

List of publications

Publications with peer review process in scientific journal

1. Eitel, F., Pareja, J., **Johchi, A.**, Böhm, B., Geyer, D., Dreizler, A. (2017): Temporal Evolution of Auto-Ignition of Ethylene and Methane Jets Propagating into a Turbulent Hot Air Co-Flow Vitiated with NO_x. In: Combustion and Flame, Vol.177, 193-206.
2. Eitel, F., Pareja, J., Geyer, D., **Johchi, A.**, Michel, F., Elsäßer, W., Dreizler, A. (2015): A Novel Plasma Heater for Auto-Ignition Studies of Turbulent Non-Premixed Flows. In: Experiments in Fluids, Vol. 56, 1-13.
3. **Johchi, A.**, Naka, Y., Shimura, M., Tanahashi, M., Miyauchi, T. (2015): Investigation on Rapid Consumption of Fine Scale Unburned Mixture Islands in Turbulent Flame via 10 kHz Simultaneous CH-OH PLIF and SPIV. In: Proceedings of the Combustion Institute, Vol. 35, 3663-3671.

Publications with peer review process in conference proceedings

4. **Johchi, A.**, Pareja, J., Dreizler, A., (2017): Two-Dimensional Mixture Fraction and Temperature Measurements in Auto-Igniting Methane Jets. Proceedings of the 8th European Combustion Meeting in Dubrovnik, Croatia, April 2017
5. Becker, C., Trabold, J., **Johchi, A.**, Dieter, K., Böhm, B., Dreizler, A., Geyer, D., (2017): Turbulent Premixed Flames Fueled by Methane and Alcohols Stabilized on a Novel Piloted Jet Burner. Proceedings of the 8th European Combustion Meeting in Dubrovnik, Croatia, April 2017
6. **Johchi, A.**, Zimmer, L., Tanahashi, M. (2014): Investigation on the Acoustic Behavior of a Turbulent Swirl-Stabilized Combustor Fed with Liquid Fuel. Proceedings of 17th International Symposium on Applications of Laser Techniques to Fluid Mechanics at Lisbon, Portugal, July 2014, 4.3.2.
7. **Johchi, A.**, Naka, Y., Shimura, M., Tanahashi, M., Miyauchi, T. (2013): Investigation on Local Structure and Dynamics of Turbulent Premixed Flame by High-Speed Laser Diagnostics. Proceedings of the Second International Education Forum on Environment and Energy Science at California, USA, December 2013, USB.
8. **Johchi, A.**, Tanahashi, M., Shimura, M., Choi, G.-M., Miyauchi, T. (2012): High Repetition Rate Simultaneous CH/OH PLIF in Turbulent Jet Flame. Proceedings of 16th International Symposium on Applications of Laser Techniques to Fluid Mechanics at Lisbon, Portugal, July 2012, 4.3.6.
9. Yamada, T., **Johchi, A.**, Zimmer, L. (2012): Gradient-Based Filtering Operations for Flame Front Analysis from OH PLIF Images in a Liquid Fuelled Combustor. Proceedings of 16th International Symposium on Applications of Laser Techniques to Fluid Mechanics at Lisbon, Portugal, July 2012, 3.14.2.
10. **Johchi, A.**, Shimura, M., Tanahashi, M., Miyauchi, T. (2011): Measurement of Three-Dimensional Structure of Turbulent Premixed Flame by Simultaneous Triple-Plane PLIF and Dual-Plane Stereoscopic PIV. Proceedings of the 4th International Forum on Multidisciplinary Education and Research for Energy Science at Hawaii, USA, December 2011, USB.
11. **Johchi, A.**, Shimura, M., Tanahashi, M., Miyauchi, T. (2011): Measurement of Three-Dimensional Flame Structure by Simultaneous Dual-Plane CH PLIF, Single-Plane OH PLIF and Dual-Plane Stereoscopic PIV. Proceedings of 8th International Conference on Flow Dynamics at Miyagi, Japan, November 2011, USB.

12. Shimura, M., **Johchi, A.**, Choi, G.-M., Iwamoto, K., Tanahashi, M., Miyauchi, T. (2011): Measurement of Flame and Flow Structures of Turbulent Jet Premixed Flame by Simultaneous Triple-Plane PLIF and Dual-Plane Stereoscopic PIV. Proceedings of 23rd International Colloquium on the Dynamics of Explosions and Reactive Systems at California, USA, July 2011, USB.

Publications without peer review process

13. Antoine, R., **Johchi, A.**, Tanahashi, M., Zimmer, L. (2014): Investigation on the Acoustic Behavior of a Turbulent Swirl-Stabilized Combustor Fed with Liquid Fuel. Proceedings of the 52nd Symposium (Japanese) on Combustion at Okayama, Japan, December 2014, 42-43.
14. **Johchi, A.**, Naka, Y., Shimura, M., Tanahashi, M., Miyauchi, T. (2013): Investigation of Local Structure and Dynamics of Turbulent Premixed Flame by High Repetition Rate Simultaneous CH/OH PLIF and Time-Series Stereo PIV (in Japanese). Proceedings of the 51st Symposium (Japanese) on Combustion at Tokyo, Japan, December 2013, 516-517.
15. **Johchi, A.**, Naka, Y., Shimura, M., Tanahashi, M., Miyauchi, T. (2013): Investigation of Local Structure and Dynamics of Turbulent Jet Premixed Flame by High Repetition Rate Simultaneous CH/OH PLIF and Stereo PIV (in Japanese). Proceedings of the 50th National Heat Transfer Symposium of Japan at Miyagi, Japan, May 2013, 328-329.
16. **Johchi, A.**, Zimmer, L., Tanahashi, M., Miyauchi, T. (2013): Turbulent Flame Structure of Gaseous-Liquid Two-Phase Flame on Low-Swirl Burner. Proceedings of the 7th Korea-China-Japan Student Symposium at Daejeon, Korea, March 2013.
17. Bossard, P. -E., **Johchi, A.**, Shimura, M., Naka, Y., Tanahashi, M., Miyauchi, T., Zimmer, L. (2012): Simultaneous High Speed PLIF and PIV in Turbulent Premixed Flame (in Japanese). Proceedings of the 50th Symposium (Japanese) on Combustion at Nagoya, Japan, December 2012, 236-237.
18. Shimura, M., **Johchi, A.**, Naka, Y., Tanahashi, M., Miyauchi, T. (2012): High Repetition Rate Simultaneous CH/OH PLIF Measurements in Turbulent Jet Premixed Flame (in Japanese). Proceedings of the Visualization Conference (Himeji 2012) at Kobe, Japan, October 2012, 47-48.
19. **Johchi, A.**, Shimura, M., Tanahashi, M., Miyauchi, T. (2012): High Repetition Rate Simultaneous CH/OH PLIF and Stereoscopic PIV in Turbulent Jet Premixed Flame. Proceedings of the 6th Japan-Korea-China Student Symposium at Tokyo, Japan, March 2012.
20. **Johchi, A.**, Shimura, M., Tanahashi, M., Miyauchi, T. (2011): Measurement of Three-Dimensional Flame Structure by Simultaneous Triple-Plane PLIF and Dual-Plane Stereoscopic PIV (in Japanese). Proceedings of the 49th Symposium (Japanese) on Combustion at Kanagawa, Japan, December 2011, 230-231.
21. **Johchi, A.**, Shimura, M., Tanahashi, M., Miyauchi, T. (2011): Control of Turbulent Flame in Swirl-Stabilized Combustor with Diode Laser Wavelength Modulation Absorption Spectroscopy (in Japanese). Proceedings of the 48th National Heat Transfer Symposium of Japan at Okayama, Japan, May 2011, 93-94.