Lakshmi N Sankar

List of Publications by Year
in descending order

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33	605	567281	610901
papers	citations	15 h-index	24 g-index

33	33	33	286
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical Simulation of the Aerodynamics of Horizontal Axis Wind Turbines under Yawed Flow Conditions. Journal of Solar Energy Engineering, Transactions of the ASME, 2005, 127, 464-474.	1.8	64
2	Solutions of the Navierâ€Stokes Equations for the Flow About a Rotor Blade. Journal of the American Helicopter Society, 1989, 34, 13-23.	0.8	54
3	Simulation of Rotor in Hover: Current State, Challenges and Standardized Evaluation. , 2014, , .		46
4	Computational Study of Horizontal Axis Wind Turbines. Journal of Solar Energy Engineering, Transactions of the ASME, 2000, 122, 35-39.	1.8	43
5	Recent Improvements to a Hybrid Method for Rotors in Forward Flight. Journal of Aircraft, 2002, 39, 804-812.	2.4	33
6	Dynamic Stall Alleviation Using a Deformable Leading Edge Concept-A Numerical Study. Journal of Aircraft, 2003, 40, 77-85.	2.4	32
7	High-Order Essentially Nonoscillatory Schemes for Rotary-Wing Wake Computations. Journal of Aircraft, 2004, 41, 258-267.	2.4	27
8	Numerical Investigation of Circulation Control Airfoils. Journal of Aircraft, 2009, 46, 1403-1410.	2.4	24
9	Stability of Hingeless Rotors in Hover Using Threeâ€Dimensional Unsteady Aerodynamics. Journal of the American Helicopter Society, 1991, 36, 21-31.	0.8	23
10	Unsteady Overset Simulation of Rotor-Airframe Interaction. Journal of Aircraft, 2003, 40, 662-674.	2.4	23
11	Computational Investigation of Gurney Flap Effects on Rotors in Forward Flight. Journal of Aircraft, 2009, 46, 1957-1964.	2.4	21
12	Reduced-Order Dynamic Stall Modeling with Swept Flow Effects Using a Surrogate-Based Recurrence Framework. AIAA Journal, 2013, 51, 910-921.	2.6	21
13	Three-dimensional Navier-Stokes/full-potential coupled analysis for viscous transonic flow. AIAA Journal, 1993, 31, 1857-1862.	2.6	19
14	Navier-Stokes/Full Potential/Free-Wake Method for Rotor Flows. Journal of Aircraft, 1997, 34, 635-640.	2.4	17
15	A Surrogate-Based Approach to Reduced-Order Dynamic Stall Modeling. Journal of the American Helicopter Society, 2012, 57, 1-9.	0.8	16
16	Development of engineering aerodynamics models using a viscous flow methodology on the NREL Phase VI rotor. Wind Energy, 2002, 5, 171-183.	4.2	15
17	Hybrid Navier-Stokes/Free-Wake Method for Modeling Blade-Vortex Interactions. Journal of Aircraft, 2010, 47, 975-982.	2.4	15
18	Application of an efficient hybrid scheme for aeroelastic analysis of advanced propellers. Journal of Propulsion and Power, 1991, 7, 767-775.	2.2	14

#	Article	IF	Citations
19	Computational Analysis of Centrifugal Compressor Surge Control Using Air Injection. Journal of Aircraft, 2001, 38, 513-520.	2.4	14
20	Numerical simulation of the flow about a swept wing with leading-edge ice accretions. Computers and Fluids, 1997, 26, 183-192.	2.5	12
21	Computational Modeling of Variable-Droop Leading Edge in Forward Flight. Journal of Aircraft, 2009, 46, 617-626.	2.4	12
22	A CFDâ€“CSD coupled-analysis of HART-II rotor vibration reduction using gurney flaps. Aerospace Science and Technology, 2016, 48, 308-321.	4.8	12
23	Unsteady aerodynamic characteristics of a dual-element airfoil. Journal of Aircraft, 1994, 31, 531-537.	2.4	11
24	Hybrid Reynolds-Averaged Navier-Stokes/Kinetic-Eddy Simulation of Stall Inception in Axial Compressors. Journal of Propulsion and Power, 2010, 26, 1276-1282.	2.2	11
25	Viscous flow simulation of a fighter aircraft. Journal of Aircraft, 1992, 29, 886-891.	2.4	9
26	Physics-Based Modeling of Maneuver Loads for Rotor and Hub Design. Journal of Aircraft, 2014, 51, 377-389.	2.4	7
27	Computation of unsteady transonic flow over a fighter wing using a zonal Navier-Stokes/full-potential method. International Journal for Numerical Methods in Fluids, 1999, 29, 575-585.	1.6	4
28	Hybrid Reynolds-Average Navier-Stokes and Kinetic Eddy Simulation of External and Internal Flows. Journal of Aircraft, 2010, 47, 805-811.	2.4	3
29	Numerical simulation of viscous flow over rotors using a distributed computing strategy. AIAA Journal, 1996, 34, 2189-2191.	2.6	1
30	Assessment of Planform Effects on Rotor Hover Performance. , 2015, , .		1
31	A Comparative Study of Two Hover Prediction Methodologies. , 2016, , .		1
32	Application of Hover Prediction Methodologies to Anhedral Tip Shapes. , 2017, , .		0
33	ADVANCED COMPUTATIONAL TECHNIQUES FOR DETAILED ANALYSIS OF FLOWS OVER FIXED AND ROTARY WING GEOMETRIES. , 1998, , 691-700.		0