

# Ioannis Goulos

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

369  
citations

759190

12  
h-index

888047

17  
g-index

50  
all docs

50  
docs citations

50  
times ranked

143  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Integrated methodology for the prediction of helicopter rotor noise at mission level. Aerospace Science and Technology, 2019, 89, 136-149.  | 4.8 | 32        |
| 2  | Mission Performance Simulation of Integrated Helicopterâ€“Engine Systems Using an Aeroelastic Rotor Model. Journal of Engineering for Gas Turbines and Power, 2013, 135, .  | 1.1 | 27        |
| 3  | Civil turbofan engine exhaust aerodynamics: Impact of bypass nozzle after-body design. Aerospace Science and Technology, 2018, 73, 85-95.   | 4.8 | 27        |
| 4  | Civil turbofan propulsion aerodynamics: Thrust-drag accounting and impact of engine installation position. Aerospace Science and Technology, 2021, 111, 106533.   | 4.8 | 25        |
| 5  | Surrogate models for the prediction of the aerodynamic performance of exhaust systems. Aerospace Science and Technology, 2019, 92, 77-90.   | 4.8 | 18        |
| 6  | Variable rotor speed and active blade twist for civil rotorcraft: Optimum scheduling, mission analysis, and environmental impact. Aerospace Science and Technology, 2019, 88, 444-456.  | 4.8 | 16        |
| 7  | An Integrated Approach for the Multidisciplinary Design of Optimum Rotorcraft Operations. Journal of Engineering for Gas Turbines and Power, 2012, 134, .   | 1.1 | 14        |
| 8  | Rotorcraft Engine Cycle Optimization at Mission Level. Journal of Engineering for Gas Turbines and Power, 2013, 135, .  | 1.1 | 14        |
| 9  | Helicopter Rotor Blade Flexibility Simulation for Aeroelasticity and Flight Dynamics Applications. Journal of the American Helicopter Society, 2014, 59, 1-18.  | 0.8 | 14        |
| 10 | Modelling and analysis of coupled flap-lag-torsion vibration characteristics helicopter rotor blades. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 1804-1823. | 1.3 | 14        |
| 11 | Impact of Adverse Environmental Conditions on Rotorcraft Operational Performance and Pollutant Emissions. Journal of Engineering for Gas Turbines and Power, 2018, 140, .   | 1.1 | 14        |
| 12 | A Multidisciplinary Approach for the Comprehensive Assessment of Integrated Rotorcraftâ€“Powerplant Systems at Mission Level. Journal of Engineering for Gas Turbines and Power, 2015, 137, .                                 | 1.1 | 13        |
| 13 | Aerodynamic Analysis of Civil Aeroengine Exhaust Systems Using Computational Fluid Dynamics. Journal of Propulsion and Power, 2018, 34, 1152-1165.  | 2.2 | 11        |
| 14 | Civil turbofan engine exhaust aerodynamics: Impact of fan exit flow characteristics. Aerospace Science and Technology, 2019, 93, 105181.  | 4.8 | 11        |
| 15 | Parametric design of non-axisymmetric separate-jet aero-engine exhaust systems. Aerospace Science and Technology, 2019, 93, 105186.   | 4.8 | 10        |
| 16 | Real-Time Aero-elasticity Simulation of Open Rotors With Slender Blades for the Multidisciplinary Design of Rotorcraft. Journal of Engineering for Gas Turbines and Power, 2015, 137, .                                       | 1.1 | 9         |
| 17 | Aerodynamic Design of Separate-Jet Exhausts for Future Civil Aero-enginesâ€“Part I: Parametric Geometry Definition and Computational Fluid Dynamics Approach. Journal of Engineering for Gas Turbines and Power, 2016, 138, . | 1.1 | 9         |
| 18 | Design and analysis of non-axisymmetric installed aero-engine exhaust systems. Aerospace Science and Technology, 2020, 106, 106210.   | 4.8 | 9         |

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|----|--|-----|-----------|
| 19 | Multi-disciplinary optimization of variable rotor speed and active blade twist rotorcraft: Trade-off between noise and emissions. <i>Aerospace Science and Technology</i> , 2020, 107, 106356.                               | 4.8 | 9         |
| 20 | Preliminary Design of Hybrid-Electric Propulsion Systems for Emerging Urban Air Mobility Rotorcraft Architectures. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .                                   | 1.1 | 9         |
| 21 | Aerodynamic Design of Separate-Jet Exhausts for Future Civil Aero-enginesâ€”Part II: Design Space Exploration, Surrogate Modeling, and Optimization. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, . | 1.1 | 7         |
| 22 | Helicopter Mission Analysis for a Regenerated Turboshaft. , 2013, , .  |     | 5         |
| 23 | Multi-objective Optimization of Conceptual Rotorcraft Powerplants: Trade-off Between Rotorcraft Fuel Efficiency and Environmental Impact. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .            | 1.1 | 5         |
| 24 | Novel Propeller Map Scaling Method. <i>Journal of Propulsion and Power</i> , 2016, 32, 1325-1332.  | 2.2 | 5         |
| 25 | An Improved Analytical Approach for Modeling the Effect of Rotor Wake Curvature Using Finite-State Induced Flow Models. <i>Journal of the American Helicopter Society</i> , 2016, 61, 1-16.                                  | 0.8 | 5         |
| 26 | Design Exploration and Performance Assessment of Advanced Recuperated Hybrid-Electric Urban Air Mobility Rotorcraft. <i>Journal of Engineering for Gas Turbines and Power</i> , 2022, 144, .                                 | 1.1 | 5         |
| 27 | Simulation Framework Development for Aircraft Mission Analysis. , 2010, , .  |     | 4         |
| 28 | Techno-Economic Assessment of Gas Turbine Cogeneration Cycles Utilizing Anaerobic Digestion Products for Biogas Fuel. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .                                | 1.1 | 4         |
| 29 | Multi-objective Optimization of a Regenerative Rotorcraft Powerplant: Trade-off Between Overall Engine Weight and Fuel Economy. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .                      | 1.1 | 3         |
| 30 | A Preliminary Design Tradeoff Study for an Advanced Propulsion Technology Rotorcraft at Mission Level. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .   | 1.1 | 3         |
| 31 | Impact of optimized variable rotor speed and active blade twist control on helicopter bladeâ€”vortex interaction noise and environmental impact. <i>Journal of Fluids and Structures</i> , 2021, 104, 103285.                | 3.4 | 3         |
| 32 | Impact of installation on a civil large turbofan exhaust system at idle descent conditions. <i>Aerospace Science and Technology</i> , 2021, 119, 107125.   | 4.8 | 3         |
| 33 | Simulation Framework Development for Helicopter Mission Analysis. , 2010, , .  |     | 2         |
| 34 | Design Space Exploration and Optimization of Conceptual Rotorcraft Powerplants. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, 121701.  | 1.1 | 2         |
| 35 | Optimal Control of a Compound Rotorcraft for Engine Performance Enhancement. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .   | 1.1 | 2         |
| 36 | An Integrated Approach for the Multidisciplinary Design of Optimum Rotorcraft Operations. , 2012, , .  |     | 2         |

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|----|---|-----|-----------|
| 37 | Mission Performance Simulation of Integrated Helicopter Engine Systems Using an Aeroelastic Rotor Model. , 2013, , .  |     | 1         |
| 38 | Optimized Regenerative Powerplant Configurations Targeting Improved Rotorcraft Operational and Environmental Performance. Journal of the American Helicopter Society, 2015, 60, 1-12. | 0.8 | 1         |
| 39 | Assessment of the Effect of Environmental Conditions on Rotorcraft Pollutant Emissions at Mission Level. , 2017, , .  |     | 1         |
| 40 | Impact of Tip-Vortex Modeling Uncertainty on Helicopter Rotor Blade Vortex Interaction Noise Prediction. Journal of the American Helicopter Society, 2021, 66, 1-13.                  | 0.8 | 1         |
| 41 | Rotorcraft Engine Cycle Optimization at Mission Level. , 2013, , .  |     | 0         |
| 42 | Real-Time Simulation of Rotor Blade Aeroelasticity for the Multidisciplinary Design of Rotorcraft. , 2014, , .  |     | 0         |
| 43 | Techno Economic Evaluation of Recuperated Gas Turbine Cogeneration Cycles Utilizing Animal Manure and Energy Crops for Biogas Fuel. , 2014, , .                                       |     | 0         |
| 44 | A Multidisciplinary Approach for the Comprehensive Assessment of Integrated Rotorcraft Powerplant Systems at Mission Level. , 2014, , .   |     | 0         |
| 45 | Multi-Objective Optimization of a Regenerative Rotorcraft Powerplant: Quantification of Fuel Economy and Environmental Impact. , 2015, , .  |     | 0         |
| 46 | Generalized Aerodynamic Modeling of Dynamic Wake Curvature for Open Rotors With Slender Blades. Journal of Turbomachinery, 2016, 138, .   | 1.7 | 0         |
| 47 | Geometry Parameterisation and Aerodynamic Characteristics of Axisymmetric Afterbodies. , 2020, , .  |     | 0         |
| 48 | Low Order Models for Transonic Afterbody Aerodynamic Characteristics. , 2020, , .   |     | 0         |
| 49 | Design Space Exploration and Optimization of Conceptual Rotorcraft Powerplants. , 2015, , .   |     | 0         |
| 50 | Optimal Control of a Compound Rotorcraft for Engine Performance Enhancement. , 2020, , .  |     | 0         |