# N Peake

List of Publications by Year
in descending order

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| 89 | 2,234 | 201385 | 243296 |
|---|---|---|---|
| papers | citations | 27 | 44 |
| | | h-index | g-index |

| 89 | 89 | 89 | 655 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Aerodynamic noise from a poroelastic edge with implications for the silent flight of owls. Journal of Fluid Mechanics, 2013, 723, 456-479. | 1.4 | 182 |
| 2 | Propagation of unsteady disturbances in a slowly varying duct with mean swirling flow. Journal of Fluid Mechanics, 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. Journal of Fluid Mechanics, 2002, 463, 25-52. | 1.4 | 97 |
| 4 | Noise generation by the interaction between ingested turbulence and a rotating fan. Journal of Fluid Mechanics, 1998, 359, 181-216. | 1.4 | 96 |
| 5 | Aeroacoustics of Silent Owl Flight. Annual Review of Fluid Mechanics, 2020, 52, 395-420. | 10.8 | 76 |
| 6 | Classification of aeroacoustically relevant surface modes in cylindrical lined ducts. Wave Motion, 2006, 43, 301-310. | 1.0 | 75 |
| 7 | Acoustic propagation and scattering in the exhaust flow from coaxial cylinders. Journal of Fluid Mechanics, 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. Journal of Fluid Mechanics, 1997, 347, 315-346. | 1.4 | 61 |
| 9 | Algebraic and exponential instability of inviscid swirling flow. Journal of Fluid Mechanics, 2006, 565, 279. | 1.4 | 59 |
| 10 | The stability and transition of the boundary layer on a rotating sphere. Journal of Fluid Mechanics, 2002, 456, 199-218. | 1.4 | 58 |
| 11 | The absolute instability of the boundary layer on a rotating cone. European Journal of Mechanics, B/Fluids, 2007, 26, 344-353. | 1.2 | 54 |
| 12 | Upstream-radiated rotorâ€“stator interaction noise in mean swirling flow. Journal of Fluid Mechanics, 2005, 523, 219-250. | 1.4 | 51 |
| 13 | The interaction between a high-frequency gust and a blade row. Journal of Fluid Mechanics, 1992, 241, 261-289. | 1.4 | 50 |
| 14 | Trapped acoustic modes in aeroengine intakes with swirling flow. Journal of Fluid Mechanics, 2000, 419, 151-175. | 1.4 | 50 |
| 15 | Sound transmission in strongly curved slowly varying cylindrical ducts with flow. Journal of Fluid Mechanics, 2008, 596, 387-412. | 1.4 | 50 |
| 16 | Transient growth in vortices with axial flow. Journal of Fluid Mechanics, 2007, 587, 271-301. | 1.4 | 45 |
| 17 | On the behaviour of a fluid-loaded cylindrical shell with mean flow. Journal of Fluid Mechanics, 1997, 338, 387-410. | 1.4 | 41 |
| 18 | The scattering of vorticity waves by an infinite cascade of flat plates in subsonic flow. Wave Motion, 1993, 18, 255-271. | 1.0 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Eigenmodes of lined flow ducts with rigid splices. Journal of Fluid Mechanics, 2012, 690, 399-425. | 1.4 | 37 |
| 20 | Global linear stability analysis of thin aerofoil wakes. Journal of Fluid Mechanics, 1997, 339, 239-260. | 1.4 | 35 |
| 21 | Nonlinear stability of a fluid-loaded elastic plate with mean flow. Journal of Fluid Mechanics, 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. Journal of Fluid Mechanics, 2004, 515, 99-133. | 1.4 | 33 |
| 23 | Active Control of Sound. Annual Review of Fluid Mechanics, 2000, 32, 137-164. | 10.8 | 32 |
| 24 | The acoustic analogy in an annular duct with swirling mean flow. Journal of Fluid Mechanics, 2013, 726, 439-475. | 1.4 | 32 |
| 25 | On high-frequency noise scattering by aerofoils in flow. Journal of Fluid Mechanics, 2013, 734, 144-182. | 1.4 | 31 |
| 26 | On the unsteady motion of a long fluid-loaded elastic plate with mean flow. Journal of Fluid Mechanics, 2004, 507, 335-366. | 1.4 | 29 |
| 27 | Acoustic scattering in a duct with mean swirling flow. Journal of Fluid Mechanics, 2005, 540, 189. | 1.4 | 29 |
| 28 | Stability and acoustic scattering in a cylindrical thin shell containing compressible mean flow. Journal of Fluid Mechanics, 2008, 602, 403-426. | 1.4 | 29 |
| 29 | Resonant acoustic frequencies of a tandem cascade. Part 1. Zero relative motion. Journal of Fluid Mechanics, 1999, 393, 215-240. | 1.4 | 28 |
| 30 | On the radiation properties of an asymmetric cylinder. Wave Motion, 1995, 22, 371-385. | 1.0 | 27 |
| 31 | Noise generation by turbulenceâ€“propeller interaction in asymmetric flow. Journal of Fluid Mechanics, 2014, 758, 121-149. | 1.4 | 27 |
| 32 | On the diffraction of acoustic waves by a quarter-plane. Wave Motion, 2012, 49, 64-82. | 1.0 | 22 |
| 33 | The propagation of acoustic waves in a slowly varying duct with radially sheared axial mean flow. Journal of Sound and Vibration, 2013, 332, 3937-3946. | 2.1 | 22 |
| 34 | On high-frequency sound generated by gustâ€“aerofoil interaction in shear flow. Journal of Fluid Mechanics, 2015, 766, 297-325. | 1.4 | 22 |
| 35 | The importance of the unsteady Kutta condition when modelling gustâ€“aerofoil interaction. Journal of Sound and Vibration, 2016, 378, 28-37. | 2.1 | 22 |
| 36 | The long-time behaviour of incompressible swept-wing boundary layers subject to impulsive forcing. Journal of Fluid Mechanics, 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. Journal of Fluid Mechanics, 2000, 411, 91-130. | 1.4 | 21 |
| 38 | The stability of the boundary layer on a sphere rotating in a uniform axial flow. European Journal of Mechanics, B/Fluids, 2004, 23, 241-253. | 1.2 | 21 |
| 39 | The acoustic Green's function for swirling flow in a lined duct. Journal of Sound and Vibration, 2017, 395, 294-316. | 2.1 | 21 |
| 40 | An asymptotic theory of near-field propeller acoustics. Journal of Fluid Mechanics, 1991, 232, 285. | 1.4 | 20 |
| 41 | Three-dimensional effects in cascade-gust interaction. Wave Motion, 1996, 23, 321-337. | 1.0 | 20 |
| 42 | Approximate method for the prediction of propeller noise near-field effects. Journal of Aircraft, 1993, 30, 603-610. | 1.7 | 19 |
| 43 | ACOUSTIC PROPAGATION IN DUCTS WITH SLOWLY VARYING ELLIPTIC CROSS-SECTION. Journal of Sound and Vibration, 2001, 243, 381-401. | 2.1 | 19 |
| 44 | Rotor-Stator Interaction Noise in Swirling Flow: Stator Sweep and Lean Effects. AIAA Journal, 2006, 44, 981-991. | 1.5 | 19 |
| 45 | On the causal behaviour of flow over an elastic wall. Journal of Fluid Mechanics, 1999, 396, 319-344. | 1.4 | 17 |
| 46 | Does flutter prevent drag reduction by reconfiguration?. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 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. Journal of Sound and Vibration, 2018, 422, 506-525. | 2.1 | 15 |
| 48 | Lighthill quadrupole radiation in supersonic propeller acoustics. Journal of Fluid Mechanics, 1991, 223, 363. | 1.4 | 14 |
| 49 | VIBRATIONS OF SANDWICH PLATES WITH CONCENTRATED MASSES AND SPRING-LIKE INCLUSIONS. Journal of Sound and Vibration, 2000, 237, 203-222. | 2.1 | 14 |
| 50 | The stability of a slowly diverging swirling jet. Journal of Fluid Mechanics, 2002, 473, 389-411. | 1.4 | 13 |
| 51 | Resonant acoustic frequencies of a tandem cascade. Part 2. Rotating blade rows. Journal of Fluid Mechanics, 1999, 393, 241-256. | 1.4 | 12 |
| 52 | ON THE BEHAVIOUR OF FLUID-LOADED SANDWICH PANELS WITH MEAN FLOW. Journal of Sound and Vibration, 2001, 242, 597-617. | 2.1 | 12 |
| 53 | Acoustic Resonance in Aeroengine Intake Ducts. Journal of Turbomachinery, 2004, 126, 432-441. | 0.9 | 12 |
| 54 | Sound radiation from a semi-infinite lined duct. Wave Motion, 2020, 92, 102407. | 1.0 | 12 |

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| 55 | Secondary instability and tertiary states in rotating plane Couette flow. Journal of Fluid Mechanics, 2014, 761, 27-61. | 1.4 | 11 |
| 56 | HIGH-WAVENUMBER ACOUSTIC RADIATION FROM A THIN-WALLED SCARFED CYLINDER. Journal of Sound and Vibration, 2002, 255, 147-160. | 2.1 | 10 |
| 57 | A nonlinear model of the dynamics of a large elastic plate with heavy fluid loading. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 2205-2224. | 1.0 | 10 |
| 58 | The viscous interaction between sound waves and the trailing edge of a supersonic splitter plate. Journal of Fluid Mechanics, 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. Journal of Computational Acoustics, 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. IMA Journal of Applied Mathematics, 2012, 77, 605-625. | 0.8 | 9 |
| 61 | Interaction of turbulence with the leading-edge stagnation point of a thin aerofoil. Journal of Fluid Mechanics, 2016, 798, 436-456. | 1.4 | 9 |
| 62 | Tunnelling effects for acoustic waves in slowly varying axisymmetric flow ducts. Journal of Sound and Vibration, 2016, 380, 180-191. | 2.1 | 9 |
| 63 | The interaction between a steady jet flow and a supersonic blade tip. Journal of Fluid Mechanics, 1993, 248, 543-566. | 1.4 | 8 |
| 64 | HIGH-WAVENUMBER ACOUSTIC RADIATION FROM A THIN-WALLED AXISYMMETRIC CYLINDER. Journal of Sound and Vibration, 2002, 255, 129-146. | 2.1 | 8 |
| 65 | Transient growth and rotorâ€“stator interaction noise in mean swirling duct flow. Journal of Sound and Vibration, 2006, 295, 553-570. | 2.1 | 8 |
| 66 | Global linear stability of the boundary-layer flow over a rotating sphere. European Journal of Mechanics, B/Fluids, 2015, 49, 301-307. | 1.2 | 8 |
| 67 | Spectral study of the Laplaceâ€“Beltrami operator arising in the problem of acoustic wave scattering by a quarter-plane. Quarterly Journal of Mechanics and Applied Mathematics, 2016, 69, 281-317. | 0.5 | 8 |
| 68 | Unsteady transonic flow past a quarter-plane. Journal of Fluid Mechanics, 1992, 244, 377. | 1.4 | 7 |
| 69 | On applications of high-frequency asymptotics in aeroacoustics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 673-696. | 1.6 | 7 |
| 70 | The unsteady lift on a swept blade tip. Journal of Fluid Mechanics, 1994, 271, 87-101. | 1.4 | 6 |
| 71 | The scattering of vorticity waves by a supersonic rectangular wing. Wave Motion, 1997, 25, 369-383. | 1.0 | 6 |
| 72 | The acoustic Greenâ€™s function for swirling flow with variable entropy in a lined duct. Journal of Sound and Vibration, 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 |