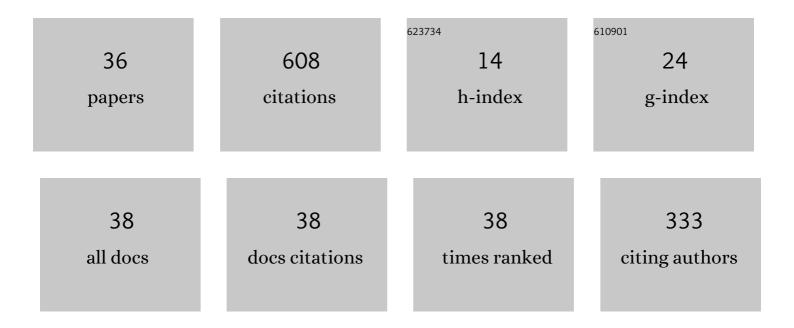
Roberto Navarro

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Characterization of a radial turbocharger turbine in pulsating flow by means of CFD and its application to engine modeling. Applied Energy, 2013, 103, 116-127. | 10.1 | 109 |
| 2 | Effect of the inlet geometry on performance, surge margin and noise emission of an automotive turbocharger compressor. Applied Thermal Engineering, 2017, 110, 875-882. | 6.0 | 62 |
| 3 | Methodology for experimental validation of a CFD model for predicting noise generation in centrifugal compressors. International Journal of Heat and Fluid Flow, 2014, 50, 134-144. | 2.4 | 48 |
| 4 | Influence of tip clearance on flow behavior and noise generation of centrifugal compressors in near-surge conditions. International Journal of Heat and Fluid Flow, 2015, 52, 129-139. | 2.4 | 43 |
| 5 | Numerical and experimental analysis of automotive turbocharger compressor aeroacoustics at different operating conditions. International Journal of Heat and Fluid Flow, 2016, 61, 245-255. | 2.4 | 33 |
| 6 | Simulations and measurements of automotive turbocharger compressor whoosh noise. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 12-20. | 3.1 | 32 |
| 7 | Set-Up Analysis and Optimization of CFD Simulations for Radial Turbines. Engineering Applications of Computational Fluid Mechanics, 2013, 7, 441-460. | 3.1 | 28 |
| 8 | Coupling methodology of 1D finite difference and 3D finite volume CFD codes based on the Method of Characteristics. Mathematical and Computer Modelling, 2011, 54, 1738-1746. | 2.0 | 25 |
| 9 | Turbocharger turbine rotor tip leakage loss and mass flow model valid up to extreme off-design conditions with high blade to jet speed ratio. Energy, 2018, 147, 1299-1310. | 8.8 | 25 |
| 10 | Development of Non-Reflecting Boundary Condition for Application in 3D Computational Fluid Dynamics Codes. Engineering Applications of Computational Fluid Mechanics, 2012, 6, 447-460. | 3.1 | 23 |
| 11 | Acoustic characterization of automotive turbocompressors. International Journal of Engine Research, 2015, 16, 31-37. | 2.3 | 22 |
| 12 | Development and verification of an in-flow water condensation model for 3D-CFD simulations of humid air streams mixing. Computers and Fluids, 2018, 167, 158-165. | 2.5 | 19 |
| 13 | Analysis of the impact of the geometry on the performance of an automotive centrifugal compressor using CFD simulations. Applied Thermal Engineering, 2019, 148, 1324-1333. | 6.0 | 17 |
| 14 | A zonal approach for estimating pressure ratio at compressor extreme off-design conditions. International Journal of Engine Research, 2019, 20, 393-404. | 2.3 | 17 |
| 15 | Validation and sensitivity analysis of an in-flow water condensation model for 3D-CFD simulations of humid air streams mixing. International Journal of Thermal Sciences, 2019, 136, 410-419. | 4.9 | 14 |
| 16 | Development of an experimental test bench and a psychrometric model for assessing condensation on a low-pressure exhaust gas recirculation cooler. International Journal of Engine Research, 2021, 22, 1540-1550. | 2.3 | 13 |
| 17 | Compressor Efficiency Extrapolation for 0D-1D Engine Simulations. , 0, , . | | 11 |
| 18 | Contribution to tip leakage loss modeling in radial turbines based on 3D flow analysis and 1D characterization. International Journal of Heat and Fluid Flow, 2019, 78, 108423. | 2.4 | 11 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Centrifugal compressor influence on condensation due to Long Route-Exhaust Gas Recirculation mixing. Applied Thermal Engineering, 2018, 144, 901-909. | 6.0 | 8 |
| 20 | Assessment of the numerical and experimental methodology to predict EGR cylinder-to-cylinder dispersion and pollutant emissions. International Journal of Engine Research, 2021, 22, 3128-3146. | 2.3 | 8 |
| 21 | Analysis of the influence of different real flow effects on computational fluid dynamics boundary conditions based on the method of characteristics. Mathematical and Computer Modelling, 2013, 57, 1957-1964. | 2.0 | 7 |
| 22 | Modelling Analysis of Aftertreatment Inlet Temperature Dependence on Exhaust Valve and Ports Design Parameters. , 0, , . | | 6 |
| 23 | Design and Numerical Analysis of Flow Characteristics in a Scaled Volute and Vaned Nozzle of Radial Turbocharger Turbines. Energies, 2020, 13, 2930. | 3.1 | 5 |
| 24 | Analysis of condensation and secondary flows at three-way junctions using optical visualization techniques and computational fluid dynamics. International Journal of Multiphase Flow, 2021, 141, 103674. | 3.4 | 5 |
| 25 | A study on the high pressure EGR transport and application to the dispersion among cylinders in automotive engines. International Journal of Engine Research, 2021, 22, 3164-3178. | 2.3 | 4 |
| 26 | Numerical assessment of mixing of humid air streams in three-way junctions and impact on volume condensation. Applied Thermal Engineering, 2022, 201, 117676. | 6.0 | 4 |
| 27 | Quantitative validation of an in-flow water condensation model for 3D-CFD simulations of three-way junctions using indirect condensation measurements. International Journal of Thermal Sciences, 2022, 172, 107303. | 4.9 | 4 |
| 28 | Extremely Low Mass Flow at High Blade to Jet Speed Ratio in Variable Geometry Radial Turbines and its Influence on the Flow Pattern: A CFD Analysis. , 2017, , . | | 2 |
| 29 | Influence of Tip Clearance on Flow Behavior and Noise Generation. Springer Theses, 2018, , 41-58. | 0.1 | 1 |
| 30 | Predicting Flow-Induced Acoustics at Near-Stall Conditions in an Automotive Turbocharger Compressor. Springer Theses, 2018, , . | 0.1 | 1 |
| 31 | Use of scoring rubrics for evaluating oral presentations in aerospace engineering education. , 2015, , . | | 1 |
| 32 | Sensitivity of Compressor Noise Prediction toÂNumerical Setup. Springer Theses, 2018, , 59-89. | 0.1 | 0 |
| 33 | Method for Non-Dimensional Tip Leakage Flow Characterization in Radial Turbines. , 2018, , . | | Ο |
| 34 | Methodology for Experimental Validation. Springer Theses, 2018, , 13-40. | 0.1 | 0 |
| 35 | Compressor Mean Flow Field at Near-Stall Conditions. Springer Theses, 2018, , 91-112. | 0.1 | Ο |
| 36 | Compressor Aerocoustics at Near-Stall Conditions. Springer Theses, 2018, , 113-128. | 0.1 | 0 |

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