

Rakesh K Kapania

List of Publications by Year in descending order

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436
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443
docs citations

443
times ranked

1831
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in analysis of laminated beams and plates. Part I - Shear effects and buckling.. AIAA Journal, 1989, 27, 923-935.	1.5	454
2	Recent Advances in Analysis of Laminated Beams and Plates, Part II: Vibrations and Wave Propagation. AIAA Journal, 1989, 27, 935-946.	1.5	271
3	Free vibration analysis of laminated plates using a layerwise theory. AIAA Journal, 1993, 31, 2335-2346.	1.5	222
4	Design Optimization of a Truss-Braced-Wing Transonic Transport Aircraft. Journal of Aircraft, 2010, 47, 1907-1917.	1.7	94
5	Wing-Box Weight Optimization Using Curvilinear Spars and Ribs (SpaRibs). Journal of Aircraft, 2011, 48, 1671-1684.	1.7	94
6	EBF3PanelOpt: An optimization framework for curvilinear blade-stiffened panels. Thin-Walled Structures, 2013, 63, 13-26.	2.7	91
7	Geometrically Nonlinear Finite Element Analysis of Imperfect Laminated Shells. Journal of Composite Materials, 1986, 20, 197-214.	1.2	87
8	Structural and Aeroelastic Modeling of General Planform Wings with Morphing Airfoils. AIAA Journal, 2002, 40, 628-637.	1.5	85
9	Conceptual Design Studies of a Strut-Braced Wing Transonic Transport. Journal of Aircraft, 2000, 37, 976-983.	1.7	79
10	Nonlinear vibrations of unsymmetrically laminated beams. AIAA Journal, 1989, 27, 201-210.	1.5	77
11	Buckling analysis of unitized curvilinearly stiffened composite panels. Composite Structures, 2016, 135, 365-382.	3.1	77
12	Thermal buckling of curvilinearly stiffened laminated composite plates with cutouts using isogeometric analysis. Composite Structures, 2020, 238, 111881.	3.1	75
13	Geometrically nonlinear NURBS isogeometric finite element analysis of laminated composite plates. Composite Structures, 2012, 94, 3434-3447.	3.1	72
14	Optimal Design of Unitized Panels with Curvilinear Stiffeners. , 2005, , .		69
15	On a geometrically exact curved/twisted beam theory under rigid cross-section assumption. Computational Mechanics, 2003, 30, 428-443.	2.2	60
16	A shear-deformable beam element for the analysis of laminated composites. Finite Elements in Analysis and Design, 2007, 43, 463-477.	1.7	58
17	Buckling and Static Analysis of Curvilinearly Stiffened Plates Using Mesh-Free Method. AIAA Journal, 2010, 48, 2739-2751.	1.5	53
18	A formulation and implementation of geometrically exact curved beam elements incorporating finite strains and finite rotations. Computational Mechanics, 2003, 30, 444-459.	2.2	51

#	ARTICLE	IF	CITATIONS
19	New Approach for System Reliability-Based Design Optimization. AIAA Journal, 2006, 44, 1087-1096.	1.5	48
20	Buckling, postbuckling, and nonlinear vibrations of imperfect plates. AIAA Journal, 1987, 25, 1338-1346.	1.5	47
21	Multidisciplinary Design Optimization of Medium-Range Transonic Truss-Braced Wing Transport Aircraft. Journal of Aircraft, 2012, 49, 1844-1856.	1.7	47
22	Global/Local Optimization of Aircraft Wing Using Parallel Processing. AIAA Journal, 2016, 54, 3338-3348.	1.5	47
23	Computation of Actuation Power Requirements for Smart Wings with Morphing Airfoils. AIAA Journal, 2005, 43, 2481-2486.	1.5	45
24	Static and Vibration Analyses of General Wing Structures Using Equivalent-Plate Models. AIAA Journal, 2000, 38, 1269-1277.	1.5	44
25	Vibration of Plate with Curvilinear Stiffeners Using Mesh-Free Method. AIAA Journal, 2010, 48, 1569-1581.	1.5	44
26	Vibration and Buckling Analysis of Curvilinearly Stiffened Plates Using Finite Element Method. AIAA Journal, 2015, 53, 1319-1335.	1.5	43
27	Multidisciplinary Design Optimization of a Transonic Commercial Transport with Strut-Braced Wing. Journal of Aircraft, 2001, 38, 1006-1014.	1.7	42
28	Structural and Aeroelastic Characteristics of Truss-Braced Wings: A Parametric Study. Journal of Aircraft, 2012, 49, 302-310.	1.7	41
29	Static Analysis of Sandwich Panels with Square Honeycomb Core. AIAA Journal, 2008, 46, 627-634.	1.5	38
30	Prestressed Vibration of Stiffened Variable-Angle Tow Laminated Plates. AIAA Journal, 2019, 57, 2575-2593.	1.5	38
31	Effect of Flutter on the Multidisciplinary Design Optimization of Truss-Braced-Wing Aircraft. Journal of Aircraft, 2015, 52, 1858-1872.	1.7	37
32	Formulation of an imperfect quadrilateral doubly curved shell element for postbuckling analysis. AIAA Journal, 1986, 24, 310-311.	1.5	36
33	Structural Wing Sizing for Multidisciplinary Design Optimization of a Strut-Braced Wing. Journal of Aircraft, 2001, 38, 154-163.	1.7	36
34	Nanonet Force Microscopy for Measuring Cell Forces. Biophysical Journal, 2016, 111, 197-207.	0.2	36
35	Development of a framework for truss-braced wing conceptual MDO. Structural and Multidisciplinary Optimization, 2011, 44, 277-298.	1.7	35
36	Dynamic buckling of imperfection-sensitive shell structures. Journal of Aircraft, 1987, 24, 718-724.	1.7	33

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37	Prediction of interlaminar stresses in laminated plates using globalorthogonal interpolation polynomials. AIAA Journal, 1992, 30, 2740-2749.	1.5	33
38	Computational Fluid Dynamics/Computational Structural Dynamics Interaction Methodology for Aircraft Wings. AIAA Journal, 1998, 36, 2179-2186.	1.5	33
39	Chebyshev-Ritz Approach to Buckling and Vibration of Curvilinearly Stiffened Plate. AIAA Journal, 2012, 50, 1007-1018.	1.5	30
40	Thermal Buckling Analysis and Optimization of Curvilinearly Stiffened Plates with Variable Angle Tow Laminates. Journal of Spacecraft and Rockets, 2019, 56, 1189-1204.	1.3	30
41	Free vibration analyses of generally laminated tapered skew plates. Composites Part B: Engineering, 1992, 2, 197-212.	0.6	29
42	Optimal Design of Unitized Structures Using Response Surface Approaches. Journal of Aircraft, 2010, 47, 1898-1906.	1.7	29
43	Free vibration of thick generally laminated cantilever quadrilateral plates. AIAA Journal, 1996, 34, 1474-1486.	1.5	28
44	Finite Element Random Response Analysis of Cooling Tower. Journal of Engineering Mechanics - ASCE, 1984, 110, 589-609.	1.6	27
45	Truss topology optimization with simultaneous analysis and design. AIAA Journal, 1994, 32, 420-424.	1.5	27
46	Updated Lagrangian Formulation of a Flat Triangular Element for Thin Laminated Shells. AIAA Journal, 1998, 36, 273-281.	1.5	27
47	Parametric Identification of Nonlinear Structural Dynamic Systems Using Time Finite Element Method. AIAA Journal, 1997, 35, 719-726.	1.5	26
48	Rate-Dependent Cohesive Zone Modeling of Unstable Crack Growth in an Epoxy Adhesive. Mechanics of Advanced Materials and Structures, 2009, 16, 12-19.	1.5	26
49	Shell Elements for Cooling Tower Analysis. Journal of Engineering Mechanics - ASCE, 1983, 109, 1270-1289.	1.6	25
50	Design, Optimization, and Evaluation of Integrally Stiffened Al-7050 Panel with Curved Stiffeners. Journal of Aircraft, 2011, 48, 1163-1175.	1.7	25
51	Vibro-Acoustic Optimization of Turbulent Boundary Layer Excited Panel with Curvilinear Stiffeners. Journal of Aircraft, 2012, 49, 52-65.	1.7	25
52	A framework combining meshfree analysis and adaptive kriging for optimization of stiffened panels. Structural and Multidisciplinary Optimization, 2014, 49, 577-594.	1.7	25
53	Free Vibration Analysis of Curvilinear-Stiffened Plates and Experimental Validation. Journal of Aircraft, 2010, 47, 192-200.	1.7	24
54	A POD-based Reduced Order Design Scheme for Shape Optimization of Air Vehicles. , 2012, , .		24

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55	Design Optimization for Minimum Sound Radiation from Point-Excited Curvilinearly Stiffened Panel. Journal of Aircraft, 2010, 47, 1100-1110.	1.7	23
56	On the Use of a Driven Wedge Test to Acquire Dynamic Fracture Energies of Bonded Beam Specimens. Journal of Adhesion, 2011, 87, 395-423.	1.8	23
57	Vibration Analysis of Curvilinearly Stiffened Composite Panel Subjected to In-Plane Loads. AIAA Journal, 2017, 55, 981-997.	1.5	23
58	Accelerated optimization of curvilinearly stiffened panels using deep learning. Thin-Walled Structures, 2021, 161, 107418.	2.7	23
59	Optimization and Postbuckling Analysis of Curvilinear-Stiffened Panels Under Multiple-Load Cases. Journal of Aircraft, 2010, 47, 1656-1671.	1.7	22
60	Force-exerting perpendicular lateral protrusions in fibroblastic cell contraction. Communications Biology, 2020, 3, 390.	2.0	22
61	Comparison of Simple and Chebychev Polynomials in Rayleigh-Ritz Analysis. Journal of Engineering Mechanics - ASCE, 1994, 120, 2126-2135.	1.6	21
62	Vibration Analysis of Curvilinearly-Stiffened Functionally Graded Plate Using Element Free Galerkin Method. Mechanics of Advanced Materials and Structures, 2012, 19, 100-108.	1.5	21
63	Flight-Dynamics and Flutter Modeling and Analyses of a Flexible Flying-Wing Drone - Invited. , 2016, , .		21
64	Multidisciplinary Design Analysis and Optimization of Performance Adaptive Aeroelastic Wings. , 2017, , .		21
65	Bilevel Programming Weight Minimization of Composite Flying-Wing Aircraft with Curvilinear Spars and Ribs. AIAA Journal, 2019, 57, 2594-2608.	1.5	21
66	Bioenergetics underlying single-cell migration on aligned nanofiber scaffolds. American Journal of Physiology - Cell Physiology, 2020, 318, C476-C485.	2.1	21
67	Multidisciplinary design optimization of a strut-braced wing transonic transport. , 2000, , .		20
68	Stochastic extended finite element implementation for fracture analysis of laminated composite plate with a central crack. Aerospace Science and Technology, 2017, 60, 131-151.	2.5	20
69	Rapid Transonic Flutter Analysis for Aircraft Conceptual Design Applications. AIAA Journal, 2018, 56, 2389-2402.	1.5	20
70	Single Cell Forces after Electroporation. ACS Nano, 2021, 15, 2554-2568.	7.3	20
71	A simple element for aeroelastic analysis of undamaged and damaged wings. AIAA Journal, 1990, 28, 329-337.	1.5	19
72	A new adaptive GMRES algorithm for achieving high accuracy. Numerical Linear Algebra With Applications, 1998, 5, 275-297.	0.9	19

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73	Thermoviscoelastic Analysis of Composite Structures Using a Triangular Flat Shell Element. AIAA Journal, 1999, 37, 238-247.	1.5	19
74	Interlaminar stress calculation in composite and sandwich plates in NURBS Isogeometric finite element analysis. Composite Structures, 2013, 106, 537-548.	3.1	19
75	Multidisciplinary Optimization of Supersonic Wing Structures Using Curvilinear Spars and Ribs (SpaRibs). , 2013, , .		19
76	Free Vibration of Curvilinearly Stiffened Shallow Shells. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.0	19
77	Control of Thermal Deformations of Spherical Mirror Segment. Journal of Spacecraft and Rockets, 1998, 35, 156-162.	1.3	18
78	Genetic Algorithms for Optimization of Piezoelectric Actuator Locations. AIAA Journal, 2001, 39, 1818-1822.	1.5	18
79	Transport Weight Reduction Through MDO: The Strut-Braced Wing Transonic Transport. , 2005, , .		18
80	Dynamic stability of laminated beams subjected to nonconservative loading. Thin-Walled Structures, 2008, 46, 1359-1369.	2.7	18
81	Placement Optimization of Distributed-Sensing Fiber Optic Sensors Using Genetic Algorithms. AIAA Journal, 2008, 46, 824-836.	1.5	18
82	Structural Design of a Truss Braced Wing: Potential and Challenges. , 2009, , .		18
83	A Multidisciplinary Design Optimization Framework for Design Studies of an Efficient Supersonic Air Vehicle. , 2012, , .		18
84	Optimal Energy Harvesting from a Membrane Attached to a Tensegrity Structure. AIAA Journal, 2014, 52, 307-319.	1.5	18
85	Comparative Assessment of Strut-Braced and Truss-Braced Wing Configurations Using Multidisciplinary Design Optimization. Journal of Aircraft, 2015, 52, 2009-2020.	1.7	18
86	Stochastic Fracture Response and Crack Growth Analysis of Laminated Composite Edge Crack Beams Using Extended Finite Element Method. International Journal of Applied Mechanics, 2017, 09, 1750061.	1.3	18
87	Component data assisted finite element model updating of composite flying-wing aircraft using multi-level optimization. Aerospace Science and Technology, 2019, 95, 105486.	2.5	18
88	Analyzing thermal buckling in curvilinearly stiffened composite plates with arbitrary shaped cutouts using isogeometric level set method. Aerospace Science and Technology, 2022, 121, 107350.	2.5	18
89	Comparative Study on Optimal Stiffener Placement for Curvilinearly Stiffened Panels. Journal of Aircraft, 2011, 48, 77-91.	1.7	17
90	Non-stationary random vibration analysis of multi degree systems using auto-covariance orthogonal decomposition. Journal of Sound and Vibration, 2016, 372, 147-167.	2.1	17

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91	Nonlinear static and transient finite element analysis of laminated beams. Composites Part B: Engineering, 1992, 2, 375-389.	0.6	16
92	Geometrically Nonlinear Shell Element for Hygrothermorheologically Simple Linear Viscoelastic Composites. AIAA Journal, 2000, 38, 2305-2319.	1.5	16
93	Free Vibration of Unsymmetrically Laminated Beams Having Uncertain Ply Orientations. AIAA Journal, 2002, 40, 2336-2344.	1.5	16
94	Load Updating for Finite Element Models. AIAA Journal, 2003, 41, 1667-1673.	1.5	16
95	Aeroelastic Optimization of Adaptive Bumps for Yaw Control. Journal of Aircraft, 2004, 41, 175-185.	1.7	16
96	Inositol polyphosphate multikinase is a metformin target that regulates cell migration. FASEB Journal, 2019, 33, 14137-14146.	0.2	16
97	Nonlinear impact response of thin imperfect laminated plates using a reduction method. Composites Part B: Engineering, 1992, 2, 391-410.	0.6	15
98	Parametric Studies of Flutter Speed in a Strut-Braced Wing. , 2002, , .		15
99	Development of Framework for Truss-Braced Wing Conceptual MDO. , 2010, , .		15
100	Nonstationary Random Vibration Analysis of Wing with Geometric Nonlinearity Under Correlated Excitation. Journal of Aircraft, 2018, 55, 2078-2091.	1.7	15
101	Ritz Approach for Buckling Prediction of Cracked-Stiffened Structures. Journal of Aircraft, 2013, 50, 965-974.	1.7	14
102	Equivalent constitutive behavior of sandwich cellular cores. Journal of Sandwich Structures and Materials, 2017, 19, 424-455.	2.0	14
103	Non-stationary random vibration analysis of structures under multiple correlated normal random excitations. Journal of Sound and Vibration, 2017, 400, 481-507.	2.1	14
104	Hybrid Optimization of Curvilinearly Stiffened Shells Using Parallel Processing. Journal of Aircraft, 2019, 56, 1068-1079.	1.7	14
105	Sensitivity Analysis of Aeroelastic Response of a Wing in Transonic Flow. AIAA Journal, 1994, 32, 350-356.	1.5	13
106	Computation of Actuation Power Requirements for Smart Wings with Morphing Airfoils. , 2002, , .		13
107	Reliability-Based Structural Optimization of an Elastic-Plastic Beam. AIAA Journal, 2003, 41, 1573-1582.	1.5	13
108	A New Approach for System Reliability-Based Design Optimization. , 2005, , .		13

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109	A Modified Fractional Calculus Approach to Model Hysteresis. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	1.1	13
110	Multifidelity, Multistrategy, and Multidisciplinary Design Optimization Environment. Journal of Aircraft, 2012, 49, 1255-1270.	1.7	13
111	Integrated Global Wing and Local Panel Optimization of Aircraft Wing. , 2015, , .		13
112	Aeroelastic Control-Oriented Modeling of an Airbreathing Hypersonic Vehicle. Journal of Guidance, Control, and Dynamics, 2018, 41, 1136-1149.	1.6	13
113	Modeling, Design, and Flight Testing of Three Flutter Controllers for a Flying-Wing Drone. Journal of Aircraft, 2020, 57, 615-634.	1.7	13
114	A sensitivity-based nonlinear finite element model updating method for nonlinear engineering structures. Applied Mathematical Modelling, 2021, 100, 632-655.	2.2	13
115	Vibrations of imperfect laminated panels under complex preloads. International Journal of Non-Linear Mechanics, 1992, 27, 51-62.	1.4	12
116	Flexible wing model for structural wing sizing and multidisciplinary design optimization of a strut-braced wing. , 2000, , .		12
117	Neural Networks for Inverse Problems in Damage Identification and Optical Imaging. AIAA Journal, 2003, 41, 732-740.	1.5	12
118	Development of Framework for the Design Optimization of Unitized Structures. , 2009, , .		12
119	Tradeoffs of Wing Weight and Lift/Drag in Design of Medium-Range Transport Aircraft. Journal of Aircraft, 2014, 51, 904-912.	1.7	12
120	Parametric Geometry Model for Design Studies of Tailless Supersonic Aircraft. Journal of Aircraft, 2014, 51, 1455-1466.	1.7	12
121	On the formulation of a high-order discontinuous finite element method based on orthogonal polynomials for laminated plate structures. International Journal of Mechanical Sciences, 2018, 149, 530-548.	3.6	12
122	Development of a multidisciplinary design optimization framework for an efficient supersonic air vehicle. Advances in Aircraft and Spacecraft Science, 2015, 2, 17-44.	0.5	12
123	Dynamic Response Analysis of Elevator Model. Journal of Structural Engineering, 1983, 109, 1194-1210.	1.7	11
124	Time Domain Random Wind Response of Cooling Tower. Journal of Engineering Mechanics - ASCE, 1984, 110, 1524-1543.	1.6	11
125	Static aeroelastic analysis of wings using Euler/Navier-Stokes equations coupled with improved wing-box finite element structures. , 1994, , .		11
126	Study of Direct-Measuring Skin-Friction Gauge with Rubber Sheet for Damping. AIAA Journal, 2002, 40, 50-57.	1.5	11

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127	Analytical Modeling of Cracked Thin-Walled Beams Under Torsion. AIAA Journal, 2010, 48, 664-675.	1.5	11
128	Curvilinearly T-Stiffened Panel-Optimization Framework Under Multiple Load Cases Using Parallel Processing. Journal of Aircraft, 2013, 50, 1540-1554.	1.7	11
129	Parameterization of Curvilinear Spars and Ribs for Optimum Wing Structural Design. Journal of Aircraft, 2014, 51, 532-546.	1.7	11
130	Structural Optimization of Internal Structure of Aircraft Wings with Curvilinear Spars and Ribs. Journal of Aircraft, 2019, 56, 707-718.	1.7	11
131	Controllability Gramian as Control Design Objective in Aircraft Structural Design Optimization. AIAA Journal, 2020, 58, 3199-3220.	1.5	11
132	Analytical shape sensitivities and approximations of modal response of generally laminated tapered skew plates. , 1992, , .		11
133	Shape Sensitivity Analysis of Flutter Response of a Laminated Wing. AIAA Journal, 1991, 29, 611-612.	1.5	10
134	Sensitivity analysis of a wing aeroelastic response. Journal of Aircraft, 1993, 30, 496-504.	1.7	10
135	Nonlinear Transient Response and Second-Order Sensitivity Using Time Finite Element Method. AIAA Journal, 1999, 37, 613-622.	1.5	10
136	Algorithm Development for Optimization of Arbitrary Geometry Panels using Curvilinear Stiffeners. , 2010, , .		10
137	Progress Towards Multidisciplinary Design Optimization of Truss Braced Wing Aircraft with Flutter Constraints. , 2010, , .		10
138	A Hybrid Optimization Strategy Using Design-Space Evolution and POD-based Order Reduction. , 2012, , .		10
139	Nonlinear Aeroelastic Analysis of a Truss Based Wing Aircraft. , 2014, , .		10
140	Multi-objective vibro-acoustic optimization of stiffened panels. Structural and Multidisciplinary Optimization, 2015, 51, 835-848.	1.7	10
141	Aeroservoelastic Optimization of Wing Structure Using Curvilinear Spars and Ribs (SpaRibs). , 2016, , .		10
142	Global-local Aeroelastic Optimization of Internal Structure of Transport Aircraft wing. , 2017, , .		10
143	Static Aeroelastic Optimization of Aircraft Wing with Multiple Surfaces. , 2017, , .		10
144	Finite Element Model Updating of Composite Flying-wing Aircraft using Global/Local Optimization. , 2019, , .		10

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145	Flight-Dynamics and Flutter Analysis and Control of an MDAO-Designed Flying-Wing Research Drone. , 2019, , .		10
146	Influence of large-deflection effects on the impact response of flat and curved composite plates. , 1995, , .		9
147	Neural Networks for Inverse Problems Using Principal Component Analysis and Orthogonal Arrays. AIAA Journal, 2006, 44, 1628-1634.	1.5	9
148	Optimization of Stiffened Electron Beam Freeform Fabrication (EBF3) panels using Response Surface Approaches. , 2007, , .		9
149	Dynamic stability of uncertain laminated beams subjected to subtangential loads. International Journal of Solids and Structures, 2008, 45, 2799-2817.	1.3	9
150	Compression After Impact on Honeycomb Core Sandwich Panels with Thin Facesheets, Part 1: Experiments. , 2012, , .		9
151	Solution of Nonlinear Vibration Problem of a Prestressed Membrane by Adomian Decomposition. AIAA Journal, 2012, 50, 1796-1800.	1.5	9
152	Global/Local Multidisciplinary Design Optimization of Subsonic Wing. , 2014, , .		9
153	Accurate rigid-body modes representation for a nonlinear curved thin-shell element. AIAA Journal, 1989, 27, 211-218.	1.5	8
154	Shape sensitivity analysis of flutter response of a laminated wing. , 1989, , .		8
155	Structural and aeroelastic modeling of general planform UCAV wings with morphing airfoils. , 2001, , .		8
156	<title>Comments on prospects of fully adaptive aircraft wings</title>. , 2001, , .		8
157	Optimal Design of Unitized Structures with Curvilinear Stiffeners Using Response Surface Methodology. , 2008, , .		8
158	Imposing boundary conditions in Sinc method using highest derivative approximation. Journal of Computational and Applied Mathematics, 2009, 230, 371-392.	1.1	8
159	Multidisciplinary Design Optimization of a Truss Braced Wing Aircraft. , 2009, , .		8
160	Grid-Stiffened Panel Optimization Using Curvilinear Stiffeners. , 2011, , .		8
161	Multidisciplinary Design Optimization of Medium-Range Transonic Truss-Braced Wing Aircraft with Flutter Constraint. , 2013, , .		8
162	Hybrid Optimization Framework with Proper-Orthogonal-Decomposition-Based Order Reduction and Design-Space Evolution Scheme. Journal of Aircraft, 2013, 50, 1776-1786.	1.7	8

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163	Compression After Impact Experiments on Thin Face Sheet Honeycomb Core Sandwich Panels. Journal of Spacecraft and Rockets, 2014, 51, 253-266.	1.3	8
164	Global-Local Analysis of Composite Plate with Thin Notch. Journal of Aircraft, 2014, 51, 967-974.	1.7	8
165	Reevaluating conceptual design fidelity: An efficient supersonic air vehicle design case. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 581-598.	0.7	8
166	BLP Optimization of Composite Flying-wings with SpaRibs and Multiple Control Surfaces. , 2018, , .		8
167	ALGA: Active Learning-Based Genetic Algorithm for Accelerating Structural Optimization. AIAA Journal, 2021, 59, 330-344.	1.5	8
168	Vibration of Curvilinearly Stiffened Plates Using Ritz Method With Orthogonal Jacobi Polynomials. Journal of Vibration and Acoustics, Transactions of the ASME, 2020, 142, .	1.0	8
169	Failure of Hexagonal and Triangular Honeycomb Core Sandwich Panels. AIAA Journal, 2020, 58, 4923-4940.	1.5	8
170	Stability of wind-loaded cylindrical shells. Journal of Wind Engineering and Industrial Aerodynamics, 1988, 28, 281-290.	1.7	7
171	Free Vibration of Thick Generally Laminated Quadrilateral Plates Having Arbitrarily Located Point Supports. Journal of Aircraft, 1998, 35, 958-965.	1.7	7
172	Effect of compressive force on strut-braced wing response. , 2001, , .		7
173	A Simple Homogenization of Degraded Micro-Cracked Plain Woven and Braided Textile Composites. , 2006, , .		7
174	Nonlinear Response of Highly Flexible Structures to Air Blast Loads: Application Shelters. AIAA Journal, 2006, 44, 2034-2042.	1.5	7
175	Dynamic Fracture Analysis of Adhesively Bonded Joints Using Explicit Methods. AIAA Journal, 2007, 45, 2778-2784.	1.5	7
176	Flight Dynamics and Structural Load Distribution for a Damaged Aircraft. , 2009, , .		7
177	Generalized Linear Random Vibration Analysis Using Autocovariance Orthogonal Decomposition. AIAA Journal, 2010, 48, 1652-1661.	1.5	7
178	Ritz analysis of discontinuous beams using local trigonometric functions. Computational Mechanics, 2011, 47, 235-250.	2.2	7
179	Towards Flying Qualities Constraints in the Multidisciplinary Design Optimization of a Supersonic Tailless Aircraft. , 2012, , .		7
180	An Artificial Neural Network Residual Kriging Based Surrogate Model for Shape and Size Optimization of a Stiffened Panel. , 2013, , .		7

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181	Multidisciplinary Design Optimization of Subsonic Strut-Braced Wing Aircraft. , 2014, , .		7
182	Transonic Aerodynamics Analysis for Multidisciplinary Design Optimization Applications. , 2016, , .		7
183	Free Vibration Analysis of Integrally Stiffened Plates with Plate-Strip Stiffeners. AIAA Journal, 2016, 54, 1107-1119.	1.5	7
184	Conceptual Design of Complex Transonic Aircraft Configurations with Flutter Prediction. , 2017, , .		7
185	Finite Element Model Updating of A Small Flexible Composite UAV. , 2017, , .		7
186	Thermal buckling analysis of periodically supported composite beams using Isogeometric analysis. , 2018, , .		7
187	Optimal Design of Tow-Steered Composite Laminates with Curvilinear Stiffeners. , 2018, , .		7
188	Stochastic critical stress intensity factor response of single edge notched laminated composite plate using displacement correlation method. Mechanics of Advanced Materials and Structures, 2020, 27, 1223-1237.	1.5	7
189	Geometrically nonlinear impact response of thin laminated imperfect cylindrical panels. Composites Part B: Engineering, 1994, 4, 397-416.	0.6	6
190	Sensitivity of flutter response of a wing to shape and modal parameters. AIAA Journal, 1995, 33, 1983-1986.	1.5	6
191	Aeroelastic analysis of modern complex wings. , 1996, , .		6
192	Aeroelastic Sensitivity Analysis of Wings. AIAA Journal, 1997, 35, 519-525.	1.5	6
193	Equivalent Skin Analysis of Wing Structures Using Neural Networks. AIAA Journal, 2001, 39, 1390-1399.	1.5	6
194	Probability of Failure of Composite Cylinders Subjected to Axisymmetric Loading. AIAA Journal, 2005, 43, 1342-1348.	1.5	6
195	Stochastic Eigenvalue Problem with Polynomial Chaos. , 2006, , .		6
196	Parametric Geometry Model for Multidisciplinary Design Optimization of Tailless Supersonic Aircraft. , 2012, , .		6
197	Analysis of a Thin-walled Beam with a Crack of Random Location and Size. AIAA Journal, 2012, 50, 1265-1280.	1.5	6
198	Accurate Computing of Higher Vibration Modes of Thin Flexible Structures. AIAA Journal, 2016, 54, 1704-1718.	1.5	6

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199	Aeroelastic Applications of a Variable-Geometry Raked Wingtip. Journal of Aircraft, 2017, 54, 62-74.	1.7	6
200	Optimal Design of Curvilinearly Stiffened Shells. , 2017, , .		6
201	A Framework for Damage Tolerance and Optimization of Stiffened Panels. , 0, , .		6
202	A CFD/CSD interaction methodology for aircraft wings. , 1998, , .		5
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434	Intelligent Support System for Mixed Fidelity Finite Element Modeling Error Prediction using Decision Trees and Fuzzy Logic Classifier. , 2022, , .		0
435	Thermo-Mechanical Analysis of Residual Stresses and Distortions of Models Fabricated Using Additive Manufacturing. , 2022, , .		0
436	Parametric Model Order Reduction for Buckling Constraint Evaluation in Structural Optimization. , 2022, , .		0