

Articles acceptés

- [1] T. Yahou, J.R. Dawson and **T. Schuller** (2022). *Impact of chamber back pressure on the ignition dynamics of hydrogen enriched premixed flames*. Proceedings of the Combustion Institute, accepted.
- [2] S. Marragou, H. Magnes, A. Aniello, L. Selle, T. Poinsoot and **T. Schuller** (2022). *Experimental analysis and theoretical lift-off criterion for H₂/air flames stabilized on a dual swirl injector*. Proceedings of the Combustion Institute, accepted.
- [3] A. Aniello, L. Selle, T. Poinsoot and **T. Schuller** (2022). *Hydrogen substitution of natural-gas in premixed burners and implications for blow-off and flashback limits*. International Journal of Hydrogen Energy, in press.

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- [4] J. Kuhlman, S. Marragou, I. Boxx, **T. Schuller**, W. polifke (2022). *LES based prediction of technically premixed flame dynamics and comparison with perfectly premixed mode*. Physics of Fluids, 34:085125.
- [5] A. Aniello, D. Schuster, P. Werner, J.F. Boussuge, M. Gatti, C. Mirat, L. Selle, **T. Schuller**, T. Poinsoot and U. Ruede (2022). *Comparison among Lattice Boltzmann and finite volume solvers for swirled confined flows*. Computers and Fluids, 241:105463
- [6] S. Marragou, H. Magnes, T. Poinsoot, L. Selle and **T. Schuller** (2022). *Stabilisation regimes and pollutant emissions from a dual fuel CH₄/H₂ and dual swirl low NO_x burner*. International Journal of Hydrogen Energy, 47:19275-19288.
- [7] **T. Schuller**, S. Marragou, G. Ozdarlik, T. Poinsoot and L. Selle (2022). *Influence of hydrogen content and hydrogen injection scheme on the describing function of swirled flames*. Combustion and Flame, 240:111974.
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- [11] A. Degenève, R. Vicquelin, C. Mirat, J. Caudal and **T. Schuller** (2021). *Impact of co- and counter-swirl on flow recirculation and liftoff in oxy-flames above a coaxial injector*. Proceedings of the Combustion Institute, 38:5501–5508.
- [12] **T. Schuller**, T. Poinsoot and S. Candel (2020). *Dynamics and control of premixed combustion systems based on flame transfer and describing functions*. Journal of Fluid Mechanics, 9894.

- [13] G. Vignat, D. Durox, **T. Schuller** and S. Candel (2020). *Combustion dynamics of annular systems*. Combustion Science and Technology, 192:1358-1388.
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Congrès internationaux avec acte et comité de lecture sur texte complet

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- [208] N. Noiray, D. Durox, **T. Schuller** and S. Candel (2008). *Nonlinear analysis of thermoacoustic instabilities using flame describing function*. XXII ICTAM, Adelaide, Australia, August 25-29 2008.
- [209] A. Lamraoui, F. Richecoeur, S. Ducruix and **T. Schuller** (2008). *Impact of acoustic boundary conditions on confined combustion noise*. Société Française d'Acoustique, Acoustics'08 Paris, Paris, France, June 29-July 04, 2008.
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- [211] **T. Schuller**, P. Duchaine and L. Zimmer (2008). *Sound production by partially premixed flames in a stagnation flow*. Société Française d'Acoustique, Acoustics'08 Paris, Paris, France, June 29-July 04, 2008.
- [212] N. Noiray, D. Durox, **T. Schuller** and S. Candel (2007). *A method for estimating the noise level of unstable combustion based on the flame describing function*. 11th CEAS-ASC Workshop & 2nd Scientific Workshop of X3 - NOISE, Experimental and Numerical Analysis and Prediction of Combustion Noise, Lisbon, Portugal, September 27-28, 2007.

- [213] D. Durox, **T. Schuller**, N. Noiray, A.-L. Birbaud and S. Candel (2007). *The Rayleigh criterion in unconfined self-excited oscillating flames*. Proceedings of the European Combustion Meeting 2007, Third European Combustion Meeting, Chania, Crete, April 11-13, 2007.
- [214] F. Laurent, **T. Schuller**, N. Darabiha, J. Rolon and M. Massot (2006). *Dynamical response of a premixed counter-flow flame : numerical simulations and experimental measurements*. 11th SIAM International Conference on Numerical Combustion, Granada, Spain, April 23-26, 2006.
- [215] N. Noiray, D. Durox, **T. Schuller** and S. Candel (2005). *Self-induced instabilities of laminar premixed flames anchored on perforated plates*. Proceedings of the European Combustion Meeting 2005, European Combustion Meeting, Louvain La Neuve, Belgium, April 3-6, 2005.
- [216] D. Durox, **T. Schuller** and S. Candel (2003). *Acoustic-combustion interactions observed with a laminar unconfined "V"-flame burner*. Proceedings of the European Combustion Meeting 2003, European Combustion Meeting, Orléans, France, October 15-18, 2003.
- [217] **T. Schuller**, K. Zähringer and S. Candel (2003). *Modelling and experimental validation of the acoustical behaviour of a commercial heating system*. Third European Conference on Small Burner Technology and Heating Equipment, Aachen, Germany, September 18-19, 2003.
- [218] S. Candel, **T. Schuller**, C. Rey, S. Ducruix and D. Durox (2003). *Fluid mechanics in combustion*. Fifth European Fluid Mechanics Conference, Toulouse, France, August 24-28, 2003.
- [219] **T. Schuller**, J. King, A. Majamaki and A. R. Karagozian (1999). *An experimental study of acoustically controlled gas jets in crossflow*. American Physical Society Meeting Abstracts, American Physical Society, Division of Fluid Dynamics Meeting, New Orleans, USA, November 21-23, 1999.

Congrès nationaux avec acte

- [220] S. Marragou, I. Boxx, L. Selle, T. Poinso, **T. Schuller** *Measurements of the transfer function of partially premixed swirling flames in the PRECCINSTA gas turbine model combustor* 5^{me} Colloque de l'Initiative en Combustion Avancée, INCA 2021, 7-8 avril 2021, Safran, Paris Saclay.
- [221] A. Cellier, C.J. Lapeyre, G. Oztarlik, T. Poinso, **T. Schuller**, L. Selle *Detection of precursors of thermoacoustic instability using deep learning techniques* 5^{me} Colloque de l'Initiative en Combustion Avancée, INCA 2021, 7-8 avril 2021, Safran, Paris Saclay.
- [222] A. Aniello, D. Laera, L. Selle, **T. Schuller**, T. Poinso, *Impact of H₂ pilot injection on the acoustic response of a swirled flame* 5^{me} Colloque de l'Initiative en Combustion Avancée, INCA 2021, 7-8 avril 2021, Safran, Paris Saclay.
- [223] A. Degenève, P. Jourdain, C. Mirat, R. Vicquelin, **T. Schuller**, *Optimisation de la mesure de température de paroi par thermographie de luminophore appliquée à la combustion* Congrès Francophone de Techniques Laser, CFTL 2018, 17-21 septembre 2018, Dourdan.

- [224] R. Gaudron, M. Gatti, C. Mirat and **T. Schuller** (2017). *Modeling and measurements of the transfer matrix of a swirling injector with and without flame for increasing forcing levels*, 4ème Colloque INCA, 18 et 19 octobre 2017, Safran, Paris Saclay.
- [225] K. Prieur, G. Vignat, D. Durox, **T. Schuller** and S. Candel (2017). *Experimental determinations of Flame Describing Functions of swirling spray flames*, 4ème Colloque INCA, 18 et 19 octobre 2017, Safran, Paris Saclay.
- [226] P. Jourdain, C. Mirat, A. Lo, J. Caudal et **T. Schuller** (2016). *Stabilisation d'Oxyflammes CH₄/O₂ Diluées au CO₂* 16ème Congrès Francophone de Techniques Laser, CFTL 2016, 13-16 Septembre 2016, Toulouse, France.
- [227] P. Jourdain, C. Mirat, A. Lo, J. Caudal et **T. Schuller** (2016). *Stabilisation d'Oxyflammes CH₄/O₂ Diluées au CO₂* 16ème Congrès Francophone de Techniques Laser, CFTL 2016, 13-16 Septembre 2016, Toulouse, France.
- [228] T.F. Guiberti, P. Scoufflaire et **T. Schuller** (2014). *La phosphorescence induite par laser pour la mesure de température de surfaces d'un chambre de combustion* 14ème Congrès Francophone de Techniques Laser, CFTL 2014, 15-19 Septembre 2014, Marseille, France.
- [229] T.F. Guiberti, D. Durox, L. Zimmer et **T. Schuller** (2014). *Influence des pertes thermiques sur la transition "V/M" de la form de flammes CH₄/H₂/air confinées et stabilisées par swirl* 14ème Congrès Francophone de Techniques Laser, CFTL 2014, 15-19 Septembre 2014, Marseille, France.
- [230] C. Mirat, D. Durox et **T. Schuller** (2014). *Analyse de la dynamique d'un flamme swirlée issue d'un injecteur de combustible liquide assisté par de la vapeur*. 14ème Congrès Francophone de Techniques Laser, CFTL 2014, 15-19 Septembre 2014, Marseille, France.
- [231] C. Mirat, **T. Schuller** et D. Durox (2012). *Analyse du spray d'un injecteur générique de fioul assisté par de la vapeur*. 13ème Congrès Francophone de Techniques Laser, CFTL 2012, 18-21 Septembre 2012, Rouen, France.
- [232] **T. Schuller**, J. Li, F. Richecoeur et D. Durox (2012). *Reconstruction de fluctuations du taux de dégagement de chaleur à partir de mesures interférométriques*. 13ème Congrès Francophone de Techniques Laser, CFTL 2012, 18-21 Septembre 2012, Rouen, France.
- [233] F. Boudy, **T. Schuller**, D. Durox and S. Candel (2011). *Thermo-Acoustic limit cycle destabilization triggered by interaction with acoustic boundary* JAUM2012, Journées AUM/AFM "Instabilités dans les écoulement. Couplage avec les structures", Rouen, France, 29 au 31 août 2012.
- [234] J.-F. Bourgoïn, J.P. Moeck, D. Durox, **T. Schuller** and S. Candel (2011). *Impact of a swirler geometry modification on the mean flow field and the precessing vortex core*. 3^{ème} Colloque INCA, Toulouse, France, 17 et 18 novembre 2011.
- [235] J.P. Moeck, J.-F. Bourgoïn, D. Durox, **T. Schuller** and S. Candel (2011). *Reconstruction of PVC-induced heat release rate perturbations from side-view imaging*. 3^{ème} Colloque INCA, Toulouse, 17 et 18 novembre 2011.
- [236] F. Richecoeur, **T. Schuller**, A. Lamraoui and S. Ducruix (2011). *Analytical and experimental investigations of a swirled burner acoustics featuring upstream perforates*. 3^{ème} Colloque INCA, Toulouse, 17 et 18 novembre 2011.
- [237] F. Boudy, D. Durox, **T. Schuller** and S. Candel (2011). *Unstable limit cycles featuring frequency heterodyning and nonlinear describing function analysis*. 3^{ème} Colloque INCA, Toulouse, 17 et 18 novembre 2011.

- [238] A. Scarpato, S. Ducruix and **T. Schuller** (2011). *A comparison of the damping properties of perforated plates backed by a cavity operating at low and high Strouhal numbers*. 3^{eme} Colloque INCA, Toulouse, 17 et 18 novembre 2011.
- [239] A. Cuquel, D. Durox and **T. Schuller** (2011). *Impact of flame base dynamics on the nonlinear frequency response of conical flames*. 3^{eme} Colloque INCA, Toulouse, 17 et 18 novembre 2011.
- [240] J. Li, F. Richecoeur et **T. Schuller** (2011). *Développement d'un diagnostic acoustique pour la détermination des fluctuations du taux de dégagement de chaleur dans des flammes pulsées*, 20^{ème} Congrès Français de Mécanique, Besançon, France, 29 août au 2 septembre 2011.
- [241] F. Giuliani, T. Leitgeb, D. Durox et **T. Schuller** (2010). *Analyse des variations de densité dans une flamme de référence soumise à une excitation acoustique*. Congrès Francophone de Techniques Laser, CFTL 2010, Vandoeuvre-lès-Nancy, France, 14 - 17 septembre, 2010.
- [242] P. Duchaine, D. Lacoste, **T. Schuller** et L. Zimmer (2010). *Caractérisation de l'interaction d'un jet modulé et d'un spray dilué par imagerie Mie et LIF*. Congrès Francophone de Techniques Laser, CFTL 2010, Vandoeuvre-lès-Nancy, France, 14 - 17 septembre, 2010.
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- [244] N. Noiray, D. Durox, **T. Schuller** et S. Candel (2006). *Dynamique de flammes laminaires et couplage acoustique-combustion*. Congrès Francophone de Techniques Laser, CFTL 2006, Toulouse, France, 19 - 22 septembre, 2006.
- [245] D. Durox, A.-L. Birbaud, **T. Schuller** et S. Candel (2004). *Dynamique de l'écoulement dans les flammes oscillantes prémélangées*. Neuvième Congrès Francophone de Vélocimétrie Laser, Bruxelles, Belgium, 14-17 septembre 2004.
- [246] A.-L. Birbaud, D. Durox, **T. Schuller** and S. Candel (2004). *Combustion dynamics of premixed inverted conical swirling flames*. Lean Combustion Technology II : promise and practice, Tomar, Portugal, April 25-29, 2004.

Conférences invitées et cours

- [247] **T. Schuller**, How to use hydrogen to damp combustion instabilities? Workshop on biofuel utilisations at the Energy Institute, The University of Sheffield, UK, July 12, 2021.
- [248] **T. Schuller**, Dynamics and control of premixed systems based on transfer and describing functions. Lecture at the ITN ANNULiGht virtual workshop, Flame Transfer Functions: theory, analysis and application, June 14, 2021.
- [249] **T. Schuller**, Flame transfer functions: key characteristics and modeling elements. Lecture at the ITN ANNULiGht virtual workshop Flame Transfer Functions: theory, analysis and application, June 14, 2021.
- [250] **T. Schuller**, S. Marragou, G. Oztarlik, T. Poinso, L. Selle, Influence of hydrogen content and injection strategy on the transfer function of swirled flames, 04-23 Hydrogen Combustion - a Thermoacoustic Perspective, ASME Turbo Expo 2021, Virtual Conference and Exhibition, June 7-11, 2021.

- [251] **T. Schuller**, Instabilités de combustion: mécanismes de couplage et progrès récents, 17ème Ecole de Combustion, Edition virtualisée, 7–11 juin 2021.
- [252] **T. Schuller**, Some issues when adapting natural gas powered systems to hydrogen combustion, Kenoyte at Low-Carbon Combustion, Joint Meeting of the French and British sections of the Combustion Institute, 5-6th November, 2020.
- [253] **T. Schuller**, Modifications de la stabilisation et de la dynamique de flamme par ajout d'hydrogène, Webinar ONERA, 22 juin, 2020 .
- [254] **T. Schuller**, Instabilités de combustion: mécanismes de couplage et progrès récents, 16ème Ecole de Combustion, Saint Dié des Vosges, 2-9 juin 2018.
- [255] S. Candel, D. Durox and **T. Schuller** *Ten lectures on Combustion Dynamics*, 2016 Combustion Summer School, Princeton, USA, June 2016.
- [256] **T. Schuller**, D. Durox and S. Candel (2014) *Instabilités de combustion*, Cours à la 14ème Ecole de Combustion, Orléans, France, 2-8 juin 2016.
- [257] S. Candel, D. Durox and **T. Schuller** *Ten lectures on Combustion Dynamics*, Tsinghua-Princeton Summer School, Beijing, China, July 2015.
- [258] **T. Schuller**, D. Durox and S. Candel *Six lectures on Combustion Dynamics*, 21th CISM-IUTAM International Summer School on Measurement, Analysis and Passive Control of Thermoacoustic Oscillations, Udine, Italia, Mai 2015.
- [259] **T. Schuller**, D. Durox and S. Candel (2014) *Analysis of angular shift between plenum and chamber azimuthal unstable modes: experiments and theory*, Advances in the mathematical modeling of combustion instability, Imperial College London, UK, 4-5th September 2014.
- [260] **T. Schuller**, D. Durox, J.-F. Bourgouin and S. Candel (2014) *Instabilités de combustion, un frein au développement de foyers à hautes performances*, Journée du groupe thématique transverse AUM, "Le pluridisciplinaire au service des technologies", Cachan, France, 27-29 août 2014.
- [261] **T. Schuller**, D. Durox and S. Candel *Instabilités de combustion*, Cours à la 14ème Ecole de Combustion, Orléans, France, 2-8 juin 2014.
- [262] **T. Schuller**, D. Durox and S. Candel (2014) *Key mechanisms controlling the response of premixed flames to flow disturbances*, Chair of Fluid Mechanics, TU Berlin, Germany, February 25, 2014.
- [263] **T. Schuller**, D. Durox, S. Candel (2013). *Noise and combustion instabilities generated by flame interactions*, Institute of Aerodynamics and Chair of Fluid Mechanics, Aachen, Germany, July 11, 2013
- [264] **T. Schuller**, D. Durox, S. Candel (2013). *Noise and combustion instabilities generated by flame interactions*, Institute of Aerodynamics and Chair of Fluid Mechanics, Aachen, Germany, July 11, 2013
- [265] S. Candel, D. Durox, **T. Schuller**, J.-F. Bourgouin and J.P. Moeck (2013). *Progress in swirling flames and annular combustor dynamics*. European Combustion Meeting 2013, Lund University, Sweden, June 25-28, 2013.
- [266] S. Candel, P. Palies, D. Durox, **T. Schuller**, J.F. Bourgouin and J.P. Moeck and (2012) *Challenges in swirling flame dynamics* Paul Clavin 70th Anniversary, France, June 13, 2012.

- [267] S. Candel, D. Durox, **T. Schuller**, N. Darabiha, L. Hakim and D. Darabiha (2012) *Advances in combustion and propulsion applications*. One-Hundred-Year Anniversary of the Institute of Aerodynamics, RWTH Aachen University Aachen, Germany, June 15, 2012.
- [268] **T. Schuller**, D. Durox and S. Candel (2012) *Dynamique de flamme et analyse de la stabilité des foyers de combustion*. Cours à la 13ème Ecole de Combustion, Ambleteuse, France, 8-13 juin 2012.
- [269] S. Candel, P. Palies, D. Durox and **T. Schuller** (2012) *Combustion dynamics of swirling flames*. Invited conference, Ecole Polytechnique Fédérale de Lausanne, 27 mars 2012.
- [270] **T. Schuller**, D. Durox, A. Cuquel, P. Palies, J.P. Moeck and S. Candel (2012) *Modeling the response of premixed flame transfer functions - Key elements and experimental proofs*. Invited conference, AIAA 2012-0985, 50th AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition, Nashville, Tennessee, 9 - 12 Jan 2012.
- [271] F. Richecoeur, J. Li and **T. Schuller** (2010). *Utilisation de méthodes acoustiques pour sonder les écoulements réactifs*. Conférence invitée, 28ème Journée Thématique de l'AFVL, "Les techniques laser en milieux réactifs", Meudon, France, 18 novembre, 2010.
- [272] **T. Schuller**, D. Durox, F. Boudy, P. Palies and S. Candel (2010). *Flame dynamics modeling based on G-equation*. Invited lecture, VKI Lecture Series "Advances in Aero-acoustics & Thermo-acoustics", Von Karman Institute, Belgium, November 15-19, 2010.
- [273] **T. Schuller**, D. Durox, F. Boudy, and S. Candel (2010). *Combustion instability analysis based on Flame Describing Function*. Invited lecture, VKI Lecture Series "Advances in Aero-acoustics & Thermo-acoustics", Von Karman Institute, Belgium, November 15-19, 2010.
- [274] **T. Schuller**, D. Durox, F. Boudy, P. Palies and S. Candel (2010). *Linear and nonlinear combustion dynamics analysis and stability prediction*. Invited lecture, Int'l Summer School & Workshop on Non-Normal and Nonlinear Effects in Aero- and Thermoacoustics, Technische Universität München, Germany, May 17-20, 2010.
- [275] **T. Schuller**, N. Tran, N. Noiray, D. Durox, F. Boudy and S. Candel (2010). *Analyse du rôle des conditions aux limites acoustiques non linéaires dans les instabilités de combustion*. Conférence invitée, Colloque "Le non-linéaire, une clé des énergies de demain ?", 13ème Rencontre du non-linéaire, Institut Henri Poincaré, Paris, France, 10-12 mars 2010.
- [276] S. Candel, D. Durox, S. Ducruix, A.-L. Birbaud, N. Noiray and **T. Schuller** (2007). *Flame dynamics and combustion noise: progress and challenges*. Invited lecture, 11th CEAS-ASC Workshop & 2nd Scientific Workshop of X3 - NOISE, Experimental and Numerical Analysis and Prediction of Combustion Noise, Lisbon, Portugal, September 27-28, 2007.
- [277] S. Candel, S. Ducruix, **T. Schuller**, D. Durox and F. Lacas (2004). *Dynamics and control of combustion*. Invited conference, Trente-Neuvième Colloque d'Aérodynamique Appliquée : Contrôle des Écoulements, Paris, France, 22-24 mars 2004.
- [278] S. Candel, S. Ducruix, **T. Schuller**, D. Durox and F. Lacas (2004). *Dynamical processes in active control of combustion instabilities*. Invited conference, Fifth Symposium on Smart Control of Turbulence, Tokyo, Japan, February 29 - March 2, 2004.

Autres revues

- [279] J. Li, F. Richecoeur, **T. Schuller** (2011). *Development of an acoustic diagnostic for determination of heat release rate perturbations in pulsated flames*, Mécanique & industries, 12(3):157-162.
- [280] **T. Schuller**, N. Tran, N. Noiray, D. Durox, F. Boudy and S. Candel (2010). *Analyse du rôle des conditions aux limites acoustiques non linéaires dans les instabilités de combustion*, Comptes-rendus de la 13ème Rencontre du Non-Linéaire, Paris 2010, édité par C. Josserand, M. Lefranc, & C. Letellier, Institut Henri Poincaré, Non-Linéaire Publications. ISBN 2-9516773-9-1.
- [281] R. Kaess, W. Polifke, T. Poinso, N. Noiray, D. Durox, **T. Schuller** and S. Candel (2008). *Mapping the thermo-acoustic stability of a laminar premix perforated-plate burner from CFD data*. Proceedings of the summer program 2008, Center for Turbulence Research, Stanford, USA, 2008.
- [282] A. Lamraoui, F. Richecoeur, **T. Schuller** and S. Ducruix (2008). *Influence des conditions aux limites acoustiques sur le bruit de combustion en configuration confinée*. Acoustique & Techniques, no. 54-55, pp. 65–70. ISSN 1263-8072.

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- [283] S. Ducruix, **T. Schuller**, D. Durox and S. Candel (2010). *Control of acoustically coupled combustion instabilities*, chapter 16 in "Handbook of Combustion Vol 5: New Technologies" edited by M. Leitner, F. Winter and A.K. Agarwal, Wiley-VCH Verlag GmbH & Co. KGAA, Weinheim.
- [284] S. Candel, D. Durox and **T. Schuller** (2009). *Perturbed flame dynamics and thermo-acoustic instability*, chapter 5.2 in "Combustion Phenomena : Selected Mechanisms of Flame Formation, Propagation, and Extinction", edited by J. Jaronski and B. Veysiere, Taylor and Francis, 2009, pp. 80–93. ISBN 978-0-8493-8408-0.
- [285] S. Ducruix, **T. Schuller**, D. Durox and S. Candel (2005). *Combustion Instability Mechanisms in Premixed Combustors*, chapter 9 in "Combustion Instabilities in Gas Turbine Engines: Operational Experience, Fundamental Mechanisms, and Modeling". Part III: Fundamental Processes and Mechanisms, Vol. 210, Progress in Astronautics and Aeronautics, 2005, pp. 179–206.
- [286] **T. Schuller**, D. Durox, S. Candel (2005). *Combustion oscillations sustained by mutual flame interactions*, chapter 12 in "Advances in Combustion and Noise Control", edited by G.D. Roy, K.H. Yu, J.H. Whitelaw, J.J. Witton, Cranfield University Press, 2005, pp. 201–210. ISBN 1-871315-92-1.
- [287] S. Candel, S. Ducruix, **T. Schuller**, D. Durox (2003). *Dynamics and control of flames interacting with pressure waves*, Vol. 85 of Notes on Numerical Fluid Mechanics and Multi-disciplinary Design, Coupling of Fluids, Structures and Waves in Aeronautics, Proceedings, 2003, pp. 24–37.