# Chenyue Xie

List of Publications by Year
in descending order



| 21 | 633 | 567144 15 | 713332 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 21 | 21 | 21 | 290 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dynamic nonlinear algebraic models with scale-similarity dynamic procedure for large-eddy simulation of turbulence. Advances in Aerodynamics, 2022, 4, . | 1.3 | 10 |
| 2 | Temporally sparse data assimilation for the small-scale reconstruction of turbulence. Physics of Fluids, 2022, 34, . | 1.6 | 10 |
| 3 | Artificial neural network-based spatial gradient models for large-eddy simulation of turbulence. AIP Advances, 2021, 11, . | 0.6 | 24 |
| 4 | A dynamic spatial gradient model for the subgrid closure in large-eddy simulation of turbulence. Physics of Fluids, 2021, 33, 075119. | 1.6 | 13 |
| 5 | Dynamic iterative approximate deconvolution models for large-eddy simulation of turbulence. Physics of Fluids, 2021, 33, . | 1.6 | 19 |
| 6 | Artificial neural network approach for turbulence models: A local framework. Physical Review Fluids, 2021, 6, . | 1.0 | 9 |
| 7 | Deconvolutional artificial-neural-network framework for subfilter-scale models of compressible turbulence. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1773-1785. | 1.5 | 11 |
| 8 | Effect of flow topology on the kinetic energy flux in compressible isotropic turbulence. Journal of Fluid Mechanics, 2020, 883, . | 1.4 | 30 |
| 9 | Artificial neural network-based nonlinear algebraic models for large eddy simulation of turbulence. Physics of Fluids, 2020, 32, . | 1.6 | 55 |
| 10 | Deconvolutional artificial neural network models for large eddy simulation of turbulence. Physics of Fluids, 2020, 32, . | 1.6 | 56 |
| 11 | 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 |
| 12 | Spatially multi-scale artificial neural network model for large eddy simulation of compressible isotropic turbulence. AIP Advances, 2020, 10, . | 0.6 | 24 |
| 13 | Effects of compressibility and Atwood number on the single-mode Rayleigh-Taylor instability. Physics of Fluids, 2020, 32, 012110. | 1.6 | 29 |
| 14 | Modeling subgrid-scale forces by spatial artificial neural networks in large eddy simulation of turbulence. Physical Review Fluids, 2020, 5, . | 1.0 | 68 |
| 15 | Artificial neural network mixed model for large eddy simulation of compressible isotropic turbulence. Physics of Fluids, 2019, 31, . | 1.6 | 66 |
| 16 | Artificial neural network approach to large-eddy simulation of compressible isotropic turbulence. Physical Review E, 2019, 99, 053113. | 0.8 | 48 |
| 17 | Cascades of temperature and entropy fluctuations in compressible turbulence. Journal of Fluid Mechanics, 2019, 867, 195-215. | 1.4 | 30 |
| 18 | Modeling subgrid-scale force and divergence of heat flux of compressible isotropic turbulence by artificial neural network. Physical Review Fluids, 2019, 4, . | 1.0 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Effect of shock waves on the statistics and scaling in compressible isotropic turbulence. Physical Review E, 2018, 97, 043108. | 0.8 | 29 |
| 20 | A modified optimal LES model for highly compressible isotropic turbulence. Physics of Fluids, 2018, 30, 065108. | 1.6 | 24 |
| 21 | Viscous Rayleigh-Taylor instability with and without diffusion effect. Applied Mathematics and Mechanics (English Edition), 2017, 38, 263-270. | 1.9 | 14 |