Yantao Yang

List of Publications by Year in descending order

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48 papers	1,065 citations	361413 20 h-index	414414 32 g-index
48 all docs	48 docs citations	48 times ranked	873 citing authors

#	Article	IF	Citations
1	An anisotropic immerse precipitation process for the preparation of polymer membranes. Soft Matter, 2022, , .	2.7	0
2	Droplet impact on wetted structured surfaces. Applied Mathematics and Mechanics (English Edition), 2022, 43, 437-446.	3.6	3
3	Layering and vertical transport in sheared double-diffusive convection in the diffusive regime. Journal of Fluid Mechanics, 2022, 933, .	3.4	7
4	Flow structures and vertical transport in tilting salt fingers with a background shear. Physical Review Fluids, 2022, 7, .	2.5	1
5	Thermal convection driven by a heat-releasing scalar component. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	3
6	Realizing the ultimate scaling in convection turbulence by spatially decoupling the thermal and viscous boundary layers. Journal of Fluid Mechanics, 2021, 919, .	3.4	4
7	Thermohaline interleaving induced by horizontal temperature and salinity gradients from above. Journal of Fluid Mechanics, 2021, 927, .	3.4	3
8	Cavity dynamics of water drop impact onto immiscible oil pool with different viscosity. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 447-455.	3.4	5
9	Two-component convection flow driven by a heat-releasing concentration field. Journal of Fluid Mechanics, 2021, 929, .	3.4	5
10	Double diffusive convection in the finger regime for different Prandtl and Schmidt numbers. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 797-804.	3.4	8
11	Effects of the actuation waveform on the drop size reduction in drop-on-demand inkjet printing. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 983-989.	3.4	17
12	Multiple states and transport properties of double-diffusive convection turbulence. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14676-14681.	7.1	25
13	What rotation rate maximizes heat transport in rotating Rayleigh-BÃ©nard convection with Prandtl number larger than one?. Physical Review Fluids, 2020, 5, .	2.5	14
14	Effects of nozzle and fluid properties on the drop formation dynamics in a drop-on-demand inkjet printing. Applied Mathematics and Mechanics (English Edition), 2019, 40, 1239-1254.	3.6	21
15	Neural network as a function approximator and its application in solving differential equations. Applied Mathematics and Mechanics (English Edition), 2019, 40, 237-248.	3.6	25
16	Single-Molecule Analysis of RNA Dynamics in Living Cells Using Molecular Beacons. Methods in Molecular Biology, 2019, 1870, 23-39.	0.9	0
17	Flow-induced dissolution of femtoliter surface droplet arrays. Lab on A Chip, 2018, 18, 1066-1074.	6.0	21
18	AFiD-GPU: A versatile Navierâ€“Stokes solver for wall-bounded turbulent flows on GPU clusters. Computer Physics Communications, 2018, 229, 199-210.	7.5	60

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19	A CRISPR/molecular beacon hybrid system for live-cell genomic imaging. Nucleic Acids Research, 2018, 46, e80-e80.	14.5	37
20	Quantifying Gene Expression in Living Cells with Ratiometric Bimolecular Beacons. Methods in Molecular Biology, 2018, 1649, 231-242.	0.9	4
21	Two-scalar turbulent Rayleighâ€“BÃ©nard convection: numerical simulations and unifyingÂtheory. Journal of Fluid Mechanics, 2018, 848, 648-659.	3.4	9
22	Roles of Gag-RNA interactions in HIV-1 virus assembly deciphered by single-molecule localization microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6721-6726.	7.1	25
23	Optimizing Molecular Beacons for Intracellular Analysis of RNA. Methods in Molecular Biology, 2018, 1649, 243-257.	0.9	2
24	A molecular beacon-based approach for live-cell imaging of RNA transcripts with minimal target engineering at the single-molecule level. Scientific Reports, 2017, 7, 1550.	3.3	39
25	Confined Rayleigh-BÃ©nard, Rotating Rayleigh-BÃ©nard, and Double Diffusive Convection: A Unifying View on Turbulent Transport Enhancement through Coherent Structure Manipulation. Physical Review Letters, 2017, 119, 064501.	7.8	67
26	From convection rolls to finger convection in double-diffusive turbulence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 69-73.	7.1	31
27	Scaling laws and flow structures of double diffusive convection in the finger regime. Journal of Fluid Mechanics, 2016, 802, 667-689.	3.4	28
28	Intermittency caused by compressibility: aÂLagrangian study. Journal of Fluid Mechanics, 2016, 786, .	3.4	10
29	Vertically Bounded Double Diffusive Convection in the Finger Regime: Comparing No-Slip versus Free-Slip Boundary Conditions. Physical Review Letters, 2016, 117, 184501.	7.8	16
30	Single-molecule detection and tracking of RNA transcripts in living cells using phosphorothioate-optimized 2â€²-O-methyl RNA molecular beacons. Biomaterials, 2016, 100, 172-183.	11.4	46
31	Salinity transfer in bounded double diffusive convection. Journal of Fluid Mechanics, 2015, 768, 476-491.	3.4	27
32	Recent progress in compressible turbulence. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 275-291.	3.4	7
33	Inertial waves and mean velocity profiles in a rotating pipe and a circular annulus with axial flow. Physical Review E, 2015, 91, 013015.	2.1	0
34	A multiple-resolution strategy for Direct Numerical Simulation of scalar turbulence. Journal of Computational Physics, 2015, 301, 308-321.	3.8	70
35	Interactions between inertial particles and shocklets in compressible turbulent flow. Physics of Fluids, 2014, 26, .	4.0	21
36	The effect of slip distribution on flow past a circular cylinder. Journal of Fluids and Structures, 2014, 51, 211-224.	3.4	25

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37	Reynolds stress constrained large eddy simulation of separation flows in a U-duct. Propulsion and Power Research, 2014, 3, 49-58.	4.3	6
38	Statistics and structures of pressure and density in compressible isotropic turbulence. Journal of Turbulence, 2013, 14, 21-37.	1.4	16
39	Acceleration of Passive Tracers in Compressible Turbulent Flow. Physical Review Letters, 2013, 110, 064503.	7.8	18
40	Cascade of Kinetic Energy in Three-Dimensional Compressible Turbulence. Physical Review Letters, 2013, 110, 214505.	7.8	78
41	Channel turbulence with spanwise rotation studied using helical wave decomposition. Journal of Fluid Mechanics, 2012, 692, 137-152.	3.4	21
42	Reynolds-stress-constrained large-eddy simulation of wall-bounded turbulent flows. Journal of Fluid Mechanics, 2012, 703, 1-28.	3.4	112
43	Helical-wave decomposition and applications to channel turbulence with streamwise rotation. Journal of Fluid Mechanics, 2010, 662, 91-122.	3.4	19
44	Vorticity Dynamics in Axial Compressor Flow Diagnosis and Design. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	11
45	Steady vortex force theory and slender-wing flow diagnosis. Acta Mechanica Sinica/Lixue Xuebao, 2007, 23, 609-619.	3.4	27
46	Response to â€œComment on â€˜Axial stretching and vortex definitionâ€™â€•[Phys. Fluids 18, 029101 (2006)]. Physics of Fluids, 2006, 18, 029102.	4.0	6
47	Axial stretching and vortex definition. Physics of Fluids, 2005, 17, 038108.	4.0	42
48	Fluid kinematics on a deformable surface. Journal of Fluid Mechanics, 2005, 541, 371.	3.4	23