir, A. M. (2014). Adaptive Compressed Classification for Hyperspectral Imagery. In Proc. ICASSP 2014, 39th IEEE Int. Conference on Acoustics, Speech and Signal Processing, Florence, Italy

15. Schäfer, W., & Tropea, C. (2014a). The time-shift technique for measurement size of non-transparent spherical particles. Proc. SPIE, 92320H. Link

16. Schäfer, W., & Tropea, C. (2014b). Time-shift technique for simultaneous measurement of size, velocity, and relative refractive index of transparent droplets or particles in a flow. Applied Optics, 53(4), 588. Link

17. Schäfer, W. (2013). Time-shift technique for particle characterization in sprays. Technische Universität Darmstadt.

18. Schäfer, W., & Tropea, C. (2013). Zeitverschiebungsverfahren zur Charakterisierung von transparenten Partikeln. In Fachtagung “Lasermethoden in der Strömungsmesstechnik” , München.

19. Tropea, C., & Schäfer, W. (2013). The Time-shift technique for characterization of non-transparent, spherical particles. In ILASS – Europe 2013, 25th European Conference on Liquid Atomization and Spray Systems, Chania, Greece (pp. 1–4).

20. Schäfer, W., & Tropea, C. (2012). Time-Shift Technique for Characterization of Transparent Particles in Sprays. In 16th Int Symp on Applications of Laser Techniques to Fluid Mechanics in Lisbon, Portugal.

21. Tropea, C., & Schäfer, W. (2011). The Time-Shift Technique for Measurement of Size and Velocity of Particles. In ILASS – Europe 2011, 24th European Conference on Liquid Atomization and Spray Systems, Estoril, Portugal.

22. Schäfer, W., Tropea, C., & Elsäßer, W. (2010). Determination of size and refractive index of a single water droplet by using a light source with short coherence length (LED). In 15th Int Symp on Applications of Laser Techniques to Fluid Mechanics in Lisbon, Portugal (pp. 5–8).