

# N Peake

## List of Publications by Year in descending order

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89  
papers

2,234  
citations

201575

27  
h-index

243529

44  
g-index

89  
all docs

89  
docs citations

89  
times ranked

655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerodynamic noise from a poroelastic edge with implications for the silent flight of owls. <i>Journal of Fluid Mechanics</i> , 2013, 723, 456-479.	1.4	182
2	Propagation of unsteady disturbances in a slowly varying duct with mean swirling flow. <i>Journal of Fluid Mechanics</i> , 2001, 445, 207-234.	1.4	100
3	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.	1.4	97
4	Noise generation by the interaction between ingested turbulence and a rotating fan. <i>Journal of Fluid Mechanics</i> , 1998, 359, 181-216.	1.4	96
5	Aeroacoustics of Silent Owl Flight. <i>Annual Review of Fluid Mechanics</i> , 2020, 52, 395-420.	10.8	76
6	Classification of aeroacoustically relevant surface modes in cylindrical lined ducts. <i>Wave Motion</i> , 2006, 43, 301-310.	1.0	75
7	Acoustic propagation and scattering in the exhaust flow from coaxial cylinders. <i>Journal of Fluid Mechanics</i> , 2008, 613, 275-307.	1.4	66
8	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.	1.4	61
9	Algebraic and exponential instability of inviscid swirling flow. <i>Journal of Fluid Mechanics</i> , 2006, 565, 279.	1.4	59
10	The stability and transition of the boundary layer on a rotating sphere. <i>Journal of Fluid Mechanics</i> , 2002, 456, 199-218.	1.4	58
11	The absolute instability of the boundary layer on a rotating cone. <i>European Journal of Mechanics, B/Fluids</i> , 2007, 26, 344-353.	1.2	54
12	Upstream-radiated rotor-stator interaction noise in mean swirling flow. <i>Journal of Fluid Mechanics</i> , 2005, 523, 219-250.	1.4	51
13	The interaction between a high-frequency gust and a blade row. <i>Journal of Fluid Mechanics</i> , 1992, 241, 261-289.	1.4	50
14	Trapped acoustic modes in aeroengine intakes with swirling flow. <i>Journal of Fluid Mechanics</i> , 2000, 419, 151-175.	1.4	50
15	Sound transmission in strongly curved slowly varying cylindrical ducts with flow. <i>Journal of Fluid Mechanics</i> , 2008, 596, 387-412.	1.4	50
16	Transient growth in vortices with axial flow. <i>Journal of Fluid Mechanics</i> , 2007, 587, 271-301.	1.4	45
17	On the behaviour of a fluid-loaded cylindrical shell with mean flow. <i>Journal of Fluid Mechanics</i> , 1997, 338, 387-410.	1.4	41
18	The scattering of vorticity waves by an infinite cascade of flat plates in subsonic flow. <i>Wave Motion</i> , 1993, 18, 255-271.	1.0	38

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19	Eigenmodes of lined flow ducts with rigid splices. <i>Journal of Fluid Mechanics</i> , 2012, 690, 399-425.	1.4	37
20	Global linear stability analysis of thin aerofoil wakes. <i>Journal of Fluid Mechanics</i> , 1997, 339, 239-260.	1.4	35
21	Nonlinear stability of a fluid-loaded elastic plate with mean flow. <i>Journal of Fluid Mechanics</i> , 2001, 434, 101-118.	1.4	35
22	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.	1.4	33
23	Active Control of Sound. <i>Annual Review of Fluid Mechanics</i> , 2000, 32, 137-164.	10.8	32
24	The acoustic analogy in an annular duct with swirling mean flow. <i>Journal of Fluid Mechanics</i> , 2013, 726, 439-475.	1.4	32
25	On high-frequency noise scattering by aerofoils in flow. <i>Journal of Fluid Mechanics</i> , 2013, 734, 144-182.	1.4	31
26	On the unsteady motion of a long fluid-loaded elastic plate with mean flow. <i>Journal of Fluid Mechanics</i> , 2004, 507, 335-366.	1.4	29
27	Acoustic scattering in a duct with mean swirling flow. <i>Journal of Fluid Mechanics</i> , 2005, 540, 189.	1.4	29
28	Stability and acoustic scattering in a cylindrical thin shell containing compressible mean flow. <i>Journal of Fluid Mechanics</i> , 2008, 602, 403-426.	1.4	29
29	Resonant acoustic frequencies of a tandem cascade. Part 1. Zero relative motion. <i>Journal of Fluid Mechanics</i> , 1999, 393, 215-240.	1.4	28
30	On the radiation properties of an asymmetric cylinder. <i>Wave Motion</i> , 1995, 22, 371-385.	1.0	27
31	Noise generation by turbulenceâ€propeller interaction in asymmetric flow. <i>Journal of Fluid Mechanics</i> , 2014, 758, 121-149.	1.4	27
32	On the diffraction of acoustic waves by a quarter-plane. <i>Wave Motion</i> , 2012, 49, 64-82.	1.0	22
33	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.	2.1	22
34	On high-frequency sound generated by gustâ€aerofoil interaction in shear flow. <i>Journal of Fluid Mechanics</i> , 2015, 766, 297-325.	1.4	22
35	The importance of the unsteady Kutta condition when modelling gustâ€aerofoil interaction. <i>Journal of Sound and Vibration</i> , 2016, 378, 28-37.	2.1	22
36	The long-time behaviour of incompressible swept-wing boundary layers subject to impulsive forcing. <i>Journal of Fluid Mechanics</i> , 1998, 355, 359-381.	1.4	21

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37	Noise generation by high-frequency gusts interacting with an airfoil in transonic flow. <i>Journal of Fluid Mechanics</i> , 2000, 411, 91-130.	1.4	21
38	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.	1.2	21
39	The acoustic Green's function for swirling flow in a lined duct. <i>Journal of Sound and Vibration</i> , 2017, 395, 294-316.	2.1	21
40	An asymptotic theory of near-field propeller acoustics. <i>Journal of Fluid Mechanics</i> , 1991, 232, 285.	1.4	20
41	Three-dimensional effects in cascade-gust interaction. <i>Wave Motion</i> , 1996, 23, 321-337.	1.0	20
42	Approximate method for the prediction of propeller noise near-field effects. <i>Journal of Aircraft</i> , 1993, 30, 603-610.	1.7	19
43	ACOUSTIC PROPAGATION IN DUCTS WITH SLOWLY VARYING ELLIPTIC CROSS-SECTION. <i>Journal of Sound and Vibration</i> , 2001, 243, 381-401.	2.1	19
44	Rotor-Stator Interaction Noise in Swirling Flow: Stator Sweep and Lean Effects. <i>AIAA Journal</i> , 2006, 44, 981-991.	1.5	19
45	On the causal behaviour of flow over an elastic wall. <i>Journal of Fluid Mechanics</i> , 1999, 396, 319-344.	1.4	17
46	Does flutter prevent drag reduction by reconfiguration?. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170678.	1.0	16
47	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.	2.1	15
48	Lighthill quadrupole radiation in supersonic propeller acoustics. <i>Journal of Fluid Mechanics</i> , 1991, 223, 363.	1.4	14
49	VIBRATIONS OF SANDWICH PLATES WITH CONCENTRATED MASSES AND SPRING-LIKE INCLUSIONS. <i>Journal of Sound and Vibration</i> , 2000, 237, 203-222.	2.1	14
50	The stability of a slowly diverging swirling jet. <i>Journal of Fluid Mechanics</i> , 2002, 473, 389-411.	1.4	13
51	Resonant acoustic frequencies of a tandem cascade. Part 2. Rotating blade rows. <i>Journal of Fluid Mechanics</i> , 1999, 393, 241-256.	1.4	12
52	ON THE BEHAVIOUR OF FLUID-LOADED SANDWICH PANELS WITH MEAN FLOW. <i>Journal of Sound and Vibration</i> , 2001, 242, 597-617.	2.1	12
53	Acoustic Resonance in Aeroengine Intake Ducts. <i>Journal of Turbomachinery</i> , 2004, 126, 432-441.	0.9	12
54	Sound radiation from a semi-infinite lined duct. <i>Wave Motion</i> , 2020, 92, 102407.	1.0	12

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55	Secondary instability and tertiary states in rotating plane Couette flow. <i>Journal of Fluid Mechanics</i> , 2014, 761, 27-61.	1.4	11
56	HIGH-WAVENUMBER ACOUSTIC RADIATION FROM A THIN-WALLED SCARFED CYLINDER. <i>Journal of Sound and Vibration</i> , 2002, 255, 147-160.	2.1	10
57	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.	1.0	10
58	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.	1.4	9
59	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.	1.0	9
60	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.	0.8	9
61	Interaction of turbulence with the leading-edge stagnation point of a thin aerofoil. <i>Journal of Fluid Mechanics</i> , 2016, 798, 436-456.	1.4	9
62	Tunnelling effects for acoustic waves in slowly varying axisymmetric flow ducts. <i>Journal of Sound and Vibration</i> , 2016, 380, 180-191.	2.1	9
63	The interaction between a steady jet flow and a supersonic blade tip. <i>Journal of Fluid Mechanics</i> , 1993, 248, 543-566.	1.4	8
64	HIGH-WAVENUMBER ACOUSTIC RADIATION FROM A THIN-WALLED AXISYMMETRIC CYLINDER. <i>Journal of Sound and Vibration</i> , 2002, 255, 129-146.	2.1	8
65	Transient growth and rotor-stator interaction noise in mean swirling duct flow. <i>Journal of Sound and Vibration</i> , 2006, 295, 553-570.	2.1	8
66	Global linear stability of the boundary-layer flow over a rotating sphere. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 49, 301-307.	1.2	8
67	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.	0.5	8
68	Unsteady transonic flow past a quarter-plane. <i>Journal of Fluid Mechanics</i> , 1992, 244, 377.	1.4	7
69	On applications of high-frequency asymptotics in aeroacoustics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 673-696.	1.6	7
70	The unsteady lift on a swept blade tip. <i>Journal of Fluid Mechanics</i> , 1994, 271, 87-101.	1.4	6
71	The scattering of vorticity waves by a supersonic rectangular wing. <i>Wave Motion</i> , 1997, 25, 369-383.	1.0	6
72	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.	2.1	6

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73	Wave Excitation on Flexible Walls in The Presence of a Fluid Flow. Fluid Mechanics and Its Applications, 2003, , 119-145.	0.1	5
74	A note on the absolute instability of wakes. European Journal of Mechanics, B/Fluids, 1999, 18, 573-579.	1.2	4
75	The long-time impulse response of compressible swept-wing boundary layers. Journal of Fluid Mechanics, 1999, 379, 333-350.	1.4	4
76	Wave scattering by an infinite cascade of non-overlapping blades. Journal of Sound and Vibration, 2020, 481, 115418.	2.1	4
77	On symmetry-breaking effects in propagation of waves in sandwich plates with and without heavy fluid loading. Journal of Sound and Vibration, 2006, 295, 114-128.	2.1	2
78	Non-modal instability of annular Poiseuilleâ€“Couette flow. European Journal of Mechanics, B/Fluids, 2015, 53, 148-159.	1.2	2
79	Prediction of acoustic resonance in tandem cascades. , 1998, , .		2
80	Acoustic and hydrodynamic power of wave scattering by an infinite cascade of plates in mean flow. Journal of Sound and Vibration, 2022, 520, 116564.	2.1	2
81	Trailing-edge diffraction - Inviscid and viscid theory. , 1993, , .		1
82	Sound radiation from sources close to a corner in supersonic flow. Wave Motion, 1996, 24, 197-210.	1.0	1
83	Noise generation by a subsonic blade row with mean loading. , 1995, , .		0
84	Interaction between vorticity waves and an airfoil in transonic flow. , 1998, , .		0
85	Steady and unsteady flow in a transonic cascade with shocks. , 2000, , .		0
86	The noise downstream of a cascade of loaded airfoils. , 2001, , .		0
87	Generalised Functions in Aeroacoustics. , 2004, , 179-194.		0
88	A Causal Stability Analysis of the Boundary Layer over a Compliant Wall. , 2000, , 51-56.		0
89	Some Analytical Methods for Fluid-Structure Interaction Problems. CISM International Centre for Mechanical Sciences, Courses and Lectures, 1999, , 87-134.	0.3	0