

Shiyi Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

274
papers

19,818
citations

62
h-index

137
g-index

288
ext. papers

22,036
ext. citations

4.5
avg, IF

7
L-index

#	Paper	IF	Citations
274	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	3.9	0
273	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	3.9	0
272	Simulation of three-dimensional forced compressible isotropic turbulence by a redesigned discrete unified gas kinetic scheme. <i>Physics of Fluids</i> , 2022 , 34, 025106	4.4	1
271	Perturbation analysis of baroclinic torque in low-Mach-number flows. <i>Journal of Fluid Mechanics</i> , 2022 , 930,	3.7	1
270	Reduced aerodynamic heating in a hypersonic boundary layer by a wavy wall. <i>Science Bulletin</i> , 2022 , 67, 988-988	10.6	0
269	Contribution of flow topology to the kinetic energy flux in hypersonic turbulent boundary layer. <i>Physics of Fluids</i> , 2022 , 34, 046103	4.4	3
268	Integration of molten carbonate fuel cell and chemical looping air separation for high-efficient power generation and CO ₂ capture. <i>Energy</i> , 2022 , 124184	7.9	1
267	Effect of compressibility on the small-scale structures in hypersonic turbulent boundary layer. <i>Physics of Fluids</i> , 2022 , 34, 055121	4.4	1
266	Effect of wall temperature on the kinetic energy transfer in a hypersonic turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2021 , 929,	3.7	7
265	Thermodynamic analysis of oxy-fuel combustion integrated with the sCO ₂ Brayton cycle for combined heat and power production. <i>Energy Conversion and Management</i> , 2021 , 232, 113869	10.6	1
264	Stabilizing/destabilizing the large-scale circulation in turbulent Rayleigh-Bénard convection with sidewall temperature control. <i>Journal of Fluid Mechanics</i> , 2021 , 915,	3.7	4
263	Energy budget in decaying compressible MHD turbulence. <i>Journal of Fluid Mechanics</i> , 2021 , 916,	3.7	2
262	Compressibility effect in hypersonic boundary layer with isothermal wall condition. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	6
261	Transfer of internal energy fluctuation in compressible isotropic turbulence with vibrational non-equilibrium. <i>Journal of Fluid Mechanics</i> , 2021 , 919,	3.7	4
260	A new idea to predict reshocked Richtmyer-Meshkov mixing: constrained large-eddy simulation. <i>Journal of Fluid Mechanics</i> , 2021 , 918,	3.7	6
259	Kinetic energy transfer in compressible homogeneous anisotropic turbulence. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	1
258	Near-wall flow structures and related surface quantities in wall-bounded turbulence. <i>Physics of Fluids</i> , 2021 , 33, 065116	4.4	5

257	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	4.9	6
256	Interfacial settling mode and tail dynamics of spherical-particle motion through immiscible fluids interfaces. <i>Chemical Engineering Science</i> , 2021 , 229, 116091	4.4	
255	Hysteresis behaviour in spanwise rotating plane Couette flow at $Re_w = 2600$. <i>Journal of Turbulence</i> , 2021 , 22, 254-266	2.1	1
254	Inverse design of mesoscopic models for compressible flow using the Chapman-Enskog analysis. <i>Advances in Aerodynamics</i> , 2021 , 3,	2.2	4
253	Interscale kinetic energy transfer in chemically reacting compressible isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2021 , 912,	3.7	5
252	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	4.5	2
251	Computing mean fields with known Reynolds stresses at steady state. <i>Theoretical and Applied Mechanics Letters</i> , 2021 , 11, 100244	1.8	5
250	Ni, Co and Cu-promoted iron-based oxygen carriers in methane-fueled chemical looping hydrogen generation process. <i>Fuel Processing Technology</i> , 2021 , 221, 106917	7.2	9
249	Boosting the surface oxygen activity for high performance Iron-based perovskite oxide. <i>Science of the Total Environment</i> , 2021 , 795, 148904	10.2	2
248	Dilatational-wave-induced aerodynamic cooling in transitional hypersonic boundary layers. <i>Journal of Fluid Mechanics</i> , 2021 , 911,	3.7	4
247	Constrained large-eddy simulation of turbulent flow over inhomogeneous rough surfaces. <i>Theoretical and Applied Mechanics Letters</i> , 2021 , 11, 100229	1.8	2
246	Constrained large-eddy simulation of a spatially evolving supersonic turbulent boundary layer at $M = 2.25$. <i>Physics of Fluids</i> , 2021 , 33, 125116	4.4	0
245	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	1.8	13
244	Hydrogen-rich syngas production via sorption-enhanced steam gasification of sewage sludge. <i>Biomass and Bioenergy</i> , 2020 , 138, 105607	5.3	18
243	Acoustic-wave-induced cooling in onset of hypersonic turbulence. <i>Physics of Fluids</i> , 2020 , 32, 061702	4.4	7
242	Controlling flow reversal in two-dimensional Rayleigh-Bénard convection. <i>Journal of Fluid Mechanics</i> , 2020 , 891,	3.7	7
241	Chemometric modelling on element compositions and product distributions of cellulose and lignin. <i>Biomass Conversion and Biorefinery</i> , 2020 , 11, 2233	2.3	2
240	Sintering and agglomeration of Fe_2O_3 - $MgAl_2O_4$ oxygen carriers with different Fe_2O_3 loadings in chemical looping processes. <i>Fuel</i> , 2020 , 265, 116983	7.1	12

239	Spatially multi-scale artificial neural network model for large eddy simulation of compressible isotropic turbulence. <i>AIP Advances</i> , 2020 , 10, 015044	1.5	12
238	Effects of compressibility and Atwood number on the single-mode Rayleigh-Taylor instability. <i>Physics of Fluids</i> , 2020 , 32, 012110	4.4	13
237	Effect of compressibility on the local flow topology in homogeneous shear turbulence. <i>Physics of Fluids</i> , 2020 , 32, 015118	4.4	10
236	Oxygen vacancy induced performance enhancement of toluene catalytic oxidation using LaFeO ₃ perovskite oxides. <i>Chemical Engineering Journal</i> , 2020 , 387, 124101	14.7	44
235	Dual channels of helicity cascade in turbulent flows. <i>Journal of Fluid Mechanics</i> , 2020 , 894,	3.7	8
234	Vibrational relaxation in compressible isotropic turbulence with thermal nonequilibrium. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	4
233	Spectra and scaling in chemically reacting compressible isotropic turbulence. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	6
232	Simulation of three-dimensional compressible decaying isotropic turbulence using a redesigned discrete unified gas kinetic scheme. <i>Physics of Fluids</i> , 2020 , 32, 125104	4.4	14
231	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	2.4	3
230	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	5.2	5
229	Effect of flow topology on the kinetic energy flux in compressible isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2020 , 883,	3.7	15
228	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	5.3	1
227	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	4.1	10
226	FeO terminated LaFeO ₃ perovskite oxide surface for low temperature toluene oxidation. <i>Journal of Cleaner Production</i> , 2020 , 277, 123224	10.3	10
225	Large Eddy Simulation of Secondary Flows in an Ultra-High Lift Low Pressure Turbine Cascade at Various Inlet Incidences. <i>International Journal of Turbo and Jet Engines</i> , 2020 , 37, 195-207	0.8	0
224	Role of magnetic field curvature in magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2019 , 26, 072306		12
223	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	2.4	1
222	Preface: symposium on turbulence structures and aerodynamic heat/force (STSAHF2018). <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019 , 40, 181-184	3.2	1

221	Investigation of a dual cold-flow fluidized bed for calcium looping gasification process. <i>Powder Technology</i> , 2019 , 353, 10-19	5.2	6
220	Hypersonic aerodynamic heating over a flared cone with wavy wall. <i>Physics of Fluids</i> , 2019 , 31, 051702	4.4	22
219	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	6.7	4
218	Cascades of temperature and entropy fluctuations in compressible turbulence. <i>Journal of Fluid Mechanics</i> , 2019 , 867, 195-215	3.7	22
217	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	5.1	17
216	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	7.9	22
215	Recent progress in the study of transition in the hypersonic boundary layer. <i>National Science Review</i> , 2019 , 6, 155-170	10.8	50
214	Artificial neural network mixed model for large eddy simulation of compressible isotropic turbulence. <i>Physics of Fluids</i> , 2019 , 31, 085112	4.4	26
213	Effects of bulk viscosity on compressible homogeneous turbulence. <i>Physics of Fluids</i> , 2019 , 31, 085115	4.4	15
212	Image-based modelling of the skin-friction coefficient in compressible boundary-layer transition. <i>Journal of Fluid Mechanics</i> , 2019 , 875, 1175-1203	3.7	5
211	Hysteresis behavior in spanwise rotating plane Couette flow with varying rotation rates. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	4
210	Role of the large-scale structures in spanwise rotating plane Couette flow with multiple states. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	3
209	A Hybrid Numerical Simulation of Supersonic Isotropic Turbulence. <i>Communications in Computational Physics</i> , 2019 , 25,	2.4	3
208	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	14.7	37
207	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	6.7	32
206	Effect of compressibility on small scale statistics in homogeneous shear turbulence. <i>Physics of Fluids</i> , 2019 , 31, 025107	4.4	16
205	Interactions between the premixed flame front and the three-dimensional Taylor-Green vortex. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 2461-2468	5.9	8
204	Solar-Wind-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	8.3	12

203	Scale dependence of energy transfer in turbulent plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 4933-4940	4.3	31
202	Numerical investigation of plane Couette flow with weak spanwise rotation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	3
201	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	4.9	6
200	Experimental investigation of a triplet ash valve for circulating fluidized bed. <i>Powder Technology</i> , 2018 , 328, 397-405	5.2	2
199	Kinetic energy transfer in compressible isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2018 , 841, 581-613	6.7	85
198	Effect of shock waves on the statistics and scaling in compressible isotropic turbulence. <i>Physical Review E</i> , 2018 , 97, 043108	2.4	23
197	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	6.7	32
196	Coupling of high Knudsen number and non-ideal gas effects in microporous media. <i>Journal of Fluid Mechanics</i> , 2018 , 840, 56-73	3.7	16
195	Application of chemical looping air separation for MILD oxy-combustion: Identifying a suitable operational region. <i>Applied Thermal Engineering</i> , 2018 , 132, 8-17	5.8	15
194	Multiple states in turbulent plane Couette flow with spanwise rotation. <i>Journal of Fluid Mechanics</i> , 2018 , 837, 477-490	3.7	18
193	Aerodynamic heating in transitional hypersonic boundary layers: Role of second-mode instability. <i>Physics of Fluids</i> , 2018 , 30, 011701	4.4	72
192	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	10.6	26
191	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	14.7	51
190	Large eddy simulation of spanwise rotating turbulent channel flow with dynamic variants of eddy viscosity model. <i>Physics of Fluids</i> , 2018 , 30, 040909	4.4	8
189	Large Eddy Simulation and CDNS Investigation of T106C Low-Pressure Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	4
188	Spectra and Mach number scaling in compressible homogeneous shear turbulence. <i>Physics of Fluids</i> , 2018 , 30, 065109	4.4	24
187	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	3.4	5
186	Large-Eddy Simulations of Inclined Jets in Crossflow with Different Holes. <i>Journal of Propulsion and Power</i> , 2018 , 34, 1098-1108	1.8	5

185	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	10.7	27
184	High-order moments of streamwise fluctuations in a turbulent channel flow with spanwise rotation. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	2
183	Sinuous distortion of vortex surfaces in the lateral growth of turbulent spots. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	14
182	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	2.4	4
181	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	10.7	76
180	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	4.1	15
179	Newly identified principle for aerodynamic heating in hypersonic flows. <i>Journal of Fluid Mechanics</i> , 2018 , 855, 152-180	3.7	47
178	Elucidation of syngas composition from catalytic steam gasification of lignin, cellulose, actual and simulated biomasses. <i>Biomass and Bioenergy</i> , 2018 , 115, 210-222	5.3	14
177	A modified optimal LES model for highly compressible isotropic turbulence. <i>Physics of Fluids</i> , 2018 , 30, 065108	4.4	15
176	Compressibility effect on coherent structures, energy transfer, and scaling in magnetohydrodynamic turbulence. <i>Physics of Fluids</i> , 2017 , 29, 035105	4.4	26
175	Carbon formation on iron-based oxygen carriers during CH ₄ reduction period in Chemical Looping Hydrogen Generation process. <i>Chemical Engineering Journal</i> , 2017 , 325, 322-331	14.7	36
174	Biomass pyrolysis-gasification over Zr promoted CaO-HZSM-5 catalysts for hydrogen and bio-oil co-production with CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16031-16044	6.7	21
173	Constrained large-eddy simulation of supersonic turbulent boundary layer over a compression ramp. <i>Journal of Turbulence</i> , 2017 , 18, 781-808	2.1	3
172	Effects of supports on hydrogen production and carbon deposition of Fe-based oxygen carriers in chemical looping hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11006-11016	6.7	41
171	Steam gasification of sewage sludge with CaO as CO ₂ sorbent for hydrogen-rich syngas production. <i>Biomass and Bioenergy</i> , 2017 , 107, 52-62	5.3	37
170	Energy transfer, pressure tensor, and heating of kinetic plasma. <i>Physics of Plasmas</i> , 2017 , 24, 072306	2.1	79
169	Process integration of coal fueled chemical looping hydrogen generation with SOFC for power production and CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28732-28746	6.7	15
168	Effects of CeO ₂ , ZrO ₂ , and Al ₂ O ₃ Supports on Iron Oxygen Carrier for Chemical Looping Hydrogen Generation. <i>Energy & Fuels</i> , 2017 , 31, 8001-8013	4.1	45

167	Slip boundary conditions over curved surfaces. <i>Physical Review E</i> , 2016 , 93, 013105	2.4	23
166	Energy cascade and its locality in compressible magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2016 , 93, 061102	2.4	29
165	Multi-scale simulation method for electroosmotic flows. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 1551-1582	2.3	4
164	Evolutionary geometry of Lagrangian structures in a transitional boundary layer. <i>Physics of Fluids</i> , 2016 , 28, 035110	4.4	10
163	Large-eddy simulation of plane channel flow with Vreman's model. <i>Journal of Turbulence</i> , 2016 , 17, 807-822		4
162	Transition in Hypersonic Boundary Layers: Role of Dilatational Waves. <i>AIAA Journal</i> , 2016 , 54, 3039-3049	2.1	66
161	A hybrid scheme for compressible magnetohydrodynamic turbulence. <i>Journal of Computational Physics</i> , 2016 , 306, 73-91	4.1	13
160	Turbulent statistics and flow structures in spanwise-rotating turbulent plane Couette flows. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	14
159	Effective slip boundary conditions for sinusoidally corrugated surfaces. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	12
158	Modulation to compressible homogenous turbulence by heavy point particles. I. Effect of particles density. <i>Physics of Fluids</i> , 2016 , 28, 016103	4.4	15
157	Large Eddy Simulation of Inclined Jet in Cross Flow With Cylindrical and Fan-Shaped Holes 2016 ,		5
156	Effect of Oscillation Structures on Inertial-Range Intermittence and Topology in Turbulent Field. <i>Communications in Computational Physics</i> , 2016 , 19, 251-272	2.4	3
155	Vortex reconnection in the late transition in channel flow. <i>Journal of Fluid Mechanics</i> , 2016 , 802,	3.7	28
154	A new identification method in sampled quadrant analysis for wall-bounded turbulence. <i>Physics of Fluids</i> , 2016 , 28, 061702	4.4	4
153	Theoretical model of scattering from flow ducts with semi-infinite axial liner splices. <i>Journal of Fluid Mechanics</i> , 2016 , 786, 62-83	3.7	13
152	Intermittency caused by compressibility: a Lagrangian study. <i>Journal of Fluid Mechanics</i> , 2016 , 786,	3.7	8
151	Direct numerical simulation of turbulent channel flow with spanwise rotation. <i>Journal of Fluid Mechanics</i> , 2016 , 788, 42-56	3.7	32
150	Evolution of material surfaces in the temporal transition in channel flow. <i>Journal of Fluid Mechanics</i> , 2016 , 793, 840-876	3.7	17

149	Constrained large-eddy simulation of turbulent flow and heat transfer in a stationary ribbed duct. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016 , 26, 1069-1091	4.5	6
148	Mach Number Effect of Compressible Flow Around a Circular Cylinder. <i>AIAA Journal</i> , 2016 , 54, 2004-2009	2.1	7
147	Sorption enhanced coal gasification for hydrogen production using a synthesized CaOMgO-molecular sieve sorbent. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17323-17333	6.7	17
146	Effects of approaching main flow boundary layer on flow and cooling performance of an inclined jet in cross flow. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 572-581	4.9	21
145	Constrained Large-Eddy Simulation for Aerodynamics. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2015 , 105-115	0.3	1
144	Turbulent bands in plane-Poiseuille flow at moderate Reynolds numbers. <i>Physics of Fluids</i> , 2015 , 27, 041702	7.0	35
143	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	10.7	73
142	Comparisons of different implementations of turbulence modelling in lattice Boltzmann method. <i>Journal of Turbulence</i> , 2015 , 16, 67-80	2.1	5
141	Transition in hypersonic boundary layers. <i>AIP Advances</i> , 2015 , 5, 107137	1.5	36
140	Recent progress in compressible turbulence. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015 , 31, 275-291	2	4
139	Numerical experiments on reaction front propagation in n-heptane/air mixture with temperature gradient. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 3045-3052	5.9	112
138	Multiscale Fluid Mechanics and Modeling. <i>Procedia IUTAM</i> , 2014 , 10, 100-114		8
137	Joint-constraint model for large-eddy simulation of helical turbulence. <i>Physical Review E</i> , 2014 , 89, 043021	2.1	5
136	Constrained Large-Eddy Simulation of Compressible Flow Past a Circular Cylinder. <i>Communications in Computational Physics</i> , 2014 , 15, 388-421	2.4	13
135	Comment on [A hybrid subgrid-scale model constrained by Reynolds stress]. <i>Phys. Fluids</i> 25, 110805 (2013)]. <i>Physics of Fluids</i> , 2014 , 26, 059101	4.4	3
134	Interactions between inertial particles and shocklets in compressible turbulent flow. <i>Physics of Fluids</i> , 2014 , 26, 091702	4.4	17
133	Constrained large-eddy simulation of laminar-turbulent transition in channel flow. <i>Physics of Fluids</i> , 2014 , 26, 095103	4.4	14
132	Ignition of methane with hydrogen and dimethyl ether addition. <i>Fuel</i> , 2014 , 118, 1-8	7.1	46

131	Momentum-exchange method in lattice Boltzmann simulations of particle-fluid interactions. <i>Physical Review E</i> , 2013 , 88, 013303	2.4	64
130	Local Reynolds number and thresholds of transition in shear flows. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 263-269	3.6	10
129	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	3.6	22
128	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	4.1	14
127	Flame propagation in a tube with wall quenching of radicals. <i>Combustion and Flame</i> , 2013 , 160, 2810-2819	3.3	33
126	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	3.7	41
125	Subgrid-scale eddy viscosity model for helical turbulence. <i>Physics of Fluids</i> , 2013 , 25, 095101	4.4	17
124	Statistics and structures of pressure and density in compressible isotropic turbulence. <i>Journal of Turbulence</i> , 2013 , 14, 21-37	2.1	13
123	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	3.7	48
122	Acceleration of passive tracers in compressible turbulent flow. <i>Physical Review Letters</i> , 2013 , 110, 064503	3.4	15
121	Constrained large-eddy simulation of wall-bounded compressible turbulent flows. <i>Physics of Fluids</i> , 2013 , 25, 106102	4.4	26
120	Statistics of one-dimensional compressible turbulence with random large-scale force. <i>Physics of Fluids</i> , 2013 , 25, 075106	4.4	3
119	Cascade of kinetic energy in three-dimensional compressible turbulence. <i>Physical Review Letters</i> , 2013 , 110, 214505	7.4	60
118	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	1.1	2
117	Effect of compressibility on the small-scale structures in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2012 , 713, 588-631	3.7	82
116	Design and Fluid Dynamic Analysis of a Three-Fluidized-Bed Reactor System for Chemical-Looping Hydrogen Generation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4267-4278	3.9	18
115	Analysis of Reynolds number scaling for viscous vortex reconnection. <i>Physics of Fluids</i> , 2012 , 24, 105102	4.4	9
114	Numerical Study on the Ignition Process of n-Decane/Toluene Binary Fuel Blends. <i>Energy & Fuels</i> , 2012 , 26, 6729-6736	4.1	3

113	A model for the laminar flame speed of binary fuel blends and its application to methane/hydrogen mixtures. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10390-10396	6.7	45
112	Scaling and statistics in three-dimensional compressible turbulence. <i>Physical Review Letters</i> , 2012 , 108, 214505	7.4	38
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