

# LuÃ-s Fernando Figueira da Silva

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

665  
citations

686830

13  
h-index

580395

25  
g-index

49  
all docs

49  
docs citations

49  
times ranked

395  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Stabilization of an oblique detonation wave by a wedge: a parametric numerical study. <i>Combustion and Flame</i> , 2000, 121, 152-166.  | 2.8 | 121       |
| 2  | Onset of oblique detonation waves: Comparison between experimental and numerical results for hydrogen-air mixtures. <i>Proceedings of the Combustion Institute</i> , 1996, 26, 3023-3031.  | 0.3 | 93        |
| 3  | A comparative experimental study of turbulent non premixed flames stabilized by a bluff-body burner. <i>Experimental Thermal and Fluid Science</i> , 2015, 63, 20-33.  | 1.5 | 34        |
| 4  | Revisited Flamelet Model for Nonpremixed Combustion in Supersonic Turbulent Flows. <i>Combustion and Flame</i> , 1998, 114, 577-584.   | 2.8 | 33        |
| 5  | Lagrangian Mixing Models for Turbulent Combustion: Review and Prospects. <i>Flow, Turbulence and Combustion</i> , 2015, 94, 643-689.   | 1.4 | 30        |
| 6  | Application of the method of manufactured solutions to the verification of a pressure-based finite-volume numerical scheme. <i>Computers and Fluids</i> , 2011, 51, 85-99.   | 1.3 | 28        |
| 7  | Some Specific Aspects of Combustion in Supersonic H <sub>2</sub> -Air Laminar Mixing Layers. <i>Combustion Science and Technology</i> , 1993, 89, 317-333.   | 1.2 | 26        |
| 8  | Unstructured Adaptive Grid Flow Simulations of Inert and Reactive Gas Mixtures. <i>Journal of Computational Physics</i> , 2000, 160, 522-540.  | 1.9 | 24        |
| 9  | Partially stirred reactor: study of the sensitivity of the Monte-Carlo simulation to the number of stochastic particles with the use of a semi-analytic, steady-state, solution to the pdf equation. <i>Combustion and Flame</i> , 2002, 129, 164-178. | 2.8 | 19        |
| 10 | Numerical Study of Detonation Stabilization by Finite Length Wedges. <i>AIAA Journal</i> , 2006, 44, 353-361.  | 1.5 | 19        |
| 11 | Influence of synthetic inlet turbulence on the prediction of low Mach number flows. <i>Computers and Fluids</i> , 2015, 106, 135-153.  | 1.3 | 17        |
| 12 | Measurements and modeling of PAH soot precursors in coflow ethylene/air laminar diffusion flames. <i>Fuel</i> , 2019, 236, 452-460.  | 3.4 | 17        |
| 13 | Emissions and Thermodynamic Performance Simulation of an Industrial Gas Turbine. <i>Journal of Propulsion and Power</i> , 2011, 27, 78-93.   | 1.3 | 15        |
| 14 | Numerical study of wedge supported oblique shock wave-oblique detonation wave transitions. <i>Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences</i> , 2002, 24, 149-157.                                | 0.1 | 14        |
| 15 | Numerical study of ignition within hydrogen-air supersonic boundary layers. <i>AIAA Journal</i> , 1993, 31, 884-890.   | 1.5 | 13        |
| 16 | Computational Study of Submerged Air Inlet Performance Improvement Using Vortex Generators. <i>Journal of Aircraft</i> , 2007, 44, 1574-1587.  | 1.7 | 12        |
| 17 | Large Eddy Simulation of Turbulent Premixed Combustion at Moderate Damköhler Numbers Stabilized in a High-Speed Flow. <i>Combustion Science and Technology</i> , 2011, 183, 645-664.   | 1.2 | 11        |
| 18 | On the predictability of chemical kinetics for the description of the combustion of simple fuels. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2011, 33, 492-505.  | 0.8 | 11        |

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|----|--|-----|-----------|
| 19 | Comparative study of thermal radiation properties models in turbulent non-premixed sooting combustion. Numerical Heat Transfer; Part A: Applications, 2016, 69, 166-179.                               | 1.2 | 10        |
| 20 | Soot Pyrometry by Emission Measurements at Different Wavelengths in Laminar Axisymmetric Flames. Combustion Science and Technology, 2022, 194, 1643-1660.  | 1.2 | 8         |
| 21 | Three-wavelength broadband soot pyrometry technique for axisymmetric flames. Optics Letters, 2021, 46, 2654.   | 1.7 | 8         |
| 22 | Stabilization of Supersonic Combustion by a Free Recirculating Bubble: A Numerical Study. AIAA Journal, 1997, 35, 1782-1784.   | 1.5 | 7         |
| 23 | Evaluation of adaptive mesh refinement and coarsening for the computation of compressible flows on unstructured meshes. International Journal for Numerical Methods in Fluids, 2005, 49, 999-1014.     | 0.9 | 7         |
| 24 | Study of stochastic mixing models for combustion in turbulent flows. Proceedings of the Combustion Institute, 2009, 32, 1595-1603.   | 2.4 | 7         |
| 25 | Assessment of a transient homogeneous reactor through in situ adaptive tabulation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2014, 36, 377-391.                         | 0.8 | 7         |
| 26 | Characterization of multi-jet turbulent flames in cross flow using stereo-PIV and OH-PLIF. Fire Safety Journal, 2015, 78, 44-54.   | 1.4 | 7         |
| 27 | Study of the Turbulent Velocity Field in the Near Wake of a Bluff Body. Flow, Turbulence and Combustion, 2016, 97, 715-728.  | 1.4 | 7         |
| 28 | Non-premixed combustion in supersonic turbulent flows - A numerical study for co-flowing H <sub>2</sub> -air jets. , 1999, , .   |     | 6         |
| 29 | Candle flame soot sizing by planar time-resolved laser-induced incandescence. Scientific Reports, 2020, 10, 11364.   | 1.6 | 6         |
| 30 | The influence of equivalence ratio and Sor <sup>Å</sup> t effecton the ignition of hydrogen-air mixtures in supersonic boundary layers. Proceedings of the Combustion Institute, 1994, 25, 29-36.      | 0.3 | 4         |
| 31 | Study of the Influence of Aircraft Geometry on the Computed Flowfield During Thrust Reversers Operation. , 2006, , .   |     | 4         |
| 32 | Order of accuracy study of unstructured grid finite volume upwind schemes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2010, 32, 78-93.                                   | 0.8 | 4         |
| 33 | Turbulent non-premixed ethanol-air flame experimental study using laser diagnostics. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2013, 35, 177-188.                       | 0.8 | 4         |
| 34 | Study of mass consistency LES/FDF techniques for chemically reacting flows. Combustion Theory and Modelling, 2015, 19, 465-494.  | 1.0 | 4         |
| 35 | Computational assessment of methane-air reduced chemical kinetic mechanisms for soot production studies. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 2225-2244. | 0.8 | 4         |
| 36 | Soot modeling in turbulent diffusion flames: review and prospects. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.   | 0.8 | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Modelling of a turbulent lean premixed combustor using a Reynolds-averaged Navier-Stokes approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.   | 0.8 | 3         |
| 38 | On the development of an unstructured grid solver for inert and reactive high speed flow simulations. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 1999, 21, 564-579.                               | 0.1 | 3         |
| 39 | Boundary layer ignition of hydrogen-air mixtures in supersonic flows. Journal of Thermal Science, 1994, 3, 43-48.  | 0.9 | 2         |
| 40 | On the Non-Equilibrium Behavior of Fuel-Rich Hydrocarbon/Air Combustion Within Perfectly Stirred Reactors. Combustion Science and Technology, 2017, 189, 732-746.  | 1.2 | 2         |
| 41 | Reduced Order Model of Laminar Premixed Inverted Conical Flames. , 2020, , .   |     | 2         |
| 42 | CRFlowLib – Chemically Reacting Flow Library. Software Impacts, 2022, 11, 100206.  | 0.8 | 2         |
| 43 | Premixed flame heat release-based optimum global single-step chemistry for H <sub>2</sub> , CH <sub>4</sub> , and C <sub>3</sub> H <sub>8</sub> mixtures with air. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1. | 0.8 | 2         |
| 44 | Modelling of pulsating inverted conical flames: a numerical instability analysis. Combustion Theory and Modelling, 0, , 1-29.  | 1.0 | 2         |
| 45 | EXPERIMENTAL STUDY OF A LEAN PREMIXED TURBULENT SWIRLING FLAME STABILIZATION. , 2017, , .  |     | 1         |
| 46 | EXPERIMENTAL STUDY OF THE INFLUENCE OF THE SWIRL NUMBER ON LEAN PREMIXED COMBUSTION REGIMES. , 2018, , .   |     | 1         |
| 47 | Numerical Study of the Subsonic Flow Around NLR7301 Airfoil Using a Non-Linear Turbulence Model. , 2005, , .   |     | 0         |
| 48 | On the admissibility of stencils for first order polynomial reconstruction on three-dimensional unstructured meshes. Computers and Fluids, 2006, 35, 349-352.  | 1.3 | 0         |
| 49 | Experimental study of the influence of the swirl number on lean premixed combustion regimes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.   | 0.8 | 0         |