

Jae Sung Park

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

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citations

1162889

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23
all docs

23
docs citations

23
times ranked

242
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct numerical simulation of a pulsatile flow in a stenotic channel using immersed boundary method. <i>Engineering Reports</i> , 2022, 4, e12444.	0.9	3
2	On the Underlying Drag-Reduction Mechanisms of Flow-Control Strategies in a Transitional Channel Flow: Temporal Approach. <i>Flow, Turbulence and Combustion</i> , 2022, 108, 1001-1016.	1.4	1
3	An equivalent circuit model for localized electroporation on porous substrates. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113862.	5.3	4
4	Exact Coherent Structures and Phase Space Geometry of Preturbulent 2D Active Nematic Channel Flow. <i>Physical Review Letters</i> , 2022, 128, 028003.	2.9	9
5	The zero-shear-rate limiting rheological behaviors of ideally conductive particles suspended in concentrated dispersions under an electric field. <i>Journal of Rheology</i> , 2021, 65, 13-26.	1.3	2
6	Wall-Shear-Stress-Based Conditional Sampling Analysis of Coherent Structures in a Turbulent Boundary Layer. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	0.8	2
7	Special Issue "CFD Modeling of Complex Chemical Processes: Multiscale and Multiphysics Challenges", <i>Processes</i> , 2021, 9, 775.	1.3	1
8	On the Comparison of Flow Physics between Minimal and Extended Flow Units in Turbulent Channels. <i>Fluids</i> , 2021, 6, 192.	0.8	1
9	Low- and High-Drag Intermittencies in Turbulent Channel Flows. <i>Entropy</i> , 2020, 22, 1126.	1.1	8
10	Dynamics of laminar and transitional flows over slip surfaces: effects on the laminar-turbulent separatrix. <i>Journal of Fluid Mechanics</i> , 2020, 894, .	1.4	8
11	Nanofiber Microspheres: Engineering Biomimetic Nanofiber Microspheres with Tailored Size, Predesigned Structure, and Desired Composition via Gas Bubble-Mediated Coaxial Electro spray (Small) <i>Tj ETQq15120.784314 rgBT</i>		
12	Engineering Biomimetic Nanofiber Microspheres with Tailored Size, Predesigned Structure, and Desired Composition via Gas Bubble-Mediated Coaxial Electro spray. <i>Small</i> , 2020, 16, e1907393.	5.2	26
13	Assessment of two-parameter mixed models for large eddy simulations of transitional and turbulent flows. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 727-743.	0.7	2
14	Dipolophoresis in concentrated suspensions of ideally polarizable spheres. <i>Journal of Fluid Mechanics</i> , 2019, 875, .	1.4	6
15	Experimental and Numerical Analysis of a Sustainable Farming Compartment with Evaporative Cooling System. <i>Processes</i> , 2019, 7, 823.	1.3	7
16	Bursting and critical layer frequencies in minimal turbulent dynamics and connections to exact coherent states. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	11
17	Temporal and spatial intermittencies within channel flow turbulence near transition. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	23
18	Low-drag events in transitional wall-bounded turbulence. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	24

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19	Exact coherent states and connections to turbulent dynamics in minimal channel flow. <i>Journal of Fluid Mechanics</i> , 2015, 782, 430-454.	1.4	53
20	From diffusive motion to local aggregation: Effect of surface contamination in diplophoresis. <i>Soft Matter</i> , 2011, 7, 10720.	1.2	10
21	Electric-field-induced ordering and pattern formation in colloidal suspensions. <i>Physical Review E</i> , 2011, 83, 041409.	0.8	27
22	Diplophoresis in large-scale suspensions of ideally polarizable spheres. <i>Journal of Fluid Mechanics</i> , 2010, 662, 66-90.	1.4	26
23	A run-around heat exchanger system to improve the energy efficiency of a home appliance using hot water. <i>Applied Thermal Engineering</i> , 2009, 29, 3110-3117.	3.0	4