

# Randolph Chi Kin Leung

## List of Publications by Year in descending order

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papers

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623734  
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all docs

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docs citations

59  
times ranked

459  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low frequency noise control in duct based on locally resonant membrane with attached resonators. JVC/Journal of Vibration and Control, 2023, 29, 2817-2828.	2.6	3
2	Coupled structural resonance of elastic panels for suppression of airfoil tonal noise. Journal of Fluids and Structures, 2022, 110, 103506.	3.4	1
3	Distributed surface compliance for airfoil tonal noise reduction at various loading conditions. Physics of Fluids, 2022, 34, 046113.	4.0	3
4	Effect of back cavity configuration on performance of elastic panel acoustic liner with grazing flow. Journal of Sound and Vibration, 2021, 492, 115847.	3.9	9
5	Leveraging Flow-Induced Vibration for Manipulation of Airfoil Tonal Noise. , 2021, , 357-375.		0
6	Spatio-temporal aeroacousticâ€“structural responses of cavity-backed elastic panel liner exposed to grazing duct flow. Journal of Fluids and Structures, 2021, 102, 103228.	3.4	5
7	Investigation on a Duct Noise Control Method through Membranes in Tandem. Shock and Vibration, 2021, 2021, 1-6.	0.6	0
8	Interaction and acoustics of separated flows from a D-shaped bluff body. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, ahead-of-print, .	2.8	2
9	Remodelling an engineering design subject to enhance studentsâ€™ learning outcomes. International Journal of Technology and Design Education, 2020, 30, 799-814.	2.6	3
10	Exploring Airfoil Tonal Noise Reduction with Elastic Panel Using Perturbation Evolution Method. AIAA Journal, 2020, 58, 4958-4968.	2.6	6
11	Passive airfoil tonal noise reduction by localized flow-induced vibration of an elastic panel. Aerospace Science and Technology, 2020, 107, 106319.	4.8	8
12	Leveraging Surface Aeroacoustic-Structural Interaction for Airfoil Tonal Noise Reduction â€” A Parametric Study. , 2019, , .		3
13	Progress in the development of a new lattice Boltzmann method. Computers and Fluids, 2019, 190, 440-469.	2.5	15
14	Numerical Study of Nonlinear Fluidâ€“Structure Interaction of an Excited Panel in Viscous Flow. , 2019, , 253-269.		1
15	Aeroacoustics of NACA 0018 Airfoil with a Cavity. AIAA Journal, 2018, 56, 4775-4786.	2.6	13
16	Numerical Coupling Strategy for Resolving In-Duct Elastic Panel Aeroacoustic/Structural Interaction. AIAA Journal, 2018, 56, 5033-5040.	2.6	13
17	A Numerical Methodology for Resolving Aeroacoustic-Structural Response of Flexible Panel. , 2015, , 321-342.		2
18	Numerical analysis of aeroacoustic-structural interaction of a flexible panel in uniform duct flow. Journal of the Acoustical Society of America, 2015, 137, 3115-3126.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Validation of CE/SE Scheme in Low Mach Number Direct Aeroacoustic Simulation. International Journal of Nonlinear Sciences and Numerical Simulation, 2014, 15, 157-169.	1.0	18
20	Impact of Construction-Induced Vibration on Vibration-Sensitive Medical Equipment: A Case Study. Advances in Structural Engineering, 2014, 17, 907-920.	2.4	11
21	Noise generation by open inverse diffusion flames. JVC/Journal of Vibration and Control, 2014, 20, 1671-1681.	2.6	5
22	Aeroacoustics of duct junction flows merging at different angles. Journal of Sound and Vibration, 2014, 333, 4187-4202.	3.9	14
23	The effects of road surface and tyre deterioration on tyre/road noise emission. Applied Acoustics, 2013, 74, 921-925.	3.3	32
24	Aeroacoustics of T-junction merging flow. Journal of the Acoustical Society of America, 2013, 133, 697-708.	1.1	14
25	Confinement Effects on Flows Past an In-Duct Rectangular Bluff Body with Semi-Circular Leading Edge. AIP Conference Proceedings, 2011, , .	0.4	2
26	Unsteady Flow Dynamics and Acoustics of Two-Outlet Centrifugal Fan Design. , 2011, , .		1
27	One-Step Direct Aeroacoustic Simulation Using Space-Time Conservation Element and Solution Element Method. , 2011, , .		0
28	Passive noise control by enhancing aeroacoustic interference due to structural discontinuities in close proximity. Journal of Sound and Vibration, 2011, 330, 3316-3333.	3.9	7
29	Numerical simulation of sound generation in a mixing layer by the finite difference lattice Boltzmann method. Computers and Mathematics With Applications, 2010, 59, 2403-2410.	2.7	17
30	Finite Difference Lattice Boltzmann Method for Compressible Thermal Fluids. AIAA Journal, 2010, 48, 1059-1071.	2.6	15
31	Finite Difference Lattice Boltzmann Method Applied to Acoustic-Scattering Problems. AIAA Journal, 2010, 48, 354-371.	2.6	6
32	Acoustic Scattering by a Localized Thermal Disturbance. AIAA Journal, 2009, 47, 2039-2052.	2.6	3
33	Dynamic stall behavior from unsteady force measurements. Journal of Fluids and Structures, 2008, 24, 129-150.	3.4	21
34	Modeled Boltzmann Equation and Its Application to Shock-Capturing Simulation. AIAA Journal, 2008, 46, 3038-3048.	2.6	12
35	Modeled Boltzmann Equation and Its Application to Direct Aeroacoustic Simulation. AIAA Journal, 2008, 46, 1651-1662.	2.6	9
36	Recovery of Transport Coefficients in Navier-Stokes Equations from Modeled Boltzmann Equation. AIAA Journal, 2007, 45, 737-739.	2.6	3

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37	A LATTICE BOLTZMANN METHOD FOR COMPUTATION OF AEROACOUSTIC INTERACTION. International Journal of Modern Physics C, 2007, 18, 463-472.	1.7	5
38	Vortex sound due to a flexible boundary backed by a cavity in a low Mach number mean flow. Journal of the Acoustical Society of America, 2007, 121, 1345-1352.	1.1	6
39	Lattice Boltzman Method Simulation of Aeroacoustics and Nonreflecting Boundary Conditions. AIAA Journal, 2007, 45, 1703-1712.	2.6	51
40	In-duct orifice and its effect on sound absorption. Journal of Sound and Vibration, 2007, 299, 990-1004.	3.9	37
41	Vortex-induced vibration effect on fatigue life estimate of turbine blades. Journal of Sound and Vibration, 2007, 307, 698-719.	3.9	27
42	Non-Reflecting Boundary Conditions for One-Step LBM Simulation of Aeroacoustics. , 2006, , .		5
43	An Attempt to Calculate Acoustic Directivity Using LBM. , 2006, , .		3
44	Propagation Speed, Internal Energy, and Direct Aeroacoustics Simulation Using Lattice Boltzmann Method. AIAA Journal, 2006, 44, 2896-2903.	2.6	24
45	The use of networks in human resource acquisition for entrepreneurial firms: Multiple "œfit" considerations. Journal of Business Venturing, 2006, 21, 664-686.	6.3	124
46	Oscillation of second order self-conjugate differential equation with impulses. Journal of Computational and Applied Mathematics, 2006, 197, 78-88.	2.0	3
47	One-Step Aeroacoustics Simulation Using Lattice Boltzmann Method. AIAA Journal, 2006, 44, 78-89.	2.6	66
48	Comparative Study of Nonreflecting Boundary Condition for One-Step Duct Aeroacoustics Simulation. AIAA Journal, 2006, 44, 664-667.	2.6	11
49	Acoustic radiation by vortex induced flexible wall vibration. Journal of the Acoustical Society of America, 2005, 118, 2182-2189.	1.1	11
50	Aerodynamic and Structural Resonance of an Elastic Airfoil Due to Oncoming Vortices. AIAA Journal, 2004, 42, 899-907.	2.6	13
51	Flow-induced vibration of elastic slender structures in a cylinder wake. Journal of Fluids and Structures, 2004, 19, 1061-1083.	3.4	31
52	Airfoil Vibration Due to Upstream Alternating Vortices Generated by a Circular Cylinder. , 2002, , 79.		0
53	Validation of a Two-Dimensional Numerical Model for Vortex/Blade Interaction. , 2002, , 1169.		2
54	Analysis of Fluid-Structure Interaction of an Elastic Blade in Cascade. , 2002, , .		0

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55	On sound radiated from a perturbed vortex ring. Acta Mechanica, 2001, 146, 43-58.	2.1	0
56	NOISE GENERATION OF BLADEâ€“VORTEX RESONANCE. Journal of Sound and Vibration, 2001, 245, 217-237.	3.9	12
57	THE INTERACTION OF PERTURBED VORTEX RINGS AND ITS SOUND GENERATION. PART II. Journal of Sound and Vibration, 1999, 228, 511-541.	3.9	6
58	THE INTERACTION OF PERTURBED VORTEX RINGS AND ITS SOUND GENERATION. Journal of Sound and Vibration, 1997, 202, 1-27.	3.9	10
59	Interaction of flow structures within bistable flow behind two circular cylinders of different diameters. Experimental Thermal and Fluid Science, 1996, 12, 33-44.	2.7	13