

Michael S Selig

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,645
citations

361413

20
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

822
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of leading edge erosion on wind turbine blade performance. Wind Energy, 2014, 17, 1531-1542.	4.2	200
2	High-Lift Low Reynolds Number Airfoil Design. Journal of Aircraft, 1997, 34, 72-79.	2.4	169
3	Wind Tunnel Aerodynamic Tests of Six Airfoils for Use on Small Wind Turbines. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 986-1001.	1.8	132
4	Multipoint inverse airfoil design method based on conformal mapping. AIAA Journal, 1992, 30, 1162-1170.	2.6	98
5	Generalized multipoint inverse airfoil design. AIAA Journal, 1992, 30, 2618-2625.	2.6	84
6	Reynolds Number Effects on the Performance of Small-Scale Propellers. , 2014, , .		84
7	Design of Low Reynolds Number Airfoils with Trips. Journal of Aircraft, 2003, 40, 768-775.	2.4	56
8	Low-Speed Natural-Laminar-Flow Airfoils: Case Study in Inverse Airfoil Design. Journal of Aircraft, 2001, 38, 57-63.	2.4	51
9	Natural-laminar-flow airfoil for general-aviation applications. Journal of Aircraft, 1995, 32, 710-715.	2.4	47
10	Drag Reduction Using Riblet Film Applied to Airfoils for Wind Turbines. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.8	47
11	Real-Time Flight Simulation of Highly Maneuverable Unmanned Aerial Vehicles. Journal of Aircraft, 2014, 51, 1705-1725.	2.4	43
12	Downwind pre-aligned rotors for extreme-scale wind turbines. Wind Energy, 2017, 20, 1241-1259.	4.2	41
13	Dynamic Soaring of Sailplanes over Open Fields. Journal of Aircraft, 2013, 50, 1420-1430.	2.4	39
14	Control co-design of 13 MW downwind two-bladed rotors to achieve 25% reduction in levelized cost of wind energy. Annual Reviews in Control, 2021, 51, 331-343.	7.9	36
15	Aerodynamic effects of leading-edge tape on aerofoils at low Reynolds numbers. Wind Energy, 1999, 2, 125-136.	4.2	35
16	Simplified linear stability transition prediction method for separated boundary layers. AIAA Journal, 1992, 30, 1953-1961.	2.6	34
17	Spanwise variations in profile drag for airfoils at low Reynolds numbers. Journal of Aircraft, 1996, 33, 699-707.	2.4	34
18	Effects of Leading-Edge Protection Tape on Wind Turbine Blade Performance. Wind Engineering, 2012, 36, 525-534.	1.9	34

#	ARTICLE	IF	CITATIONS
19	Downwind coning concept rotor for a 25 MW offshore wind turbine. <i>Renewable Energy</i> , 2020, 156, 314-327.	8.9	28
20	Hybrid Airfoil Design Procedure Validation for Full-Scale Ice Accretion Simulation. <i>Journal of Aircraft</i> , 1999, 36, 769-776.	2.4	26
21	Design of Subscale Airfoils with Full-Scale Leading Edges for Ice Accretion Testing. <i>Journal of Aircraft</i> , 1997, 34, 94-100.	2.4	24
22	A low-power architecture for high frequency sensor acquisition in many-DOF UAVs. , 2014, , .		24
23	System-level design studies for large rotors. <i>Wind Energy Science</i> , 2019, 4, 595-618.	3.3	24
24	Multipoint inverse design of an infinite cascade of airfoils. <i>AIAA Journal</i> , 1994, 32, 774-782.	2.6	19
25	Multipoint Inverse Method for Multielement Airfoil Design. <i>Journal of Aircraft</i> , 1998, 35, 398-404.	2.4	19
26	Simulation of Damage for Wind Turbine Blades Due to Airborne Particles. <i>Wind Engineering</i> , 2015, 39, 399-418.	1.9	19
27	Hybrid Airfoil Design Method to Simulate Full-Scale Ice Accretion Throughout a Given a Range. <i>Journal of Aircraft</i> , 1998, 35, 233-239.	2.4	17
28	Aero-structural design and optimization of 50%MW wind turbine with over 250-m blades. <i>Wind Engineering</i> , 2022, 46, 273-295.	1.9	17
29	Hybrid Inverse Airfoil Design Method for Complex Three-Dimensional Lifting Surfaces. <i>Journal of Aircraft</i> , 2002, 39, 409-417.	2.4	16
30	Multipoint inverse airfoil design method for slot-suction airfoils. <i>Journal of Aircraft</i> , 1996, 33, 708-715.	2.4	14
31	Design of Bird-Like Airfoils. , 2018, , .		14
32	Freestream Velocity Corrections for Two-Dimensional Testing with Splitter Plates. <i>AIAA Journal</i> , 1997, 35, 1195-1200.	2.6	13
33	Modeling Micro Air Vehicle Aerodynamics in Unsteady High Angle-of-Attack Flight. <i>Journal of Aircraft</i> , 2017, 54, 1064-1075.	2.4	13
34	Design and Testing of a Scaled Demonstrator Turbine at the National Wind Technology Center. , 2019, , .		12
35	A Simulation of Operational Damage for Wind Turbine Blades. , 2014, , .		10
36	Determining Aerodynamic Characteristics of a Micro Air Vehicle Using Motion Tracking. <i>Journal of Aircraft</i> , 2013, 50, 1481-1490.	2.4	8

#	ARTICLE	IF	CITATIONS
37	A Damage Assessment for Wind Turbine Blades from Heavy Atmospheric Particles. , 2015, , .		8
38	Simulation of Damage Progression on Wind Turbine Blades Subject to Particle Erosion. , 2016, , .		8
39	Design Methodology for a Dynamically-Scaled General Aviation Aircraft. , 2017, , .		8
40	Aerodynamic Design of the 13.2 MW SUMR-13i Wind Turbine Rotor. , 2018, , .		8
41	Design of a 2-D Fairing for a Wind Turbine Tower. , 2013, , .		6
42	Optimization of Wind Turbine Airfoils Subject to Particle Erosion. , 2015, , .		6
43	Development of an Aerodynamic Analysis Methodology for Segmented Ultralight Morphing Rotors. , 2017, , .		5
44	Hybrid Inverse Design Method for Nonlifting Bodies in Incompressible Flow. Journal of Aircraft, 2006, 43, 1770-1781.	2.4	4
45	Subscale Testing of Horizontal-Axis Wind Turbines. , 2017, , .		3
46	Design Methodology for Aerodynamically Scaling of a General Aviation Aircraft Airfoil. , 2018, , .		3
47	Correction: Aerodynamic Design of the 13.2 MW SUMR-13i Wind Turbine Rotor. , 2018, , .		3
48	Design of Airfoils to Mitigate Wake Bursting. , 2017, , .		1
49	Active rotor coning for a 25 MW downwind offshore wind turbine. Journal of Physics: Conference Series, 2022, 2265, 032022.	0.4	1
50	Multielement Airfoils for Wind Turbines. , 2017, , 203-219.		0