

Ronald J Adrian

List of Publications by Year in descending order

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42
papers

8,306
citations

218381

26
h-index

344852

36
g-index

44
all docs

44
docs citations

44
times ranked

5229
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle-Imaging Techniques for Experimental Fluid Mechanics. Annual Review of Fluid Mechanics, 1991, 23, 261-304.	10.8	2,776
2	Hairpin vortex organization in wall turbulence. Physics of Fluids, 2007, 19, 041301.	1.6	959
3	Theory of cross-correlation analysis of PIV images. Flow, Turbulence and Combustion, 1992, 49, 191-215.	0.2	937
4	On the relationships between local vortex identification schemes. Journal of Fluid Mechanics, 2005, 535, 189-214.	1.4	747
5	Particle Image Velocimetry for Complex and Turbulent Flows. Annual Review of Fluid Mechanics, 2013, 45, 409-436.	10.8	372
6	Stochastic estimation of organized turbulent structure: homogeneous shear flow. Journal of Fluid Mechanics, 1988, 190, 531-559.	1.4	269
7	Pulsed laser technique application to liquid and gaseous flows and the scattering power of seed materials. Applied Optics, 1985, 24, 44.	2.1	229
8	Flow past a sphere with an oscillation in the free-stream velocity and unsteady drag at finite Reynolds number. Journal of Fluid Mechanics, 1992, 237, 323-341.	1.4	199
9	Phase-conjugate holographic system for high-resolution particle-image velocimetry. Applied Optics, 1994, 33, 7159.	2.1	198
10	Conditional eddies in isotropic turbulence. Physics of Fluids, 1979, 22, 2065.	1.4	170
11	Unsteady drag on a sphere at finite Reynolds number with small fluctuations in the free-stream velocity. Journal of Fluid Mechanics, 1991, 233, 613-631.	1.4	146
12	Autogeneration of near-wall vortical structures in channel flow. Physics of Fluids, 1996, 8, 288-290.	1.6	141
13	Particle dispersion in isotropic turbulence under Stokes drag and Basset force with gravitational settling. Journal of Fluid Mechanics, 1991, 225, 481-495.	1.4	123
14	Packet Structure of Surface Eddies in the Atmospheric Boundary Layer. Boundary-Layer Meteorology, 2003, 106, 147-170.	1.2	112
15	Brownian motion and correlation in particle image velocimetry. Optics and Laser Technology, 2000, 32, 621-627.	2.2	110
16	Effects of polymer stresses on eddy structures in drag-reduced turbulent channel flow. Journal of Fluid Mechanics, 2007, 584, 281-299.	1.4	110
17	Coherent structures in flow over hydraulic engineering surfaces. Journal of Hydraulic Research/De Recherches Hydrauliques, 2012, 50, 451-464.	0.7	106
18	Stochastic estimation of conditional structure: a review. Flow, Turbulence and Combustion, 1994, 53, 291-303.	0.2	86

#	ARTICLE	IF	CITATIONS
19	Dynamics of Hairpin Vortices and Polymer-Induced Turbulent Drag Reduction. <i>Physical Review Letters</i> , 2008, 100, 134504.	2.9	73
20	Characterization of light-induced, volumetric steam generation in nanofluids. <i>International Journal of Thermal Sciences</i> , 2012, 56, 1-11.	2.6	67
21	Vapor generation in a nanoparticle liquid suspension using a focused, continuous laser. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	48
22	Orthogonal compression and 1-D analysis technique for measurement of 2-D particle displacements in pulsed laser velocimetry. <i>Applied Optics</i> , 1984, 23, 1687.	2.1	36
23	Double exposure, multiple-field particle image velocimetry for turbulent probability density. <i>Optics and Lasers in Engineering</i> , 1988, 9, 211-228.	2.0	34
24	Cinematic particle image velocimetry of high-Reynolds-number turbulent free shear layer. <i>AIAA Journal</i> , 1996, 34, 299-308.	1.5	32
25	Effects of background noise on generating coherent packets of hairpin vortices. <i>Physics of Fluids</i> , 2008, 20, .	1.6	30
26	Vortex organization in a turbulent boundary layer overlying sparse roughness elements. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012, 50, 465-481.	0.7	27
27	Space-time formation of very-large-scale motions in turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2019, 881, 1010-1047.	1.4	22
28	Experimental study on the role of spanwise vorticity and vortex filaments in the outer region of open-channel flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 476-489.	0.7	20
29	3D printing of gas-dynamic virtual nozzles and optical characterization of high-speed microjets. <i>Optics Express</i> , 2020, 28, 21749.	1.7	20
30	PIV through moving shocks with refracting curvature. <i>Experiments in Fluids</i> , 2011, 50, 847-862.	1.1	16
31	Measurement volume defined by peak-finding algorithms in cross-correlation particle image velocimetry. <i>Measurement Science and Technology</i> , 2001, 12, N14-N16.	1.4	14
32	The Eddies and Scales of Wall Turbulence. , 0, , 176-220.		13
33	<title>Theory and simulation of particle image velocimetry</title>. , 1993, 2052, 477.		9
34	<title>Prospects for super-resolution with particle image velocimetry</title>. , 1993, , .		8
35	Effect of Reynolds Number on Isotropic Turbulent Dispersion. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1995, 117, 402-409.	0.8	8
36	Comment on "Axial stretching and vortex definition" [Phys. Fluids 17, 038108 (2005)]. <i>Physics of Fluids</i> , 2006, 18, 029101.	1.6	8

#	ARTICLE	IF	CITATIONS
37	N-pulse particle image velocimetry-accelerometry for unsteady flow-structure interaction. Measurement Science and Technology, 2017, 28, 014001.	1.4	4
38	LOCAL VORTEX IDENTIFICATION CRITERIA: INTER-RELATIONSHIPS AND A UNIFIED OUTLOOK. , 2006, , 111-115.		4
39	<title>Recent results of a phase-conjugate holographic system for high-resolution particle image holography</title>. , 1995, 2333, 321.		3
40	Velocity measurements of gas escaping a particle bed during shock-driven expansion. Experiments in Fluids, 2020, 61, 1.	1.1	3
41	Stochastic Estimation of Conditional Structure. Fluid Mechanics and Its Applications, 1993, , 271-280.	0.1	2
42	<title>Holographic particle image velocimetry</title>. , 1992, 1600, 357.		1