List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6552700/publications.pdf Version: 2024-02-01



HAOLU

#	Article	IF	CITATIONS
1	Near- and far-field aerodynamics in insect hovering flight: an integrated computational study. Journal of Experimental Biology, 2008, 211, 239-257.	1.7	227
2	Flapping Wings and Aerodynamic Lift: The Role of Leading-Edge Vortices. AIAA Journal, 2007, 45, 2817-2819.	2.6	200
3	Integrated modeling of insect flight: From morphology, kinematics to aerodynamics. Journal of Computational Physics, 2009, 228, 439-459.	3.8	173
4	A fluid–structure interaction model of insect flight with flexible wings. Journal of Computational Physics, 2012, 231, 1822-1847.	3.8	165
5	Multi-scale modeling of the human cardiovascular system with applications to aortic valvular and arterial stenoses. Medical and Biological Engineering and Computing, 2009, 47, 743-755.	2.8	160
6	Aerodynamic performance of a hovering hawkmoth with flexible wings: a computational approach. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 722-731.	2.6	156
7	Downlink Energy Efficiency of Power Allocation and Wireless Backhaul Bandwidth Allocation in Heterogeneous Small Cell Networks. IEEE Transactions on Communications, 2018, 66, 1705-1716.	7.8	145
8	Aerodynamics, sensing and control of insect-scale flapping-wing flight. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150712.	2.1	104
9	A computational model study of the influence of the anatomy of the circle of willis on cerebral hyperperfusion following carotid artery surgery. BioMedical Engineering OnLine, 2011, 10, 84.	2.7	94
10	Biomechanics and biomimetics in insect-inspired flight systems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150390.	4.0	93
11	Simulation of Hemodynamic Responses to the Valsalva Maneuver: An Integrative Computational Model of the Cardiovascular System and the Autonomic Nervous System. Journal of Physiological Sciences, 2006, 56, 45-65.	2.1	81
12	Body dynamics and hydrodynamics of swimming fish larvae: a computational study. Journal of Experimental Biology, 2012, 215, 4015-4033.	1.7	73
13	A CFD-informed quasi-steady model of flapping-wing aerodynamics. Journal of Fluid Mechanics, 2015, 783, 323-343.	3.4	70
14	Perturbation analysis of 6DoF flight dynamics and passive dynamic stability of hovering fruit fly Drosophila melanogaster. Journal of Theoretical Biology, 2011, 270, 98-111.	1.7	61
15	Owl-inspired leading-edge serrations play a crucial role in aerodynamic force production and sound suppression. Bioinspiration and Biomimetics, 2017, 12, 046008.	2.9	59
16	A Closed-Loop Lumped Parameter Computational Model for Human Cardiovascular System. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2005, 48, 484-493.	0.3	57
17	Hemodynamic performance of the Fontan circulation compared with a normal biventricular circulation: a computational model study. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1056-H1072.	3.2	50
18	A one-dimensional thermo-fluid model of blood circulation in the human upper limb. International Journal of Heat and Mass Transfer, 2004, 47, 2735-2745.	4.8	49

#	Article	lF	CITATIONS
19	Bumblebees minimize control challenges by combining active and passive modes in unsteady winds. Scientific Reports, 2016, 6, 35043.	3.3	46
20	A Numerical Analysis of Dynamic Flight Stability of Hawkmoth Hovering. Journal of Biomechanical Science and Engineering, 2009, 4, 105-116.	0.3	44
21	Micro air vehicle-motivated computational biomechanics in bio-flights: aerodynamics, flight dynamics and maneuvering stability. Acta Mechanica Sinica/Lixue Xuebao, 2010, 26, 863-879.	3.4	41
22	Unsteady bio-fluid dynamics in flying and swimming. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 663-684.	3.4	39
23	Novel flight style and light wings boost flight performance of tiny beetles. Nature, 2022, 602, 96-100.	27.8	39
24	Computational study on near wake interaction between undulation body and a D-section cylinder. Ocean Engineering, 2011, 38, 673-683.	4.3	38
25	On the energetics and stability of a minimal fish school. PLoS ONE, 2019, 14, e0215265.	2.5	37
26	Computational Biological Fluid Dynamics: Digitizing and Visualizing Animal Swimming and Flying. Integrative and Comparative Biology, 2002, 42, 1050-1059.	2.0	35
27	Aerodynamic Ground Effect in Fruitfly Sized Insect Takeoff. PLoS ONE, 2016, 11, e0152072.	2.5	33
28	Near wake vortex dynamics of a hovering hawkmoth. Acta Mechanica Sinica/Lixue Xuebao, 2009, 25, 23-36.	3.4	32
29	Effect of torsional stiffness and inertia on the dynamics of low aspect ratio flapping wings. Bioinspiration and Biomimetics, 2014, 9, 016008.	2.9	32
30	Numerical Study of Cerebroarterial Hemodynamic Changes Following Carotid Artery Operation: A Comparison Between Multiscale Modeling and Stand-Alone Three-Dimensional Modeling. Journal of Biomechanical Engineering, 2015, 137, 101011.	1.3	31
31	The dynamics of passive feathering rotation in hovering flight of bumblebees. Journal of Fluids and Structures, 2019, 91, 102628.	3.4	31
32	Aerodynamic performance of a bristled wing of a very small insect. Experiments in Fluids, 2020, 61, 1.	2.4	31
33	Escape trajectories are deflected when fish larvae intercept their own C-start wake. Journal of the Royal Society Interface, 2014, 11, 20140848.	3.4	30
34	Influence of aging-induced flow waveform variation on hemodynamics in aneurysms present at the internal carotid artery: A computational model-based study. Computers in Biology and Medicine, 2018, 101, 51-60.	7.0	30
35	Flexible flapping wings with self-organized microwrinkles. Bioinspiration and Biomimetics, 2015, 10, 046005.	2.9	29
36	A robust biomimetic blade design for micro wind turbines. Renewable Energy, 2018, 125, 155-165.	8.9	29

#	Article	IF	CITATIONS
37	Vortical Structure and Aerodynamics of Hawkmoth Hovering. Journal of Biomechanical Science and Engineering, 2006, 1, 234-245.	0.3	28
38	Quantifying the dynamic wing morphing of hovering hummingbird. Royal Society Open Science, 2017, 4, 170307.	2.4	28
39	Effects of arterial blood flow on walls of the abdominal aorta: distributions of wall shear stress and oscillatory shear index determined by phase-contrast magnetic resonance imaging. Heart and Vessels, 2016, 31, 1168-1175.	1.2	27
40	Multi-fin kinematics and hydrodynamics in pufferfish steady swimming. Ocean Engineering, 2018, 158, 111-122.	4.3	26
41	Sensitivity of flow patterns in aneurysms on the anterior communicating artery to anatomic variations of the cerebral arterial network. Journal of Biomechanics, 2016, 49, 3731-3740.	2.1	25
42	Fish larvae exploit edge vortices along their dorsal and ventral fin folds to propel themselves. Journal of the Royal Society Interface, 2016, 13, 20160068.	3.4	25
43	Morphology Effects of Leading-edge Serrations on Aerodynamic Force Production: An Integrated Study Using PIV and Force Measurements. Journal of Bionic Engineering, 2018, 15, 661-672.	5.0	24
44	A multi-body dynamics based numerical modelling tool for solving aquatic biomimetic problems. Bioinspiration and Biomimetics, 2018, 13, 056001.	2.9	24
45	The gust-mitigating potential of flapping wings. Bioinspiration and Biomimetics, 2016, 11, 046010.	2.9	23
46	Flow instability detected in ruptured versus unruptured cerebral aneurysms at the internal carotid artery. Journal of Biomechanics, 2018, 72, 187-199.	2.1	23
47	Patientâ€specific assessment of cardiovascular function by combination of clinical data and computational model with applications to patients undergoing Fontan operation. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1000-1018.	2.1	22
48	Effect of elasticity on wall shear stress inside cerebral aneurysm at anterior cerebral artery. Technology and Health Care, 2016, 24, 349-357.	1.2	22
49	Bees with attitude: the effects of directed gusts on flight trajectories. Biology Open, 2018, 7, .	1.2	22
50	Ground Effect in Fruit Fly Hovering: A Three-Dimensional Computational Study. Journal of Biomechanical Science and Engineering, 2013, 8, 344-355.	0.3	21
51	Multi-scale modeling of hemodynamics in the cardiovascular system. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 446-464.	3.4	21
52	Flapping wing aerodynamics of a numerical biological flyer model in hovering flight. Computers and Fluids, 2013, 85, 85-92.	2.5	20
53	Cardiovascular diseaseâ€induced thermal responses during passive heat stress: an integrated computational study. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02768.	2.1	20
54	Forewings match the formation of leading-edge vortices and dominate aerodynamic force production in revolving insect wings. Bioinspiration and Biomimetics, 2018, 13, 016009.	2.9	20

#	Article	IF	CITATIONS
55	Development of Bio-Inspired Low-Noise Propeller for a Drone. Journal of Robotics and Mechatronics, 2018, 30, 337-343.	1.0	20
56	A multi-scale computational method applied to the quantitative evaluation of the left ventricular function. Computers in Biology and Medicine, 2007, 37, 700-715.	7.0	19
57	Personalized Hemodynamic Modeling of the Human Cardiovascular System: A Reduced-Order Computing Model. IEEE Transactions on Biomedical Engineering, 2020, 67, 2754-2764.	4.2	19
58	Effects of wing-to-body mass ratio on insect flapping flights. Physics of Fluids, 2021, 33, .	4.0	19
59	A CFD data-driven aerodynamic model for fast and precise prediction of flapping aerodynamics in various flight velocities. Journal of Fluid Mechanics, 2021, 915, .	3.4	19
60	Effects of wing deformation on aerodynamic performance of a revolving insect wing. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 819-827.	3.4	18
61	Biomimetic Riblets Inspired by Sharkskin Denticles: Digitizing, Modeling and Flow Simulation. Journal of Bionic Engineering, 2018, 15, 999-1011.	5.0	18
62	Measurement of time-varying kinematics of a dolphin in burst accelerating swimming. PLoS ONE, 2019, 14, e0210860.	2.5	18
63	Blood flow dynamic improvement with aneurysm repair detected by a patient-specific model of multiple aortic aneurysms. Heart and Vessels, 2014, 29, 404-412.	1.2	17
64	Total Cavopulmonary Connection is Superior to Atriopulmonary Connection Fontan in Preventing Thrombus Formation: Computer Simulation of Flow-Related Blood Coagulation. Pediatric Cardiology, 2015, 36, 1436-1441.	1.3	17
65	Energy Efficient Joint User Association and Power Allocation in a Two-Tier Heterogeneous Network. , 2016, , .		17
66	Energy efficient power allocation and backhaul design in heterogeneous small cell networks. , 2016, , .		17
67	A simulation-based study on longitudinal gust response of flexible flapping wings. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 1048-1060.	3.4	17
68	Optimization of Motion of a Mechanical Pectoral Fin. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 1356-1362.	0.3	16
69	Gravitational effects on global hemodynamics in different postures: A closed-loop multiscale mathematical analysis. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 595-618.	3.4	16
70	Does a revolving wing stall at low Reynolds numbers?. Journal of Biomechanical Science and Engineering, 2015, 10, 15-00588-15-00588.	0.3	15
71	Effect of Ducted Multi-Propeller Configuration on Aerodynamic Performance in Quadrotor Drone. Drones, 2021, 5, 101.	4.9	15
72	Fishes regulate tail-beat kinematics to minimize speed-specific cost of transport. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211601.	2.6	15

#	Article	IF	CITATIONS
73	Bristled-wing design of materials, microstructures, and aerodynamics enables flapping flight in tiny wasps. IScience, 2022, 25, 103692.	4.1	15
74	Computational fluid dynamics study of the end-side and sequential coronary artery bypass anastomoses in a native coronary occlusion modelâ€. Interactive Cardiovascular and Thoracic Surgery, 2018, 26, 583-589.	1.1	14
75	Aerodynamic robustness in owl-inspired leading-edge serrations: a computational wind-gust model. Bioinspiration and Biomimetics, 2018, 13, 056002.	2.9	14
76	Recent R&D Technologies and Future Prospective of Flying Robot in Tough Robotics Challenge. Springer Tracts in Advanced Robotics, 2019, , 77-142.	0.4	14
77	Effects of Reynolds Number and Distribution on Passive Flow Control in Owl-Inspired Leading-Edge Serrations. Integrative and Comparative Biology, 2020, 60, 1135-1146.	2.0	14
78	A Three-axis PD Control Model for Bumblebee Hovering Stabilization. Journal of Bionic Engineering, 2018, 15, 494-504.	5.0	12
79	Computational investigation on a self-propelled pufferfish driven by multiple fins. Ocean Engineering, 2020, 197, 106908.	4.3	12
80	NUMERICAL AND EXPERIMENTAL STUDY ON THE RELATIONSHIP BETWEEN BLOOD CIRCULATION AND PERIPHERAL TEMPERATURE. Journal of Mechanics in Medicine and Biology, 2005, 05, 39-53.	0.7	11
81	Closed-form solution for the edge vortex of a revolving plate. Journal of Fluid Mechanics, 2017, 821, 200-218.	3.4	11
82	Multiscale modeling of the cardiovascular system for infants, children, and adolescents: Age-related alterations in cardiovascular parameters and hemodynamics. Computers in Biology and Medicine, 2019, 108, 200-212.	7.0	11
83	Evaluation of drag force of a thrip wing by using a microcantilever. Journal of Applied Physics, 2019, 126, 224701.	2.5	11
84	Modulation of Flight Muscle Recruitment and Wing Rotation Enables Hummingbirds to Mitigate Aerial Roll Perturbations. Current Biology, 2020, 30, 187-195.e4.	3.9	11
85	Aeroacoustic interaction between owl-inspired trailing-edge fringes and leading-edge serrations. Physics of Fluids, 2022, 34, .	4.0	11
86	Computation of Self-Propelled Swimming in Larva Fishes. Journal of Biomechanical Science and Engineering, 2009, 4, 54-66.	0.3	10
87	The Effects of Brachial Arterial Stiffening on The Accuracy of Oscillometric Blood Pressure Measurement: A Computational Model Study. Journal of Biomechanical Science and Engineering, 2012, 7, 15-30.	0.3	10
88	Exploring potential association between flow instability and rupture in patients with matched-pairs of ruptured–unruptured intracranial aneurysms. BioMedical Engineering OnLine, 2016, 15, 166.	2.7	10
89	Mathematical Modeling and Control of a Cost Effective AC Voltage Stabilizer. IEEE Transactions on Power Electronics, 2016, 31, 8007-8016.	7.9	10
90	Flexible Flaps Inspired by Avian Feathers Can Enhance Aerodynamic Robustness in low Reynolds Number Airfoils. Frontiers in Bioengineering and Biotechnology, 2021, 9, 612182.	4.1	10

#	Article	IF	CITATIONS
91	Computational Modeling of Left Ventricle Dynamics and Flow Based on Ultrasonographic Data. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 1321-1329.	0.3	9
92	Development of Mixed Flow Fans with Bio-Inspired Grooves. Biomimetics, 2019, 4, 72.	3.3	9
93	Simulation-based insect-inspired flight systems. Current Opinion in Insect Science, 2020, 42, 105-109.	4.4	9
94	A machine learning strategy for fast prediction of cardiac function based on peripheral pulse wave. Computer Methods and Programs in Biomedicine, 2022, 216, 106664.	4.7	9
95	Morphological effects of leading-edge serrations on the acoustic signatures of mixed flow fan. Physics of Fluids, 2022, 34, .	4.0	9
96	A Free-Flight Simulation of Insect Flapping Flight. Journal of Aero Aqua Bio-mechanisms, 2010, 1, 71-79.	1.0	8
97	On the interference of vorticity and pressure fields of a minimal fish school. Journal of Aero Aqua Bio-mechanisms, 2019, 8, 27-33.	1.0	8
98	Low Reynolds number aerodynamics of leading-edge and trailing-edge hinged control surfaces: Part I statics. Aerospace Science and Technology, 2020, 99, 105563.	4.8	8
99	A Biomimetic Rotor-configuration Design for Optimal Aerodynamic Performance in Quadrotor Drone. Journal of Bionic Engineering, 2021, 18, 824-839.	5.0	8
100	Dynamics of Actin Stress Fibers and Focal Adhesions during Slow Migration in Swiss 3T3 Fibroblasts: Intracellular Mechanism of Cell Turning. BioMed Research International, 2016, 2016, 1-16.	1.9	7
101	Flexibility Effects of a Flapping Mechanism Inspired by Insect Musculoskeletal System on Flight Performance. Frontiers in Bioengineering and Biotechnology, 2021, 9, 612183.	4.1	7
102	A slower rate of sulcal widening in the brains of the nondemented oldest old. NeuroImage, 2021, 229, 117740.	4.2	7
103	Hydrodynamical Fingerprint of a Neighbour in a Fish Lateral Line. Frontiers in Robotics and AI, 2022, 9, 825889.	3.2	7
104	THE INFLUENCES OF CARDIOVASCULAR PROPERTIES ON SUPRASYSTOLIC BRACHIAL CUFF WAVE STUDIED BY A SIMPLE ARTERIAL-TREE MODEL. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250040.	0.7	6
105	Damage localization of marine risers using time series of vibration signals. Journal of Ocean University of China, 2014, 13, 777-781.	1.2	6
106	Body flexion effect on the flight dynamics of a hovering hawkmoth. Journal of Biomechanical Science and Engineering, 2014, 9, 14-00409-14-00409.	0.3	6
107	Fluid-structure interaction enhances the aerodynamic performance of flapping wings: a computational study. Journal of Biomechanical Science and Engineering, 2018, 13, 17-00666-17-00666.	0.3	6
108	Biomimetic Design Inspired Sharkskin Denticles and Modeling of Diffuser for Fluid Control. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 133-138.	0.3	6

#	Article	IF	CITATIONS
109	Effect of twist, camber and spanwise bending on the aerodynamic performance of flapping wings. Journal of Biomechanical Science and Engineering, 2018, 13, 17-00618-17-00618.	0.3	6
110	Aeroacoustic characteristics of owl-inspired blade designs in a mixed flow fan: effects of leading- and trailing-edge serrations. Bioinspiration and Biomimetics, 2021, 16, 066003.	2.9	6
111	Quantification of the influence of drugs on zebrafish larvae swimming kinematics and energetics. PeerJ, 2020, 8, e8374.	2.0	6
112	Compact Sphere-Shaped Airflow Vector Sensor Based on MEMS Differential Pressure Sensors. Sensors, 2022, 22, 1087.	3.8	6
113	Frequency-Based Wind Gust Estimation for Quadrotors Using a Nonlinear Disturbance Observer. IEEE Robotics and Automation Letters, 2022, 7, 9224-9231.	5.1	6
114	Computation of unsteady flow past a biomimetic fin. Journal of Bionic Engineering, 2004, 1, 108-120.	5.0	5
115	A Numerical Study on Mechanism of S-Starts of Northern Pike (Esox lucius). Journal of Hydrodynamics, 2007, 19, 135-142.	3.2	5
116	Aerodynamics and flight stability of a prototype flapping micro air vehicle. , 2012, , .		5
117	Aerodynamics and Flight Stability of Bio-inspired, Flapping-Wing Micro Air Vehicles. Intelligent Systems, Control and Automation: Science and Engineering, 2013, , 145-157.	0.5	5
118	Lift generation of hummingbird wing models with flexible loosened membranes. , 2013, , .		5
119	Fluid Vibration Induced by High-Shear-Rate Flow in a T-Junction. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	1.5	5
120	Computational fluid dynamic study of different incision length of coronary artery bypass grafting in a native coronary stenosis model. Journal of Thoracic Disease, 2019, 11, 393-399.	1.4	5
121	Exploring a bumblebee-inspired power-optimal flapping-wing design for hovering on Mars based on a surrogate model. Journal of Biomechanical Science and Engineering, 2020, 15, 20-00001-20-00001.	0.3	5
122	Aerodynamics of the Wells turbine with a Hawkmoth-inspired blade design. Bioinspiration and Biomimetics, 2020, 15, 066001.	2.9	5
123	Numerical study of three-dimensional flapping wings hovering in ultra-low-density atmosphere. Physics of Fluids, 2022, 34, .	4.0	5
124	Elastic storage enables robustness of flapping wing dynamics. Bioinspiration and Biomimetics, 2022, 17, 045003.	2.9	5
125	Effects of wing–body interaction on hawk moth aerodynamics and energetics at various flight velocities. Physics of Fluids, 2022, 34, .	4.0	5
126	An Un-Momentous Start to Life: Can Hydrodynamics Explain Why Fish Larvae Change Swimming Style?. Journal of Biomechanical Science and Engineering, 2009, 4, 37-53.	0.3	4

#	Article	IF	CITATIONS
127	Passive Dynamic Stability of a Hovering Fruit Fly: a Comparison between Linear and Nonlinear Methods. Journal of Biomechanical Science and Engineering, 2010, 5, 591-602.	0.3	4
128	Wing Morphology and Inertial Properties of Bumblebees. Journal of Aero Aqua Bio-mechanisms, 2019, 8, 41-47.	1.0	4
129	Impact of ductus arteriosus constriction and restrictive foramen ovale on global hemodynamics for term fetuses with dâ€TGA. International Journal for Numerical Methods in Biomedical Engineering, 2019, 37, e3231.	2.1	4
130	Machine learning predicts blood lactate levels in children after cardiac surgery in paediatric ICU. Cardiology in the Young, 2023, 33, 388-395.	0.8	4
131	A Numerical Analysis of Renal Arterial Hemodynamics in an Medical Image-based Model. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2004, 70, 1247-1253.	0.2	3
132	Dynamics of Free Straight Swimming of Angulla Angulla Including Forward, Braking And Backward Locomotion. Journal of Hydrodynamics, 2007, 19, 395-402.	3.2	3
133	Hemodynamic response to exercise in supine and standing attitudes: an integrated model. Journal of Biomechanical Science and Engineering, 2016, 11, 15-00523-15-00523.	0.3	3
134	Low-frequency harmonics in inlet flow rate play a crucial role in inducing flow instabilities in terminal cerebral aneurysms. Journal of Biomechanical Science and Engineering, 2016, 11, 16-00117-16-00117.	0.3	3
135	Repression of wall shear stress inside cerebral aneurysm at bifurcation of anterior cerebral artery by stents. Heart and Vessels, 2016, 31, 622-627.	1.2	3
136	Development of Microstructured Low Noise Propeller for Aerial Acoustic Surveillance. , 2021, , .		3
137	Personalized <scp>0Dâ€1D</scp> multiscale hemodynamic modeling and wave dynamics analysis of cerebral circulation for an elderly patient with dementia. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3510.	2.1	3
138	Impact of Atrial Fibrillation on Fontan Circulation: Fontan Computational Model. Annals of Thoracic Surgery, 2022, 114, 1460-1467.	1.3	3
139	Intermittent control strategy can enhance stabilization robustness in bumblebee hovering. Bioinspiration and Biomimetics, 2021, 16, 016013.	2.9	3
140	Swimming Hydrodynamics and Maneuverability in C-Start of Zebrafish Larvae: An Integrated Computational Study. , 2011, , .		2
141	Liftoff of a New Hovering Oscillating-wing Micro Aerial Vehicle. Journal of Bionic Engineering, 2021, 18, 649-661.	5.0	2
142	A Parallel Numerical Method for Bio-Flow Analysis JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2001, 44, 389-396.	0.3	1
143	Computation of unsteady flow past a biomimetic fin. Journal of Bionic Engineering, 2004, 1, 108-120.	5.0	1
144	Impact of the location of the fenestration on Fontan circulation haemodynamics: a three-dimensional, computational model study. Cardiology in the Young, 2017, 27, 1289-1294.	0.8	1

#	Article	IF	CITATIONS
145	Cell migration guided by a groove with branches. Journal of Biomechanical Science and Engineering, 2017, 12, 16-00613-16-00613.	0.3	1
146	Computational fluid dynamic study of multiple sequential coronary artery bypass anastomoses in a native coronary stenosis model. Coronary Artery Disease, 2020, 31, 458-463.	0.7	1
147	A six-degree-of-freedom proportional-derivative control strategy for bumblebee flight stabilization. Journal of Biomechanical Science and Engineering, 2021, 16, .	0.3	1
148	A Space-Time Analysis of Blood Flow In A 3D Vessel With Multiple Aneurysms. The Proceedings of the Computational Mechanics Conference, 2000, 2000.13, 197-198.	0.0	1
149	Effect of Passive Body Deformation of Hawkmoth on Flight Stability. Advances in Intelligent Systems and Computing, 2013, , 835-842.	0.6	1
150	PS1-11 EXPERIMENTAL MEASUREMENTS OF THROMBUS FORMATION UNDER FLUID FLOW IN MICRO CHANNEL(PS1: Poster Short Presentation I,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 232.	0.0	1
151	Impact of Respiratory Fluctuation on Hemodynamics in Human Cardiovascular System: A 0-1D Multiscale Model. Fluids, 2022, 7, 28.	1.7	1
152	A MRI based semi-automatic modeling system for computational biomechanics simulation. , 0, , .		0
153	Development of Insect-Sized MAVs. , 2015, , 1329-1358.		0
154	Model-Based Study on the Hemodynamic Effects of Graduated Compression Stockings in Supine and Standing Positions. , 2018, , .		0
155	Orientation effects of bicuspid aortic valve with mild/severe aortic stenosis on aortic hemodynamics: a parametric study. Journal of Biomechanical Science and Engineering, 2019, 14, 18-00417-18-00417.	0.3	0
156	Hemogynamics of Renal Arterial Branch based on Medical Imaged Model. The Proceedings of the JSME Annual Meeting, 2004, 2004.6, 199-200.	0.0	0
157	Numerical Study of the Blood Flow and Living Tissue under Laser Irradiation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2004, 2004.16, 191-192.	0.0	0
158	W04-(5) Novel Mechanisms in Biological Flight and Applications to Micro Air Vehicle(Requirements) Tj ETQq0 0 0	rgBT /Ove 0.0	erlock 10 Tf 5 0
159	A NUMERICAL STUDY ON FLUID DYNAMICS OF BACKWARD AND FORWARD SWIMMING IN THE EEL ANGUILLA ANGUILLA. , 2005, , .		0
160	414 A multi-scale simulation of blood flow at an aortorenal bifurcation under multiphysiological conditions. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2006, 2005.18, 247-248.	0.0	0
161	1134 A numerical study of dynamic flight stability of a flapping-flying insect. The Proceedings of the JSME Annual Meeting, 2007, 2007.6, 107-108.	0.0	0
162	1110 Flow Structure around Renal Artery Branch during Pulsatile Flow. The Proceedings of the JSME Annual Meeting, 2007, 2007.5, 287-288.	0.0	0

#	Article	IF	CITATIONS
163	1111 Quantitative Evaluation of the Performance of an Implanted Artificial Heart with a Lumped Parameter Model of the Human Circulatory System. The Proceedings of the JSME Annual Meeting, 2007, 2007.5, 289-290.	0.0	0
164	1109 A Computational Study of Renal Arterial Biomechanics with Stenosis. The Proceedings of the JSME Annual Meeting, 2007, 2007.5, 285-286.	0.0	0
165	736 A computational fluid dynamic study of forward flight stability in hawkmoth. The Proceedings of the JSME Annual Meeting, 2008, 2008.6, 87-88.	0.0	0
166	218 A computational fluid dynamic study of hummingbird hovering flight. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 73-74.	0.0	0
167	723 A numerical study of unsteady aerodynamics in hummingbird hovering. The Proceedings of the JSME Annual Meeting, 2008, 2008.6, 61-62.	0.0	0
168	735 A study of natural modes and response of a hovering insect. The Proceedings of the JSME Annual Meeting, 2008, 2008.6, 85-86.	0.0	0
169	114 Investigation on multi-scale renal-arterial hemodynamics with consideration of stenosis and physiological conditions. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 27-28.	0.0	0
170	127 Hemodynamic Structure around Renal Arterial Branch during Steady Flow. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 261-262.	0.0	0
171	216 Aerodynamic investigation of forward flight stability in flapping insects. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 69-70.	0.0	0
172	217 A numerical analysis of dynamic stability in insect flapping flight. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 71-72.	0.0	0
173	733 Evaluation of aerodynamic performance of a four-flapping wing micro aerial vehicle. The Proceedings of the JSME Annual Meeting, 2008, 2008.6, 81-82.	0.0	0
174	119 Investigation on a multi-scale computation of hemodynamics in an integrated model of left ventricle, aorta, carotid artery, and thigh artery. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 37-38.	0.0	0
175	220 A study of flapping micro aerial vehicles with a pair of cross wings. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 77-78.	0.0	0
176	828 A multi-scale computation of ventricular-arterial (VA) coupled hemodynamics using an integrated LV artery model. The Proceedings of the JSME Annual Meeting, 2008, 2008.6, 113-114.	0.0	0
177	608 Evaluation of aerodynamic performance of a four-winged flapping micro aerial vehicle. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2009, 2008.21, 247-248.	0.0	0
178	610 A Study of forward flight stability in flapping insects with CFD and kinematic optimization. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2009, 2008.21, 251-252.	0.0	0
179	607 Nonlinear dynamic stability of a hovering insect. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2009, 2008.21, 245-246.	0.0	0
180	J0202-3-1 Investigation on propulsive performance and maneuverability in fish free swimming. The Proceedings of the JSME Annual Meeting, 2009, 2009.6, 147-148.	0.0	0

#	Article	IF	CITATIONS
181	W103 Multi-scale Biomechanisms and Biomimetics. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2009, 2008.21, 75.	0.0	0
182	J0202-1-4 Study of elastic wing deformation and aerodynamic performance for Flapping-Wing Micro Air Vehicles. The Proceedings of the JSME Annual Meeting, 2009, 2009.6, 131-132.	0.0	0
183	J0205-1-7 Study on insect-inspired wings and their mechanical properties. The Proceedings of the JSME Annual Meeting, 2010, 2010.6, 39-40.	0.0	0
184	J0205-1-3 Analysis of flow fields around mechanical flapping wings by using PIV measurements. The Proceedings of the JSME Annual Meeting, 2010, 2010.6, 31-32.	0.0	0
185	1127 Aerodynamic and Flight Dynamic Modeling of Butterfly Free Flight. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2010, 2009.22, 384.	0.0	0
186	0436 Three-dimensional simulation of fibrin network formation in secondary thrombus. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2010, 2009.22, 261.	0.0	0
187	J0206-2-6 Development of a patient-specific aortic aneurysm model based on computational biomechanics. The Proceedings of the JSME Annual Meeting, 2010, 2010.6, 95-96.	0.0	0
188	9E-15 Study of energy loss evaluation on blood flow in a patient-specific aortic aneurysm model. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011, 2010.23, 529-530.	0.0	0
189	8I-03 Directly measuring surface pressures on a flapping wing of an insect-inspired robot. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011, 2010.23, 167-168.	0.0	0
190	BC-JP-5 Computational Biomechanics of Passive and Active Cell Motion Based on Elastic Deformation and Fluid Flow. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _BC-JP-5-1BC-JP-5-5.	0.0	0
191	1D10 Flexible wing aerodynamics in forward flight of an ornithopter. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 129-130.	0.0	0
192	2E05 Interaction of biological heat transportation of a circulatory system and hemodynamics. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 393-394.	0.0	0
193	J021024 Computational modeling of right coronary artery hemodynamics with consideration of vessel wall dynamics. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013,021024-1J021024-5.	0.0	0
194	1D06 Phase difference between body undulation and pectoral fin oscillation can affect swimming hydrodynamics of fish larvae : a computational study. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 121-122.	0.0	0
195	2E11 Computation of aortic blood flows with consideration of vessel wall deformations. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 405-406.	0.0	0
196	2E10 Evaluation of the energy loss of blood flow in the aorta with the aneurysm. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 403-404.	0.0	0
197	Effect of Passive Body Deformation of Hawkmoth on Flight Stability. Studies in Computational Intelligence, 2013, , 287-294.	0.9	0
198	2E04 Two-dimensional particle method simulation of thrombus formation after Fontan operation : effects of geometry of blood flow channel. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 391-392.	0.0	0

#	Article	IF	CITATIONS
199	C103 Thrombus formation process in micro channel. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2014, 2014.25, 63-64.	0.0	0
200	1G41 Two-dimensional particle method simulation of thrombus formation after Fontan operation : comparison with the clinical data. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 241-242.	0.0	0
201	2G41 Motion analysis of forward flight of butterfly-inspired electric ornithopters. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 545-546.	0.0	0
202	C104 Particle method simulation of thrombus formation and dissolution considering medicinal effect. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2014, 2014.25, 65-66.	0.0	0
203	2G43 Effect of Wing Flexibility on Flight Ability of Flapping Flight. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 549-550.	0.0	0
204	2E24 Mechanical properties of cell cortex in mouse leukocyte migration. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 449-450.	0.0	0
205	2E26 Biomechanics simulation of thrombus formation using particle method : Effects of model parameter. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 453-454.	0.0	0
206	J0220302 Computational Fluid Dynamic Analysis of Dolphin Swimming Using a Three-dimensional Real-shape Model. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0220302J0220302	0.0	0
207	2G42 Flapping Wings with Functional Micro Wrinkles. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 547-548.	0.0	0
208	J0240204 Hemodynamic modeling of bicuspid aortic valve disease through left ventricle-aorta coupling. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0240204J0240204	0.0	0
209	J0240203 Evaluation of Wall Shear Stresses and Energy Loss in Aortic Aneurysms with Consideration of Wall Deformations. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014,02402030240203	0.0	0
210	2E16 Deformation of a capsule depends on a membrane's elastic model of out-of-plane bending. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 441-442.	0.0	0
211	1G23 Influence of boundary conditions on computation of right coronary artery hemodynamics with consideration of vessel dynamics and compliance. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 223-224.	0.0	0
212	1C31 Study on cell migration pattern associated with difference in substrate stiffness. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 115-116.	0.0	0
213	OS18-4 Analysis of Nuclear-Centrosomal Axis in HeLa Cells Using a Photoactivatable Substrate(Cell) Tj ETQq1 1 International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics 2015 2015 14, 238	0.784314 0.0	rgBT /Overlo 0
214	Analysis of Collective Cell Migration on Different Substrates by Template Matching. Journal of Life Support Engineering, 2015, 27, 97-104.	0.0	0
215	1C32 Orientation of nuclear centrosomal axis during cell polarity formation by control of cellular geometry. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 117-118.	0.0	0
216	OS1-6 Flexible wing-and body-based strategies for bio-inspired flight system : aerodynamics and flight stability(OS1: Bio-inspired Flight System Biomechanics II). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 67.	0.0	0

#	Article	IF	CITATIONS
217	J0210101 A Computational Auto-Regulation System : Integrative Simulation of the Cardiovascular System and the Autonomic Nervous System. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0210101J0210101	0.0	0
218	2A31 Integrated computation of left ventricle-aortic hemodynamics with consideration of bicuspid aortic valve disease. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 321-322.	0.0	0
219	PS1-17 Quantifying the interplay between bicuspid aortic valve and aortic hemodynamics : an integrative computational study(PS1: Poster Short Presentation I,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8. 238.	0.0	0
220	2A22 On the uncertainty of simulation-based prediction of pulse wave propagation in the cardiovascular system. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 313-314.	0.0	0
221	OS1-3 DYNAMICS OF HUMMINGBIRDS FLYING IN HIGHLY TURBULENT WINDS(OS1: Bio-inspired Flight System) Tj and Technology in Biomechanics, 2015, 2015.8, 64.	ETQq1 1 0.0	0.784314 rg 0
222	2B22 On the flight dynamic stability of a pyramid-shaped flyer. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 355-356.	0.0	0
223	1A14 Particle method computer simulation of arterial thrombus depending on shear rate. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 9-10.	0.0	0
224	2B24 Optimization of bio-inspired small wind turbine blades. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 359-360.	0.0	0
225	J0210102 Dependency of 3D Hemodynamics in Fontan Procedure on Fenestration Location. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0210102J0210102	0.0	0
226	PS3-8 COMPUTER SIMULATION OF MEDICINAL EFFECT ON THROMBUS FORMATION USING PARTICLE METHOD(PS3: Poster Short Presentation III,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 269.	0.0	0
227	2B21 Assessing aerodynamic performance of hummingbird-inspired flapping system. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 353-354.	0.0	0
228	PS1-18 Simulation of the Cardiovascular Autonomic Functions : Integrating the Cardiovascular System and the Autonomic Nervous System(PS1: Poster Short Presentation I,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 239.	0.0	0
229	1E44 Evaluation of Heart Disease Functions during One-leg Exercise through Coupling Cardiovascular System and Autonomic Nervous System. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1E44-11E44-5	0.0	0
230	1C32 Influence of wing flexibility on hovering flight stability under disturbances. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1C32-11C32-5	0.0	0
231	Bio-inspired flight system and biomimetic micro air vehicles. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, C2.	0.0	0
232	Evaluation of Cardiac Function in Patients during Exercise by Coupling Cardiovascular and Autonomic Nervous Systems. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0220103.	0.0	0
233	1E46 Dependency of Fenestration Location on Hemodynamics in Fontan with Consideration of Physiological Functions. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1E46-11E46-5	0.0	0
234	Aerodynamic characteristics of small wind-turbine wing inspired by bird wing. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2017, 2017.29, 2F44.	0.0	0

#	Article	IF	CITATIONS
235	The impact of insect wing shape on the formation of leading edge vortex. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2017, 2017.29, 2F22.	0.0	0
236	Computational Fluid Dynamic Modeling of Dolphin Swimming and Analysis of Thrust-Generating Mechanism with Oscillating Tail Fin and Body. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2017, 2017.29, 2F35.	0.0	0
237	A biomimetic blade design for regenerative blower with owl-inspired serrations. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2018, 2018.29, 2C34.	0.0	0
238	Impact of bicuspid aortic valve morphology on hemodynamics in the aorta:. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2018, 2018.30, 2107.	0.0	0
239	Robustness strategies in bio-inspired flight systems: morphology, dynamics, and flight control. , 2018, ,		0
240	Modulation of Flight Muscle Recruitment and Wing Rotation Enables Hummingbirds to Mitigate Aerial Roll Perturbations. SSRN Electronic Journal, 0, , .	0.4	0
241	Effects of tail fin kinematics on propulsive performance in dolphin swimming. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2019, 2019.31, 1D23.	0.0	0
242	10.1063/5.0088851.1., 2022, , .		0
243	10.1063/5.0088851.2., 2022, , .		0
244	Blood Flow Simulation to Determine the Risk of Thrombosis in the Fontan Circulation: Comparison between Atriopulmonary and Total Cavopulmonary Connections. Fluids, 2022, 7, 138.	1.7	0
245	10.1063/5.0088851.4., 2022,,.		0
246	10.1063/5.0088851.6., 2022,,.		0
247	10.1063/5.0088851.3., 2022,,.		0
248	10.1063/5.0088851.5., 2022, , .		0
249	10.1063/5.0087161.1., 2022, , .		0