Sun-Chul Kim

List of Publications by Year
in descending order

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26 papers	154 citations	1307594 7 h-index	1199594 12 g-index
26 all docs	26 docs citations	26 times ranked	72 citing authors

#	Article	IF	Citations
1	Unimodal patterns appearing in the Kolmogorov flows at large Reynolds numbers. Nonlinearity, 2015, 28, 3219-3242.	1.4	20
2	Vortices of large scale appearing in the 2D stationary Navierâ€“Stokes equations at large Reynolds numbers. Japan Journal of Industrial and Applied Mathematics, 2010, 27, 47-71.	0.9	18
3	Long Time Computation of Two-Dimensional Vortex Sheet by Point Vortex Method. Journal of the Physical Society of Japan, 2003, 72, 1968-1976.	1.6	16
4	On Prandtl--Batchelor Theory of a Cylindrical Eddy: Asymptotic Study. SIAM Journal on Applied Mathematics, 1998, 58, 1394-1413.	1.8	15
5	Point vortices on hyperbolic sphere. Journal of Geometry and Physics, 2009, 59, 475-488.	1.4	14
6	A rate of convergence for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi mathvariant="sans-serif">LANS</mml:mi><mml:mi>Î±</mml:mi></mml:math> regularization of Navierâ€“Stokes equations. Journal of Mathematical Analysis and Applications, 2008, 348, 637-649.	1.0	12
7	Interactions of three viscous point vortices. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 455501.	2.1	9
8	Latitudinal point vortex rings on the spheroid. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 1749-1768.	2.1	7
9	Relative equilibria of point vortices on the hyperbolic sphere. Journal of Mathematical Physics, 2013, 54, 063101.	1.1	7
10	Unimodal patterns appearing in the two-dimensional Navierâ€“Stokes flows under general forcing at large Reynolds numbers. European Journal of Mechanics, B/Fluids, 2017, 65, 234-246.	2.5	7
11	Emergent behaviors of a first-order particle swarm model on the hyperboloid. Journal of Mathematical Physics, 2020, 61, 042701.	1.1	5
12	Vorticity Selection with Multiple Eddies in Two-Dimensional Steady Flow at High Reynolds Number. SIAM Journal on Applied Mathematics, 2001, 61, 1605-1617.	1.8	4
13	Batchelorâ€“Wood formula for negative wall velocity. Physics of Fluids, 1999, 11, 1685-1687.	4.0	3
14	Vortex Motion on Riemann Surfaces. Journal of the Korean Physical Society, 2011, 59, 47-54.	0.7	3
15	Prandtlâ€“Batchelor Theory for Kolmogorov Flows. Journal of the Physical Society of Japan, 2020, 89, 114401.	1.6	3
16	Uniqueness of the exact solutions of the Navierâ€”Stokes equations having null nonlinearity. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2006, 136, 1303-1315.	1.2	2
17	Effect of Homogenization Pressure on Plasmin Activity and Mechanical Stress-Induced Fat Aggregation of Commercially Sterilized Ultra High Temperature Milk during Storage. Food Science of Animal Resources, 2020, 40, 734-745.	4.1	2
18	On the location of critical point for the Poisson equation in plane. Journal of Mathematical Analysis and Applications, 2006, 321, 213-222.	1.0	1

#	Article	IF	Citations
19	Stability of barotropic vortex strip on a rotating sphere. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170883.	2.1	1
20	Unimodal solutions of the generalized Constantinâ€“Laxâ€“Majda equation with viscosity. Japan Journal of Industrial and Applied Mathematics, 2018, 35, 1065-1083.	0.9	1
21	On the stationary solutions and inviscid limit for the generalized Proudmanâ€“Johnson equation with O(1) forcing. Journal of Mathematical Analysis and Applications, 2019, 472, 842-863.	1.0	1
22	Stuart vortices on a hyperbolic sphere. Journal of Mathematical Physics, 2020, 61, 023103.	1.1	1
23	THE MOTION OF POINT VORTEX DIPOLE ON THE ELLIPSOID OF REVOLUTION. Bulletin of the Korean Mathematical Society, 2010, 47, 73-79.	0.3	1
24	On stationary solutions and inviscid limits for generalized Constantinâ€“Laxâ€“Majda equation with O(1) forcing. Nonlinearity, 2020, 33, 6662-6694.	1.4	1
25	A high-order adaptive numerical method for recirculating flows at large Reynolds number. Journal of Computational and Applied Mathematics, 1999, 108, 75-86.	2.0	0
26	A free-boundary problem for Euler flows with constant vorticity on the sphere. Journal of Mathematical Analysis and Applications, 2018, 465, 703-711.	1.0	0