Karim Shariff

List of Publications by Year
in descending order

32 papers	2,716 citations	430874 18 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	1890 citing authors

#	Article	IF	Citations
1	A universal time scale for vortex ring formation. Journal of Fluid Mechanics, 1998, 360, 121-140.	3.4	934
2	A High-Resolution Hybrid Compact-ENO Scheme for Shock-Turbulence Interaction Problems. Journal of Computational Physics, 1996, 127, 27-51.	3.8	422
3	Toward Planetesimals: Dense Chondrule Clumps in the Protoplanetary Nebula. Astrophysical Journal, 2008, 687, 1432-1447.	4.5	324
4	Direct numerical simulation of a supersonic turbulent boundary layer at Mach 2.5. Journal of Fluid Mechanics, 2000, 414, 1-33.	3.4	303
5	B-Spline Method and Zonal Grids for Simulations of Complex Turbulent Flows. Journal of Computational Physics, 1999, 151, 757-789.	3.8	108
6	A numerical study of three-dimensional vortex ring instabilities: viscous corrections and early nonlinear stage. Journal of Fluid Mechanics, 1994, 279, 351-375.	3.4	68
7	GRAVITATIONAL INSTABILITY OF SOLIDS ASSISTED BY GAS DRAG: SLOWING BY TURBULENT MASS DIFFUSIVITY. Astrophysical Journal, 2011, 738, 73.	4.5	56
8	Contrail Modeling and Simulation. Annual Review of Fluid Mechanics, 2016, 48, 393-427.	25.0	53
9	Turbulent Condensation of Droplets: Direct Simulation and a Stochastic Model. Journals of the Atmospheric Sciences, 2009, 66, 723-740.	1.7	49
10	Acoustics and dynamics of coaxial interacting vortex rings. Fluid Dynamics Research, 1988, 3, 337-343.	1.3	48
11	The Force Exerted by the Membrane Potential during Protein Import into the Mitochondrial Matrix. Biophysical Journal, 2004, 86, 3647-3652.	0.5	38
12	Analysis of the radar reflectivity of aircraft vortex wakes. Journal of Fluid Mechanics, 2002, 463, 121-161.	3.4	37
13	Two-Dimensional Mesh Embedding for B-spline Methods. Journal of Computational Physics, 1998, 145, 471-488.	3.8	28
14	A ray tracing study of shock leakage in a model supersonic jet. Physics of Fluids, 2013, 25, .	4.0	26
15	Large-eddy simulations of a turbulent Coanda jet on a circulation control airfoil. Physics of Fluids, 2010, 22, .	4.0	24
16	A numerical experiment to determine whether surface shear-stress fluctuations are a true sound source. Physics of Fluids, 2005, 17, 107105.	4.0	22
17	Dynamical systems analysis of fluid transport in time-periodic vortex ring flows. Physics of Fluids, 2006, 18, 047104.	4.0	20
18	B-spline Methods in Fluid Dynamics. International Journal of Computational Fluid Dynamics, 2003, 17, 133-149.	1.2	19

#	Article	IF	Citations
19	Detached-eddy simulation based on the model. International Journal of Heat and Fluid Flow, 2014, 46, 84-101.	2.4	18
20	CRITICAL LAYERS AND PROTOPLANETARY DISK TURBULENCE. Astrophysical Journal, 2016, 830, 95.	4.5	18
21	A contour dynamics algorithm for axisymmetric flow. Journal of Computational Physics, 2008, 227, 9044-9062.	3.8	16
22	Fluid Mechanics in Disks Around Young Stars. Annual Review of Fluid Mechanics, 2009, 41, 283-315.	25.0	16
23	Numerical Study of Wind-Tunnel Sidewall Effects on Circulation Control Airfoil Flows. AIAA Journal, 2010, 48, 2123-2132.	2.6	16
24	Peak tailing in electrophoresis due to alteration of the wall charge by adsorbed analytes a. Analytica Chimica Acta, 2004, 507, 87-93.	5.4	14
25	Effect of Jet Nozzle Lip Momentum Loss on Circulation Control Airfoil Performance. AIAA Journal, 2012, 50, 551-558.	2.6	11
26	THE SPHERICALLY SYMMETRIC GRAVITATIONAL COLLAPSE OF A CLUMP OF SOLIDS IN A GAS. Astrophysical Journal, 2015, 805, 42.	4.5	10
27	Calculation of the Turbulence Characteristics of Flow Around a Circulation Control Airfoil Using LES (Invited Paper). , 2010, , .		6
28	Viscous vortex layers subject to more general strain and comparison to isotropic turbulence. Physics of Fluids, 2021, 33, .	4.0	4
29	Protostellar discs subject to infall: a one-dimensional inviscid model and comparison with ALMA observations. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5548-5569.	4.4	4
30	Making Aircraft Vortices Visible to Radar by Spraying Water into the Wake. Journal of Atmospheric and Oceanic Technology, 2016, 33, 2615-2638.	1.3	3
31	Advective balance in pipe-formed vortex rings. Journal of Fluid Mechanics, 2018, 836, 773-796.	3.4	1
32	Investigation of a Vorticity-preserving Scheme for the Euler Equations. Astrophysical Journal, 2019, 877, 113.	4.5	0

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