Peretz P Friedmann

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11086780/publications.pdf

Version: 2024-02-01

77 papers	2,533 citations	172457 29 h-index	197818 49 g-index
80 all docs	80 docs citations	80 times ranked	885 citing authors

#	Article	IF	Citations
1	Aeroelastic and Aerothermoelastic Analysis in Hypersonic Flow: Past, Present, and Future. AIAA Journal, 2011, 49, 1089-1122.	2.6	260
2	Vibration reduction in rotorcraft using active control - A comparison of various approaches. Journal of Guidance, Control, and Dynamics, 1995, 18, 664-673.	2.8	185
3	Reduced-Order Nonlinear Unsteady Aerodynamic Modeling Using a Surrogate-Based Recurrence Framework. AIAA Journal, 2010, 48, 2418-2429.	2.6	151
4	Renaissance of Aeroelasticity and Its Future. Journal of Aircraft, 1999, 36, 105-121.	2.4	125
5	Approximate Modeling of Unsteady Aerodynamics for Hypersonic Aeroelasticity. Journal of Aircraft, 2010, 47, 1932-1945.	2.4	100
6	Aeroelastic and Aerothermoelastic Behavior in Hypersonic Flow. AIAA Journal, 2008, 46, 2591-2610.	2.6	94
7	Higher-Harmonic-Control Algorithm for Helicopter Vibration Reduction Revisited. Journal of Guidance, Control, and Dynamics, 2005, 28, 918-930.	2.8	84
8	Helicopter vibration reduction using structural optimization with aeroelastic/multidisciplinary constraints - A survey. Journal of Aircraft, 1991, 28, 8-21.	2.4	78
9	Multiple-Surrogate Approach to Helicopter Rotor Blade Vibration Reduction. AIAA Journal, 2009, 47, 271-282.	2.6	74
10	Rotary-Wing Aeroelasticity: Current Status and Future Trends. AIAA Journal, 2004, 42, 1953-1972.	2.6	68
11	Flutter Boundary Identification for Time-Domain Computational Aeroelasticity. AIAA Journal, 2007, 45, 1546-1555.	2.6	65
12	Characterization of carbon nanotubes produced by arc discharge: Effect of the background pressure. Journal of Applied Physics, 2004, 95, 2749-2754.	2.5	63
13	Recent Developments in Rotary-wing Aeroelasticity. Journal of Aircraft, 1977, 14, 1027-1041.	2.4	61
14	Surrogate based optimization of helicopter rotor blades for vibration reduction in forward flight. Structural and Multidisciplinary Optimization, 2008, 35, 341-363.	3.5	51
15	Simultaneous Vibration and Noise Reduction in Rotorcraft Using Aeroelastic Simulation. Journal of the American Helicopter Society, 2006, 51, 127-140.	0.8	50
16	Numerical methods for determining the stability and response of periodic systems with applications to helicopter rotor dynamics and aeroelasticity. Computers and Mathematics With Applications, 1986, 12, 131-148.	2.7	49
17	Application of a New Compressible Time Domain Aerodynamic Model to Vibration Reduction in Helicopters Using an Actively Controlled Flap. Journal of the American Helicopter Society, 2001, 46, 32-43.	0.8	48
18	Rotorcraft Vibration Reduction and Noise Prediction Using a Unified Aeroelastic Response Simulation. Journal of the American Helicopter Society, 2005, 50, 95-106.	0.8	47

#	Article	IF	Citations
19	Uncertainty Propagation in Hypersonic Aerothermoelastic Analysis. Journal of Aircraft, 2014, 51, 192-203.	2.4	45
20	Rotary Wing Aeroelasticity-A Historical Perspective. Journal of Aircraft, 2003, 40, 1019-1046.	2.4	42
21	A moderate deflection composite helicopter rotor blade model with an improved cross-sectional analysis. International Journal of Solids and Structures, 2009, 46, 2186-2200.	2.7	42
22	On-Blade Control of Rotor Vibration, Noise, and Performance: Just Around the Corner? <i>The 33rd Alexander Nikolsky Honorary Lecture</i>. Journal of the American Helicopter Society, 2014, 59, 1-37.	0.8	42
23	Structural Optimization for Vibratory Loads Reduction of Composite Helicopter Rotor Blades with Advanced Geometry Tips. Journal of the American Helicopter Society, 1998, 43, 246-256.	0.8	41
24	Hypersonic Aeroelastic and Aerothermoelastic Studies Using Computational Fluid Dynamics. AIAA Journal, 2014, 52, 2062-2078.	2.6	41
25	Computational Study of Microflaps with Application to Vibration Reduction in Helicopter Rotors. AIAA Journal, 2011, 49, 1450-1465.	2.6	39
26	Application of Vortex Methods to Coaxial Rotor Wake and Load Calculations in Hover. Journal of Aircraft, 2018, 55, 373-381.	2.4	37
27	Approximate Aeroelastic Modeling of Flapping Wings in Hover. AIAA Journal, 2013, 51, 567-583.	2.6	35
28	Helicopter Vibration Reduction throughout the Entire Flight Envelope Using Surrogate-Based Optimization. Journal of the American Helicopter Society, 2009, 54, 12007-1200715.	0.8	33
29	Fundamental Aeroservoelastic Study Combining Unsteady Computational Fluid Mechanics with Adaptive Control. Journal of Guidance, Control, and Dynamics, 2000, 23, 1117-1126.	2.8	32
30	Uncertainty Propagation in Integrated Airframeâ€“Propulsion System Analysis for Hypersonic Vehicles. Journal of Propulsion and Power, 2015, 31, 54-68.	2.2	31
31	Integrated Aerothermoelastic Analysis Framework with Application to Skin Panels. AIAA Journal, 2018, 56, 4562-4581.	2.6	31
32	Rotor Performance Enhancement and Vibration Reduction in Presence of Dynamic Stall Using Actively Controlled Flaps. Journal of the American Helicopter Society, 2008, 53, 338.	0.8	26
33	Aeroelastic Modeling of Large Wind Turbines. Journal of the American Helicopter Society, 1976, 21, 17-27.	0.8	21
34	Reduced-Order Dynamic Stall Modeling with Swept Flow Effects Using a Surrogate-Based Recurrence Framework. AIAA Journal, 2013, 51, 910-921.	2.6	21
35	An aerothermoelastic analysis framework with reduced-order modeling applied to composite panels in hypersonic flows. Journal of Fluids and Structures, 2020, 94, 102927.	3.4	20
36	Digital Adaptive Flutter Suppression and Simulation Using Approximate Transonic Aerodynamics. JVC/Journal of Vibration and Control, 1995, 1, 363-388.	2.6	17

#	ARTICLE	IF	CITATIONS
37	Aeroelastic stability and response analysis of large horizontal-axis wind turbines. Journal of Wind Engineering and Industrial Aerodynamics, 1980, 5, 373-401.	3.9	16
38	A Surrogate-Based Approach to Reduced-Order Dynamic Stall Modeling. Journal of the American Helicopter Society, 2012, 57, 1-9.	0.8	16
39	Multifidelity coKriging for High-Dimensional Output Functions with Application to Hypersonic Airloads Computation. AIAA Journal, 2018, 56, 3060-3070.	2.6	16
40	Coupled Helicopter Rotor/Flexible Fuselage Aeroelastic Model for Control of Structural Response. AIAA Journal, 2000, 38, 1777-1788.	2.6	15
41	An aeroelastic model for composite rotor blades with straight and swept tips. Part I: Aeroelastic stability in hover. International Journal of Non-Linear Mechanics, 2002, 37, 967-986.	2.6	15
42	Experimental and Computational Study on Flapping Wings with Bio-Inspired Hover Kinematics. AIAA Journal, 2014, 52, 1047-1058.	2.6	15
43	Simultaneous Bladeâ€"Vortex Interaction Noise and Vibration Reduction in Rotorcraft Using Microflaps, Including the Effect of Actuator Saturation. Journal of the American Helicopter Society, 2015, 60, 1-16.	0.8	15
44	Influence of Unsteady Aerodynamic Models on Aeromechanical Stability in Ground Resonance. Journal of the American Helicopter Society, 1986, 31, 65-74.	0.8	13
45	A Study of Fundamental Issues in Higher Harmonic Control Using Aeroelastic Simulation. Journal of the American Helicopter Society, 1991, 36, 32-43.	0.8	13
46	Aerothermoelastic Scaling Laws for Hypersonic Skin Panel Configurations with Arbitrary Flow Orientation. AIAA Journal, 2019, 57, 4377-4392.	2.6	13
47	Unsteady Aerodynamics of an Airfoil/Flap Combination on a Helicopter Rotor Using Computational Fluid Dynamics and Approximate Methods. Journal of the American Helicopter Society, 2011, 56, 1-13.	0.8	10
48	An Aerothermoelastic Analysis Framework Enhanced by Model Order Reduction With Applications. , 2017, , .		9
49	Thermomechanical Behavior of a Damaged Thermal Protection System: Finite-Element Simulations. Journal of Aerospace Engineering, 2012, 25, 90-102.	1.4	8
50	An Integrated Aerothermoelastic Analysis Framework for Predicting the Response of Composite Panels. , 2016, , .		8
51	A Surrogate-Based Optimization Framework for Hypersonic Aerothermoelastic Scaling Laws with Application to Skin Panels. , 2019, , .		8
52	Effect of Piezoceramic Actuator Hysteresis on Helicopter Vibration and Noise Reduction. Journal of Guidance, Control, and Dynamics, 2012, 35, 1299-1311.	2.8	7
53	Forced and Aeroelastic Responses of Bird-Damaged Fan Blades: A Comparison and Its Implications. Journal of Aircraft, 2016, 53, 561-577.	2.4	7
54	Technical Note: Correlation Studies for Hingeless Rotors in Forward Flight Using 2GCHAS. Journal of the American Helicopter Society, 1998, 43, 257-262.	0.8	6

#	Article	IF	Citations
55	Application of Vortex Methods to Coaxial Rotor Wake and Load Calculations. , 2017, , .		6
56	Helicopter Shipboard Landing Simulation Including Wind, Deck Motion and Dynamic Ground Effect. Journal of Aircraft, 2021, 58, 467-486.	2.4	6
57	Aeromechanics and Aeroelastic Stability of Coaxial Rotors. Journal of Aircraft, 2021, 58, 1386-1405.	2.4	6
58	Optimization of the Kinematics of a Flapping Wing MAV in Hover for Enhanced Performance. , 2013, , .		5
59	Approximate Aerodynamic and Aeroelastic Modeling of Flapping Wings in Forward Flight. AIAA Journal, 2014, 52, 212-218.	2.6	5
60	Aeroelastic Response of Bird-Damaged Fan Blades Using a Coupled CFD/CSD Framework. , 2014, , .		4
61	Comprehensive Numerical Assessment of Rotorcraft Vibration and Noise Control Using Microflaps. Journal of Aircraft, 2016, 53, 1113-1130.	2.4	4
62	Active and Passive Helicopter Noise Reduction Using the AVINOR/HELINOIR Code Suite. Journal of Aircraft, 2018, 55, 727-740.	2.4	4
63	Simulation of Maritime Helicopter Dynamics During Approach to Landing With Time-Accurate Wind-Over-Deck. , 2019, , .		4
64	Aeroelastic Stability Analysis of Coaxial Rotors using Viscous Vortex Particle Method. , 2020, , .		4
65	Unsteady Aerodynamic Analysis of a Bird-Damaged Turbofan. , 2013, , .		3
66	An Efficient Approach for the Simulation and On-Blade Control of Helicopter Noise and the Impact on Vibration. Journal of the American Helicopter Society, 2017, 62, 1-15.	0.8	3
67	Aerothermoelastic Scaling Laws for Hypersonic Skin Panel Configurations with Arbitrary Flow Orientation. , 2018, , .		3
68	Application of a CFD-Based Surrogate Approach for Active Flow Control Modeling. , 2019, , .		3
69	Computational Simulations of Fluidic Actuation on Rotor Blades and Their Experimental Validation. Journal of Aircraft, 2021, 58, 1121-1136.	2.4	3
70	Aerothermoelastic and Aeroelastic Studies of Hypersonic Vehicles using CFD. , 2013, , .		2
71	Multi-Objective Optimization Framework for Hypersonic Aerothermoelastic Scaling Laws and Its Application. AIAA Journal, 2020, 58, 3250-3257.	2.6	2
72	Computations of Trailing Edge Fluidic Actuation for Active Flow Control at Low Angles of Attack. , 2020, , .		2

#	Article	IF	Citations
73	Vibration Reduction on Helicopter Rotors Using Open-Loop Flow Control. AIAA Journal, 0, , 1-16.	2.6	2
74	Numerical Treatment of Linear and Nonlinear Periodic Systems, with Applications. Advances in Chemical Physics, 2007, , 197-230.	0.3	1
75	The HELINOIR Aeroacoustic Code and its Application to Active/Passive Helicopter Noise Reduction. , 2017, , .		0
76	Vibration Reduction on Helicopter Rotors Using Open Loop Flow Control. , 2021, , .		0
77	Vibration Reduction in Rotorcraft Using Closed-Loop Active Flow Control. Journal of the American Helicopter Society, 2022, , .	0.8	0