

N Peake

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

1,777
citations

25
h-index

38
g-index

89
ext. papers

2,065
ext. citations

3.6
avg, IF

5.27
L-index

#	Paper	IF	Citations
85	Acoustic and hydrodynamic power of wave scattering by an infinite cascade of plates in mean flow. <i>Journal of Sound and Vibration</i> , 2021 , 520, 116564	3.9	
84	Wave scattering by an infinite cascade of non-overlapping blades. <i>Journal of Sound and Vibration</i> , 2020 , 481, 115418	3.9	2
83	Sound radiation from a semi-infinite lined duct. <i>Wave Motion</i> , 2020 , 92, 102407	1.8	7
82	Aeroacoustics of Silent Owl Flight. <i>Annual Review of Fluid Mechanics</i> , 2020 , 52, 395-420	2.2	37
81	Does flutter prevent drag reduction by reconfiguration?. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20170678	2.4	7
80	An analytically-based method for predicting the noise generated by the interaction between turbulence and a serrated leading edge. <i>Journal of Sound and Vibration</i> , 2018 , 422, 506-525	3.9	8
79	The acoustic Green's function for swirling flow with variable entropy in a lined duct. <i>Journal of Sound and Vibration</i> , 2018 , 419, 630-653	3.9	5
78	The acoustic Green's function for swirling flow in a lined duct. <i>Journal of Sound and Vibration</i> , 2017 , 395, 294-316	3.9	14
77	Spectral study of the Laplace-Beltrami operator arising in the problem of acoustic wave scattering by a quarter-plane. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2016 , 69, 281-317	1	7
76	Interaction of turbulence with the leading-edge stagnation point of a thin aerofoil. <i>Journal of Fluid Mechanics</i> , 2016 , 798, 436-456	3.7	8
75	The importance of the unsteady Kutta condition when modelling gust-airfoil interaction. <i>Journal of Sound and Vibration</i> , 2016 , 378, 28-37	3.9	19
74	Tunnelling effects for acoustic waves in slowly varying axisymmetric flow ducts. <i>Journal of Sound and Vibration</i> , 2016 , 380, 180-191	3.9	5
73	On high-frequency sound generated by gust-airfoil interaction in shear flow. <i>Journal of Fluid Mechanics</i> , 2015 , 766, 297-325	3.7	13
72	Global linear stability of the boundary-layer flow over a rotating sphere. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 49, 301-307	2.4	8
71	Non-modal instability of annular Poiseuille-Couette flow. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 53, 148-159	2.4	2
70	Secondary instability and tertiary states in rotating plane Couette flow. <i>Journal of Fluid Mechanics</i> , 2014 , 761, 27-61	3.7	9
69	Noise generation by turbulence-propeller interaction in asymmetric flow. <i>Journal of Fluid Mechanics</i> , 2014 , 758, 121-149	3.7	10

68	Aerodynamic noise from a poroelastic edge with implications for the silent flight of owls. <i>Journal of Fluid Mechanics</i> , 2013 , 723, 456-479	3.7	135
67	The acoustic analogy in an annular duct with swirling mean flow. <i>Journal of Fluid Mechanics</i> , 2013 , 726, 439-475	3.7	24
66	The propagation of acoustic waves in a slowly varying duct with radially sheared axial mean flow. <i>Journal of Sound and Vibration</i> , 2013 , 332, 3937-3946	3.9	19
65	On high-frequency noise scattering by aerofoils in flow. <i>Journal of Fluid Mechanics</i> , 2013 , 734, 144-182	3.7	25
64	On the diffraction of acoustic waves by a quarter-plane. <i>Wave Motion</i> , 2012 , 49, 64-82	1.8	19
63	Eigenmodes of lined flow ducts with rigid spllices. <i>Journal of Fluid Mechanics</i> , 2012 , 690, 399-425	3.7	30
62	Precise description of the different far fields encountered in the problem of diffraction of acoustic waves by a quarter-plane. <i>IMA Journal of Applied Mathematics</i> , 2012 , 77, 605-625	1	7
61	Sound transmission in strongly curved slowly varying cylindrical ducts with flow. <i>Journal of Fluid Mechanics</i> , 2008 , 596, 387-412	3.7	42
60	Stability and acoustic scattering in a cylindrical thin shell containing compressible mean flow. <i>Journal of Fluid Mechanics</i> , 2008 , 602, 403-426	3.7	25
59	Acoustic propagation and scattering in the exhaust flow from coaxial cylinders. <i>Journal of Fluid Mechanics</i> , 2008 , 613, 275-307	3.7	58
58	Transient growth in vortices with axial flow. <i>Journal of Fluid Mechanics</i> , 2007 , 587, 271-301	3.7	41
57	The absolute instability of the boundary layer on a rotating cone. <i>European Journal of Mechanics, B/Fluids</i> , 2007 , 26, 344-353	2.4	37
56	Rotor-Stator Interaction Noise in Swirling Flow: Stator Sweep and Lean Effects. <i>AIAA Journal</i> , 2006 , 44, 981-991	2.1	17
55	Algebraic and exponential instability of inviscid swirling flow. <i>Journal of Fluid Mechanics</i> , 2006 , 565, 279	3.7	51
54	A nonlinear model of the dynamics of a large elastic plate with heavy fluid loading. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 2205-2224	2.4	9
53	Classification of aeroacoustically relevant surface modes in cylindrical lined ducts. <i>Wave Motion</i> , 2006 , 43, 301-310	1.8	65
52	On symmetry-breaking effects in propagation of waves in sandwich plates with and without heavy fluid loading. <i>Journal of Sound and Vibration</i> , 2006 , 295, 114-128	3.9	2
51	Transient growth and rotor-stator interaction noise in mean swirling duct flow. <i>Journal of Sound and Vibration</i> , 2006 , 295, 553-570	3.9	8

50	Acoustic scattering in a duct with mean swirling flow. <i>Journal of Fluid Mechanics</i> , 2005 , 540, 189	3.7	26
49	Upstream-radiated rotor-stator interaction noise in mean swirling flow. <i>Journal of Fluid Mechanics</i> , 2005 , 523, 219-250	3.7	43
48	Generalised Functions in Aeroacoustics 2004 , 179-194		
47	Acoustic Resonance in Aeroengine Intake Ducts. <i>Journal of Turbomachinery</i> , 2004 , 126, 432-441	1.8	8
46	A NOTE ON "COMPUTATIONAL AEROACOUSTICS EXAMPLES SHOWING THE FAILURE OF THE ACOUSTIC ANALOGY THEORY TO IDENTIFY THE CORRECT NOISE SOURCES" BY CKW TAM. <i>Journal of Computational Acoustics</i> , 2004 , 12, 631-634		9
45	The stability of the boundary layer on a sphere rotating in a uniform axial flow. <i>European Journal of Mechanics, B/Fluids</i> , 2004 , 23, 241-253	2.4	17
44	Influence of mean loading on noise generated by the interaction of gusts with a cascade: downstream radiation. <i>Journal of Fluid Mechanics</i> , 2004 , 515, 99-133	3.7	25
43	On the unsteady motion of a long fluid-loaded elastic plate with mean flow. <i>Journal of Fluid Mechanics</i> , 2004 , 507, 335-366	3.7	26
42	On applications of high-frequency asymptotics in aeroacoustics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 673-96	3	5
41	Wave Excitation on Flexible Walls in The Presence of a Fluid Flow. <i>Fluid Mechanics and Its Applications</i> , 2003 , 119-145	0.2	4
40	HIGH-WAVENUMBER ACOUSTIC RADIATION FROM A THIN-WALLED AXISYMMETRIC CYLINDER. <i>Journal of Sound and Vibration</i> , 2002 , 255, 129-146	3.9	7
39	HIGH-WAVENUMBER ACOUSTIC RADIATION FROM A THIN-WALLED SCARFED CYLINDER. <i>Journal of Sound and Vibration</i> , 2002 , 255, 147-160	3.9	7
38	The stability of a slowly diverging swirling jet. <i>Journal of Fluid Mechanics</i> , 2002 , 473, 389-411	3.7	12
37	On sound generation by the interaction between turbulence and a cascade of airfoils with non-uniform mean flow. <i>Journal of Fluid Mechanics</i> , 2002 , 463, 25-52	3.7	80
36	The stability and transition of the boundary layer on a rotating sphere. <i>Journal of Fluid Mechanics</i> , 2002 , 456, 199-218	3.7	45
35	ON THE BEHAVIOUR OF FLUID-LOADED SANDWICH PANELS WITH MEAN FLOW. <i>Journal of Sound and Vibration</i> , 2001 , 242, 597-617	3.9	11
34	ACOUSTIC PROPAGATION IN DUCTS WITH SLOWLY VARYING ELLIPTIC CROSS-SECTION. <i>Journal of Sound and Vibration</i> , 2001 , 243, 381-401	3.9	13
33	Propagation of unsteady disturbances in a slowly varying duct with mean swirling flow. <i>Journal of Fluid Mechanics</i> , 2001 , 445, 207-234	3.7	84

32	Nonlinear stability of a fluid-loaded elastic plate with mean flow. <i>Journal of Fluid Mechanics</i> , 2001 , 434, 101-118	3.7	30
31	Trapped acoustic modes in aeroengine intakes with swirling flow. <i>Journal of Fluid Mechanics</i> , 2000 , 419, 151-175	3.7	45
30	Noise generation by high-frequency gusts interacting with an airfoil in transonic flow. <i>Journal of Fluid Mechanics</i> , 2000 , 411, 91-130	3.7	19
29	VIBRATIONS OF SANDWICH PLATES WITH CONCENTRATED MASSES AND SPRING-LIKE INCLUSIONS. <i>Journal of Sound and Vibration</i> , 2000 , 237, 203-222	3.9	13
28	Active Control of Sound. <i>Annual Review of Fluid Mechanics</i> , 2000 , 32, 137-164	22	29
27	A Causal Stability Analysis of the Boundary Layer over a Compliant Wall 2000 , 51-56		
26	A note on the absolute instability of wakes. <i>European Journal of Mechanics, B/Fluids</i> , 1999 , 18, 573-579	2.4	2
25	The long-time impulse response of compressible swept-wing boundary layers. <i>Journal of Fluid Mechanics</i> , 1999 , 379, 333-350	3.7	2
24	Resonant acoustic frequencies of a tandem cascade. Part 1. Zero relative motion. <i>Journal of Fluid Mechanics</i> , 1999 , 393, 215-240	3.7	24
23	Resonant acoustic frequencies of a tandem cascade. Part 2. Rotating blade rows. <i>Journal of Fluid Mechanics</i> , 1999 , 393, 241-256	3.7	11
22	On the causal behaviour of flow over an elastic wall. <i>Journal of Fluid Mechanics</i> , 1999 , 396, 319-344	3.7	17
21	Some Analytical Methods for Fluid-Structure Interaction Problems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 1999 , 87-134	0.6	
20	The long-time behaviour of incompressible swept-wing boundary layers subject to impulsive forcing. <i>Journal of Fluid Mechanics</i> , 1998 , 355, 359-381	3.7	18
19	Noise generation by the interaction between ingested turbulence and a rotating fan. <i>Journal of Fluid Mechanics</i> , 1998 , 359, 181-216	3.7	67
18	Prediction of acoustic resonance in tandem cascades 1998 ,		1
17	On the behaviour of a fluid-loaded cylindrical shell with mean flow. <i>Journal of Fluid Mechanics</i> , 1997 , 338, 387-410	3.7	36
16	Global linear stability analysis of thin aerofoil wakes. <i>Journal of Fluid Mechanics</i> , 1997 , 339, 239-260	3.7	30
15	Influence of mean loading on noise generated by the interaction of gusts with a flat-plate cascade: upstream radiation. <i>Journal of Fluid Mechanics</i> , 1997 , 347, 315-346	3.7	46

14	The scattering of vorticity waves by a supersonic rectangular wing. <i>Wave Motion</i> , 1997 , 25, 369-383	1.8	5
13	Three-dimensional effects in cascade-gust interaction. <i>Wave Motion</i> , 1996 , 23, 321-337	1.8	20
12	Sound radiation from sources close to a corner in supersonic flow. <i>Wave Motion</i> , 1996 , 24, 197-210	1.8	1
11	On the radiation properties of an asymmetric cylinder. <i>Wave Motion</i> , 1995 , 22, 371-385	1.8	24
10	The unsteady lift on a swept blade tip. <i>Journal of Fluid Mechanics</i> , 1994 , 271, 87-101	3.7	6
9	The viscous interaction between sound waves and the trailing edge of a supersonic splitter plate. <i>Journal of Fluid Mechanics</i> , 1994 , 264, 321-342	3.7	7
8	Approximate method for the prediction of propeller noise near-field effects. <i>Journal of Aircraft</i> , 1993 , 30, 603-610	1.6	17
7	The interaction between a steady jet flow and a supersonic blade tip. <i>Journal of Fluid Mechanics</i> , 1993 , 248, 543-566	3.7	6
6	Trailing-edge diffraction - Inviscid and viscid theory 1993 ,		1
5	The scattering of vorticity waves by an infinite cascade of flat plates in subsonic flow. <i>Wave Motion</i> , 1993 , 18, 255-271	1.8	33
4	Unsteady transonic flow past a quarter-plane. <i>Journal of Fluid Mechanics</i> , 1992 , 244, 377	3.7	5
3	The interaction between a high-frequency gust and a blade row. <i>Journal of Fluid Mechanics</i> , 1992 , 241, 261-289	3.7	37
2	Lighthill quadrupole radiation in supersonic propeller acoustics. <i>Journal of Fluid Mechanics</i> , 1991 , 223, 363	3.7	12
1	An asymptotic theory of near-field propeller acoustics. <i>Journal of Fluid Mechanics</i> , 1991 , 232, 285	3.7	16