

Shiyi Chen

List of Publications by Year in descending order

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286
papers

24,447
citations

13087

68
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7736

150
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288
all docs

288
docs citations

288
times ranked

10186
citing authors

#	ARTICLE	IF	CITATIONS
1	Perturbation analysis of baroclinic torque in low-Mach-number flows. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	1.4	1
2	Kinetic-energy-flux-constrained model using an artificial neural network for large-eddy simulation of compressible wall-bounded turbulence. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	1.4	5
3	Enhanced Fe ₂ O ₃ /Al ₂ O ₃ Oxygen Carriers for Chemical Looping Steam Reforming of Methane with Different Mg Ratios. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 1022-1031.	1.8	8
4	Modification of Metal (Fe, Al) Doping on Reaction Properties of a NiO Oxygen Carrier with CO during Chemical Looping Combustion. <i>ACS Omega</i> , 2022, 7, 4381-4388.	1.6	5
5	Simulation of three-dimensional forced compressible isotropic turbulence by a redesigned discrete unified gas kinetic scheme. <i>Physics of Fluids</i> , 2022, 34, 025106.	1.6	8
6	Flow topology and enstrophy production in chemically reacting compressible isotropic turbulence. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	0
7	Reduced aerodynamic heating in a hypersonic boundary layer by a wavy wall. <i>Science Bulletin</i> , 2022, 67, 988-990.	4.3	6
8	Contribution of flow topology to the kinetic energy flux in hypersonic turbulent boundary layer. <i>Physics of Fluids</i> , 2022, 34, 046103.	1.6	9
9	Flow structures in spanwise rotating plane Poiseuille flow based on thermal analogy. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	3
10	Integration of molten carbonate fuel cell and chemical looping air separation for high-efficient power generation and CO ₂ capture. <i>Energy</i> , 2022, 254, 124184.	4.5	5
11	Effect of compressibility on the small-scale structures in hypersonic turbulent boundary layer. <i>Physics of Fluids</i> , 2022, 34, .	1.6	8
12	Chemometric modelling on element compositions and product distributions of cellulose and lignin. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2233-2246.	2.9	4
13	Application of incremental support vector regression based on optimal training subset and improved particle swarm optimization algorithm in real-time sensor fault diagnosis. <i>Applied Intelligence</i> , 2021, 51, 3323-3338.	3.3	9
14	Interfacial settling mode and tail dynamics of spherical-particle motion through immiscible fluids interfaces. <i>Chemical Engineering Science</i> , 2021, 229, 116091.	1.9	2
15	Hysteresis behaviour in spanwise rotating plane Couette flow at $Re_w = 2600$. <i>Journal of Turbulence</i> , 2021, 22, 254-266.	0.5	1
16	Inverse design of mesoscopic models for compressible flow using the Chapman-Enskog analysis. <i>Advances in Aerodynamics</i> , 2021, 3, .	1.3	8
17	Interscale kinetic energy transfer in chemically reacting compressible isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	1.4	12
18	Classification and prediction of gas turbine gas path degradation based on deep neural networks. <i>International Journal of Energy Research</i> , 2021, 45, 10513-10526.	2.2	8

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19	Computing mean fields with known Reynolds stresses at steady state. Theoretical and Applied Mechanics Letters, 2021, 11, 100244.	1.3	8
20	Thermodynamic analysis of oxy-fuel combustion integrated with the sCO ₂ Brayton cycle for combined heat and power production. Energy Conversion and Management, 2021, 232, 113869.	4.4	15
21	Stabilizing/destabilizing the large-scale circulation in turbulent Rayleigh-Bénard convection with sidewall temperature control. Journal of Fluid Mechanics, 2021, 915, .	1.4	13
22	Energy budget in decaying compressible MHD turbulence. Journal of Fluid Mechanics, 2021, 916, .	1.4	7
23	Constrained large-eddy simulation of turbulent flow over rough walls. Physical Review Fluids, 2021, 6, .	1.0	5
24	Compressibility effect in hypersonic boundary layer with isothermal wall condition. Physical Review Fluids, 2021, 6, .	1.0	24
25	Transfer of internal energy fluctuation in compressible isotropic turbulence with vibrational non-equilibrium. Journal of Fluid Mechanics, 2021, 919, .	1.4	9
26	A new idea to predict reshocked Richtmyer-Meshkov mixing: constrained large-eddy simulation. Journal of Fluid Mechanics, 2021, 918, .	1.4	15
27	Kinetic energy transfer in compressible homogeneous anisotropic turbulence. Physical Review Fluids, 2021, 6, .	1.0	5
28	Near-wall flow structures and related surface quantities in wall-bounded turbulence. Physics of Fluids, 2021, 33, .	1.6	22
29	Evolution of Sm ²⁺ /Fe ₂ O ₃ /CeO ₂ Oxygen Carriers in Chemical Looping Hydrogen Generation. Energy Technology, 2021, 9, 2100535.	1.8	2
30	Ni, Co and Cu-promoted iron-based oxygen carriers in methane-fueled chemical looping hydrogen generation process. Fuel Processing Technology, 2021, 221, 106917.	3.7	40
31	Boosting the surface oxygen activity for high performance Iron-based perovskite oxide. Science of the Total Environment, 2021, 795, 148904.	3.9	11
32	Dilatational-wave-induced aerodynamic cooling in transitional hypersonic boundary layers. Journal of Fluid Mechanics, 2021, 911, .	1.4	17
33	Constrained large-eddy simulation of turbulent flow over inhomogeneous rough surfaces. Theoretical and Applied Mechanics Letters, 2021, 11, 100229.	1.3	9
34	Effect of wall temperature on the kinetic energy transfer in a hypersonic turbulent boundary layer. Journal of Fluid Mechanics, 2021, 929, .	1.4	26
35	Constrained large-eddy simulation of a spatially evolving supersonic turbulent boundary layer at $M = 2.25$. Physics of Fluids, 2021, 33, 125116.	1.6	5
36	Large Eddy Simulation of Secondary Flows in an Ultra-High Lift Low Pressure Turbine Cascade at Various Inlet Incidences. International Journal of Turbo and Jet Engines, 2020, 37, 195-207.	0.3	1

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37	Multi-objective economic emission dispatch of thermal power plants based on grey relational analysis and analytic hierarchy process. <i>Energy and Environment</i> , 2020, 31, 785-812.	2.7	5
38	Investigations on fluid dynamics of binary particles in a dual fluidized bed reactor system for enhanced calcium looping gasification process. <i>Powder Technology</i> , 2020, 361, 803-811.	2.1	8
39	Effect of flow topology on the kinetic energy flux in compressible isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	1.4	30
40	Promoting effect of ZrO ₂ /CeO ₂ addition on Fe/CaO catalyst for hydrogen gas production in the gasification process. <i>Biomass and Bioenergy</i> , 2020, 142, 105712.	2.9	4
41	Synergistic Effects of the Zr and Sm Co-doped Fe ₂ O ₃ /CeO ₂ Oxygen Carrier for Chemical Looping Hydrogen Generation. <i>Energy & Fuels</i> , 2020, 34, 10256-10267.	2.5	21
42	Fe ^o terminated LaFeO ₃ perovskite oxide surface for low temperature toluene oxidation. <i>Journal of Cleaner Production</i> , 2020, 277, 123224.	4.6	32
43	A Ginzburg-Landau model for linear global modes in open shear flows. <i>Journal of Fluid Mechanics</i> , 2020, 904, .	1.4	1
44	Spatial artificial neural network model for subgrid-scale stress and heat flux of compressible turbulence. <i>Theoretical and Applied Mechanics Letters</i> , 2020, 10, 27-32.	1.3	22
45	Hydrogen-rich syngas production via sorption-enhanced steam gasification of sewage sludge. <i>Biomass and Bioenergy</i> , 2020, 138, 105607.	2.9	38
46	Acoustic-wave-induced cooling in onset of hypersonic turbulence. <i>Physics of Fluids</i> , 2020, 32, 061702.	1.6	10
47	Controlling flow reversal in two-dimensional Rayleigh-Bénard convection. <i>Journal of Fluid Mechanics</i> , 2020, 891, .	1.4	10
48	Sintering and agglomeration of Fe ₂ O ₃ -MgAl ₂ O ₄ oxygen carriers with different Fe ₂ O ₃ loadings in chemical looping processes. <i>Fuel</i> , 2020, 265, 116983.	3.4	32
49	Spatially multi-scale artificial neural network model for large eddy simulation of compressible isotropic turbulence. <i>AIP Advances</i> , 2020, 10, .	0.6	24
50	Effects of compressibility and Atwood number on the single-mode Rayleigh-Taylor instability. <i>Physics of Fluids</i> , 2020, 32, 012110.	1.6	29
51	Effect of compressibility on the local flow topology in homogeneous shear turbulence. <i>Physics of Fluids</i> , 2020, 32, 015118.	1.6	17
52	Oxygen vacancy induced performance enhancement of toluene catalytic oxidation using LaFeO ₃ perovskite oxides. <i>Chemical Engineering Journal</i> , 2020, 387, 124101.	6.6	121
53	Dual channels of helicity cascade in turbulent flows. <i>Journal of Fluid Mechanics</i> , 2020, 894, .	1.4	19
54	Simulation of three-dimensional compressible decaying isotropic turbulence using a redesigned discrete unified gas kinetic scheme. <i>Physics of Fluids</i> , 2020, 32, .	1.6	29

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55	Vibrational relaxation in compressible isotropic turbulence with thermal nonequilibrium. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	8
56	Spectra and scaling in chemically reacting compressible isotropic turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
57	Flow structures and kinetic-potential exchange in forced rotating stratified turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	16
58	Reynolds number dependence of heavy particles clustering in homogeneous isotropic turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	6
59	Spectral energy transfers and kinetic-potential energy exchange in rotating stratified turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	2
60	Recent progress in the study of transition in the hypersonic boundary layer. <i>National Science Review</i> , 2019, 6, 155-170.	4.6	82
61	Artificial neural network mixed model for large eddy simulation of compressible isotropic turbulence. <i>Physics of Fluids</i> , 2019, 31, .	1.6	66
62	Effects of bulk viscosity on compressible homogeneous turbulence. <i>Physics of Fluids</i> , 2019, 31, .	1.6	24
63	Image-based modelling of the skin-friction coefficient in compressible boundary-layer transition. <i>Journal of Fluid Mechanics</i> , 2019, 875, 1175-1203.	1.4	9
64	Role of magnetic field curvature in magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	20
65	Identifying the pattern of breakdown in a laminar-turbulent transition via binary sequence statistics and cellular-automaton simulations. <i>Physical Review E</i> , 2019, 100, 023110.	0.8	2
66	Preface: symposium on turbulence structures and aerodynamic heat/force (STSAHF2018). <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 181-184.	1.9	2
67	Investigation of a dual cold-flow fluidized bed for calcium looping gasification process. <i>Powder Technology</i> , 2019, 353, 10-19.	2.1	10
68	Hypersonic aerodynamic heating over a flared cone with wavy wall. <i>Physics of Fluids</i> , 2019, 31, .	1.6	37
69	Improved iron oxide oxygen carriers for chemical looping hydrogen generation using colloidal crystal templated method. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13175-13184.	3.8	6
70	Cascades of temperature and entropy fluctuations in compressible turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 867, 195-215.	1.4	30
71	Investigation of synergistic effects and high performance of La-Co composite oxides for toluene catalytic oxidation at low temperature. <i>Environmental Science and Pollution Research</i> , 2019, 26, 12123-12135.	2.7	36
72	Thermodynamic assessment and optimization of a pressurized fluidized bed oxy-fuel combustion power plant with CO ₂ capture. <i>Energy</i> , 2019, 175, 445-455.	4.5	47

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73	Chemical looping dry reforming of methane with hydrogen generation on Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier. <i>Chemical Engineering Journal</i> , 2019, 368, 812-823.	6.6	67
74	Enhanced sintering resistance of Fe ₂ O ₃ /CeO ₂ oxygen carrier for chemical looping hydrogen generation using core-shell structure. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6491-6504.	3.8	53
75	Effect of compressibility on small scale statistics in homogeneous shear turbulence. <i>Physics of Fluids</i> , 2019, 31, 025107.	1.6	23
76	Interactions between the premixed flame front and the three-dimensional Taylor's "Green vortex. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2461-2468.	2.4	15
77	Solar's "Wind's "Bio Ecosystem for Biomass Cascade Utilization with Multigeneration of Formic Acid, Hydrogen, and Graphene. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2558-2568.	3.2	19
78	Scale dependence of energy transfer in turbulent plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4933-4940.	1.6	41
79	Numerical investigation of plane Couette flow with weak spanwise rotation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	4
80	Heat transfer mechanisms of inclined jets in cross flow with different holes. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 664-674.	2.5	7
81	Hysteresis behavior in spanwise rotating plane Couette flow with varying rotation rates. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	9
82	Role of the large-scale structures in spanwise rotating plane Couette flow with multiple states. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	8
83	A Hybrid Numerical Simulation of Supersonic Isotropic Turbulence. <i>Communications in Computational Physics</i> , 2019, 25, .	0.7	6
84	Experimental investigation of a triplet ash valve for circulating fluidized bed. <i>Powder Technology</i> , 2018, 328, 397-405.	2.1	2
85	Kinetic energy transfer in compressible isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2018, 841, 581-613.	1.4	112
86	Effect of shock waves on the statistics and scaling in compressible isotropic turbulence. <i>Physical Review E</i> , 2018, 97, 043108.	0.8	29
87	Characterization of Fe ₂ O ₃ /CeO ₂ oxygen carriers for chemical looping hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3154-3164.	3.8	44
88	Coupling of high Knudsen number and non-ideal gas effects in microporous media. <i>Journal of Fluid Mechanics</i> , 2018, 840, 56-73.	1.4	28
89	Application of chemical looping air separation for MILD oxy-combustion: Identifying a suitable operational region. <i>Applied Thermal Engineering</i> , 2018, 132, 8-17.	3.0	17
90	Multiple states in turbulent plane Couette flow with spanwise rotation. <i>Journal of Fluid Mechanics</i> , 2018, 837, 477-490.	1.4	28

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91	Aerodynamic heating in transitional hypersonic boundary layers: Role of second-mode instability. <i>Physics of Fluids</i> , 2018, 30, .	1.6	103
92	Integration of chemical looping combustion and supercritical CO ₂ cycle for combined heat and power generation with CO ₂ capture. <i>Energy Conversion and Management</i> , 2018, 167, 113-124.	4.4	36
93	Effects of Zr doping on Fe ₂ O ₃ /CeO ₂ oxygen carrier in chemical looping hydrogen generation. <i>Chemical Engineering Journal</i> , 2018, 346, 712-725.	6.6	71
94	Large eddy simulation of spanwise rotating turbulent channel flow with dynamic variants of eddy viscosity model. <i>Physics of Fluids</i> , 2018, 30, .	1.6	10
95	Large Eddy Simulation and CDNS Investigation of T106C Low-Pressure Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	7
96	Development of a simplified method for the determination of ampere-hour capacity of lead-acid battery. <i>Energy and Environment</i> , 2018, 29, 147-161.	2.7	4
97	Ca ₂ Fe ₂ O ₅ : A promising oxygen carrier for CO/CH ₄ conversion and almost-pure H ₂ production with inherent CO ₂ capture over a two-step chemical looping hydrogen generation process. <i>Applied Energy</i> , 2018, 211, 431-442.	5.1	119
98	Enhanced Hydrogen Generation for Fe ₂ O ₃ /CeO ₂ Oxygen Carrier via Rare-Earth (Y, Sm, and La) Doping in Chemical Looping Process. <i>Energy & Fuels</i> , 2018, 32, 11362-11374.	2.5	22
99	Newly identified principle for aerodynamic heating in hypersonic flows. <i>Journal of Fluid Mechanics</i> , 2018, 855, 152-180.	1.4	66
100	Elucidation of syngas composition from catalytic steam gasification of lignin, cellulose, actual and simulated biomasses. <i>Biomass and Bioenergy</i> , 2018, 115, 210-222.	2.9	16
101	A modified optimal LES model for highly compressible isotropic turbulence. <i>Physics of Fluids</i> , 2018, 30, 065108.	1.6	24
102	Spectra and Mach number scaling in compressible homogeneous shear turbulence. <i>Physics of Fluids</i> , 2018, 30, .	1.6	31
103	Application of chemical looping air separation for MILD oxy-combustion in the supercritical power plant with CO ₂ capture. <i>Energy Science and Engineering</i> , 2018, 6, 490-505.	1.9	6
104	Large-Eddy Simulations of Inclined Jets in Crossflow with Different Holes. <i>Journal of Propulsion and Power</i> , 2018, 34, 1098-1108.	1.3	7
105	Effects of supports on reduction activity and carbon deposition of iron oxide for methane chemical looping hydrogen generation. <i>Applied Energy</i> , 2018, 225, 912-921.	5.1	43
106	High-order moments of streamwise fluctuations in a turbulent channel flow with spanwise rotation. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	5
107	Sinusoidal distortion of vortex surfaces in the lateral growth of turbulent spots. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	18
108	Compressibility effect on coherent structures, energy transfer, and scaling in magnetohydrodynamic turbulence. <i>Physics of Fluids</i> , 2017, 29, .	1.6	32

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109	Carbon formation on iron-based oxygen carriers during CH ₄ reduction period in Chemical Looping Hydrogen Generation process. Chemical Engineering Journal, 2017, 325, 322-331.	6.6	59
110	Biomass pyrolysis-gasification over Zr promoted CaO-HZSM-5 catalysts for hydrogen and bio-oil co-production with CO ₂ capture. International Journal of Hydrogen Energy, 2017, 42, 16031-16044.	3.8	33
111	Constrained large-eddy simulation of supersonic turbulent boundary layer over a compression ramp. Journal of Turbulence, 2017, 18, 781-808.	0.5	8
112	Effects of supports on hydrogen production and carbon deposition of Fe-based oxygen carriers in chemical looping hydrogen generation. International Journal of Hydrogen Energy, 2017, 42, 11006-11016.	3.8	60
113	Steam gasification of sewage sludge with CaO as CO ₂ sorbent for hydrogen-rich syngas production. Biomass and Bioenergy, 2017, 107, 52-62.	2.9	52
114	Energy transfer, pressure tensor, and heating of kinetic plasma. Physics of Plasmas, 2017, 24, .	0.7	115
115	Process integration of coal fueled chemical looping hydrogen generation with SOFC for power production and CO ₂ capture. International Journal of Hydrogen Energy, 2017, 42, 28732-28746.	3.8	19
116	Effects of CeO ₂ , ZrO ₂ , and Al ₂ O ₃ Supports on Iron Oxygen Carrier for Chemical Looping Hydrogen Generation. Energy & Fuels, 2017, 31, 8001-8013.	2.5	63
117	Modulation to compressible homogenous turbulence by heavy point particles. I. Effect of particles' density. Physics of Fluids, 2016, 28, .	1.6	21
118	Large Eddy Simulation of Inclined Jet in Cross Flow With Cylindrical and Fan-Shaped Holes. , 2016, , .		8
119	Effect of Oscillation Structures on Inertial-Range Intermittence and Topology in Turbulent Field. Communications in Computational Physics, 2016, 19, 251-272.	0.7	3
120	Vortex reconnection in the late transition in channel flow. Journal of Fluid Mechanics, 2016, 802, .	1.4	36
121	A new identification method in sampled quadrant analysis for wall-bounded turbulence. Physics of Fluids, 2016, 28, 061702.	1.6	7
122	Theoretical model of scattering from flow ducts with semi-infinite axial liner splices. Journal of Fluid Mechanics, 2016, 786, 62-83.	1.4	20
123	Intermittency caused by compressibility: a Lagrangian study. Journal of Fluid Mechanics, 2016, 786, .	1.4	10
124	Direct numerical simulation of turbulent channel flow with spanwise rotation. Journal of Fluid Mechanics, 2016, 788, 42-56.	1.4	39
125	Evolution of material surfaces in the temporal transition in channel flow. Journal of Fluid Mechanics, 2016, 793, 840-876.	1.4	25
126	Constrained large-eddy simulation of turbulent flow and heat transfer in a stationary ribbed duct. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 1069-1091.	1.6	12

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127	Mach Number Effect of Compressible Flow Around a Circular Cylinder. AIAA Journal, 2016, 54, 2004-2009.	1.5	23
128	Sorption enhanced coal gasification for hydrogen production using a synthesized CaOMgO-molecular sieve sorbent. International Journal of Hydrogen Energy, 2016, 41, 17323-17333.	3.8	23
129	Effects of approaching main flow boundary layer on flow and cooling performance of an inclined jet in cross flow. International Journal of Heat and Mass Transfer, 2016, 103, 572-581.	2.5	27
130	Slip boundary conditions over curved surfaces. Physical Review E, 2016, 93, 013105.	0.8	27
131	Energy cascade and its locality in compressible magnetohydrodynamic turbulence. Physical Review E, 2016, 93, 061102.	0.8	37
132	Multi-scale simulation method for electroosmotic flows. European Physical Journal: Special Topics, 2016, 225, 1551-1582.	1.2	7
133	Evolutionary geometry of Lagrangian structures in a transitional boundary layer. Physics of Fluids, 2016, 28, 035110.	1.6	15
134	LES and CDNS Investigation of T106C Low Pressure Turbine. , 2016, , .		1
135	Large-eddy simulation of plane channel flow with Vreman's model. Journal of Turbulence, 2016, 17, 807-822.	0.5	4
136	Transition in Hypersonic Boundary Layers: Role of Dilatational Waves. AIAA Journal, 2016, 54, 3039-3049.	1.5	85
137	A hybrid scheme for compressible magnetohydrodynamic turbulence. Journal of Computational Physics, 2016, 306, 73-91.	1.9	14
138	Turbulent statistics and flow structures in spanwise-rotating turbulent plane Couette flows. Physical Review Fluids, 2016, 1, .	1.0	21
139	Effective slip boundary conditions for sinusoidally corrugated surfaces. Physical Review Fluids, 2016, 1, .	1.0	16
140	Transition in hypersonic boundary layers. AIP Advances, 2015, 5, .	0.6	50
141	Recent progress in compressible turbulence. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 275-291.	1.5	7
142	Numerical experiments on reaction front propagation in n-heptane/air mixture with temperature gradient. Proceedings of the Combustion Institute, 2015, 35, 3045-3052.	2.4	135
143	Constrained Large-Eddy Simulation for Aerodynamics. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2015, , 105-115.	0.2	3
144	Turbulent bands in plane-Poiseuille flow at moderate Reynolds numbers. Physics of Fluids, 2015, 27, .	1.6	45

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145	Coal gasification integration with solid oxide fuel cell and chemical looping combustion for high-efficiency power generation with inherent CO ₂ capture. <i>Applied Energy</i> , 2015, 146, 298-312.	5.1	92
146	Comparisons of different implementations of turbulence modelling in lattice Boltzmann method. <i>Journal of Turbulence</i> , 2015, 16, 67-80.	0.5	7
147	Comment on "A hybrid subgrid-scale model constrained by Reynolds stress" [Phys. Fluids 25, 110805 (2013)]. <i>Physics of Fluids</i> , 2014, 26, .	1.6	3
148	Interactions between inertial particles and shocklets in compressible turbulent flow. <i>Physics of Fluids</i> , 2014, 26, .	1.6	21
149	Constrained large-eddy simulation of laminar-turbulent transition in channel flow. <i>Physics of Fluids</i> , 2014, 26, .	1.6	21
150	Ignition of methane with hydrogen and dimethyl ether addition. <i>Fuel</i> , 2014, 118, 1-8.	3.4	51
151	Multiscale Fluid Mechanics and Modeling. <i>Procedia IUTAM</i> , 2014, 10, 100-114.	1.2	15
152	Joint-constraint model for large-eddy simulation of helical turbulence. <i>Physical Review E</i> , 2014, 89, 043021.	0.8	5
153	Constrained Large-Eddy Simulation of Compressible Flow Past a Circular Cylinder. <i>Communications in Computational Physics</i> , 2014, 15, 388-421.	0.7	23
154	Momentum-exchange method in lattice Boltzmann simulations of particle-fluid interactions. <i>Physical Review E</i> , 2013, 88, 013303.	0.8	82
155	Local Reynolds number and thresholds of transition in shear flows. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 263-269.	2.0	12
156	Constrained large-eddy simulation and detached eddy simulation of flow past a commercial aircraft at 14 degrees angle of attack. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 270-276.	2.0	26
157	Simulation of self-assemblies of colloidal particles on the substrate using a lattice Boltzmann pseudo-solid model. <i>Journal of Computational Physics</i> , 2013, 248, 323-338.	1.9	14
158	Flame propagation in a tube with wall quenching of radicals. <i>Combustion and Flame</i> , 2013, 160, 2810-2819.	2.8	41
159	Experimental investigation of freely falling thin disks. Part 2. Transition of three-dimensional motion from zigzag to spiral. <i>Journal of Fluid Mechanics</i> , 2013, 732, 77-104.	1.4	57
160	Subgrid-scale eddy viscosity model for helical turbulence. <i>Physics of Fluids</i> , 2013, 25, .	1.6	29
161	Statistics and structures of pressure and density in compressible isotropic turbulence. <i>Journal of Turbulence</i> , 2013, 14, 21-37.	0.5	16
162	Experimental investigation of freely falling thin disks. Part 1. The flow structures and Reynolds number effects on the zigzag motion. <i>Journal of Fluid Mechanics</i> , 2013, 716, 228-250.	1.4	62

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163	Acceleration of Passive Tracers in Compressible Turbulent Flow. <i>Physical Review Letters</i> , 2013, 110, 064503.	2.9	18
164	Constrained large-eddy simulation of wall-bounded compressible turbulent flows. <i>Physics of Fluids</i> , 2013, 25, .	1.6	39
165	Statistics of one-dimensional compressible turbulence with random large-scale force. <i>Physics of Fluids</i> , 2013, 25, .	1.6	8
166	Cascade of Kinetic Energy in Three-Dimensional Compressible Turbulence. <i>Physical Review Letters</i> , 2013, 110, 214505.	2.9	78
167	SIMULATION OF SELF-ASSEMBLIES OF COLLOIDAL PARTICLES WITH DIFFERENT SIZES BY USING A LATTICE BOLTZMANN PSEUDO-SOLID MODEL. <i>International Journal of Modern Physics C</i> , 2013, 24, 1340002.	0.8	2
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