

# Journal Papers (Excerpt)

## 2023

Tchoupe Sambou, Hermann Elio; Lauwers, Daniel; Herrig, Tim; Klink, Andreas; Meinke, Matthias; Klaas, Michael; Schröder, Wolfgang - "Optical in Situ Analysis of Gas Bubble Evolution in Electrochemical Machining Based on Similarity Theory Using Particle Image Velocimetry" - Procedia CIRP - vol 117 content/page 257-262

Tchoupe Sambou, Hermann Elio; Lauwers, Daniel; Heidemanns, Lukas Franz; Herrig, Tim; Klink, Andreas; Meinke, Matthias; Klaas, Michael; Schröder, Wolfgang - "Optical in Situ Analysis of Gas Bubble Evolution in Electrochemical Machining Based on Similarity Theory Using Particle Image Velocimetry" - Procedia CIRP - vol 117 content/page 257-262 - [doi:10.1016/j.procir.2023.03.044](https://doi.org/10.1016/j.procir.2023.03.044)

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Tchoupe Sambou, Hermann Elio; Heidemanns, Lukas Franz; Klink, Andreas; Herrig, Tim; Klaas, Michael; Lauwers, Daniel; Schröder, Wolfgang - "Experimental setup for the investigation of the transport of different gas bubble sizes during electrochemical machining based on similarity theory using particle image velocimetry" - Procedia CIRP - vol 113 content/page 417-421 - [doi:10.1016/j.procir.2022.09.193](https://doi.org/10.1016/j.procir.2022.09.193)

Schier, Christina; Foerster, Jana; Heupel, Monika; Dörner, Philipp-Karim; Klaas, Michael; Schröder, Wolfgang; Rink, Lothar; Slusarenko, Alan; Gruhlke, Martin C. H. - "Allicin as a Volatile or Nebulisable Antimycotic for the Treatment of Pulmonary Mycoses : In Vitro Studies Using a Lung Flow Test Rig" - International journal of molecular sciences - vol 23 no 12 content/page 6607 - [doi:10.3390/ijms23126607](https://doi.org/10.3390/ijms23126607)

## 2021

Braun, Marco; Klaas, Michael; Schröder, Wolfgang - "Analysis of Cyclic Variation Using Time-Resolved Tomographic Particle-Image Velocimetry" - SAE Powertrains, Fuels & Lubricants Meeting - vol 3 no 1 content/page 113-136 - [doi:10.4271/2020-01-2021](https://doi.org/10.4271/2020-01-2021)

Dörner, Philipp-Karim; Schröder, Wolfgang; Klaas, Michael - "Experimental quantification of oscillating flow in finite-length straight elastic vessels for Newtonian and non-Newtonian fluids" - European journal of mechanics / B - vol 87 content/page 180-195 - [doi:10.1016/j.euromechflu.2021.02.001](https://doi.org/10.1016/j.euromechflu.2021.02.001)

Feldhusen-Hoffmann, Antje; Lagemann, Christian; Loosen, Simon André; Meysonnat, Pascal; Klaas, Michael; Schröder, Wolfgang - "Analysis of transonic buffet using dynamic mode decomposition" - Experiments in fluids - vol 62 no 4 content/page 66 - [doi:10.1007/s00348-020-03111-5](https://doi.org/10.1007/s00348-020-03111-5)

## 2020

Mäteling, Esther; Klaas, Michael; Schröder, Wolfgang - "Detection of small-scale/large-scale interactions in turbulent wall-bounded flows" - Physical review fluids - vol 5 no 11 content/page 114610 - [doi:10.1103/PhysRevFluids.5.114610](https://doi.org/10.1103/PhysRevFluids.5.114610)

Marquardt, Pascal; Klaas, Michael; Schröder, Wolfgang - "Experimental investigation of the turbulent Schmidt number in supersonic film cooling with shock interaction" - Experiments in fluids - vol 61 no 7 content/page 160 - [doi:10.1007/s00348-020-02983-x](https://doi.org/10.1007/s00348-020-02983-x)

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Marquardt, Pascal; Klaas, Michael; Schröder, Wolfgang - "Comparison of Shock/Cooling-Film Interaction for Cooled and Isoenergetic Injection" - AIAA journal - vol 58 no 5 content/page 2078-2092 - [doi:10.2514/1.j058471](https://doi.org/10.2514/1.j058471)

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Reiter, Jana; Borlinghaus, Jan; Dörner, Philipp-Karim; Schröder, Wolfgang; Gruhlke, Martin C. H.; Klaas, Michael; Slusarenko, Alan - "Investigation of the deposition behaviour and antibacterial effectivity of allicin aerosols and vapour using a lung model" - Experimental and Therapeutic Medicine - vol 19 no 2 content/page 1541-1549 - [doi:10.3892/etm.2019.8387](https://doi.org/10.3892/etm.2019.8387)

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Braun, Marco; Klaas, Michael; Schröder, Wolfgang - "High-speed 3D Measurements of the Influence of Intake Pressure on the In-Cylinder Flow in a DISI Engine" - SAE technical paper - vol 2019-01-2251 content/page 13 Seiten - [doi:10.4271/2019-01-2251](https://doi.org/10.4271/2019-01-2251)

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Roggenkamp, Dorothee; Li, Wenfeng; Klaas, Michael; Schröder, Wolfgang - "Influence of spanwise transversal surface wave on coherent structures in turbulent boundary layers" - Aerospace science and technology - vol 86 content/page 387-400 - [doi:10.1016/j.ast.2019.01.026](https://doi.org/10.1016/j.ast.2019.01.026)

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Deshmukh, Abhishek Yashwant; Falkenstein, Tobias; Pitsch, Heinz; Khosravi, Maziar; van Bebbler, David; Klaas, Michael; Schröder, Wolfgang - "Numerical Investigation of Direct Gas Injection in an Optical Internal Combustion Engine" - WCX World Congress Experience - vol 11 no 6 content/page 1447-1478 - [doi:10.4271/2018-01-0171](https://doi.org/10.4271/2018-01-0171)

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