

Pubblicazioni su riviste con revisione del manoscritto

1. **C. Allouis**, A. Esposito, P. Salatino, R. Savino, O. Senneca, "Set up of an experimental protocol for the investigation of graphite combustion in supersonic flow", *Experimental Thermal and Fluid Science*, in press, 2013.
2. F. Chiariello, **C. Allouis**, F. Reale, P. Massoli, "Gaseous and particulate emissions of a micro gas turbine fuelled by straight vegetable oil-kerosene blends", *Experimental Thermal and Fluid Science*, in press, 2013.
3. **C. Allouis**, R. Pagliara, capitolo: "Infrared Imaging to Combustion Systems", pp 165-180, nell'Ebook intitolato: *Infrared Thermography Recent Advances and Future Trends*, ed. Carosena Meola, Bentham, 2012.
4. **C. Allouis**, R. Pagliara, A. Saponaro, "Fast infrared imaging for combustion stability analysis of industrial burners", *Experimental Thermal and Fluid Science*, **43 (2)**, 2-8, 2012.
5. **C. Allouis**, A. Amoresano, D. Giordano, M. Russo, F. Timpone, "Measurement of the thermal diffusivity of a tire compound by mean of infrared optical technique", *International Review of Mechanical Engineering*, **6 (6)**, 1104-1108, 2012.
6. S. Cimino, **C. Allouis**, R. Pagliara, G. Russo, "Effect of catalyst formulation (Rh, Rh-Pt) on the performance of a natural gas hybrid catalytic burner", *Catalysis Today*, **171 (1)**, 72-78, 2011.
7. **C. Allouis**, F. Beretta, P. Minutolo, R. Pagliara, M. Sirignano, L.A. Sgro, A. D'Anna, "Measurements of ultrafine particles from a gas-turbine burning biofuels", *Experimental Thermal and Fluid Science*, **34 (3)**, 258-261, 2010.
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13. **C. Allouis**; F. Beretta; A. Amoresano; "Experimental Study of Lean Premixed Prevaporized Combustion Fluctuations in a Gas Turbine Burner", *Combustion Science and Technology*, **180(5)**, 900-909, 2008.

14. M. Simeone, L. Salemme, D. Scognamiglio, **C. Allouis**, G. Volpicelli, "Effect of water addition and stoichiometry variations on temperature profiles in an autothermal methane reforming reactor with Ni catalyst", *International Journal of Hydrogen Energy*, **33** (4) 1252 – 1261, 2008.
15. A. D'Anna; M. Commodo; S. Violi; **C. Allouis**; J. Kent, "Nano organic carbon and soot in turbulent non-premixed ethylene flames", *Proceedings of the Combustion Institute*, **31/1**, pp 621-629, 2007.
16. T. Marchione; **C. Allouis**; A. Amoresano; F. Beretta, "Experimental Investigation of a Pressure Swirl Atomizer Spray", *Journal of Propulsion and Power*, **23:5**, 1096-1101, 2007.
17. M. Commodo, S. Violi, A. D'Anna, A. D'Alessio, **C. Allouis**, F. Beretta and P. Minutolo. "soot and nanoparticle formation in laminar and turbulent flames", *Comb. Sci. and Tech.*, **179**, 387-400, 2007.
18. D. Menghini, T. Marchione, G. Martino, F. S. Marra, **C. Allouis**, F. Beretta. "numerical and experimental investigations to lower environmental impact of an open fireplace", *Experimental Thermal and Fluid Science*, **31**, 477-482, 2007.
19. **C. Allouis**, A. L'Insalata, L. Fortunato, A. Saponaro, F. Beretta. "study of water-oil emulsion combustion in large pilot power plants for fine particle matter emission reduction", *Experimental Thermal and Fluid Science*, **31**, 420-426, 2007.
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21. A. Rolando, **C. Allouis**, F. Beretta, A. D'Alessio, A. D'Anna, P. Minutolo, "Measurement of particulate volume fraction in a co-flow diffusion flame using transient thermocouple technique", *Comb. Sci. and Tech.*, **176**, pp. 945-958, 2004.
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23. **C. Allouis**, B. Apicella, R. Barbella, F. Beretta, A., A. Ciajolo, Tregrossi, "Monitoring of Fuel Consumption and Aromatic Formation in a kerosene Spray Flame as Characterized by Fluorescence Spectroscopy", *Chemosphere*, **51/10** 1097 – 1102, 2003.
24. **C. Allouis**, F. Beretta, A. D'Alessio, "Structure of Inorganic and Carbonaceous Particles Emitted from Heavy Oil Combustion", *Chemosphere*, **51/10**, 1091 – 1096, 2003.
25. **C. Allouis**, F. Rosano, A. D'Alessio, F. Beretta, "A possible radiative model for micronic carbonaceous particle sizing based on time resolved laser induced incandescence", *Measurement Science and Technology*, **13**, 401-410, 2002.
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28. S.S. Merola, G. Gambi, **C. Allouis**, F. Beretta, A. Borghese, A D'Alessio, "Differential analysis of exhausts emitted by engines and stationary burners, by means of u.v. – visible extinction and fluorescence spectroscopy", *Chemosphere*, **42**, pp. 827-834, 2001.
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Partecipazioni a congressi internazionali con pubblicazione degli atti

1. **C. Allouis**, R. Pagliara, A., Saponaro A. "Fast infrared imaging for combustion stability analysis of industrial burners", 7th Mediterranean Combustion Symposium, Cagliari, 2011.
2. S. Cimino, **C. Allouis**, R. Pagliara, G. Russo, "Low NOx hybrid catalytic radiant gas burner", 7th Mediterranean Combustion Symposium, Cagliari, 2011.
1. **C. Allouis**, R. Pagliara, A. Saponaro A., "IR imaging for stability analysis of industrial burner", p. 2010-05, 10th Quantitative Infrared Thermography, Québec, Canada, 2010.
3. O. Senneca, **C. Allouis**, R. Chirone, S. Russo, "Set up of an experimental apparatus for the study of fragmentation of solid fuels upon severe heating", 6th Mediterranean Combustion Symposium, Ajaccio, 2009.
4. **C. Allouis**, R. Pagliara, A., Saponaro A., "IR imaging for stability analysis of industrial burner", 6th Mediterranean Combustion Symposium, Ajaccio, 2009.
5. **C. Allouis**, F. Beretta, "Fast Infrared Imaging to study burner fluctuations", 9th Qualitative InfraRed Thermography, Krakow, July 2008.
6. D. Scognamiglio, L. Salemme, L. Russo, M. Simeone, P.L. Maffettone, S. Crescitelli, **C. Allouis**, F. Beretta, G. Volpicelli, "Autothermal catalytic reactors for syngas production: experimental and modelling analysis", 6th European Congress of Chemical Engineering, Copenhagen, September, 2007.
7. D. Menghini, F. S. Marra, **C. Allouis**, F. Beretta, "Effect of air excess on the optimization of heating appliances for biomass combustion", Fifth Mediterranean Combustion Symposium, Monastir, 2007.
8. **C. Allouis**, A. Amoresano, F. Beretta, "Experimental study of lean premixed

prevaporized combustion fluctuations in a gas turbine burner", Fifth Mediterranean Combustion Symposium, Monastir, 2007.

9. M. Commodo, A. D'Anna, **C. Allouis**, P. Minutolo, "Nanometric Organic Carbon and Soot in Methane Non-Premixed Flames", 3rd European Combustion Meeting, Chania, Greece, 2007.
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12. M. Commodo, S. Violi, A. D'Anna, A. D'Alessio, **C. Allouis**, F. Beretta and P. Minutolo. "Soot and nanoparticle formation in laminar and turbulent flames", 4th Mediterranean Combustion Symposium, Lisbon, VI.10, 2005.
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27. C. **Allouis**, F. Beretta, A. Ciajolo, E. Poitrat, I. Gokalp, "Comparaison des performances en combustion de l'huile de colza pure ou en mélange", Groupement Français de Combustion (Sezione Francese del Combustion Institute), Orléans 6-8 giugno 2001.
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Partecipazioni a congressi nazionali con pubblicazione degli atti

1. **C. Allouis**, M. Gallo, R. Nigro, R. Pagliara, "Combustion of poultry derived wastes for smart energy recovery", atti del Meeting of the Italian section of the Combustion Institute, Napoli- Italy, 2012.
2. S. Cimino, **C. Allouis**, R. Pagliara, G. Russo, "Role of catalytic stage in a low NOx hybrid gas burner", atti del Meeting of the Italian section of the Combustion Institute, Roma- Italy, 2011.
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5. **C. Allouis**, F. Beretta, "Fast infrared imaging to study burner fluctuations", Mis-Mac X, Napoli, 2008.
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7. L. Terrazzano, **C. Allouis**, F. Beretta, R. Pagliara, G. Martino, "Optimization of Combustion Performances of Pellet Burners", atti del Meeting of the Italian section of the Combustion Institute, Ischia- Italy, I-8, 2007.

8. **C. Allouis**, T. Marchione, F. Beretta, "Preliminary study of fluctuations of a LPP burner" atti del Meeting of the Italian section of the Combustion Institute, Pisa- Italy, I-8, 2006.
9. D. Menghini, **C. Allouis**, F. Beretta, F. S. Marra, G. Martino, "A study for the optimization of domestic appliances for biomass combustion" atti del Meeting of the Italian section of the Combustion Institute, Pisa- Italy, I-6, 2006.
10. M. Commodo, S. Violi, A. D'Anna, **C. Allouis**, P. Minutolo, "Experimental Study of Nanometric Organic Carbon and Soot in a Methane Coflow Laminar Diffusion Flame" atti del Meeting of the Italian section of the Combustion Institute, Pisa- Italy, X-6, 2006.
11. D. Menghini, T. Marchione, F. Sabino, F.S. Marra, **C. Allouis**, F. Beretta. "Numerical and experimental investigations to lower environmental impact of an opened fire place", atti del Meeting of the Italian section of the Combustion Institute, Napoli- Italy, VI. 8, 2005.
12. M. Commodo, S. Violi, A. D'Alessio, A. D'Anna, **C. Allouis**, F. Beretta, P. Minutolo. "Soot and nanoparticle concentrations in a turbulent non-premixed ethylene/air flame from laser induced emission measurements at 213nm", atti del Meeting of the Italian section of the Combustion Institute, Napoli- Italy, III. 11, 2005.
13. **C. Allouis**, A. L'Insalata, L. Fortunato, A.Saponaro, F. Beretta. "Size distribution of particulate emitted by a 6 MW industrial plant fueled with heavy oil and emulsion", atti del Meeting of the Italian section of the Combustion Institute, Napoli- Italy, VI. 7, 2005.
14. Benedettia C., L'Insalata A., Saponaro A., DiCarlo F., **Allouis C**, "Caratterizzazione delle emissioni prodotte da un generatore di vapore sperimentale. indagine sull'accoppiamento della tecnologia di reurning con l'utilizzo di emulsioni acqua-olio combustibile", 60° Congresso Nazionale ATI, 13 –15 settembre, Roma, 2005.
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18. A. Rolando, **C. Allouis**, A. Barone, A. D'Alessio, A. D'Anna, P. Minutolo, "Carbonaceous nanoparticles formed in a co-flowing diffusion flame", atti del Meeting of the Italian section of the Combustion Institute, Ischia- Italy, p 6.4, 2003.
19. A. Amoresano, **C. Allouis**. " Infrared analysis of the interaction between fuel jet and convective hot field in counter flow conditions", atti del Meeting of the Italian section of the Combustion Institute, Ischia- Italy, p 9.9, 2003.

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