

# Chenyue Xie

## List of Publications by Year in descending order

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21  
papers

633  
citations

567144

15  
h-index

713332

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling subgrid-scale forces by spatial artificial neural networks in large eddy simulation of turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	68
2	Artificial neural network mixed model for large eddy simulation of compressible isotropic turbulence. <i>Physics of Fluids</i> , 2019, 31, .	1.6	66
3	Deconvolutional artificial neural network models for large eddy simulation of turbulence. <i>Physics of Fluids</i> , 2020, 32, .	1.6	56
4	Artificial neural network-based nonlinear algebraic models for large eddy simulation of turbulence. <i>Physics of Fluids</i> , 2020, 32, .	1.6	55
5	Artificial neural network approach to large-eddy simulation of compressible isotropic turbulence. <i>Physical Review E</i> , 2019, 99, 053113.	0.8	48
6	Modeling subgrid-scale force and divergence of heat flux of compressible isotropic turbulence by artificial neural network. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	42
7	Cascades of temperature and entropy fluctuations in compressible turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 867, 195-215.	1.4	30
8	Effect of flow topology on the kinetic energy flux in compressible isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	1.4	30
9	Effect of shock waves on the statistics and scaling in compressible isotropic turbulence. <i>Physical Review E</i> , 2018, 97, 043108.	0.8	29
10	Effects of compressibility and Atwood number on the single-mode Rayleigh-Taylor instability. <i>Physics of Fluids</i> , 2020, 32, 012110.	1.6	29
11	A modified optimal LES model for highly compressible isotropic turbulence. <i>Physics of Fluids</i> , 2018, 30, 065108.	1.6	24
12	Spatially multi-scale artificial neural network model for large eddy simulation of compressible isotropic turbulence. <i>AIP Advances</i> , 2020, 10, .	0.6	24
13	Artificial neural network-based spatial gradient models for large-eddy simulation of turbulence. <i>AIP Advances</i> , 2021, 11, .	0.6	24
14	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
15	Dynamic iterative approximate deconvolution models for large-eddy simulation of turbulence. <i>Physics of Fluids</i> , 2021, 33, .	1.6	19
16	Viscous Rayleigh-Taylor instability with and without diffusion effect. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2017, 38, 263-270.	1.9	14
17	A dynamic spatial gradient model for the subgrid closure in large-eddy simulation of turbulence. <i>Physics of Fluids</i> , 2021, 33, 075119.	1.6	13
18	Deconvolutional artificial-neural-network framework for subfilter-scale models of compressible turbulence. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1773-1785.	1.5	11

#	ARTICLE	IF	CITATIONS
19	Dynamic nonlinear algebraic models with scale-similarity dynamic procedure for large-eddy simulation of turbulence. <i>Advances in Aerodynamics</i> , 2022, 4, .	1.3	10
20	Temporally sparse data assimilation for the small-scale reconstruction of turbulence. <i>Physics of Fluids</i> , 2022, 34, .	1.6	10
21	Artificial neural network approach for turbulence models: A local framework. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	9