

# Karim Shariff

## List of Publications by Year in descending order

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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	Protostellar discs subject to infall: a one-dimensional inviscid model and comparison with ALMA observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 5548-5569.	4.4	4
2	Viscous vortex layers subject to more general strain and comparison to isotropic turbulence. <i>Physics of Fluids</i> , 2021, 33, .	4.0	4
3	Investigation of a Vorticity-preserving Scheme for the Euler Equations. <i>Astrophysical Journal</i> , 2019, 877, 113.	4.5	0
4	Advective balance in pipe-formed vortex rings. <i>Journal of Fluid Mechanics</i> , 2018, 836, 773-796.	3.4	1
5	Making Aircraft Vortices Visible to Radar by Spraying Water into the Wake. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 2615-2638.	1.3	3
6	CRITICAL LAYERS AND PROTOPLANETARY DISK TURBULENCE. <i>Astrophysical Journal</i> , 2016, 830, 95.	4.5	18
7	Contrail Modeling and Simulation. <i>Annual Review of Fluid Mechanics</i> , 2016, 48, 393-427.	25.0	53
8	THE SPHERICALLY SYMMETRIC GRAVITATIONAL COLLAPSE OF A CLUMP OF SOLIDS IN A GAS. <i>Astrophysical Journal</i> , 2015, 805, 42.	4.5	10
9	Detached-eddy simulation based on the model. <i>International Journal of Heat and Fluid Flow</i> , 2014, 46, 84-101.	2.4	18
10	A ray tracing study of shock leakage in a model supersonic jet. <i>Physics of Fluids</i> , 2013, 25, .	4.0	26
11	Effect of Jet Nozzle Lip Momentum Loss on Circulation Control Airfoil Performance. <i>AIAA Journal</i> , 2012, 50, 551-558.	2.6	11
12	GRAVITATIONAL INSTABILITY OF SOLIDS ASSISTED BY GAS DRAG: SLOWING BY TURBULENT MASS DIFFUSIVITY. <i>Astrophysical Journal</i> , 2011, 738, 73.	4.5	56
13	Numerical Study of Wind-Tunnel Sidewall Effects on Circulation Control Airfoil Flows. <i>AIAA Journal</i> , 2010, 48, 2123-2132.	2.6	16
14	Large-eddy simulations of a turbulent Coanda jet on a circulation control airfoil. <i>Physics of Fluids</i> , 2010, 22, .	4.0	24
15	Calculation of the Turbulence Characteristics of Flow Around a Circulation Control Airfoil Using LES (Invited Paper). , 2010, , .		6
16	Turbulent Condensation of Droplets: Direct Simulation and a Stochastic Model. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 723-740.	1.7	49
17	Fluid Mechanics in Disks Around Young Stars. <i>Annual Review of Fluid Mechanics</i> , 2009, 41, 283-315.	25.0	16
18	A contour dynamics algorithm for axisymmetric flow. <i>Journal of Computational Physics</i> , 2008, 227, 9044-9062.	3.8	16

#	ARTICLE	IF	CITATIONS
19	Toward Planetesimals: Dense Chondrule Clumps in the Protoplanetary Nebula. <i>Astrophysical Journal</i> , 2008, 687, 1432-1447.	4.5	324
20	Dynamical systems analysis of fluid transport in time-periodic vortex ring flows. <i>Physics of Fluids</i> , 2006, 18, 047104.	4.0	20
21	A numerical experiment to determine whether surface shear-stress fluctuations are a true sound source. <i>Physics of Fluids</i> , 2005, 17, 107105.	4.0	22
22	Peak tailing in electrophoresis due to alteration of the wall charge by adsorbed analytes a. <i>Analytica Chimica Acta</i> , 2004, 507, 87-93.	5.4	14
23	The Force Exerted by the Membrane Potential during Protein Import into the Mitochondrial Matrix. <i>Biophysical Journal</i> , 2004, 86, 3647-3652.	0.5	38
24	B-spline Methods in Fluid Dynamics. <i>International Journal of Computational Fluid Dynamics</i> , 2003, 17, 133-149.	1.2	19
25	Analysis of the radar reflectivity of aircraft vortex wakes. <i>Journal of Fluid Mechanics</i> , 2002, 463, 121-161.	3.4	37
26	Direct numerical simulation of a supersonic turbulent boundary layer at Mach 2.5. <i>Journal of Fluid Mechanics</i> , 2000, 414, 1-33.	3.4	303
27	B-Spline Method and Zonal Grids for Simulations of Complex Turbulent Flows. <i>Journal of Computational Physics</i> , 1999, 151, 757-789.	3.8	108
28	Two-Dimensional Mesh Embedding for B-spline Methods. <i>Journal of Computational Physics</i> , 1998, 145, 471-488.	3.8	28
29	A universal time scale for vortex ring formation. <i>Journal of Fluid Mechanics</i> , 1998, 360, 121-140.	3.4	934
30	A High-Resolution Hybrid Compact-ENO Scheme for Shock-Turbulence Interaction Problems. <i>Journal of Computational Physics</i> , 1996, 127, 27-51.	3.8	422
31	A numerical study of three-dimensional vortex ring instabilities: viscous corrections and early nonlinear stage. <i>Journal of Fluid Mechanics</i> , 1994, 279, 351-375.	3.4	68
32	Acoustics and dynamics of coaxial interacting vortex rings. <i>Fluid Dynamics Research</i> , 1988, 3, 337-343.	1.3	48