

Stéphane Moreau

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6848666/publications.pdf>

Version: 2024-02-01

319
papers

5,902
citations

101384

36
h-index

118652

62
g-index

322
all docs

322
docs citations

322
times ranked

1767
citing authors

#	ARTICLE	IF	CITATIONS
1	Back-scattering correction and further extensions of Amiet's trailing-edge noise model. Part 1: theory. <i>Journal of Sound and Vibration</i> , 2005, 286, 477-506.	2.1	351
2	Wall-Pressure Spectral Model Including the Adverse Pressure Gradient Effects. <i>AIAA Journal</i> , 2012, 50, 2168-2179.	1.5	154
3	Broadband Self Noise from Loaded Fan Blades. <i>AIAA Journal</i> , 2004, 42, 536-544.	1.5	144
4	Extensions and limitations of analytical airfoil broadband noise models. <i>International Journal of Aeroacoustics</i> , 2010, 9, 273-305.	0.8	133
5	Solution of the quasi-one-dimensional linearized Euler equations using flow invariants and the Magnus expansion. <i>Journal of Fluid Mechanics</i> , 2013, 723, 190-231.	1.4	130
6	Back-scattering correction and further extensions of Amiet's trailing-edge noise model. Part II: Application. <i>Journal of Sound and Vibration</i> , 2009, 323, 397-425.	2.1	129
7	Analysis of Flow Conditions in Freejet Experiments for Studying Airfoil Self-Noise. <i>AIAA Journal</i> , 2003, 41, 1895-1905.	1.5	123
8	Effect of Airfoil Aerodynamic Loading on Trailing Edge Noise Sources. <i>AIAA Journal</i> , 2005, 43, 41-52.	1.5	112
9	Competing Broadband Noise Mechanisms in Low-Speed Axial Fans. <i>AIAA Journal</i> , 2007, 45, 48-57.	1.5	104
10	Fuel injection model for Euler-Euler and Euler-Lagrange large-eddy simulations of an evaporating spray inside an aeronautical combustor. <i>International Journal of Multiphase Flow</i> , 2011, 37, 514-529.	1.6	104
11	New ferrocenic pyrrolo[1,2-a]quinoxaline derivatives: Synthesis, and in vitro antimalarial activity. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9133-9144.	1.4	102
12	New ferrocenic pyrrolo[1,2-a]quinoxaline derivatives: Synthesis, and in vitro antimalarial activity Part II. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 2310-2326.	2.6	98
13	Broadband noise prediction of fan outlet guide vane using a cascade response function. <i>Journal of Sound and Vibration</i> , 2011, 330, 6153-6183.	2.1	90
14	LES Prediction of Wall-Pressure Fluctuations and Noise of a Low-Speed Airfoil. <i>International Journal of Aeroacoustics</i> , 2009, 8, 177-197.	0.8	85
15	Effect of Angle of Attack and Airfoil Shape on Turbulence-Interaction Noise. , 2005, , .		84
16	Synthesis and evaluation of the antiproliferative activity of novel pyrrolo[1,2-a]quinoxaline derivatives, potential inhibitors of Akt kinase. Part II. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2010, 25, 204-215.	2.5	75
17	Rotating Blade Trailing-Edge Noise: Experimental Validation of Analytical Model. <i>AIAA Journal</i> , 2010, 48, 951-962.	1.5	74
18	Numerical and analytical modelling of entropy noise in a supersonic nozzle with a shock. <i>Journal of Sound and Vibration</i> , 2011, 330, 3944-3958.	2.1	74

#	ARTICLE	IF	CITATIONS
19	An overset grid method for large eddy simulation of turbomachinery stages. <i>Journal of Computational Physics</i> , 2014, 274, 333-355.	1.9	69
20	Turbulent boundary layer trailing-edge noise: Theory, computation, experiment, and application. <i>Progress in Aerospace Sciences</i> , 2021, 126, 100737.	6.3	68
21	Sub-harmonic broadband humps and tip noise in low-speed ring fans. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 118-127.	0.5	66
22	On a uniformly valid analytical rectilinear cascade response function. <i>Journal of Fluid Mechanics</i> , 2010, 663, 22-52.	1.4	63
23	On the use of a uniformly valid analytical cascade response function for fan broadband noise predictions. <i>Journal of Sound and Vibration</i> , 2010, 329, 3721-3743.	2.1	58
24	Analytical and Numerical Study of Combustion Noise Through a Subsonic Nozzle. <i>AIAA Journal</i> , 2013, 51, 42-52.	1.5	58
25	On the role of turbulence distortion on leading-edge noise reduction by means of porosity. <i>Journal of Sound and Vibration</i> , 2020, 485, 115561.	2.1	58
26	Noise Source Analysis of a Rod Airfoil Configuration Using Unstructured Large-Eddy Simulation. <i>AIAA Journal</i> , 2015, 53, 1062-1077.	1.5	57
27	Large Eddy Simulation of a scale-model turbofan for fan noise source diagnostic. <i>Journal of Sound and Vibration</i> , 2019, 445, 64-76.	2.1	55
28	Subsonic Jet Noise Simulations Using Both Structured and Unstructured Grids. <i>AIAA Journal</i> , 2015, 53, 55-69.	1.5	52
29	Turbomachinery Noise Predictions: Present and Future. <i>Acoustics</i> , 2019, 1, 92-116.	0.8	52
30	Design, synthesis and antimalarial activity of novel bis[<i>N</i> -[(pyrrolo[1,2- <i>a</i>]quinoxalin-4-yl)benzyl]-3-aminopropyl]amine derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 547-563.	2.5	51
31	Subharmonic tonal noise from backflow vortices radiated by a low-speed ring fan in uniform inlet flow. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 228-237.	0.5	48
32	Flow Features and Self-Noise of Airfoils Near Stall or in Stall. , 2009, , .		46
33	Large Eddy Simulation of Supersonic Impinging Jets. <i>AIAA Journal</i> , 2012, 50, 1560-1574.	1.5	45
34	Rotating coherent flow structures as a source for narrowband tip clearance noise from axial fans. <i>Journal of Sound and Vibration</i> , 2018, 417, 198-215.	2.1	45
35	Large-Eddy Simulation and Conjugate Heat Transfer Around a Low-Mach Turbine Blade. <i>Journal of Turbomachinery</i> , 2014, 136, .	0.9	44
36	On vortex airfoil interaction noise including span-end effects, with application to open-rotor aeroacoustics. <i>Journal of Sound and Vibration</i> , 2014, 333, 283-306.	2.1	43

#	ARTICLE	IF	CITATIONS
37	Analytical models of the wall-pressure spectrum under a turbulent boundary layer with adverse pressure gradient. <i>Journal of Fluid Mechanics</i> , 2019, 877, 1007-1062.	1.4	41
38	Trailing Edge Noise of a Controlled-Diffusion Airfoil at Moderate and High Angle of Attack. , 2009, , .		39
39	Computation of Wall Pressure Spectra from Steady Flow Data for Noise Prediction. <i>AIAA Journal</i> , 2010, 48, 1997-2007.	1.5	39
40	Combining LES of combustion chamber and an actuator disk theory to predict combustion noise in a helicopter engine. <i>Combustion and Flame</i> , 2016, 165, 272-287.	2.8	37
41	Synthesis and evaluation of the cytotoxic activity of novel ethyl 4-[4-(4-substitutedpiperidin-1-yl)]benzyl-phenylpyrrolo[1,2-a]quinoxaline-carboxylate derivatives in myeloid and lymphoid leukemia cell lines. <i>European Journal of Medicinal Chemistry</i> , 2016, 113, 214-227.	2.6	37
42	Advanced noise modeling for future propulsion systems. <i>International Journal of Aeroacoustics</i> , 2018, 17, 576-599.	0.8	37
43	Large-Eddy Simulation and Trailing-Edge Noise Prediction of an Airfoil with Boundary-Layer Tripping. , 2009, , .		36
44	Calorimetric analysis of polymer behaviour using a pixel calibration of an IRFPA camera. <i>Quantitative InfraRed Thermography Journal</i> , 2005, 2, 153-171.	2.1	35
45	Prediction of tonal ducted fan noise. <i>Journal of Sound and Vibration</i> , 2016, 372, 105-132.	2.1	35
46	Direct aeroacoustics predictions of a low speed axial fan. , 2010, , .		33
47	Numerical and analytical investigation of the indirect combustion noise in a nozzle. <i>Comptes Rendus - Mecanique</i> , 2009, 337, 415-425.	2.1	31
48	Direct numerical simulation of acoustic reduction using serrated trailing-edge on an isolated airfoil. , 2014, , .		30
49	Synthesis and Antiproliferative Effect of Ethyl 4-[(4-substituted) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (Piperidin-1-yl)]benzyl-phenylpyrrolo[1,2-a]quinoxaline-carboxylate derivatives. <i>ChemMedChem</i> , 2017, 12, 940-953.	1.6	30
50	Modal analysis of the laminar boundary layer instability and tonal noise of an airfoil at Reynolds number 150,000. <i>International Journal of Aeroacoustics</i> , 2019, 18, 317-350.	0.8	30
51	Uncertainty Quantification for the Trailing-Edge Noise of a Controlled-Diffusion Airfoil. <i>AIAA Journal</i> , 2015, 53, 42-54.	1.5	29
52	Airfoil Trailing-Edge Blowing: Broadband Noise Prediction from Large-Eddy Simulation. <i>AIAA Journal</i> , 2012, 50, 294-303.	1.5	28
53	Symmetry breaking of azimuthal thermoacoustic modes: the UQ perspective. <i>Journal of Fluid Mechanics</i> , 2016, 789, 534-566.	1.4	28
54	Transmission and reflection of acoustic and entropy waves through a stator-rotor stage. <i>Journal of Sound and Vibration</i> , 2016, 374, 260-278.	2.1	28

#	ARTICLE	IF	CITATIONS
55	A characteristic inlet boundary condition for compressible, turbulent, multispecies turbomachinery flows. <i>Computers and Fluids</i> , 2019, 178, 41-55.	1.3	28
56	Experimental investigation of the interplay between the sound field and the flow field in skewed low-pressure axial fans. <i>Journal of Sound and Vibration</i> , 2019, 442, 220-236.	2.1	28
57	Assessment of combustion noise in a premixed swirled combustor via Large-Eddy Simulation. <i>Computers and Fluids</i> , 2013, 78, 1-9.	1.3	27
58	On sound scattering by rigid edges and wedges in a flow, with applications to high-lift device aeroacoustics. <i>Journal of Sound and Vibration</i> , 2016, 362, 252-275.	2.1	27
59	Isothermal and heated subsonic jet noise using large eddy simulations on unstructured grids. <i>Computers and Fluids</i> , 2018, 171, 166-192.	1.3	27
60	The third golden age of aeroacoustics. <i>Physics of Fluids</i> , 2022, 34, .	1.6	27
61	Vortex-Shedding Noise and Potential-Interaction Noise Modeling by a Reversed Sears' Problem. , 2006, , .		26
62	Tonal noise of a controlled-diffusion airfoil at low angle of attack and Reynolds number. <i>Journal of the Acoustical Society of America</i> , 2016, 140, EL113-EL118.	0.5	26
63	Direct noise prediction and control of an installed large low-speed radial fan. <i>European Journal of Mechanics, B/Fluids</i> , 2017, 61, 235-243.	1.2	26
64	Broadband fan noise prediction using single-airfoil theory. <i>Noise Control Engineering Journal</i> , 2006, 54, 5-14.	0.2	25
65	A 3D analytical model for orthogonal blade-vortex interaction noise. <i>Journal of Sound and Vibration</i> , 2017, 399, 104-123.	2.1	25
66	Trailing-edge broadband noise prediction of an airfoil with boundary-layer tripping. <i>Journal of Sound and Vibration</i> , 2020, 482, 115450.	2.1	25
67	Amiet's Theory in Spanwise-Varying Flow Conditions. <i>AIAA Journal</i> , 2009, 47, 788-790.	1.5	24
68	Aeroacoustic study of an axial engine cooling module using lattice-Boltzmann simulations and the Ffowcs Williams and Hawkings's™ analogy. <i>European Journal of Mechanics, B/Fluids</i> , 2017, 61, 244-254.	1.2	24
69	Experimental and Analytical Investigation of the Tonal Trailing-Edge Noise Radiated by Low Reynolds Number Aerofoils. <i>Acoustics</i> , 2020, 2, 293-329.	0.8	24
70	Assessment of the Indirect Combustion Noise Generated in a Transonic High-Pressure Turbine Stage. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .	0.5	23
71	Fast and accurate analytical modeling of broadband noise for a low-speed fan. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 3103-3113.	0.5	23
72	Effects of pressure gradient on the evolution of velocity-gradient tensor invariant dynamics on a controlled-diffusion aerofoil at. <i>Journal of Fluid Mechanics</i> , 2019, 868, 584-610.	1.4	23

#	ARTICLE	IF	CITATIONS
73	Simulation and modelling of the waves transmission and generation in a stator blade row in a combustion-noise framework. <i>Journal of Sound and Vibration</i> , 2014, 333, 6090-6106.	2.1	22
74	Aeroacoustic Simulations of a Simplified High-Lift Device Accounting for Some Installation Effects. <i>AIAA Journal</i> , 2017, 55, 774-789.	1.5	22
75	Natural and Forced Conjugate Heat Transfer in Complex Geometries on Cartesian Adapted Grids. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006, 128, 838-846.	0.8	21
76	On a two-dimensional mode-matching technique for sound generation and transmission in axial-flow outlet guide vanes. <i>Journal of Sound and Vibration</i> , 2017, 403, 190-213.	2.1	21
77	Tonal-Noise Assessment of Quadrotor-Type UAV Using Source-Mode Expansions. <i>Acoustics</i> , 2020, 2, 674-690.	0.8	21
78	Detailed experimental investigation of the aeroacoustic field around a Controlled-Diffusion airfoil. , 2015, , .		20
79	Direct Noise Computation of Low-speed Ring Fans. <i>Acta Acustica United With Acustica</i> , 2019, 105, 30-42.	0.8	20
80	Addendum to the back-scattering correction of Amiet's trailing-edge noise model. <i>Journal of Sound and Vibration</i> , 2012, 331, 5383-5385.	2.1	19
81	On the use of two-point velocity correlation in wall-pressure models for turbulent flow past a trailing edge under adverse pressure gradient. <i>Physics of Fluids</i> , 2020, 32, .	1.6	19
82	Identification of Noise Sources in a Realistic Turbofan Rotor Using Large Eddy Simulation. <i>Acoustics</i> , 2020, 2, 691-706.	0.8	19
83	Predicting the propagation of acoustic waves using deep convolutional neural networks. <i>Journal of Sound and Vibration</i> , 2021, 512, 116285.	2.1	19
84	Rapid distortion theory of turbulent flow around a porous cylinder. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	18
85	On the Use of Embedded Meshes in the LES of External Flows. <i>Flow, Turbulence and Combustion</i> , 2008, 80, 393-403.	1.4	17
86	Airfoil Trailing Edge Noise Prediction from Large-Eddy Simulation: Influence of Grid Resolution and Noise Model Formulation. , 2010, , .		17
87	Reproduction of random pressure fields based on planar nearfield acoustic holography. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 3885-3899.	0.5	17
88	Numerical Simulation of Aerodynamic Instabilities in a Multistage High-Speed High-Pressure Compressor on Its Test-Rig Part I: Rotating Stall. <i>Journal of Turbomachinery</i> , 2014, 136, .	0.9	17
89	Noise mechanisms in a transonic high-pressure turbine stage. <i>International Journal of Aeroacoustics</i> , 2016, 15, 144-161.	0.8	17
90	One, no One and One Hundred Thousand Methods for Low-Speed Fan Noise Prediction. <i>International Journal of Aeroacoustics</i> , 2010, 9, 307-327.	0.8	16

#	ARTICLE	IF	CITATIONS
91	Direct self-noise simulation of the installed Controlled Diffusion airfoil. , 2011, , .		16
92	Prediction of the sound generated by a rod-airfoil configuration using a compressible unstructured LES solver and a FW-H analogy. , 2012, , .		16
93	Optimal design of an automotive fan using the Turbâ€™Opty meta-model. Computers and Fluids, 2013, 80, 207-213.	1.3	16
94	Experimental vibroacoustic testing of plane panels using synthesized random pressure fields. Journal of the Acoustical Society of America, 2014, 135, 3434-3445.	0.5	16
95	Tonal noise prediction and validation on the ANCF rotor-stator configuration. Noise Control Engineering Journal, 2015, 63, 552-562.	0.2	16
96	Tonal Noise Prediction of a Modern Turbofan Engine With Large Upstream and Downstream Distortion. Journal of Turbomachinery, 2019, 141, .	0.9	16
97	Fan-OGV Broadband Noise Prediction Using a Cascade Response. , 2009, , .		15
98	Effect of Rotor Shielding on Fan-Outlet Guide Vanes Broadband Noise Prediction. AIAA Journal, 2013, 51, 1576-1592.	1.5	15
99	Effects of Subgrid Scale Modeling on the Deterministic and Stochastic Turbulent Energetic Distribution in Large-Eddy Simulations of a High-Pressure Turbine Stage. Journal of Turbomachinery, 2016, 138, .	0.9	15
100	Fan-OGV interaction broadband noise prediction in a rigid annular duct with swirling and sheared mean flow. , 2016, , .		15
101	Azimuthal mode analysis of broadband shock-associated noise in an under-expanded axisymmetric jet. Journal of Sound and Vibration, 2019, 449, 64-83.	2.1	15
102	Identification of temporal and spatial signatures of broadband shock-associated noise. Shock Waves, 2019, 29, 117-134.	1.0	15
103	Optimization of trailing-edge serrations with and without slits for broadband noise reduction. Journal of Sound and Vibration, 2021, 490, 115736.	2.1	15
104	Prediction of LAGOON landing-gear noise using an unstructured LES Solver. , 2013, , .		14
105	Unstructured LES of the baseline EXEJET dual-stream jet. , 2014, , .		14
106	Extension of a Fan Tonal Noise Cascade Model for Camber Effects. AIAA Journal, 2015, 53, 863-876.	1.5	14
107	Large-Eddy Simulation of a Single Airfoil Tip-Leakage Flow. AIAA Journal, 2021, 59, 2546-2557.	1.5	14
108	Evaluating CFD Models of Axial Fans by Comparisons with Phase-Averaged Experimental Data. , 0, , .		13

#	ARTICLE	IF	CITATIONS
109	Analysis of thermoelastic effects accompanying the deformation of PMMA and PC polymers. Comptes Rendus - Mecanique, 2005, 333, 648-653.	2.1	13
110	Jet noise simulation with realistic nozzle geometries using fully unstructured LES solver. , 2012, , .		13
111	Measurement of the wavenumber-frequency spectrum of wall pressure fluctuations: spiral-shaped rotative arrays with pinhole-mounted quarter inch microphones. , 2013, , .		13
112	Efficient optimisation procedure for design problems in fluid mechanics. Computers and Fluids, 2013, 82, 73-86.	1.3	13
113	Prediction of Noise Sources in Axial Compressor from URANS Simulation. Journal of Propulsion and Power, 2014, 30, 1257-1271.	1.3	13
114	Uncertainty Quantification of Thermoacoustic Instabilities in a Swirled Stabilized Combustor. , 2015, , .		13
115	Large Eddy Simulation of a scale-model turbofan for fan noise source diagnostic. , 2016, , .		13
116	Numerical analysis of a high-order unstructured overset grid method for compressible LES of turbomachinery. Journal of Computational Physics, 2018, 363, 371-398.	1.9	13
117	On the noise generated by a controlled diffusion aerofoil at $\alpha = 21^\circ$. http://www.w3.org/1998/Math/MathML altimg="si21.svg" $R = 1.5 \text{ m}$ $\Delta = 10^{-5} \text{ m}$ Journal of Sound and Vibration, 2020, 487, 115620.	2.1	13
118	On the use of CFD in the automotive engine cooling fan system design. , 1998, , .		12
119	CFD Based Design for Automotive Engine Cooling Fan Systems. , 1998, , .		12
120	Aeroacoustic modelling of low pressure axial flow fans. , 2000, , .		12
121	Aeroacoustic Analysis of a Low-Subsonic Axial Fan. , 2015, , .		12
122	Turbulent flow and noise sources on a circular cylinder in the critical regime. AIP Advances, 2019, 9, .	0.6	12
123	Large Eddy Simulation of a supersonic air ejector. Applied Thermal Engineering, 2022, 209, 118177.	3.0	12
124	Waves Transmission and Generation in Turbine Stages in a Combustion-Noise Framework. , 2010, , .		11
125	Computing combustion noise by combining large eddy simulations with analytical models for the propagation of waves through turbine blades. Comptes Rendus - Mecanique, 2013, 341, 131-140.	2.1	11
126	Evaluation of a Cascade-Based Acoustic Model for Fan Tonal Noise Prediction. AIAA Journal, 2014, 52, 2877-2890.	1.5	11

#	ARTICLE	IF	CITATIONS
127	Boundary Conditions for the Computation of Thermoacoustic Modes in Combustion Chambers. AIAA Journal, 2014, 52, 1180-1193.	1.5	11
128	Three-dimensional transient heat transfer and airflow in an indoor ice rink with radiant heat sources. Building Simulation, 2016, 9, 175-182.	3.0	11
129	A high-order sensitivity method for multi-element high-lift device optimization. Computers and Fluids, 2016, 124, 105-116.	1.3	11
130	Multi-disciplinary optimization of a contra-rotating fan. International Journal of Aeroacoustics, 2018, 17, 655-686.	0.8	11
131	Influence of Swept Blades on Low-Order Acoustic Prediction for Axial Fans. Acoustics, 2020, 2, 812-832.	0.8	11
132	Improvement of Fan Design Using CFD. , 0, , .		10
133	Effect of Blade Design at Equal Loading on Broadband Noise. , 2006, , .		10
134	Affordable Compressible LES of Airfoil-Turbulence Interaction in a Free Jet. , 2011, , .		10
135	Aeroacoustic Prediction of the Tonal Noise Radiated by a Ring Fan in Uniform Inlet Flow. , 2012, , .		10
136	Use of a beat effect for the automatic positioning of flow obstructions to control tonal fan noise: Theory and experiments. Journal of Sound and Vibration, 2013, 332, 4450-4460.	2.1	10
137	On the use of an analytical cascade response function to predict sound transmission through an annular cascade. Journal of Sound and Vibration, 2013, 332, 3706-3739.	2.1	10
138	On a mode-matching technique for sound generation and transmission in a linear cascade of outlet guide vanes. , 2015, , .		10
139	Several noise control of the trailing-edge noise of a Controlled-Diffusion airfoil. , 2016, , .		10
140	Analytical, numerical and experimental investigation of trailing-edge noise reduction on a Controlled Diffusion airfoil with serrations. , 2019, , .		10
141	Aeolian noise of a cylinder in the critical regime. Journal of the Acoustical Society of America, 2019, 146, 1404-1415.	0.5	10
142	Sound localization and quantification analysis of an automotive engine cooling module. Journal of Sound and Vibration, 2022, 517, 116534.	2.1	10
143	Experimental investigation of aerofoil tonal noise at low Mach number. Journal of Fluid Mechanics, 2022, 932, .	1.4	10
144	Influence of Turbulence Modeling on Airfoil Unsteady Simulations of Broadband Noise Sources. , 2005, , .		9

#	ARTICLE	IF	CITATIONS
145	Rotating Blade Self Noise: Experimental Validation of Analytical Models. , 2007, , .		9
146	Fan Trailing-Edge Noise Prediction Using RANS Simulations. , 2010, , .		9
147	Compressor Stage Broadband Noise Prediction using a Large-Eddy Simulation and Comparisons with a Cascade Response Model. , 2013, , .		9
148	Parameterization and optimization of broadband noise for high-lift devices. , 2013, , .		9
149	Effect of Distortion on Turbofan Tonal Noise at Cutback with Hybrid Methods. International Journal of Turbomachinery, Propulsion and Power, 2017, 2, 16.	0.5	9
150	On the Use of RANS-informed Analytical Models to Perform Broadband Rotor-Stator Interaction Noise Predictions. , 2019, , .		9
151	On a three-dimensional investigation of airfoil turbulence-impingement noise and its reduction by leading-edge tubercles. Journal of Sound and Vibration, 2022, 520, 116635.	2.1	9
152	Thermal Analysis of Electric Motors in Engine Cooling Fan Systems. , 2001, , .		8
153	Several technological effects on tonal fan noise prediction. , 2012, , .		8
154	Assessment and comparison of tonal noise models for Counter-Rotating Open Rotors. , 2013, , .		8
155	Tonal noise control from centrifugal fans using flow control obstructions. Noise Control Engineering Journal, 2013, 61, 381-388.	0.2	8
156	Generation and transmission of spiral acoustic waves in multi-stage subsonic radial compressors. , 2014, , .		8
157	Large Eddy Simulation of a High Pressure Turbine Stage: Effects of Sub-Grid Scale Modeling and Mesh Resolution. , 2014, , .		8
158	Direct noise simulation of a canonical high lift device and comparison with an analytical model. Journal of the Acoustical Society of America, 2016, 140, 2091-2100.	0.5	8
159	Application of an Overset Grid Method to the Large Eddy Simulation of a High-Speed Multistage Axial Compressor. , 2016, , .		8
160	Large-Eddy-simulation prediction of indirect combustion noise in the entropy wave generator experiment. International Journal of Spray and Combustion Dynamics, 2018, 10, 154-168.	0.4	8
161	Optimization of tonal noise control with flow obstruction. Journal of Sound and Vibration, 2018, 437, 264-275.	2.1	8
162	Direct Numerical Simulation of the Self-Noise Radiated by the Installed Controlled-Diffusion Airfoil at Transitional Reynolds Number. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
163	Numerical Prediction of Far-Field Combustion Noise from Aeronautical Engines. <i>Acoustics</i> , 2019, 1, 174-198.	0.8	8
164	Broadband Noise Predictions on the ACAT1 Fan Stage Using Large Eddy Simulations and Analytical Models. , 2020, , .		8
165	Adverse-pressure-gradient turbulent boundary layer on convex wall. <i>Physics of Fluids</i> , 2022, 34, .	1.6	8
166	Prediction of Incoming Turbulent Noise Using a Combined Numerical/Semi-Empirical Method and Experimental Validation. , 2007, , .		7
167	Wake model effects on the prediction of turbulence-interaction broadband noise in a realistic compressor stage. , 2011, , .		7
168	Direct Numerical Simulation of the Self-Noise Radiated by an Airfoil in a Narrow Stream. , 2012, , .		7
169	Dual-stream jet noise simulations with realistic nozzle geometries using a fully unstructured LES solver. , 2014, , .		7
170	Numerical investigation of combustion noise generation in a full annular combustion chamber. , 2015, , .		7
171	Design of multi-modal obstruction to control tonal fan noise using modulation principles. <i>Journal of Sound and Vibration</i> , 2015, 356, 34-47.	2.1	7
172	Numerical assessment of the tonal noise of Counter-Rotating Open Rotors at approach. <i>International Journal of Aeroacoustics</i> , 2016, 15, 23-40.	0.8	7
173	Aeroacoustics of an axial ducted low Mach-number stage: numerical and experimental investigation. , 2017, , .		7
174	Effect of Weak Outlet-Guide-Vane Heterogeneity on Rotorâ€™Stator Tonal Noise. <i>AIAA Journal</i> , 2017, 55, 3440-3457.	1.5	7
175	Nonlinear characterization of a Rossler system under periodic closed-loop control via time-frequency and bispectral analysis. <i>Mechanical Systems and Signal Processing</i> , 2018, 99, 567-585.	4.4	7
176	Trailing-edge noise of a flat plate with several liner-type porous appendices. , 2018, , .		7
177	Numerical Investigation of Noise Sources in a Single Airfoil Tip-Leakage Flow. , 2019, , .		7
178	Optimization of serrations for broadband trailing-edge noise reduction using an analytical model. , 2019, , .		7
179	Predicting the Propagation of Acoustic Waves using Deep Convolutional Neural Networks. , 2020, , .		7
180	Design, Synthesis and Antimalarial Activity of Some New Aminoalcoholpyrrolo[1,2-a]quinoxaline Derivatives. <i>Letters in Drug Design and Discovery</i> , 2016, 13, 932-942.	0.4	7

#	ARTICLE	IF	CITATIONS
181	Efficient Stator Design for Automotive Engine Cooling Fan Systems. , 2002, , 235.		6
182	Latest Improvements of CFD Models of Engine Cooling Axial Fan Systems. , 2002, , .		6
183	Diffraction Effects on the Trailing Edge Noise Measured in an Open-Jet Anechoic Wind Tunnel. , 2007, , .		6
184	Numerical Issues in the Application of an Amiet Model for Spanwise-Varying Incoming Turbulence. , 2008, , .		6
185	Camber effects in cascade-gust interaction noise through a simple extension of analytical models. , 2012, , .		6
186	On Open-Rotor Blade-Vortex Interaction Noise. , 2012, , .		6
187	Numerical simulations of a low-speed radial fan. International Journal of Engineering Systems Modelling and Simulation, 2012, 4, 47.	0.2	6
188	Experimental and numerical investigation on noise induced by a butterfly valve. , 2014, , .		6
189	Cascade trailing-edge noise modeling using a mode-matching technique and the edge-dipole theory. Journal of Sound and Vibration, 2016, 382, 310-327.	2.1	6
190	Effect of the Edge-and-Tip Vortex on Airfoil Selfnoise and Turbulence Impingement Noise. , 2016, , .		6
191	Active Flow Control in a Radial Vaned Diffuser for Surge Margin Improvement: A Multislot Suction Strategy. International Journal of Rotating Machinery, 2017, 2017, 1-12.	0.8	6
192	Experimental study of the noise radiated by an air flow discharge through diaphragms and perforated plates. Journal of Sound and Vibration, 2018, 434, 144-165.	2.1	6
193	Fan Broadband Noise Computation at Transonic Regime. , 2019, , .		6
194	Parametric study on state-of-the-art analytical models for fan broadband interaction noise predictions. Journal of Sound and Vibration, 2021, 514, 116423.	2.1	6
195	Numerical Study of the Installed Controlled Diffusion Airfoil at Transitional Reynolds Number. , 2016, , 505-515.		6
196	Localization of Swept Free-Tip Airfoil Noise Sources by Microphone Array Processing. AIAA Journal, 2020, 58, 3414-3425.	1.5	6
197	1-Phenyl-8-[[4-(pyrrolo[1,2-a]quinoxalin-4-yl)phenyl]methyl]-1,3,8-triazaspiro[4.5]decan-4-one: Synthesis, Crystal Structure and Anti-Leukemic Activity. MolBank, 2020, 2020, M1113.	0.2	6
198	Surface pressure spectrum variation with Mach number on a CD airfoil. Journal of Sound and Vibration, 2022, 526, 116762.	2.1	6

#	ARTICLE	IF	CITATIONS
199	Optimal airflow and blade design in compressible and incompressible flows. , 1998, , .		5
200	Rotor Stator Interactions in Engine Cooling Fan Systems. , 0, , .		5
201	Prediction of sound transmission through an annular cascade Using an analytical cascade response function. , 2010, , .		5
202	Rotor-shielding effect on fan-OGV broadband noise prediction. , 2011, , .		5
203	Numerical simulation of acoustic and entropy waves propagating through turbine blades. , 2013, , .		5
204	Aerodynamic Study of a Tricycle Wheel Subsystem for Drag Reduction. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	0.8	5
205	Experimental Validation of a Semi-Analytical Trailing-Edge Noise Model Including Broadband Scattering. , 2015, , .		5
206	Interior sound field control using generalized singular value decomposition in the frequency domain. Journal of the Acoustical Society of America, 2017, 141, 334-345.	0.5	5
207	Effects of Intermittency and Geometry on the Turbulence Impingement Noise of a CROR Rear-Rotor Blade. , 2017, , .		5
208	Aeroacoustic Analysis of the Tonal Noise of a Large-Scale Radial Blower. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	5
209	The impedance boundary condition for acoustics in swirling ducted flow. Journal of Fluid Mechanics, 2018, 849, 645-675.	1.4	5
210	Experimental investigation of the noise radiated by a ducted air flow discharge through diaphragms and perforated plates. Journal of Sound and Vibration, 2020, 472, 115177.	2.1	5
211	Energy dissipation and onset of instabilities in coarse-grained discrete element method on homogeneous cooling systems. Physics of Fluids, 2022, 34, .	1.6	5
212	Detailed CFD Modeling of Engine Cooling Fan Systems Airflow. , 0, , .		4
213	Uncertainty quantification for the trailing-edge noise of a Controlled-Diffusion airfoil. , 2011, , .		4
214	A Comparison between Galerkin and Compact Schemes for Jet Noise Simulations. , 2011, , .		4
215	Spectral recycling strategies for the solution of nonlinear eigenproblems in thermoacoustics. Numerical Linear Algebra With Applications, 2015, 22, 1039-1058.	0.9	4
216	Towards Cascade Trailing-Edge Noise Modeling Using a Mode-Matching Technique. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
217	Aeroacoustic Simulations of a Simplified High-Lift Device Accounting for Installations Effects. , 2015, , .		4
218	Parameterization and optimization of broadband noise for high-lift devices. Computers and Fluids, 2016, 140, 308-319.	1.3	4
219	Numerical investigation of combustion noise: The Entropy Wave Generator. , 2016, , .		4
220	The modified Myers boundary condition for swirling flow. Journal of Fluid Mechanics, 2018, 847, 868-906.	1.4	4
221	Tip flow evolution in a turbofan rotor for broadband noise diagnostic. , 2020, , .		4
222	Numerical study of optimized airfoil trailing-edge serrations for broadband noise reduction. , 2020, , .		4
223	Effects of Boundary Conditions in Fully Convolutional Networks for Learning Spatio-Temporal Dynamics. Lecture Notes in Computer Science, 2021, , 102-117.	1.0	4
224	Wall-Resolved Large Eddy Simulation of a Realistic Turbofan Rotor for Noise Prediction. , 2021, , .		4
225	Stability characteristics of different aerofoil flows at $\alpha = 27^\circ$ and the implications for aerofoil self noise. Journal of Sound and Vibration, 2021, 506, 116152.		4
226	Large Eddy Simulation of Heat Transfer Within a Multi-Perforation Synthetic Jets Configuration. Journal of Turbomachinery, 2020, 142, .	0.9	4
227	A Review of Turbomachinery Noise: From Analytical Models to High-Fidelity Simulations. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 579-595.	0.2	4
228	Airfoil Trailing-Edge Blowing: Broadband Noise Prediction from Large-Eddy Simulation. , 2009, , .		3
229	Tonal Noise Control of Centrifugal Fan Using Flow Obstructions - Experimental and Numerical Approaches. , 2013, , .		3
230	Numerical Optimization of Fan Tonal Noise Control using Acoustic Modulation of Slowly-Rotating Obstructions. , 2014, , .		3
231	Active noise control simulation of tonal turbofan noise in aero engines. , 2014, , .		3
232	Noise Prediction of a Simplified High-Lift Device. , 2016, , .		3
233	Influence of Distortion on Fan Tonal Noise. , 2016, , .		3
234	Rotating Coherent Flow Structures as a Source for Narrowband Tip Clearance Noise from Axial Fan. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
235	Turbofan broadband noise predictions using a 3-D ZDES rotor blade approach. , 2016, , .		3
236	A numerical and experimental test-bed for low-speed fans. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2016, 230, 456-466.	0.8	3
237	Study of Combustion Noise Generation in a Realistic Turbine Stage Configuration. , 2018, , .		3
238	Improvement of the Near Wall Treatment in Large Eddy Simulation for Aeroacoustic Applications. , 2018, , .		3
239	Effect of sweep angle and of wall-pressure statistics on the free-field directivity of airfoil trailing-edge noise. , 2019, , .		3
240	Two-dimensional sound transmission in realistic turbomachinery cascade. , 2019, , .		3
241	Analytical model of the source and radiation of sound from the trailing edge of a swept airfoil. Journal of Sound and Vibration, 2021, 493, 115838.	2.1	3
242	Large-Eddy Simulation of a Linear Compressor Cascade with Tip Gap: Aerodynamic and Acoustic Analysis. , 2021, , .		3
243	CFD-based prediction of wall-pressure spectra under a turbulent boundary layer with adverse pressure gradient. CEAS Aeronautical Journal, 2021, 12, 125-133.	0.9	3
244	Liner behavior in an annular duct with swirling and sheared mean flow. , 2017, , .		3
245	Synthesis, Crystal Structure and Anti-Leukemic Activity of 1,3-Dihydro-1-{1-[4-(4-phenylpyrrolo[1,2-a]quinoxalin-3-yl)benzyl]piperidin-4-yl}-2H-benzimidazol-2-one. MolBank, 2022, 2022, M1333.	0.2	3
246	Advances in the Prediction of the Statistical Properties of Wall-Pressure Fluctuations under Turbulent Boundary Layers. Fluids, 2022, 7, 161.	0.8	3
247	Flow-field and Noise Characterization of a Controlled-Diffusion Airfoil. , 2022, , .		3
248	Aeroacoustic investigation of an Urban-Air-Mobility ducted fan. , 2022, , .		3
249	Improved Numerical Noise Predictions for Axial Fans. , 0, , .		2
250	Low Complexity Models to improve Incomplete Sensitivities for Shape Optimization. International Journal of Computational Fluid Dynamics, 2003, 17, 1-13.	0.5	2
251	Computation of Wall Pressure Spectra from Steady Flow Data for Noise Prediction. , 2010, , .		2
252	Modeling of Installation Effects on the Noise from Subsonic Axial Fans. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
253	Effect of Trailing Edge Blowing Geometry on Broadband Noise Sources. , 2011, , .		2
254	Effect of span and compressibility on the noise prediction of a Katana blade. , 2012, , .		2
255	Aerodynamic Study of a Tricycle Wheel Subsystem for Drag Reduction. , 2012, , .		2
256	Study of the attenuation of waves propagating through fixed and rotating turbine blades. , 2012, , .		2
257	Large-Eddy Simulation and Conjugate Heat Transfer Around a Low-Mach Turbine Blade. , 2013, , .		2
258	Uncertainty quantification of low-speed fan noise. , 2013, , .		2
259	Numerical simulation and wind tunnel measurements on a tricycle wheel sub-system. International Journal of Engineering Systems Modelling and Simulation, 2013, 5, 159.	0.2	2
260	Influence and modeling of OGV heterogeneity. , 2016, , .		2
261	Unsteady Wall Pressure Measurements In An Outflow Butterfly Valve Using Remote Microphone Probes. , 2016, , .		2
262	A preliminary semi-empirical approach for CROR noise modeling. , 2016, , .		2
263	Numerical investigation of combustion noise from aeronautical combustor to far-field. , 2016, , .		2
264	Analytical models based on a mode-matching technique for turbulence impingement noise on axial-flow outlet guide vanes. , 2016, , .		2
265	Laminar boundary layer instability noise. , 2017, , .		2
266	Hybrid noise predictions of a radial notebook blower. European Journal of Mechanics, B/Fluids, 2017, 61, 226-234.	1.2	2
267	Investigations on Analytic Models of Broadband Wake-Blade Interaction Noise. , 2018, , .		2
268	Liner-type porous treatments for the flat plate trailing edge. , 2019, , .		2
269	Wall-Modeled Large-Eddy Simulations of a Multistage High-Pressure Compressor. Flow, Turbulence and Combustion, 2020, 104, 725-751.	1.4	2
270	Noise mechanisms in a radial fan without volute. Journal of Physics: Conference Series, 2021, 1909, 012009.	0.3	2

#	ARTICLE	IF	CITATIONS
271	Influence of the liner-type treatment on the trailing-edge noise generated by a flat plate. International Journal of Aeroacoustics, 2021, 20, 773-791.	0.8	2
272	A generic deep learning framework for propagation and scattering of acoustic waves in quiescent flows. , 2021, , .		2
273	Numerical Aeroacoustic Analysis of a Linear Compressor Cascade with Tip Gap. AIAA Journal, 2022, 60, 4840-4854.	1.5	2
274	Large-Eddy Simulation and Broadband Acoustic Prediction of an Helicopter Rotor in Hover. , 2022, , .		2
275	FEA Computations Applied to Engine Cooling Fans. , 2000, , .		1
276	Experimental and Numerical Unsteady Acoustic Sources and Self-noise of a Katana Blade. , 2010, , .		1
277	Predictions of acoustic sources and self-noise of a Katana blade at Zero and high incidence. , 2011, , .		1
278	Aeroacoustics of a Low-Speed Free Tip Fan With a Complex Clearance Geometry. , 2014, , .		1
279	Aero-Thermal Optimization of a Hybrid Roadster Tricycle Using Multidisciplinary Design Optimization Tools. , 2014, , .		1
280	A 3D analytical approach for Open rotor Blade Vortex Interaction(BVI) tonal noise. , 2015, , .		1
281	Uncertainty Quantification Applied to Aeroacoustics of Wall-Bounded Flows. , 2016, , 1-31.		1
282	Direct Numerical Simulation of Transitional Airfoil Noise. , 2017, , .		1
283	Experimental investigation of the transient bleed valve noise. , 2017, , .		1
284	Ignition Dynamics in an Annular Combustor With Gyrotory Flow Motion. , 2018, , .		1
285	Broadband Airfoil-Noise Source Localization by Microphone Arrays and Modeling of a Swept Free-Tip Blade. , 2018, , .		1
286	Using LES for combustion noise propagation to the far-field by considering the jet flow of a dual-stream nozzle. , 2018, , .		1
287	Acoustic and aerodynamic investigation of passive trailing-edge treatments for the Controlled-Diffusion airfoil. , 2019, , .		1
288	Numerical Investigation of Influence of Entropy Wave on the Acoustic and Wall Heat Transfer Characteristics of a High-Pressure Turbine Guide Vane. Acoustics, 2020, 2, 524-538.	0.8	1

#	ARTICLE	IF	CITATIONS
289	Large-Eddy Simulation of a Single Airfoil Tip-Leakage Flow. , 2020, , .		1
290	Experimental Analysis of the Sound Radiated by an Automotive Cooling Module Working at Different Operational Conditions. , 2020, , .		1
291	Analytical and experimental investigation of leading-edge noise reduction on a flat plate with serrations. , 2020, , .		1
292	Aerodynamic and acoustic investigation of the liner-type porous treatment for the trailing-edge of the flat plate.. , 2020, , .		1
293	Analytical Modeling of Modulated Rotating-Blade Noise : the Skipping Rope and the Darrieus Wind Turbine. Journal of Physics: Conference Series, 2021, 1909, 012010.	0.3	1
294	Experimental and Analytical Investigation of the Distortion of Turbulence Interacting with a Porous Airfoil. , 2021, , .		1
295	Numerical investigation of the effect of inflow non-uniformity on the noise radiated by a vertical axis wind turbine. , 2021, , .		1
296	Optimization of a Fan Blade Cascade Using the Parametric Flow Solver Turbâ€™Opty. , 2006, , .		1
297	Inlet and Outlet Characteristics Boundary Conditions for Large Eddy Simulations of Turbomachinery. , 2019, , .		1
298	Impact of inlet distortion on fan tonal noise. , 2017, , .		1
299	Assessment of the Impact of a Heterogeneous Stator on the Noise of an Axial-Flow Low Mach-number Stage. , 2019, , .		1
300	Direct Numerical Simulation of Controlled Diffusion airfoil self-noise. , 2022, , .		1
301	Numerical investigation of the noise radiated by an H-Darrieus wind turbine at different tip speed ratios. , 2022, , .		1
302	Aeroacoustic investigation of automotive engine cooling modules using the Lattice-Boltzmann Method. , 2022, , .		1
303	Acoustic Investigation of the Transonic RAE 2822 Airfoil with Large-Eddy Simulation. , 2022, , .		1
304	3D Numerical Analysis of Heat Transfer in a Low Reynolds Number Microturbine Cascade. , 2012, , .		0
305	3D Unsteady Simulation of a Planing Hull Propelled by a Waterjet Pump System. , 2012, , .		0
306	Experimental Validation of Ducted Low-Speed Cooling Fan Noise Prediction Methods Including Broadband Scattering. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
307	Experimental investigation of the output duct role in the transient bleed valve noise. , 2018, , .		0
308	Towards counter-rotating open rotor noise reduction via radiation efficiency considerations. , 2019, , .		0
309	Wavelet-based Procedure for the Identification of Signatures of the Azimuthal Modes for Broadband Shock-associated Noise. , 2019, , .		0
310	Large Eddy Simulation of an Outflow butterfly valve. , 2020, , .		0
311	Identification of Noise Sources in a Realistic Turbofan Rotor Using Large Eddy Simulation. Journal of Physics: Conference Series, 2021, 1909, 012006.	0.3	0
312	Sweep-angle effect on low-order acoustic prediction for low-speed fans. Journal of Physics: Conference Series, 2021, 1909, 012005.	0.3	0
313	A Generalized Corcos model for the prediction of the coherence function in turbulent boundary layers with zero and adverse pressure gradient. , 2021, , .		0
314	Swirling mean flow effects on locally reacting interstage liner. International Journal of Aeroacoustics, 2021, 20, 561-587.	0.8	0
315	One, no one and one hundred thousand methods for low-speed fan noise prediction. Noise Notes, 2010, 9, 17-33.	0.2	0
316	Sound Radiation of a Smoke-Removal Fan System. Acta Acustica United With Acustica, 2019, 105, 86-94.	0.8	0
317	Predicting the sound refraction on shear layers with deep neural networks. , 2022, , .		0
318	Investigation of Curle's Dipolar Sources on a Porous Airfoil Interacting with Incoming Turbulence. , 2022, , .		0
319	Wall-Resolved LES of a Linear Compressor Cascade with Moving Endwall. , 2022, , .		0