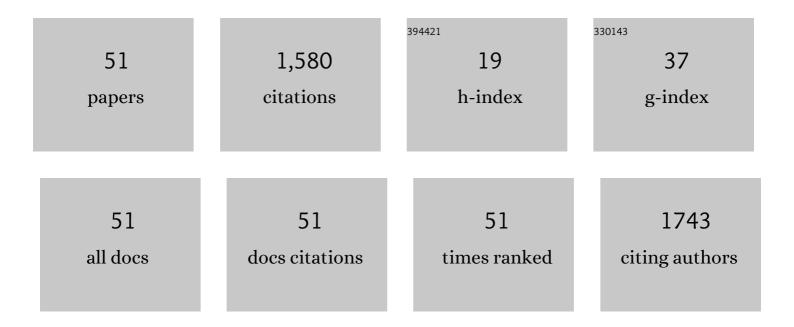
Charitha M De Silva

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2163451/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Airborne or Droplet Precautions for Health Workers Treating Coronavirus Disease 2019?. Journal of Infectious Diseases, 2022, 225, 1561-1568.	4.0	382
2	The turbulent/non-turbulent interface and entrainment in a boundary layer. Journal of Fluid Mechanics, 2014, 742, 119-151.	3.4	151
3	Uniform momentum zones in turbulent boundary layers. Journal of Fluid Mechanics, 2016, 786, 309-331.	3.4	113
4	Multiscale Geometry and Scaling of the Turbulent-Nonturbulent Interface in High Reynolds Number Boundary Layers. Physical Review Letters, 2013, 111, 044501.	7.8	79
5	Scaling of second- and higher-order structure functions in turbulent boundary layers. Journal of Fluid Mechanics, 2015, 769, 654-686.	3.4	65
6	An experimental framework to capture the flow dynamics of droplets expelled by a sneeze. Experiments in Fluids, 2020, 61, 176.	2.4	56
7	Multiscale analysis of fluxes at the turbulent/non-turbulent interface in high Reynolds number boundary layers. Physics of Fluids, 2014, 26, .	4.0	54
8	Interfaces of uniform momentum zones in turbulent boundary layers. Journal of Fluid Mechanics, 2017, 820, 451-478.	3.4	54
9	The quiescent core of turbulent channel flow. Journal of Fluid Mechanics, 2014, 751, 228-254.	3.4	50
10	High spatial range velocity measurements in a high Reynolds number turbulent boundary layer. Physics of Fluids, 2014, 26, .	4.0	46
11	Face coverings and mask to minimise droplet dispersion and aerosolisation: a video case study. Thorax, 2020, 75, 1024-1025.	5.6	45
12	Droplets and Aerosols Generated by Singing and the Risk of Coronavirus Disease 2019 for Choirs. Clinical Infectious Diseases, 2021, 72, e639-e641.	5.8	44
13	Minimization of divergence error in volumetric velocity measurements and implications for turbulence statistics. Experiments in Fluids, 2013, 54, 1.	2.4	40
14	Enhancing Tomo-PIV reconstruction quality by reducing ghost particles. Measurement Science and Technology, 2013, 24, 024010.	2.6	27
15	Recovery of wall-shear stress to equilibrium flow conditions after a rough-to-smooth step change in turbulent boundary layers. Journal of Fluid Mechanics, 2019, 872, 472-491.	3.4	25
16	Assessment of tomographic PIV in wall-bounded turbulence using direct numerical simulation data. Experiments in Fluids, 2012, 52, 425-440.	2.4	23
17	Large coherence of spanwise velocity in turbulent boundary layers. Journal of Fluid Mechanics, 2018, 847, 161-185.	3.4	23
18	Influence of spatial exclusion on the statistical behavior of attached eddies. Physical Review Fluids, 2016, 1, .	2.5	21

2

CHARITHA M DE SILVA

#	Article	IF	CITATIONS
19	On the mixing length eddies and logarithmic mean velocity profile in wall turbulence. Journal of Fluid Mechanics, 2020, 887, .	3.4	19
20	Flow dynamics of droplets expelled during sneezing. Physics of Fluids, 2021, 33, 111901.	4.0	19
21	Experimental Evidence for the Optimal Design of a High-Performing Cloth Mask. ACS Biomaterials Science and Engineering, 2021, 7, 2791-2802.	5.2	18
22	Generalization of the PIV loss-of-correlation formula introduced by Keane and Adrian. Experiments in Fluids, 2017, 58, 1.	2.4	16
23	Towards an improved spatial representation of a boundary layer from the attached eddy model. Physical Review Fluids, 2020, 5, .	2.5	15
24	Periodicity of large-scale coherence in turbulent boundary layers. International Journal of Heat and Fluid Flow, 2020, 83, 108575.	2.4	14
25	Passive PV module cooling under free convection through vortex generators. Renewable Energy, 2022, 190, 319-329.	8.9	14
26	Flame image velocimetry analysis of reacting jet flow fields with a variation of injection pressure in a small-bore diesel engine. International Journal of Engine Research, 2021, 22, 2968-2981.	2.3	13
27	Experimental study of a turbulent boundary layer with a rough-to-smooth change in surface conditions at high Reynolds numbers. Journal of Fluid Mechanics, 2021, 923, .	3.4	13
28	Universality of the energy-containing structures in wall-bounded turbulence. Journal of Fluid Mechanics, 2017, 823, 498-510.	3.4	10
29	Statistics of turbulence in the energy-containing range of Taylor–Couette compared to canonical wall-bounded flows. Journal of Fluid Mechanics, 2017, 830, 797-819.	3.4	10
30	Active Micropump-Mixer for Rapid Antiplatelet Drug Screening in Whole Blood. Analytical Chemistry, 2019, 91, 10830-10839.	6.5	9
31	Boundary layer measurements over a body of revolution using long-distance particle image velocimetry. International Journal of Heat and Fluid Flow, 2020, 83, 108591.	2.4	9
32	Bespoke flow experiments to capture the dynamics of coughs and sneezes. Measurement Science and Technology, 2021, 32, 125302.	2.6	9
33	Data-driven enhancement of coherent structure-based models for predicting instantaneous wall turbulence. International Journal of Heat and Fluid Flow, 2021, 92, 108879.	2.4	9
34	Towards realistic simulations of human cough: Effect of droplet emission duration and spread angle. International Journal of Multiphase Flow, 2022, 147, 103883.	3.4	9
35	Experimental Investigation of Spout Deflection in a Rectangular Spouted Bed by the PIV Method. Industrial & Engineering Chemistry Research, 2020, 59, 13810-13819.	3.7	8
36	Prograde vortices, internal shear layers and the Taylor microscale in high-Reynolds-number turbulent boundary layers. Journal of Fluid Mechanics, 2021, 920, .	3.4	8

CHARITHA M DE SILVA

#	Article	IF	CITATIONS
37	Impact of mismatched and misaligned laser light sheet profiles on PIV performance. Experiments in Fluids, 2018, 59, 1.	2.4	7
38	Tomographic PIV analysis of physiological flow conditions in a patient-specific arteriovenous fistula. Experiments in Fluids, 2020, 61, 1.	2.4	7
39	Uniform-momentum zones in a turbulent boundary layer subjected to freestream turbulence. Journal of Fluid Mechanics, 2021, 915, .	3.4	7
40	Third-order structure function in the logarithmic layer of boundary-layer turbulence. Physical Review Fluids, 2021, 6, .	2.5	7
41	Evidence of Long-Distance Aerial Convection of Variola Virus and Implications for Disease Control. Viruses, 2020, 12, 33.	3.3	6
42	Self-similar geometries within the inertial subrange of scales in boundary layer turbulence. Journal of Fluid Mechanics, 2022, 942, .	3.4	5
43	Beam stability and warm-up effects of Nd:YAG lasers used in particle image velocimetry. Measurement Science and Technology, 2017, 28, 065301.	2.6	4
44	Towards fully-resolved PIV measurements in high Reynolds number turbulent boundary layers with DSLR cameras. Journal of Visualization, 2018, 21, 369-379.	1.8	4
45	Three-dimensional numerical simulation of air-flow in inkjet print-zones. International Journal of Heat and Fluid Flow, 2022, 93, 108911.	2.4	4
46	Impact of juxta-anastomotic stent implantation on the haemodynamics within a single representative patient AVF. International Journal of Heat and Fluid Flow, 2021, 92, 108874.	2.4	3
47	Systematic Review and Evaluation of Mathematical Attack Models of Human Inhalational Anthrax for Supporting Public Health Decision Making and Response. Prehospital and Disaster Medicine, 2020, 35, 412-419.	1.3	2
48	Experimental Investigation of Tip Vortex Formation Noise Produced by Wall-Mounted Finite Airfoils. Journal of Aerospace Engineering, 2021, 34, 04021079.	1.4	2
49	Experimental fluid dynamics characterization of a novel micropump-mixer. Biomicrofluidics, 2020, 14, 044116.	2.4	1
50	Experimental Investigation of the Flow Characteristics and Noise Generation at the Wing–Wall Junction. Journal of Aerospace Engineering, 2021, 34, 04021054.	1.4	1
51	Investigation of the mean pressure field in the wing-wall junction region. International Journal of Heat and Fluid Flow, 2022, 94, 108942.	2.4	О