Yeo Ks

List of Publications by Year in Descending Order

115 papers	3,329 citations	30 h-index	54 g-index
124 ext. papers	3,694 ext. citations	2.9 avg, IF	5.21 L-index

#	Paper	IF	Citations
115	The Effect of Wing Mass and Wing Elevation Motion During Insect Forward Flight. *Lecture Notes in Computer Science*, **2022**, 31-42	0.9	
114	Effect and correction of control delay in longitudinal dynamics of insect hovering flight. *Physical Review E*, **2021**, 104, 044410	2.4	
113	Forward flight and sideslip manoeuvre of a model hawkmoth. *Journal of Fluid Mechanics*, **2020**, 896,	3.7	6
112	Combined effects of amplitude, frequency and bandwidth on wavepackets in laminar turbulent transition. *Computers and Fluids*, **2020**, 197, 104358	2.8	1
111	A simplified dynamic model for controlled insect hovering flight and control stability analysis. *Bioinspiration and Biomimetics*, **2019**, 14, 056005	2.6	3
110	Free hovering of hummingbird hawkmoth and effects of wing mass and wing elevation. *Computers and Fluids*, **2019**, 186, 99-127	2.8	10
109	A Numerical Study on Free Hovering Fruit-Fly with Flexible Wings. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2019**, 15-25	0.3	1
108	Manoeuvring flight of a model insect□accadic yaw and sideslip. *Computers and Fluids*, **2019**, 180, 54-67	2.8	4
107	A Relationship Between Sweep Angle of Flapping Pectoral Fins and Thrust Generation. *Journal of Mechanisms and Robotics*, **2019**, 11,	2.2	7
106	Enhanced thrust performance of a two dimensional elliptic airfoil at high flapping frequency in a forward flight. *Journal of Fluids and Structures*, **2018**, 76, 37-59	3.1	14
105	Effect of pectoral fin kinematics on manta ray propulsion. *Modern Physics Letters B*, **2018**, 32, 1840025	1.6	2
104	Longitudinal free flight of a model insect flyer at low Reynolds number. *Computers and Fluids*, **2018**, 162, 72-90	2.8	9
103	Wing□Wake Interaction of Three-Dimensional Flapping Wings. *AIAA Journal*, **2017**, 55, 729-739	2.1	12
102	Hybrid POD-FFT analysis of nonlinear evolving coherent structures of DNS wavepacket in laminar-turbulent transition. *Physics of Fluids*, **2017**, 29, 084105	4.4	7
101	Ground effect on the aerodynamics of three-dimensional hovering wings. *Bioinspiration and Biomimetics*, **2016**, 11, 066003	2.6	18
100	Forward and Inverse 3D Fourier Transforms of a DNS Wavepacket Evolving in a Blasius Boundary Layer **2016**, 416-424		
99	Modeling and analysis of insect-like flexible wings at low Reynolds number. *Journal of Fluids and Structures*, **2016**, 62, 294-317	3.1	23

98	Aerodynamics of two-dimensional flapping wings in tandem configuration. *Physics of Fluids*, **2016**, 28, 121901	4.4	46
97	Design and Characterization of a Novel T-Shaped Multi-Axis Piezoresistive Force/Moment Sensor. *IEEE Sensors Journal*, **2016**, 16, 4198-4210	4	14
96	Aerodynamic Effects of Elevating Motion on Hovering Rigid Hawkmothlike Wings. *AIAA Journal*, **2016**, 54, 2247-2264	2.1	22
95	A quasi-steady aerodynamic model for flapping flight with improved adaptability. *Bioinspiration and Biomimetics*, **2016**, 11, 036005	2.6	41
94	On the thrust performance of a flapping two-dimensional elliptic airfoil in a forward flight. *Journal of Fluids and Structures*, **2016**, 66, 91-109	3.1	22
93	Towards a realistic fruitfly wing model with flexibility **2015**,		1
92	The Combined Effects of Wavepacket Frequency, Amplitude and Bandwidth on its Transition Process in a Boundary Layer. *Procedia IUTAM*, **2015**, 14, 364-373		4
91	Development of propulsion mechanism for Robot Manta Ray **2015**,		11
90	Effects of pitching phase angle and amplitude on a two-dimensional flapping wing in hovering mode. *Experiments in Fluids*, **2015**, 56, 1	2.5	15
89	Scaling of Aerodynamic Forces of Three-Dimensional Flapping Wings. *AIAA Journal*, **2014**, 52, 1095-1101	2.1	45
88	A numerical study on the free hovering flight of a model insect at low Reynolds number. *Computers and Fluids*, **2014**, 103, 234-261	2.8	15
87	Ground effect on the aerodynamics of a two-dimensional oscillating airfoil. *Experiments in Fluids*, **2014**, 55, 1	2.5	16
86	A high order meshless method with compact support. *Journal of Computational Physics*, **2014**, 272, 70-87	4.1	5
85	EXPERIMENTAL STUDY OF GROUND EFFECT ON THREE-DIMENSIONAL INSECT-LIKE FLAPPING MOTION. *International Journal of Modern Physics Conference Series*, **2014**, 34, 1460384	0.7	2
84	Experimental Study of Two-Dimensional Flapping Wings in Tandem Configuration **2013**,		1
83	The Effect of Wavepacket Frequency Bandwidth on the Laminar-Turbulent Transition Process in a Blasius Boundary Layer **2013**,		1
82	Effect of wing–wake interaction on aerodynamic force generation on a 2D flapping wing. *Experiments in Fluids*, **2011**, 51, 177-195	2.5	52
81	A three-dimensional hybrid meshfree-Cartesian scheme for fluid–body interaction. *International Journal for Numerical Methods in Engineering*, **2011**, 88, 385-408	2.4	13

80	DNS of wavepacket evolution in a Blasius boundary layer. *Journal of Fluid Mechanics*, **2010**, 652, 333-372	3.7	29
79	A rotating elliptic airfoil in fluid at rest and in a parallel freestream. *Experiments in Fluids*, **2010**, 49, 1065-1084	2.5	13
78	On the aerodynamic characteristics of hovering rigid and flexible hawkmoth-like wings. *Experiments in Fluids*, **2010**, 49, 1263-1291	2.5	50
77	Dissipative particle dynamics simulations for fibre suspensions in newtonian and viscoelastic fluids. *Computer Methods in Applied Mechanics and Engineering*, **2010**, 199, 1593-1602	5.7	9
76	SVD□GFD scheme to simulate complex moving body problems in 3D space. *Journal of Computational Physics*, **2010**, 229, 2314-2338	4.1	9
75	Simulation of fish swimming and manoeuvring by an SVD-GFD method on a hybrid meshfree-Cartesian grid. *Computers and Fluids*, **2010**, 39, 403-430	2.8	26
74	ON THE PROLONG ATTACHMENT OF LEADING EDGE VORTEX ON A FLAPPING WING. *Modern Physics Letters B*, **2009**, 23, 357-360	1.6	19
73	Aerodynamic forces and flow fields of a two-dimensional hovering wing. *Experiments in Fluids*, **2008** , 45, 1047-1065	2.5	28
72	A singular-value decomposition (SVD)-based generalized finite difference (GFD) method for close-interaction moving boundary flow problems. *International Journal for Numerical Methods in Engineering*, **2008**, 76, 1892-1929	2.4	16
71	A SVD-GFD scheme for computing 3D incompressible viscous fluid flows. *Computers and Fluids*, **2008**, 37, 733-746	2.8	21
70	Instability of Taylor□ouette flow between concentric rotating cylinders. *International Journal of Thermal Sciences*, **2008**, 47, 1422-1435	4.1	75
69	Wake-Structure Formation of a Heaving Two-Dimensional Elliptic Airfoil. *AIAA Journal*, **2007**, 45, 1571-1583	2.3	52
68	Numerical simulation of flows around two circular cylinders by mesh-free least square-based finite difference methods. *International Journal for Numerical Methods in Fluids*, **2007**, 53, 305-332	1.9	109
67	Energy loss distribution in the plane Couette flow and the Taylor□ouette flow between concentric rotating cylinders. *International Journal of Thermal Sciences*, **2007**, 46, 262-275	4.1	28
66	Simulations of fibre orientation in dilute suspensions with front moving in the filling process of a rectangular channel using level-set method. *Rheologica Acta*, **2007**, 46, 427-447	2.3	17
65	DNS of low Reynolds number turbulent flows in dimpled channels. *Journal of Turbulence*, **2006**, 7, N37	2.1	18
64	On two-dimensional linear waves in Blasius boundary layer over viscoelastic layers. *European Journal of Mechanics, B/Fluids*, **2006**, 25, 33-58	2.4	8
63	Numerical simulation of fibre suspension flow through an axisymmetric contraction and expansion passages by Brownian configuration field method. *Chemical Engineering Science*, **2006**, 61, 4998-5009	4.4	18

62	Numerical computation of three-dimensional incompressible viscous flows in the primitive variable form by local multiquadric differential quadrature method. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 195, 516-533	5.7	52
61	A generalized finite-difference (GFD) ALE scheme for incompressible flows around moving solid bodies on hybrid meshfree□artesian grids. *Journal of Computational Physics*, **2006**, 218, 510-548	4.1	46
60	Incipient separation in shock wave/boundary layer interactions as induced by sharp fin. *Shock Waves*, **2006**, 15, 425-436	1.6	0
59	Vortex ring modelling of toroidal bubbles. *Theoretical and Computational Fluid Dynamics*, **2005**, 19, 303-317	2.3	63
58	Spatial direct numerical simulation of transitional boundary layer over compliant surfaces. *Computers and Fluids*, **2005**, 34, 1062-1095	2.8	14
57	SIMULATION OF NATURAL CONVECTION IN ECCENTRIC ANNULI BETWEEN A SQUARE OUTER CYLINDER AND A CIRCULAR INNER CYLINDER USING LOCAL MQ-DQ METHOD. *Numerical Heat Transfer; Part A: Applications*, **2005**, 47, 291-313	2.3	45
56	Development of least-square-based two-dimensional finite-difference schemes and their application to simulate natural convection in a cavity. *Computers and Fluids*, **2004**, 33, 137-154	2.8	74
55	Simulation of front evolving liquid film flowing down an inclined plate using level set method. *Computational Mechanics*, **2004**, 34, 271	4	5
54	Simulation of incompressible viscous flows past a circular cylinder by hybrid FD scheme and meshless least square-based finite difference method. *Computer Methods in Applied Mechanics and Engineering*, **2004**, 193, 727-744	5.7	108
53	Solution of partial differential equations by a global radial basis function-based differential quadrature method. *Engineering Analysis With Boundary Elements*, **2004**, 28, 1217-1226	2.6	51
52	Underwater shock-free surface□tructure interaction. *International Journal for Numerical Methods in Engineering*, **2003**, 58, 609-630	2.4	12
51	Ghost fluid method for strong shock impacting on material interface. *Journal of Computational Physics*, **2003**, 190, 651-681	4.1	210
50	Local radial basis function-based differential quadrature method and its application to solve two-dimensional incompressible Navier□tokes equations. *Computer Methods in Applied Mechanics and Engineering*, **2003**, 192, 941-954	5.7	341
49	Elastic mesh technique for 3D BIM simulation with an application to underwater explosion bubble dynamics. *Computers and Fluids*, **2003**, 32, 1195-1212	2.8	70
48	The merging of two gaseous bubbles with an application to underwater explosions. *Computers and Fluids*, **2003**, 32, 1049-1074	2.8	71
47	Flow-Induced Waves on Compliant Surfaces Subject to a Turbulent Boundary Layer. *Fluid Mechanics and Its Applications*, **2003**, 253-274	0.2	1
46	BY-PASS MECHANISM OF TRANSITION TO TURBULENCE. *Journal of Fluids and Structures*, **2002**, 16, 15-29	3.1	18
45	Numerical analysis of flow and thermal fields in arbitrary eccentric annulus by differential quadrature method. *Heat and Mass Transfer*, **2002**, 38, 597-608	2.2	21

44	Block-marching in time with DQ discretization: an efficient method for time-dependent problems. *Computer Methods in Applied Mechanics and Engineering*, **2002**, 191, 4587-4597	5.7	46
43	The simulation of compressible multi-medium flow. *Computers and Fluids*, **2001**, 30, 315-337	2.8	51
42	The simulation of compressible multi-medium flow. I. A new methodology with test applications to 1D gas–gas and gas–water cases. *Computers and Fluids*, **2001**, 30, 291-314	2.8	51
41	3D Jet Impact and Toroidal Bubbles. *Journal of Computational Physics*, **2001**, 166, 336-360	4.1	149
40	Stagnation and rotating-disk flows over a compliant surface. *Zeitschrift Fur Angewandte Mathematik Und Physik*, **2001**, 52, 770-792	1.6	
39	Absolute Instability of a Potential Flow over Plate-Spring System. *AIAA Journal*, **2001**, 39, 740-742	2.1	1
38	Turbulent boundary layer over a compliant surface: absolute and convective instabilities. *Journal of Fluid Mechanics*, **2001**, 449, 141-168	3.7	19
37	An indirect boundary element method for three-dimensional explosion bubbles **2001**, 1401-1406		
36	3D Toroidal Bubbles Near a Rigid Wall. *Fluid Mechanics and Its Applications*, **2001**, 353-360	0.2	2
35	A Comparison of Simulation Results with Experiment on Water Mitigation of an Explosion. *Shock and Vibration*, **1999**, 6, 73-80	1.1	16
34	THE CONVECTIVE AND ABSOLUTE INSTABILITY OF FLUID FLOW OVER VISCOELASTIC COMPLIANT LAYERS. *Journal of Sound and Vibration*, **1999**, 223, 379-398	3.9	17
33	The numerical simulations of explosion and implosion in air: use of a modified Harten's TVD scheme. *International Journal for Numerical Methods in Fluids*, **1999**, 31, 661-680	1.9	23
32	Simulation of three-dimensional bubbles using desingularized boundary integral method. *International Journal for Numerical Methods in Fluids*, **1999**, 31, 1311-1320	1.9	17
31	Three-Dimensional Computation of Bubbles Near a Free Surface. *Journal of Computational Physics*, **1998**, 146, 105-123	4.1	53
30	On the performance of three iterative methods for solution of GDQ algebraic equations. *Computer Methods in Applied Mechanics and Engineering*, **1998**, 167, 1-15	5.7	9
29	A three-dimensional modeling of wire sweep incorporating resin cure. *IEEE Transactions on Advanced Packaging*, **1998**, 21, 65-72		17
28	Optimization of Viscoelastic Compliant Walls for Transition Delay. *AIAA Journal*, **1998**, 36, 656-658	2.1	4
27	Modeling Mitigation Effects of Watershield on Shock Waves. *Shock and Vibration*, **1998**, 5, 225-234	1.1	51

26	The axisymmetric boundary layer beneath a Rankine-like vortex. *Experiments in Fluids*, **1997**, 22, 300-311	2.5	1
25	Vortex breakdown in an unconfined vortical flow. *Experimental Thermal and Fluid Science*, **1997**, 14, 131-148	3	10
24	A numerical study of the effect of free surface and water depth on the stability of wakes: use of GDQ formulation. *International Journal for Numerical Methods in Fluids*, **1997**, 24, 1079-1090	1.9	2
23	Solutions of three-dimensional boundary layer equations by global methods of generalized differential-integral quadrature. *International Journal of Numerical Methods for Heat and Fluid Flow*, **1996**, 6, 61-75	4.5	13
22	Strong interaction between a buoyancy bubble and a free surface. *Theoretical and Computational Fluid Dynamics*, **1996**, 8, 73-88	2.3	135
21	The absolute instability of boundary-layer flow over viscoelastic walls. *Theoretical and Computational Fluid Dynamics*, **1996**, 8, 237-252	2.3	26
20	Numerical studies of unsteady boundary layer flows past an impulsively started circular cylinder by GDQ and GIQ approaches. *Computer Methods in Applied Mechanics and Engineering*, **1996**, 135, 229-241	5.7	17
19	Nonlinear interaction between gas bubble and free surface. *Computers and Fluids*, **1996**, 25, 607-628	2.8	169
18	The absolute instability of boundary-layer flow over viscoelastic walls **1996**, 8, 237		1
17	Application of gdq scheme to simulate incompressible viscous flows around complex geometries. *Mechanics Research Communications*, **1995**, 22, 319-325	2.2	16
16	. *IEEE Transactions on Advanced Packaging*, **1995**, 18, 201-209		12
15	Wirebond Deformation During Molding of IC Packages. *Journal of Electronic Packaging, Transactions of the ASME*, **1995**, 117, 14-19	2	10
14	Numerical solutions of incompressible Navier-Stokes equations by generalized differential quadrature. *Finite Elements in Analysis and Design*, **1994**, 18, 83-97	2.2	30
13	Triple-region structure for turbulent flow in a square duct: A finite element approach. *Finite Elements in Analysis and Design*, **1994**, 18, 183-202	2.2	
12	The Stability of Flow Over Periodically Supported Plates-Potential Flow. *Journal of Fluids and Structures*, **1994**, 8, 331-354	3.1	2
11	The Linear Stability of Boundary-Layer Flow over Compliant Walls□The Effects of the Wall Mean State, Induced by Flow Loading. *Journal of Fluids and Structures*, **1994**, 8, 529-551	3.1	9
10	Application of GDQ scheme to simulate natural convection in a square cavity. *International Communications in Heat and Mass Transfer*, **1994**, 21, 809-817	5.8	12
9	Computation of turbulent flow in a square duct: aspects of the secondary flow and its origin. *Computers and Fluids*, **1994**, 23, 157-176	2.8	3

8	The linear stability of boundary-layer flow over compliant walls: effects of boundary-layer growth. *Journal of Fluid Mechanics*, **1994**, 280, 199-225	3.7	13
7	Note on the inviscid stability of flow over a compliant wall. *Journal of Fluid Mechanics*, **1994**, 279, 165-168	3.7	3
6	Effusing core at the center of A potential vortex. *Experimental Thermal and Fluid Science*, **1993**, 7, 307-318	3	1
5	The three-dimensional stability of boundary-layer flow over compliant walls. *Journal of Fluid Mechanics*, **1992**, 238, 537-577	3.7	19
4	The hydrodynamic stability of boundary-layer flow over a class of anisotropic compliant walls. *Journal of Fluid Mechanics*, **1990**, 220, 125-160	3.7	21
3	The stability of boundary-layer flow over single-and multi-layer viscoelastic walls. *Journal of Fluid Mechanics*, **1988**, 196, 359-408	3.7	53
2	The stability of inviscid flows over passive compliant walls. *Journal of Fluid Mechanics*, **1987**, 183, 265-292	3.7	30
1	Convection in eccentric annuli with inner cylinder rotation. *AIAA Journal*, **1986**, 24, 170-171	2.1	4