

Jae Sung Park

List of Publications by Year in descending order

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23
papers

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docs citations

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242
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact coherent states and connections to turbulent dynamics in minimal channel flow. <i>Journal of Fluid Mechanics</i> , 2015, 782, 430-454.	3.4	53
2	Electric-field-induced ordering and pattern formation in colloidal suspensions. <i>Physical Review E</i> , 2011, 83, 041409.	2.1	27
3	Dipolophoresis in large-scale suspensions of ideally polarizable spheres. <i>Journal of Fluid Mechanics</i> , 2010, 662, 66-90.	3.4	26
4	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.	10.0	26
5	Low-drag events in transitional wall-bounded turbulence. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	24
6	Temporal and spatial intermittencies within channel flow turbulence near transition. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	23
7	Bursting and critical layer frequencies in minimal turbulent dynamics and connections to exact coherent states. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	11
8	From diffusive motion to local aggregation: Effect of surface contamination in dipolophoresis. <i>Soft Matter</i> , 2011, 7, 10720.	2.7	10
9	Exact Coherent Structures and Phase Space Geometry of Preturbulent 2D Active Nematic Channel Flow. <i>Physical Review Letters</i> , 2022, 128, 028003.	7.8	9
10	Low- and High-Drag Intermittencies in Turbulent Channel Flows. <i>Entropy</i> , 2020, 22, 1126.	2.2	8
11	Dynamics of laminar and transitional flows over slip surfaces: effects on the laminar-turbulent separatrix. <i>Journal of Fluid Mechanics</i> , 2020, 894, .	3.4	8
12	Experimental and Numerical Analysis of a Sustainable Farming Compartment with Evaporative Cooling System. <i>Processes</i> , 2019, 7, 823.	2.8	7
13	Dipolophoresis in concentrated suspensions of ideally polarizable spheres. <i>Journal of Fluid Mechanics</i> , 2019, 875, .	3.4	6
14	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.	6.0	4
15	Nanofiber Microspheres: Engineering Biomimetic Nanofiber Microspheres with Tailored Size, Predesigned Structure, and Desired Composition via Gas Bubble-Mediated Coaxial Electro spray (Small) Tj ETQq11b0.784314 rgBT		
16	An equivalent circuit model for localized electroporation on porous substrates. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113862.	10.1	4
17	Direct numerical simulation of a pulsatile flow in a stenotic channel using immersed boundary method. <i>Engineering Reports</i> , 2022, 4, e12444.	1.7	3
18	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.	1.5	2

#	ARTICLE	IF	CITATIONS
19	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.	2.6	2
20	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, .	1.5	2
21	Special Issue "CFD Modeling of Complex Chemical Processes: Multiscale and Multiphysics Challenges" Processes, 2021, 9, 775.	2.8	1
22	On the Comparison of Flow Physics between Minimal and Extended Flow Units in Turbulent Channels. <i>Fluids</i> , 2021, 6, 192.	1.7	1
23	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.	2.6	1