

Francisco Palacios

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11871283/publications.pdf>

Version: 2024-02-01

32
papers

1,504
citations

1163117

8
h-index

1588992

8
g-index

32
all docs

32
docs citations

32
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	SU2: An Open-Source Suite for Multiphysics Simulation and Design. AIAA Journal, 2016, 54, 828-846.	2.6	567
2	Stanford University Unstructured (SU2): An open-source integrated computational environment for multi-physics simulation and design. , 2013, , .		264
3	Stanford University Unstructured (SU2): Analysis and Design Technology for Turbulent Flows. , 2014, , .		106
4	Continuous Adjoint Approach for the Spalart-Allmaras Model in Aerodynamic Optimization. AIAA Journal, 2012, 50, 631-646.	2.6	82
5	Systematic Continuous Adjoint Approach to Viscous Aerodynamic Design on Unstructured Grids. AIAA Journal, 2007, 45, 2125-2139.	2.6	79
6	AN ALTERNATING DESCENT METHOD FOR THE OPTIMAL CONTROL OF THE INVISCID BURGERS EQUATION IN THE PRESENCE OF SHOCKS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 369-416.	3.3	57
7	Unsteady Continuous Adjoint Approach for Aerodynamic Design on Dynamic Meshes. AIAA Journal, 2015, 53, 2437-2453.	2.6	36
8	Large-scale aircraft design using SU2. , 2015, , .		35
9	Extension of the SU2 open source CFD code to the simulation of turbulent flows of fluids modelled with complex thermophysical laws. , 2015, , .		31
10	Adjoint-based method for supersonic aircraft design using equivalent area distribution. , 2012, , .		29
11	A Discrete Adjoint Framework for Unsteady Aerodynamic and Aeroacoustic Optimization. , 2015, , .		29
12	Performance optimizations for scalable implicit RANS calculations with SU2. Computers and Fluids, 2016, 129, 146-158.	2.5	29
13	2-D Euler Shape Design on Nonregular Flows Using Adjoint Rankine-Hugoniot Relations. AIAA Journal, 2009, 47, 552-562.	2.6	22
14	A Viscous Continuous Adjoint Approach for the Design of Rotating Engineering Applications. , 2013, , .		21
15	Towards High-Performance Optimizations of the Unstructured Open-Source SU2 Suite. , 2015, , .		18
16	A Coupled-Adjoint Method for Aerodynamic and Aeroacoustic Optimization. , 2012, , .		15
17	Unsteady Aerodynamic Design on Unstructured Meshes with Sliding Interfaces. , 2013, , .		15
18	Optimal Shape Design for Open Rotor Blades. , 2012, , .		14

#	ARTICLE	IF	CITATIONS
19	Robust Grid Adaptation for Efficient Uncertainty Quantification. AIAA Journal, 2012, 50, 1538-1546.	2.6	13
20	Error Estimation for High Speed Flows Using Continuous and Discrete Adjoints. , 2010, , .		6
21	Shape Sensitivity of Free-Surface Interfaces Using a Level Set Methodology. , 2012, , .		6
22	A hybrid adjoint approach applied to turbulent flow simulations. , 2013, , .		5
23	Adjoint-Based Optimization of a Hypersonic Inlet. , 2015, , .		5
24	Adjoint-Based Aerothermodynamic Shape Design of Hypersonic Vehicles in Non-Equilibrium Flows. , 2014, , .		4
25	2D Euler Shape Design on Non-Regular Flows Using Adjoint Rankine-Hugoniot Relations. , 2008, , .		3
26	Continuous Adjoint Approach for the Spalart-Allmaras Model in Aerodynamic Optimization. , 2011, , .		3
27	2D Navier-Stokes Shape Design Using a Level Set Method. , 2008, , .		2
28	When the 'Exact' Discrete Gradient is not the Best Choice in Optimal Shape Design. , 2011, , .		2
29	Towards a Hybrid Adjoint Approach for Arbitrarily Complex Partial Differential Equations. , 2012, , .		2
30	Design of free-surface interfaces using RANS equations. , 2013, , .		2
31	Adjoint-Based Gradient Calculations for Projected-Force Objective Functions in Viscous, Nonequilibrium Hypersonic Environments. , 2015, , .		2
32	An Adjoint-Based Aerodynamic Shape Optimization Methodology for Fairing Systems. , 2013, , .		0