

Yasumasa Ito

List of Publications by Year in descending order

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99
papers

1,407
citations

361413

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h-index

395702

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100
all docs

100
docs citations

100
times ranked

799
citing authors

#	ARTICLE	IF	CITATIONS
1	The meandering bend features of large-scale structures and the related coherent structures. International Journal of Heat and Fluid Flow, 2022, 93, 108915.	2.4	2
2	Turbulence generated by an array of opposed piston-driven synthetic jet actuators. Experiments in Fluids, 2022, 63, 1.	2.4	3
3	Experimental and numerical investigation of compressibility effects on velocity derivative flatness in turbulence. Physics of Fluids, 2022, 34, .	4.0	6
4	Vertical confinement effects on a fully developed turbulent shear layer. Physics of Fluids, 2022, 34, .	4.0	5
5	Implicit large eddy simulation of passive scalar transfer in compressible planar jet. International Journal for Numerical Methods in Fluids, 2021, 93, 1183-1198.	1.6	7
6	Effect of Schmidt number in planar jet with chemical reaction by DNS. Transactions of the JSME (in Japanese), 2021, 87, 10-10.	0.2	0
7	The relation between shearing motions and the turbulent/non-turbulent interface in a turbulent planar jet. Physics of Fluids, 2021, 33, 055126.	4.0	16
8	Power spectrum of high Schmidt number scalar in a turbulent jet at a moderate Reynolds number. Experiments in Fluids, 2021, 62, 1.	2.4	2
9	Statistical properties of a model of a turbulent patch arising from a breaking internal wave. Physics of Fluids, 2021, 33, 055107.	4.0	2
10	Multi-particle models of molecular diffusion for Lagrangian simulation coupled with LES for passive scalar mixing in compressible turbulence. Computers and Fluids, 2021, 221, 104886.	2.5	5
11	Characteristics of small-scale shear layers in a temporally evolving turbulent planar jet. Journal of Fluid Mechanics, 2021, 920, .	3.4	11
12	Experimental study of shock wave modulation caused by velocity and temperature fluctuations in cylinder wakes. Physical Review Fluids, 2021, 6, .	2.5	3
13	Solenoidal linear forcing for compressible, statistically steady, homogeneous isotropic turbulence with reduced turbulent Mach number oscillation. Physics of Fluids, 2021, 33, .	4.0	9
14	Turbulent characteristics and energy transfer in the far field of active-grid turbulence. Physics of Fluids, 2021, 33, .	4.0	8
15	The effect of an artificial large-scale structure on bursting phenomenon in turbulent boundary layer. The Proceedings of the Fluids Engineering Conference, 2021, 2021, OS02-16.	0.0	0
16	Intestinal flow after anastomotic operations in neonates. Computers in Biology and Medicine, 2020, 118, 103471.	7.0	2
17	Statistical analysis of deformation of a shock wave propagating in a local turbulent region. Physics of Fluids, 2020, 32, .	4.0	8
18	Energy transfer in turbulent flows behind two side-by-side square cylinders. Journal of Fluid Mechanics, 2020, 903, .	3.4	9

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19	Application of spectral proper orthogonal decomposition to velocity and passive scalar fields in a swirling coaxial jet. <i>Physics of Fluids</i> , 2020, 32, .	4.0	15
20	Experimental investigation of interactions between turbulent cylinder wake and spherical shock wave. <i>Physics of Fluids</i> , 2020, 32, 016101.	4.0	7
21	Characteristics of shearing motions in incompressible isotropic turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	13
22	Scale-by-scale kinetic energy budget near the turbulent/nonturbulent interface. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	12
23	Non-dimensional energy dissipation rate near the turbulent/non-turbulent interfacial layer in free shear flows and shear free turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 875, 321-344.	3.4	16
24	Extreme events and non-Kolmogorov spectra in turbulent flows behind two side-by-side square cylinders. <i>Journal of Fluid Mechanics</i> , 2019, 874, 677-698.	3.4	12
25	Direct numerical simulation of incompressible turbulent boundary layers and planar jets at high Reynolds numbers initialized with implicit large eddy simulation. <i>Computers and Fluids</i> , 2019, 194, 104314.	2.5	25
26	Statistics of overpressure fluctuations behind a weak shock wave interacting with turbulence. <i>Physics of Fluids</i> , 2019, 31, .	4.0	12
27	Statistical properties of spherical shock waves propagating through grid turbulence, turbulent cylinder wake, and laminar flow. <i>Physica Scripta</i> , 2019, 94, 044004.	2.5	5
28	Multi-particle model of coarse-grained scalar dissipation rate with volumetric tensor in turbulence. <i>Journal of Computational Physics</i> , 2019, 389, 128-146.	3.8	8
29	Experimental investigation on destruction of Reynolds stress in a plane jet. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	6
30	Overpressure Fluctuation behind Spherical Shock Wave Propagating in Grid-generated Turbulence. , 2019, , .		0
31	Three-dimensional visualization of destruction events of turbulent momentum transfer in a plane jet. <i>Physics of Fluids</i> , 2019, 31, 105114.	4.0	11
32	Passive scalar mixing near turbulent/non-turbulent interface in compressible turbulent boundary layers. <i>Physica Scripta</i> , 2019, 94, 044002.	2.5	5
33	Study on scale-by-scale transport mechanism for energy and scalar in grid-generated turbulence. <i>The Proceedings of Conference of Tokai Branch</i> , 2019, 2019.68, 215.	0.0	0
34	High spatial resolution/high SN ratio measurement of concentration by optical fiber LIF method. <i>Transactions of Visualization Soc of Japan</i> , 2019, 39, 28-34.	0.2	0
35	Numerical Study on Scalar Transport in Single-Square-Grid-generated Turbulence. <i>The Proceedings of Conference of Tokai Branch</i> , 2019, 2019.68, 216.	0.0	0
36	Semi in-situ measurement of zincate ion concentration near zinc anode using background-oriented Schlieren technique. <i>Physical Review Research</i> , 2019, 1, .	3.6	0

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37	Turbulent/non-turbulent interfaces detected in DNS of incompressible turbulent boundary layers. Physics of Fluids, 2018, 30, 035102.	4.0	49
38	Joint statistics between velocity-gradient and fluctuating pressure in a turbulent planar jet. Transactions of the JSME (in Japanese), 2018, 84, 17-00430-17-00430.	0.2	0
39	Modeling of molecular diffusion and thermal conduction with multi-particle interaction in compressible turbulence. Physics of Fluids, 2018, 30, .	4.0	8
40	Amplification and attenuation of shock wave strength caused by homogeneous isotropic turbulence. Physics of Fluids, 2018, 30, 035105.	4.0	15
41	Integral invariants and decay of temporally developing grid turbulence. Physics of Fluids, 2018, 30, 105111.	4.0	18
42	Turbulent/non-turbulent interfaces in temporally evolving compressible planar jets. Physics of Fluids, 2018, 30, .	4.0	31
43	A localized turbulent mixing layer in a uniformly stratified environment. Journal of Fluid Mechanics, 2018, 849, 245-276.	3.4	25
44	Turbulent/nonturbulent interfaces in high-resolution direct numerical simulation of temporally evolving compressible turbulent boundary layers. Physical Review Fluids, 2018, 3, .	2.5	28
45	Dual-plane turbulent jets and their non-Gaussian velocity fluctuations. Physical Review Fluids, 2018, 3, .	2.5	9
46	Development of a jet influenced by half delta-wing tabs. The Proceedings of Conference of Tokai Branch, 2018, 2018.67, 310.	0.0	0
47	Cross wavelet analysis of Reynolds stress transport in turbulent planar jet. Transactions of Visualization Soc of Japan, 2018, 38, 26-35.	0.2	0
48	Effects of grid geometry on non-equilibrium dissipation in grid turbulence. Physics of Fluids, 2017, 29, .	4.0	28
49	Crystal Orientation Dependence of Precipitate Structure of Electrodeposited Li Metal on Cu Current Collectors. Crystal Growth and Design, 2017, 17, 2379-2385.	3.0	21
50	Finite response time of shock wave modulation by turbulence. Physics of Fluids, 2017, 29, .	4.0	18
51	Gradients estimation from random points with volumetric tensor in turbulence. Journal of Computational Physics, 2017, 350, 518-529.	3.8	10
52	Changes in divergence-free grid turbulence interacting with a weak spherical shock wave. Physics of Fluids, 2017, 29, 065114.	4.0	17
53	Geometrical aspects of turbulent/non-turbulent interfaces with and without mean shear. Physics of Fluids, 2017, 29, 085105.	4.0	22
54	Modification of hemodynamics in basilar artery aneurysm by the single and Y stent placement1. Technology and Health Care, 2017, 25, 831-842.	1.2	5

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55	Simultaneous measurement of velocity-gradient and fluctuating static pressure in a turbulent planar jet. Transactions of the JSME (in Japanese), 2017, 83, 17-00004-17-00004.	0.2	1
56	Analysis and Application of Decaying Turbulence with Initial Fractal Geometry. , 2017, , .		0
57	Role of an isolated eddy near the turbulent/non-turbulent interface layer. Physical Review Fluids, 2017, 2, .	2.5	27
58	Turbulent entrainment across turbulent-nonturbulent interfaces in stably stratified mixing layers. Physical Review Fluids, 2017, 2, .	2.5	15
59	Implicit large eddy simulation of a scalar mixing layer in fractal grid turbulence. Physica Scripta, 2016, 91, 074007.	2.5	11
60	Rapid distortion theory analysis on the interaction between homogeneous turbulence and a planar shock wave. Journal of Fluid Mechanics, 2016, 802, 108-146.	3.4	10
61	Mixing model with multi-particle interactions for Lagrangian simulations of turbulent mixing. Physics of Fluids, 2016, 28, .	4.0	16
62	Multi-particle dispersion during entrainment in turbulent free-shear flows. Journal of Fluid Mechanics, 2016, 805, .	3.4	11
63	Enstrophy production and dissipation in developing grid-generated turbulence. Physics of Fluids, 2016, 28, .	4.0	16
64	Lagrangian properties of the entrainment across turbulent/non-turbulent interface layers. Physics of Fluids, 2016, 28, 031701.	4.0	35
65	LES“Lagrangian”particles simulation of turbulent reactive flows at high Sc number using approximate deconvolution model. AIChE Journal, 2016, 62, 2912-2922.	3.6	6
66	Simultaneous measurement of velocity and pressure near the turbulent/non-turbulent interface of a planar turbulent jet. Experimental Thermal and Fluid Science, 2016, 75, 137-146.	2.7	10
67	Spatial evolution of the helical behavior and the 2/3 power-law in single-square-grid-generated turbulence. Fluid Dynamics Research, 2016, 48, 021404.	1.3	12
68	Effects of stable stratification on turbulent/nonturbulent interfaces in turbulent mixing layers. Physical Review Fluids, 2016, 1, .	2.5	20
69	Effects of the cylinder wake in a freestream on joint velocity statistics of a turbulent boundary layer. Transactions of the JSME (in Japanese), 2015, 81, 14-00582-14-00582.	0.2	0
70	On the evolution of the invariants of the velocity gradient tensor in single-square-grid-generated turbulence. Physics of Fluids, 2015, 27, .	4.0	13
71	Dynamics and geometry of developing planar jets based on the invariants of the velocity gradient tensor. Journal of Hydrodynamics, 2015, 27, 894-906.	3.2	4
72	Mixing and chemical reaction at high Schmidt number near turbulent/nonturbulent interface in planar liquid jet. Physics of Fluids, 2015, 27, .	4.0	15

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73	LES“Lagrangian particle method for turbulent reactive flows based on the approximate deconvolution model and mixing model. Journal of Computational Physics, 2015, 294, 127-148.	3.8	12
74	Turbulent mixing of passive scalar near turbulent and non-turbulent interface in mixing layers. Physics of Fluids, 2015, 27, .	4.0	68
75	Non-uniform electrodeposition of zinc on the (0001) plane. Thin Solid Films, 2015, 590, 207-213.	1.8	26
76	158 Study on scalar diffusion and mixing in grid turbulence by PIV-PLIF measurement. The Proceedings of Conference of Tokai Branch, 2015, 2015.64, _158-1_-_158-2_.	0.0	0
77	148 Numerical Study on Coaxial Round Jets with Swirl. The Proceedings of Conference of Tokai Branch, 2015, 2015.64, _148-1_-_148-2_.	0.0	0
78	Enstrophy and passive scalar transport near the turbulent/non-turbulent interface in a turbulent planar jet flow. Physics of Fluids, 2014, 26, .	4.0	43
79	Reactive scalar field near the turbulent/non-turbulent interface in a planar jet with a second-order chemical reaction. Physics of Fluids, 2014, 26, .	4.0	15
80	Vortex stretching and compression near the turbulent/non-turbulent interface in a planar jet. Journal of Fluid Mechanics, 2014, 758, 754-785.	3.4	52
81	Development of turbulence behind the single square grid. Physics of Fluids, 2014, 26, .	4.0	42
82	On invariants in grid turbulence at moderate Reynolds numbers. Journal of Fluid Mechanics, 2014, 738, 378-406.	3.4	51
83	Relevance of turbulence behind the single square grid to turbulence generated by regular- and multiscale-grids. Physics of Fluids, 2014, 26, .	4.0	49
84	The effects of inflow conditions on reactive“diffusive mechanism in a shear mixing layer at low Reynolds number. Experimental Thermal and Fluid Science, 2014, 55, 166-173.	2.7	4
85	Numerical study on a boundary layer with heat transfer affected by a wake of a square bar. Journal of Fluid Science and Technology, 2014, 9, JFST0061-JFST0061.	0.6	0
86	Conditional statistics near the turbulent/non-turbulent interface in a planar liquid jet with a chemical reaction. Transactions of the JSME (in Japanese), 2014, 80, FE0228-FE0228.	0.2	2
87	DNS study on the development of boundary layer with heat transfer under the effects of external and internal disturbances. Journal of Fluid Science and Technology, 2014, 9, JFST0005-JFST0005.	0.6	1
88	Influence of Reynolds number on coherent structure, flow transition, and evolution of the plane jet. Journal of Fluid Science and Technology, 2014, 9, JFST0013-JFST0013.	0.6	1
89	Concentration measurement in a planar liquid jet with a chemical reaction by using the improved concentration measurement system based on the light absorption spectrometric method. Journal of Fluid Science and Technology, 2014, 9, JFST0041-JFST0041.	0.6	2
90	Investigation of the turbulent energy transport in a plane turbulent jet by applying POD-LSE complementary method. Transactions of the JSME (in Japanese), 2014, 80, FE0010-FE0010.	0.2	2

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91	Promotion of Chemical Reactions by a Grid in a Shear Mixing Layer. Chemical Engineering and Technology, 2014, 37, 2103-2108.	1.5	2
92	1406 Visualization and Measurement of Shock-Vortex Interaction using PIV Techniques. The Proceedings of the Fluids Engineering Conference, 2014, 2014, _1406-1_-_1406-2_.	0.0	0
93	An attempt to improve accuracy of higher-order statistics and spectra in direct numerical simulation of incompressible wall turbulence by using the compact schemes for viscous terms. International Journal for Numerical Methods in Fluids, 2013, 73, 509-522.	1.6	39
94	VISUALIZATION OF TURBULENT REACTIVE JET BY USING DIRECT NUMERICAL SIMULATION. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 04, 1341001.	1.4	13
95	Experimental Study on the Mixing of High-Schmidt-Number Scalar in Regular/Fractal Grid Turbulence. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 304-316.	0.2	0
96	Numerical Simulation of Reactive Planar Jet by Combining the Probability Density Function Method with Direct Numerical Simulation. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 2434-2445.	0.2	0
97	An indicator of zinc morphology transition in flowing alkaline electrolyte. Journal of Power Sources, 2012, 211, 119-128.	7.8	63
98	Zinc morphology in zinc-nickel flow assisted batteries and impact on performance. Journal of Power Sources, 2011, 196, 2340-2345.	7.8	129
99	Distorted turbulence and secondary flow near right-angled plates. Journal of Fluid Mechanics, 2011, 668, 446-479.	3.4	19