

# Piyush Grover

## List of Publications by Year in descending order

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23  
papers

327  
citations

1162367

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h-index

996533

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23  
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23  
docs citations

23  
times ranked

331  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse Sensing and DMD-Based Identification of Flow Regimes and Bifurcations in Complex Flows. SIAM Journal on Applied Dynamical Systems, 2017, 16, 1164-1196.	0.7	67
2	On optimal performance of nonlinear energy sinks in multiple-degree-of-freedom systems. Journal of Sound and Vibration, 2017, 388, 272-297.	2.1	42
3	Optimal Control of Active Nematics. Physical Review Letters, 2020, 125, 178005.	2.9	29
4	Topological Chaos and Periodic Braiding of Almost-Cyclic Sets. Physical Review Letters, 2011, 106, 114101.	2.9	27
5	Model-free control framework for multi-limb soft robots. , 2015, , .		23
6	Designing Trajectories in a Planet-Moon Environment Using the Controlled Keplerian Map. Journal of Guidance, Control, and Dynamics, 2009, 32, 437-444.	1.6	22
7	Topological chaos, braiding and bifurcation of almost-cyclic sets. Chaos, 2012, 22, 043135.	1.0	18
8	A mean-field game model for homogeneous flocking. Chaos, 2018, 28, 061103.	1.0	12
9	Optimal Transport Over Deterministic Discrete-Time Nonlinear Systems Using Stochastic Feedback Laws. , 2019, 3, 168-173.		12
10	Data-driven gain computation in the feedback particle filter. , 2016, , .		9
11	Nonlinear optimal control strategies for buoyancy-driven flows in the built environment. Computers and Fluids, 2019, 194, 104313.	1.3	9
12	Exact Coherent Structures and Phase Space Geometry of Preturbulent 2D Active Nematic Channel Flow. Physical Review Letters, 2022, 128, 028003.	2.9	9
13	On Mean Field Games for Agents With Langevin Dynamics. IEEE Transactions on Control of Network Systems, 2019, 6, 1451-1460.	2.4	8
14	Dynamic Mode Decomposition and Robust Estimation: Case Study of a 2D Turbulent Boussinesq Flow. , 2020, , .		7
15	Reduced-order modeling of fully turbulent buoyancy-driven flows using the Green's function method. Physical Review Fluids, 2019, 4, .	1.0	7
16	Optimal transport over nonlinear systems via infinitesimal generators on graphs. Journal of Computational Dynamics, 2018, .	0.4	6
17	Learning to control partial differential equations: Regularized Fitted Q-Iteration approach. , 2016, , .		5
18	Feedback Particle Filter With Data-Driven Gain-Function Approximation. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2118-2130.	2.6	5

#	ARTICLE	IF	CITATIONS
19	Efficient estimation and uncertainty quantification in space mission dynamics. , 2012, , .		3
20	Learning-based reduced order model stabilization for partial differential equations: Application to the coupled Burgers' equation. , 2016, , .		3
21	Optimal perturbations for nonlinear systems using graph-based optimal transport. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 197-215.	1.7	3
22	Co-design of reduced-order models and observers from thermo-fluid data. IFAC Journal of Systems and Control, 2022, 19, 100181.	1.1	1
23	Design of Low Fuel Trajectory in Interior Realm as a Backup Trajectory for Lunar Exploration. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Pd_47-Pd_52.	0.1	0