# Shiyi Chen

## List of Publications by Year in descending order

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|---|---|---|---|
| 286 papers | 24,447 citations | 13068 68 h-index | 7718 150 g-index |
| 288 all docs | 288 docs citations | 288 times ranked | 10186 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | LATTICE BOLTZMANN METHOD FOR FLUID FLOWS. Annual Review of Fluid Mechanics, 1998, 30, 329-364. | 10.8 | 6,195 |
| 2 | Recovery of the Navier-Stokes equations using a lattice-gas Boltzmann method. Physical Review A, 1992, 45, R5339-R5342. | 1.0 | 1,289 |
| 3 | A Novel Thermal Model for the Lattice Boltzmann Method in Incompressible Limit. Journal of Computational Physics, 1998, 146, 282-300. | 1.9 | 1,194 |
| 4 | A Lattice Boltzmann Scheme for Incompressible Multiphase Flow and Its Application in Simulation of Rayleighâ€“Taylor Instability. Journal of Computational Physics, 1999, 152, 642-663. | 1.9 | 945 |
| 5 | Lattice Boltzmann model for simulation of magnetohydrodynamics. Physical Review Letters, 1991, 67, 3776-3779. | 2.9 | 591 |
| 6 | Simulation of Cavity Flow by the Lattice Boltzmann Method. Journal of Computational Physics, 1995, 118, 329-347. | 1.9 | 521 |
| 7 | On boundary conditions in lattice Boltzmann methods. Physics of Fluids, 1996, 8, 2527-2536. | 1.6 | 432 |
| 8 | Mesoscopic predictions of the effective thermal conductivity for microscale random porous media. Physical Review E, 2007, 75, 036702. | 0.8 | 394 |
| 9 | A public turbulence database cluster and applications to study Lagrangian evolution of velocity increments in turbulence. Journal of Turbulence, 2008, 9, N31. | 0.5 | 373 |
| 10 | Stability Analysis of Lattice Boltzmann Methods. Journal of Computational Physics, 1996, 123, 196-206. | 1.9 | 346 |
| 11 | Lattice-Boltzmann Simulations of Fluid Flows in MEMS. Journal of Statistical Physics, 2002, 107, 279-289. | 0.5 | 330 |
| 12 | A consistent hydrodynamic boundary condition for the lattice Boltzmann method. Physics of Fluids, 1995, 7, 203-209. | 1.6 | 301 |
| 13 | Camassa-Holm Equations as a Closure Model for Turbulent Channel and Pipe Flow. Physical Review Letters, 1998, 81, 5338-5341. | 2.9 | 272 |
| 14 | Probability distribution of a stochastically advected scalar field. Physical Review Letters, 1989, 63, 2657-2660. | 2.9 | 250 |
| 15 | Pore scale study of flow in porous media: Scale dependency, REV, and statistical REV. Geophysical Research Letters, 2000, 27, 1195-1198. | 1.5 | 242 |
| 16 | Lattice Boltzmann computational fluid dynamics in three dimensions. Journal of Statistical Physics, 1992, 68, 379-400. | 0.5 | 240 |
| 17 | Physical symmetry and lattice symmetry in the lattice Boltzmann method. Physical Review E, 1997, 55, R21-R24. | 0.8 | 237 |
| 18 | Displacement of a two-dimensional immiscible droplet in a channel. Physics of Fluids, 2002, 14, 3203-3214. | 1.6 | 233 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Lattice Boltzmann simulation of chemical dissolution in porous media. Physical Review E, 2002, 65, 036318. | 0.8 | 214 |
| 20 | The joint cascade of energy and helicity in three-dimensional turbulence. Physics of Fluids, 2003, 15, 361-374. | 1.6 | 185 |
| 21 | Examination of hypotheses in the Kolmogorov refined turbulence theory through high-resolution simulations. Part 1. Velocity field. Journal of Fluid Mechanics, 1996, 309, 113-156. | 1.4 | 182 |
| 22 | On the three-dimensional Rayleighâ€“Taylor instability. Physics of Fluids, 1999, 11, 1143-1152. | 1.6 | 177 |
| 23 | Direct numerical simulations of the Navierâ€“Stokes alpha model. Physica D: Nonlinear Phenomena, 1999, 133, 66-83. | 1.3 | 150 |
| 24 | A improved incompressible lattice Boltzmann model for time-independent flows. Journal of Statistical Physics, 1995, 81, 35-48. | 0.5 | 148 |
| 25 | Flow patterns in the sedimentation of an elliptical particle. Journal of Fluid Mechanics, 2009, 625, 249-272. | 1.4 | 137 |
| 26 | 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 |
| 27 | Physical Mechanism of the Two-Dimensional Inverse Energy Cascade. Physical Review Letters, 2006, 96, 084502. | 2.9 | 134 |
| 28 | Unified lattice Boltzmann method for flow in multiscale porous media. Physical Review E, 2002, 66, 056307. | 0.8 | 124 |
| 29 | Sweeping decorrelation in isotropic turbulence. Physics of Fluids A, Fluid Dynamics, 1989, 1, 2019-2024. | 1.6 | 121 |
| 30 | Oxygen vacancy induced performance enhancement of toluene catalytic oxidation using LaFeO3 perovskite oxides. Chemical Engineering Journal, 2020, 387, 124101. | 6.6 | 121 |
| 31 | Electroosmosis in homogeneously charged micro- and nanoscale random porous media. Journal of Colloid and Interface Science, 2007, 314, 264-273. | 5.0 | 119 |
| 32 | Ca2Fe2O5: A promising oxygen carrier for CO/CH4 conversion and almost-pure H2 production with inherent CO2 capture over a two-step chemical looping hydrogen generation process. Applied Energy, 2018, 211, 431-442. | 5.1 | 119 |
| 33 | Energy transfer, pressure tensor, and heating of kinetic plasma. Physics of Plasmas, 2017, 24, . | 0.7 | 115 |
| 34 | Lattice gas automata for flow through porous media. Physica D: Nonlinear Phenomena, 1991, 47, 72-84. | 1.3 | 114 |
| 35 | Displacement of a three-dimensional immiscible droplet in a duct. Journal of Fluid Mechanics, 2005, 545, 41. | 1.4 | 112 |
| 36 | Reynolds-stress-constrained large-eddy simulation of wall-bounded turbulent flows. Journal of Fluid Mechanics, 2012, 703, 1-28. | 1.4 | 112 |

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| 37 | Kinetic energy transfer in compressible isotropic turbulence. Journal of Fluid Mechanics, 2018, 841, 581-613. | 1.4 | 112 |
| 38 | Immiscible displacement in a channel: simulations of fingering in two dimensions. Advances in Water Resources, 2004, 27, 13-22. | 1.7 | 106 |
| 39 | Effect of compressibility on the small-scale structures in isotropic turbulence. Journal of Fluid Mechanics, 2012, 713, 588-631. | 1.4 | 105 |
| 40 | Non-modal growth of perturbations in density-driven convection in porous media. Journal of Fluid Mechanics, 2008, 609, 285-303. | 1.4 | 104 |
| 41 | Aerodynamic heating in transitional hypersonic boundary layers: Role of second-mode instability. Physics of Fluids, 2018, 30, . | 1.6 | 103 |
| 42 | Experimental investigation of chemical-looping hydrogen generation using Al 2 O 3 or TiO 2 -supported iron oxides in a batch fluidized bed. International Journal of Hydrogen Energy, 2011, 36, 8915-8926. | 3.8 | 101 |
| 43 | Physical Mechanism of the Two-Dimensional Enstrophy Cascade. Physical Review Letters, 2003, 91, 214501. | 2.9 | 100 |
| 44 | Scaling Relations for a Randomly Advected Passive Scalar Field. Physical Review Letters, 1995, 75, 240-243. | 2.9 | 99 |
| 45 | Investigation of coal gasification hydrogen and electricity co-production plantÂwith three-reactors chemical looping process. International Journal of Hydrogen Energy, 2010, 35, 8580-8591. | 3.8 | 96 |
| 46 | Dynamics of Freely Cooling Granular Gases. Physical Review Letters, 2002, 89, 204301. | 2.9 | 95 |
| 47 | Refined Similarity Hypothesis for Transverse Structure Functions in Fluid Turbulence. Physical Review Letters, 1997, 79, 2253-2256. | 2.9 | 94 |
| 48 | Coal gasification integration with solid oxide fuel cell and chemical looping combustion for high-efficiency power generation with inherent CO2 capture. Applied Energy, 2015, 146, 298-312. | 5.1 | 92 |
| 49 | Intermittency in the Joint Cascade of Energy and Helicity. Physical Review Letters, 2003, 90, 214503. | 2.9 | 91 |
| 50 | A continuumâ€“atomistic simulation of heat transfer in micro- and nano-flows. Journal of Computational Physics, 2007, 227, 279-291. | 1.9 | 89 |
| 51 | Is there a statistical mechanics of turbulence?. Physica D: Nonlinear Phenomena, 1989, 37, 160-172. | 1.3 | 88 |
| 52 | Far-dissipation range of turbulence. Physical Review Letters, 1993, 70, 3051-3054. | 2.9 | 87 |
| 53 | Transition in Hypersonic Boundary Layers: Role of Dilatational Waves. AIAA Journal, 2016, 54, 3039-3049. | 1.5 | 85 |
| 54 | Lattice Boltzmann magnetohydrodynamics. Physics of Plasmas, 1994, 1, 1850-1867. | 0.7 | 83 |

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| 55 | Roughness and cavitations effects on electro-osmotic flows in rough microchannels using the lattice Poissonâ€“Boltzmann methods. Journal of Computational Physics, 2007, 226, 836-851. | 1.9 | 82 |
| 56 | Momentum-exchange method in lattice Boltzmann simulations of particle-fluid interactions. Physical Review E, 2013, 88, 013303. | 0.8 | 82 |
| 57 | Recent progress in the study of transition in the hypersonic boundary layer. National Science Review, 2019, 6, 155-170. | 4.6 | 82 |
| 58 | Experimental study of freely falling thin disks: Transition from planar zigzag to spiral. Physics of Fluids, 2011, 23, . | 1.6 | 80 |
| 59 | Interface and surface tension in incompressible lattice Boltzmann multiphase model. Computer Physics Communications, 2000, 129, 121-130. | 3.0 | 79 |
| 60 | Cascade of Kinetic Energy in Three-Dimensional Compressible Turbulence. Physical Review Letters, 2013, 110, 214505. | 2.9 | 78 |
| 61 | Mesoscopic simulations of phase distribution effects on the effective thermal conductivity of microgranular porous media. Journal of Colloid and Interface Science, 2007, 311, 562-570. | 5.0 | 77 |
| 62 | Reynolds number dependence of isotropic Navier-Stokes turbulence. Physical Review Letters, 1993, 70, 3251-3254. | 2.9 | 75 |
| 63 | Three-dimensional effect on the effective thermal conductivity of porous media. Journal Physics D: Applied Physics, 2007, 40, 260-265. | 1.3 | 75 |
| 64 | Inertial Range Scalings of Dissipation and Enstrophy in Isotropic Turbulence. Physical Review Letters, 1997, 79, 1253-1256. | 2.9 | 74 |
| 65 | Statistics and structures of pressure in isotropic turbulence. Physics of Fluids, 1999, 11, 2235-2250. | 1.6 | 74 |
| 66 | Resonant interactions in rotating homogeneous three-dimensional turbulence. Journal of Fluid Mechanics, 2005, 542, 139. | 1.4 | 71 |
| 67 | Effects of Zr doping on Fe2O3/CeO2 oxygen carrier in chemical looping hydrogen generation. Chemical Engineering Journal, 2018, 346, 712-725. | 6.6 | 71 |
| 68 | Effect of shocklets on the velocity gradients in highly compressible isotropic turbulence. Physics of Fluids, 2011, 23, . | 1.6 | 70 |
| 69 | Electrokinetic pumping effects of charged porous media in microchannels using the lattice Poissonâ€“Boltzmann method. Journal of Colloid and Interface Science, 2006, 304, 246-253. | 5.0 | 67 |
| 70 | Chemical looping dry reforming of methane with hydrogen generation on Fe2O3/Al2O3 oxygen carrier. Chemical Engineering Journal, 2019, 368, 812-823. | 6.6 | 67 |
| 71 | Newly identified principle for aerodynamic heating in hypersonic flows. Journal of Fluid Mechanics, 2018, 855, 152-180. | 1.4 | 66 |
| 72 | Artificial neural network mixed model for large eddy simulation of compressible isotropic turbulence. Physics of Fluids, 2019, 31, . | 1.6 | 66 |

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| 73 | Onset of convection over a transient base-state in anisotropic and layered porous media. Journal of Fluid Mechanics, 2009, 641, 227-244. | 1.4 | 65 |
| 74 | Constrained subgrid-scale stress model for large eddy simulation. Physics of Fluids, 2008, 20, . | 1.6 | 63 |
| 75 | Effects of CeO<sub>2</sub>, ZrO<sub>2</sub>, and Al<sub>2</sub>O<sub>3</sub> Supports on Iron Oxygen Carrier for Chemical Looping Hydrogen Generation. Energy & Fuels, 2017, 31, 8001-8013. | 2.5 | 63 |
| 76 | Lattice Boltzmann simulation on particle suspensions in a two-dimensional symmetric stenotic artery. Physical Review E, 2004, 69, 031919. | 0.8 | 62 |
| 77 | Experimental investigation of freely falling thin disks. Part 1. The flow structures and Reynolds number effects on the zigzag motion. Journal of Fluid Mechanics, 2013, 716, 228-250. | 1.4 | 62 |
| 78 | Scalings and Relative Scalings in the Navier-Stokes Turbulence. Physical Review Letters, 1996, 76, 3711-3714. | 2.9 | 60 |
| 79 | Surface tension effects on two-dimensional two-phase Kelvinâ€“Helmholtz instabilities. Advances in Water Resources, 2001, 24, 461-478. | 1.7 | 60 |
| 80 | 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 |
| 81 | A model for the laminar flame speed of binary fuel blends and its application to methane/hydrogen mixtures. International Journal of Hydrogen Energy, 2012, 37, 10390-10396. | 3.8 | 59 |
| 82 | 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 |
| 83 | Experimental investigation of freely falling thin disks. Part 2. Transition of three-dimensional motion from zigzag to spiral. Journal of Fluid Mechanics, 2013, 732, 77-104. | 1.4 | 57 |
| 84 | High-resolution turbulent simulations using the Connection Machine-2. Computers in Physics, 1992, 6, 643. | 0.6 | 54 |
| 85 | Hybrid continuum-atomistic simulation of singular corner flow. Physics of Fluids, 2004, 16, 3579-3591. | 1.6 | 54 |
| 86 | Calcium looping gasification for high-concentration hydrogen production with CO2 capture in a novel compact fluidized bed: Simulation and operation requirements. International Journal of Hydrogen Energy, 2011, 36, 4887-4899. | 3.8 | 54 |
| 87 | Effects of Hydrodynamics on Phase Transition Kinetics in Two-Dimensional Binary Fluids. Physical Review Letters, 1995, 74, 3852-3855. | 2.9 | 53 |
| 88 | Simulations of a randomly advected passive scalar field. Physics of Fluids, 1998, 10, 2867-2884. | 1.6 | 53 |
| 89 | Enhanced sintering resistance of Fe2O3/CeO2 oxygen carrier for chemical looping hydrogen generation using core-shell structure. International Journal of Hydrogen Energy, 2019, 44, 6491-6504. | 3.8 | 53 |
| 90 | Examination of hypotheses in the Kolmogorov refined turbulence theory through high-resolution simulations. Part 2. Passive scalar field. Journal of Fluid Mechanics, 1999, 400, 163-197. | 1.4 | 52 |

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|---|---|---|---|
| 91 | 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 |
| 92 | Spinodal decomposition in fluids: Diffusive, viscous, and inertial regimes. Physical Review E, 1996, 53, 5513-5516. | 0.8 | 51 |
| 93 | Ignition of methane with hydrogen and dimethyl ether addition. Fuel, 2014, 118, 1-8. | 3.4 | 51 |
| 94 | Resolving Singular Forces in Cavity Flow: Multiscale Modeling from Atomic to Millimeter Scales. Physical Review Letters, 2006, 96, 134501. | 2.9 | 50 |
| 95 | Transition in hypersonic boundary layers. AIP Advances, 2015, 5, . | 0.6 | 50 |
| 96 | Scaling and Statistics in Three-Dimensional Compressible Turbulence. Physical Review Letters, 2012, 108, 214505. | 2.9 | 48 |
| 97 | Uncovering Molecular Mechanisms of Electrowetting and Saturation with Simulations. Physical Review Letters, 2012, 108, 216101. | 2.9 | 47 |
| 98 | Thermodynamic assessment and optimization of a pressurized fluidized bed oxy-fuel combustion power plant with CO2 capture. Energy, 2019, 175, 445-455. | 4.5 | 47 |
| 99 | Anomalous Scaling and Structure Instability in Three-Dimensional Passive Scalar Turbulence. Physical Review Letters, 1997, 78, 3459-3462. | 2.9 | 45 |
| 100 | Turbulent bands in plane-Poiseuille flow at moderate Reynolds numbers. Physics of Fluids, 2015, 27, . | 1.6 | 45 |
| 101 | Characterization of Fe 2 O 3 /CeO 2 oxygen carriers for chemical looping hydrogen generation. International Journal of Hydrogen Energy, 2018, 43, 3154-3164. | 3.8 | 44 |
| 102 | Statistics of Dissipation and Enstrophy Induced by Localized Vortices. Physical Review Letters, 1998, 81, 4636-4639. | 2.9 | 43 |
| 103 | Peristaltic particle transport using the lattice Boltzmann method. Physics of Fluids, 2009, 21, . | 1.6 | 43 |
| 104 | Effects of supports on reduction activity and carbon deposition of iron oxide for methane chemical looping hydrogen generation. Applied Energy, 2018, 225, 912-921. | 5.1 | 43 |
| 105 | Finite Size Effect in Lattice-BGK Models. International Journal of Modern Physics C, 1997, 08, 763-771. | 0.8 | 41 |
| 106 | Flame propagation in a tube with wall quenching of radicals. Combustion and Flame, 2013, 160, 2810-2819. | 2.8 | 41 |
| 107 | Scale dependence of energy transfer in turbulent plasma. Monthly Notices of the Royal Astronomical Society, 2019, 482, 4933-4940. | 1.6 | 41 |
| 108 | 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 |

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| 109 | Constrained large-eddy simulation of wall-bounded compressible turbulent flows. Physics of Fluids, 2013, 25, . | 1.6 | 39 |
| 110 | Direct numerical simulation of turbulent channel flow with spanwise rotation. Journal of Fluid Mechanics, 2016, 788, 42-56. | 1.4 | 39 |
| 111 | Hydrogen-rich syngas production via sorption-enhanced steam gasification of sewage sludge. Biomass and Bioenergy, 2020, 138, 105607. | 2.9 | 38 |
| 112 | Lattice Boltzmann simulation of the two-dimensional Rayleigh-Taylor instability. Physical Review E, 1998, 58, 6861-6864. | 0.8 | 37 |
| 113 | Energy cascade and its locality in compressible magnetohydrodynamic turbulence. Physical Review E, 2016, 93, 061102. | 0.8 | 37 |
| 114 | Hypersonic aerodynamic heating over a flared cone with wavy wall. Physics of Fluids, 2019, 31, . | 1.6 | 37 |
| 115 | Vortex reconnection in the late transition in channel flow. Journal of Fluid Mechanics, 2016, 802, . | 1.4 | 36 |
| 116 | Integration of chemical looping combustion and supercritical CO2 cycle for combined heat and power generation with CO2 capture. Energy Conversion and Management, 2018, 167, 113-124. | 4.4 | 36 |
| 117 | Investigation of synergistic effects and high performance of La-Co composite oxides for toluene catalytic oxidation at low temperature. Environmental Science and Pollution Research, 2019, 26, 12123-12135. | 2.7 | 36 |
| 118 | Biomass pyrolysis-gasification over Zr promoted CaO-HZSM-5 catalysts for hydrogen and bio-oil co-production with CO2 capture. International Journal of Hydrogen Energy, 2017, 42, 16031-16044. | 3.8 | 33 |
| 119 | Compressibility effect on coherent structures, energy transfer, and scaling in magnetohydrodynamic turbulence. Physics of Fluids, 2017, 29, . | 1.6 | 32 |
| 120 | Feâ€“O terminated LaFeO3 perovskite oxide surface for low temperature toluene oxidation. Journal of Cleaner Production, 2020, 277, 123224. | 4.6 | 32 |
| 121 | Sintering and agglomeration of Fe2O3-MgAl2O4 oxygen carriers with different Fe2O3 loadings in chemical looping processes. Fuel, 2020, 265, 116983. | 3.4 | 32 |
| 122 | Molecular simulations of electroosmotic flows in rough nanochannels. Journal of Computational Physics, 2010, 229, 7834-7847. | 1.9 | 31 |
| 123 | Spectra and Mach number scaling in compressible homogeneous shear turbulence. Physics of Fluids, 2018, 30, . | 1.6 | 31 |
| 124 | Cascades of temperature and entropy fluctuations in compressible turbulence. Journal of Fluid Mechanics, 2019, 867, 195-215. | 1.4 | 30 |
| 125 | Effect of flow topology on the kinetic energy flux in compressible isotropic turbulence. Journal of Fluid Mechanics, 2020, 883, . | 1.4 | 30 |
| 126 | Subgrid-scale eddy viscosity model for helical turbulence. Physics of Fluids, 2013, 25, . | 1.6 | 29 |

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|---|---|---|---|
| 127 | Effect of shock waves on the statistics and scaling in compressible isotropic turbulence. Physical Review E, 2018, 97, 043108. | 0.8 | 29 |
| 128 | Effects of compressibility and Atwood number on the single-mode Rayleigh-Taylor instability. Physics of Fluids, 2020, 32, 012110. | 1.6 | 29 |
| 129 | Simulation of three-dimensional compressible decaying isotropic turbulence using a redesigned discrete unified gas kinetic scheme. Physics of Fluids, 2020, 32, . | 1.6 | 29 |
| 130 | Coupling of high Knudsen number and non-ideal gas effects in microporous media. Journal of Fluid Mechanics, 2018, 840, 56-73. | 1.4 | 28 |
| 131 | Multiple states in turbulent plane Couette flow with spanwise rotation. Journal of Fluid Mechanics, 2018, 837, 477-490. | 1.4 | 28 |
| 132 | Generalized hydrodynamic transport in lattice-gas automata. Physical Review A, 1991, 43, 7097-7100. | 1.0 | 27 |
| 133 | Properties of Velocity Circulation in Three-Dimensional Turbulence. Physical Review Letters, 1996, 76, 616-619. | 2.9 | 27 |
| 134 | Effective volumetric lattice Boltzmann scheme. Physical Review E, 2001, 63, 056705. | 0.8 | 27 |
| 135 | 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 |
| 136 | Slip boundary conditions over curved surfaces. Physical Review E, 2016, 93, 013105. | 0.8 | 27 |
| 137 | Inertial range scaling in turbulence. Physical Review E, 1995, 52, R5757-R5759. | 0.8 | 26 |
| 138 | Is the Kolmogorov Refined Similarity Relation Dynamic or Kinematic?. Physical Review Letters, 1995, 74, 1755-1758. | 2.9 | 26 |
| 139 | Constrained large-eddy simulation and detached eddy simulation of flow past a commercial aircraft at 14 degrees angle of attack. Science China: Physics, Mechanics and Astronomy, 2013, 56, 270-276. | 2.0 | 26 |
| 140 | Effect of wall temperature on the kinetic energy transfer in a hypersonic turbulent boundary layer. Journal of Fluid Mechanics, 2021, 929, . | 1.4 | 26 |
| 141 | Scaling of Low-Order Structure Functions in Homogeneous Turbulence. Physical Review Letters, 1996, 77, 3799-3802. | 2.9 | 25 |
| 142 | Evolution of material surfaces in the temporal transition in channel flow. Journal of Fluid Mechanics, 2016, 793, 840-876. | 1.4 | 25 |
| 143 | Dissipation-energy flux correlations as evidence for the Lagrangian energy cascade in turbulence. Physics of Fluids, 2010, 22, . | 1.6 | 24 |
| 144 | A modified optimal LES model for highly compressible isotropic turbulence. Physics of Fluids, 2018, 30, 065108. | 1.6 | 24 |

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|---|---|---|---|
| 145 | Effects of bulk viscosity on compressible homogeneous turbulence. Physics of Fluids, 2019, 31, . | 1.6 | 24 |
| 146 | Spatially multi-scale artificial neural network model for large eddy simulation of compressible isotropic turbulence. AIP Advances, 2020, 10, . | 0.6 | 24 |
| 147 | Compressibility effect in hypersonic boundary layer with isothermal wall condition. Physical Review Fluids, 2021, 6, . | 1.0 | 24 |
| 148 | Constrained Large-Eddy Simulation of Compressible Flow Past a Circular Cylinder. Communications in Computational Physics, 2014, 15, 388-421. | 0.7 | 23 |
| 149 | Mach Number Effect of Compressible Flow Around a Circular Cylinder. AIAA Journal, 2016, 54, 2004-2009. | 1.5 | 23 |
| 150 | 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 |
| 151 | Effect of compressibility on small scale statistics in homogeneous shear turbulence. Physics of Fluids, 2019, 31, 025107. | 1.6 | 23 |
| 152 | Subgrid-scale modeling of helicity and energy dissipation in helical turbulence. Physical Review E, 2006, 74, 026310. | 0.8 | 22 |
| 153 | Correlations for the ignition delay times of hydrogen/air mixtures. Science Bulletin, 2011, 56, 215-221. | 1.7 | 22 |
| 154 | Design and Fluid Dynamic Analysis of a Three-Fluidized-Bed Reactor System for Chemical-Looping Hydrogen Generation. Industrial & Engineering Chemistry Research, 2012, 51, 4267-4278. | 1.8 | 22 |
| 155 | Enhanced Hydrogen Generation for Fe<sub>2</sub>O<sub>3</sub>/CeO<sub>2</sub> Oxygen Carrier via Rare-Earth (Y, Sm, and La) Doping in Chemical Looping Process. Energy & Fuels, 2018, 32, 11362-11374. | 2.5 | 22 |
| 156 | Spatial artificial neural network model for subgrid-scale stress and heat flux of compressible turbulence. Theoretical and Applied Mechanics Letters, 2020, 10, 27-32. | 1.3 | 22 |
| 157 | Near-wall flow structures and related surface quantities in wall-bounded turbulence. Physics of Fluids, 2021, 33, . | 1.6 | 22 |
| 158 | Interactions between inertial particles and shocklets in compressible turbulent flow. Physics of Fluids, 2014, 26, . | 1.6 | 21 |
| 159 | Constrained large-eddy simulation of laminar-turbulent transition in channel flow. Physics of Fluids, 2014, 26, . | 1.6 | 21 |
| 160 | Modulation to compressible homogenous turbulence by heavy point particles. I. Effect of particlesâ€™ density. Physics of Fluids, 2016, 28, . | 1.6 | 21 |
| 161 | Synergistic Effects of the Zr and Sm Co-doped Fe<sub>2</sub>O<sub>3</sub>/CeO<sub>2</sub> Oxygen Carrier for Chemical Looping Hydrogen Generation. Energy & Fuels, 2020, 34, 10256-10267. | 2.5 | 21 |
| 162 | Turbulent statistics and flow structures in spanwise-rotating turbulent plane Couette flows. Physical Review Fluids, 2016, 1, . | 1.0 | 21 |

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|---|---|---|---|
| 163 | Is the Kelvin Theorem Valid for High Reynolds Number Turbulence?. Physical Review Letters, 2006, 97, 144505. | 2.9 | 20 |
| 164 | Theoretical model of scattering from flow ducts with semi-infinite axial liner splices. Journal of Fluid Mechanics, 2016, 786, 62-83. | 1.4 | 20 |
| 165 | Role of magnetic field curvature in magnetohydrodynamic turbulence. Physics of Plasmas, 2019, 26, . | 0.7 | 20 |
| 166 | Process integration of coal fueled chemical looping hydrogen generation with SOFC for power production and CO2 capture. International Journal of Hydrogen Energy, 2017, 42, 28732-28746. | 3.8 | 19 |
| 167 | Solarâ€“Windâ€“Bio Ecosystem for Biomass Cascade Utilization with Multigeneration of Formic Acid, Hydrogen, and Graphene. ACS Sustainable Chemistry and Engineering, 2019, 7, 2558-2568. | 3.2 | 19 |
| 168 | Dual channels of helicity cascade in turbulent flows. Journal of Fluid Mechanics, 2020, 894, . | 1.4 | 19 |
| 169 | Growth kinetics in multicomponent fluids. Journal of Statistical Physics, 1995, 81, 223-235. | 0.5 | 18 |
| 170 | Clustering kinetics of granular media in three dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 269, 218-223. | 0.9 | 18 |
| 171 | Kolmogorovâ€™s Third Hypothesis and Turbulent Sign Statistics. Physical Review Letters, 2003, 90, 254501. | 2.9 | 18 |
| 172 | Acceleration of Passive Tracers in Compressible Turbulent Flow. Physical Review Letters, 2013, 110, 064503. | 2.9 | 18 |
| 173 | Sinuous distortion of vortex surfaces in the lateral growth of turbulent spots. Physical Review Fluids, 2018, 3, . | 1.0 | 18 |
| 174 | Lattice gas automata for simple and complex fluids. Journal of Statistical Physics, 1991, 64, 1133-1162. | 0.5 | 17 |
| 175 | Application of chemical looping air separation for MILD oxy-combustion: Identifying a suitable operational region. Applied Thermal Engineering, 2018, 132, 8-17. | 3.0 | 17 |
| 176 | Effect of compressibility on the local flow topology in homogeneous shear turbulence. Physics of Fluids, 2020, 32, 015118. | 1.6 | 17 |
| 177 | Dilatational-wave-induced aerodynamic cooling in transitional hypersonic boundary layers. Journal of Fluid Mechanics, 2021, 911, . | 1.4 | 17 |
| 178 | AMADEUS Project and Microscopic Simulation of Boiling Two-Phase Flow by the Lattice-Boltzmann Method. International Journal of Modern Physics C, 1997, 08, 843-858. | 0.8 | 16 |
| 179 | The scaling of pressure in isotropic turbulence. Physics of Fluids, 1998, 10, 2119-2121. | 1.6 | 16 |
| 180 | Lattice Boltzmann Scheme for Simulating Two-Phase Flows.. JSME International Journal Series B, 2000, 43, 305-313. | 0.3 | 16 |

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