

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	Velocity measurements of gas escaping a particle bed during shock-driven expansion. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	3
2	3D printing of gas-dynamic virtual nozzles and optical characterization of high-speed microjets. <i>Optics Express</i> , 2020, 28, 21749.	1.7	20
3	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
4	N-pulse particle image velocimetry-accelerometry for unsteady flow-structure interaction. <i>Measurement Science and Technology</i> , 2017, 28, 014001.	1.4	4
5	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
6	Particle Image Velocimetry for Complex and Turbulent Flows. <i>Annual Review of Fluid Mechanics</i> , 2013, 45, 409-436.	10.8	372
7	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
8	Coherent structures in flow over hydraulic engineering surfaces. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012, 50, 451-464.	0.7	106
9	Characterization of light-induced, volumetric steam generation in nanofluids. <i>International Journal of Thermal Sciences</i> , 2012, 56, 1-11.	2.6	67
10	PIV through moving shocks with refracting curvature. <i>Experiments in Fluids</i> , 2011, 50, 847-862.	1.1	16
11	Vapor generation in a nanoparticle liquid suspension using a focused, continuous laser. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	48
12	Effects of background noise on generating coherent packets of hairpin vortices. <i>Physics of Fluids</i> , 2008, 20, .	1.6	30
13	Dynamics of Hairpin Vortices and Polymer-Induced Turbulent Drag Reduction. <i>Physical Review Letters</i> , 2008, 100, 134504.	2.9	73
14	Hairpin vortex organization in wall turbulence. <i>Physics of Fluids</i> , 2007, 19, 041301.	1.6	959
15	Effects of polymer stresses on eddy structures in drag-reduced turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2007, 584, 281-299.	1.4	110
16	Comment on "Axial stretching and vortex definition" [Phys. Fluids 17, 038108 (2005)]. <i>Physics of Fluids</i> , 2006, 18, 029101.	1.6	8
17	LOCAL VORTEX IDENTIFICATION CRITERIA: INTER-RELATIONSHIPS AND A UNIFIED OUTLOOK. , 2006, , 111-115.		4
18	On the relationships between local vortex identification schemes. <i>Journal of Fluid Mechanics</i> , 2005, 535, 189-214.	1.4	747

#	ARTICLE	IF	CITATIONS
19	Packet Structure of Surface Eddies in the Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2003, 106, 147-170.	1.2	112
20	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
21	Brownian motion and correlation in particle image velocimetry. <i>Optics and Laser Technology</i> , 2000, 32, 621-627.	2.2	110
22	Autogeneration of near-wall vortical structures in channel flow. <i>Physics of Fluids</i> , 1996, 8, 288-290.	1.6	141
23	Cinematic particle image velocimetry of high-Reynolds-number turbulent free shear layer. <i>AIAA Journal</i> , 1996, 34, 299-308.	1.5	32
24	<title>Recent results of a phase-conjugate holographic system for high-resolution particle image holography</title>. , 1995, 2333, 321.		3
25	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
26	Stochastic estimation of conditional structure: a review. <i>Flow, Turbulence and Combustion</i> , 1994, 53, 291-303.	0.2	86
27	Phase-conjugate holographic system for high-resolution particle-image velocimetry. <i>Applied Optics</i> , 1994, 33, 7159.	2.1	198
28	<title>Theory and simulation of particle image velocimetry</title>. , 1993, 2052, 477.		9
29	<title>Prospects for super-resolution with particle image velocimetry</title>. , 1993, , .		8
30	Stochastic Estimation of Conditional Structure. <i>Fluid Mechanics and Its Applications</i> , 1993, , 271-280.	0.1	2
31	<title>Holographic particle image velocimetry</title>. , 1992, 1600, 357.		1
32	Flow past a sphere with an oscillation in the free-stream velocity and unsteady drag at finite Reynolds number. <i>Journal of Fluid Mechanics</i> , 1992, 237, 323-341.	1.4	199
33	Theory of cross-correlation analysis of PIV images. <i>Flow, Turbulence and Combustion</i> , 1992, 49, 191-215.	0.2	937
34	Particle dispersion in isotropic turbulence under Stokes drag and Basset force with gravitational settling. <i>Journal of Fluid Mechanics</i> , 1991, 225, 481-495.	1.4	123
35	Unsteady drag on a sphere at finite Reynolds number with small fluctuations in the free-stream velocity. <i>Journal of Fluid Mechanics</i> , 1991, 233, 613-631.	1.4	146
36	Particle-Imaging Techniques for Experimental Fluid Mechanics. <i>Annual Review of Fluid Mechanics</i> , 1991, 23, 261-304.	10.8	2,776

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37	Double exposure, multiple-field particle image velocimetry for turbulent probability density. Optics and Lasers in Engineering, 1988, 9, 211-228.	2.0	34
38	Stochastic estimation of organized turbulent structure: homogeneous shear flow. Journal of Fluid Mechanics, 1988, 190, 531-559.	1.4	269
39	Pulsed laser technique application to liquid and gaseous flows and the scattering power of seed materials. Applied Optics, 1985, 24, 44.	2.1	229
40	Orthogonal compression and 1-D analysis technique for measurement of 2-D particle displacements in pulsed laser velocimetry. Applied Optics, 1984, 23, 1687.	2.1	36
41	Conditional eddies in isotropic turbulence. Physics of Fluids, 1979, 22, 2065.	1.4	170
42	The Eddies and Scales of Wall Turbulence. , 0, , 176-220.		13