

Joseph Katz

List of Publications by Year in descending order

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242
papers

10,655
citations

28190

55
h-index

38300

95
g-index

245
all docs

245
docs citations

245
times ranked

5442
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of a jet orifice on the hydrodynamics and the oil droplet size distribution. International Journal of Multiphase Flow, 2022, 147, 103921.	1.6	5
2	Epithelial plasticity in COPD results in cellular unjamming due to an increase in polymerized actin. Journal of Cell Science, 2022, 135, .	1.2	10
3	Cerebral microcirculation mapped by echo particle tracking velocimetry quantifies the intracranial pressure and detects ischemia. Nature Communications, 2022, 13, 666.	5.8	14
4	Spatiotemporal characterization of turbulent channel flow with a hyperelastic compliant wall. Journal of Fluid Mechanics, 2022, 942, .	1.4	6
5	Time Evolution and Effect of Dispersant on the Morphology and Viscosity of Water-In-Crude-Oil Emulsions. Langmuir, 2021, 37, 1725-1742.	1.6	12
6	Flow structure and turbulence in the near field of an immiscible buoyant oil jet. Physical Review Fluids, 2021, 6, .	1.0	2
7	Transport of oil droplets from a jet in crossflow: Dispersion coefficients and Vortex trapping. Ocean Modelling, 2021, 158, 101736.	1.0	9
8	Reconstructing velocity and pressure from noisy sparse particle tracks using constrained cost minimization. Experiments in Fluids, 2021, 62, 1.	1.1	16
9	Transport and Fate of Virus-Laden Particles in a Supermarket: Recommendations for Risk Reduction of COVID-19 Spreading. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	12
10	Effect of Axial Casing Groove Geometry on Rotor-Groove Interactions in the Tip Region of a Compressor. Journal of Turbomachinery, 2021, 143, .	0.9	5
11	Experimental investigation of the three-dimensional flow structure around a pair of cubes immersed in the inner part of a turbulent channel flow. Journal of Fluid Mechanics, 2021, 918, .	1.4	7
12	Effects of Axial Casing Grooves on the Structure of Turbulence in the Tip Region of an Axial Turbomachine Rotor. Journal of Turbomachinery, 2021, 143, .	0.9	4
13	Large eddy simulation and experiment of shear breakup in liquid-liquid jet: Formation of ligaments and droplets. International Journal of Heat and Fluid Flow, 2021, 89, 108810.	1.1	9
14	Effect of Oil Properties on the Generation of Nano-Aerosols During Bubble Bursting Through Crude Oil "Dispersant Slicks. Langmuir, 2021, 37, 13365-13378.	1.6	1
15	Time-Resolved Echo-Particle Image/Tracking Velocimetry Measurement of Interactions Between Native Cardiac Output and Venous-Arterial ECMO Flows. Journal of Biomechanical Engineering, 2021, 143, .	0.6	3
16	Small Scale Physical and Bio-Chemical Processes Affecting the Transport of Oil after a Spill. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	0
17	Formation of compound droplets during fragmentation of turbulent buoyant oil jet in "water " ADDENDUM. Journal of Fluid Mechanics, 2020, 884, .	1.4	2
18	A Review on Multiphase Underwater Jets and Plumes: Droplets, Hydrodynamics, and Chemistry. Reviews of Geophysics, 2020, 58, e2020RG000703.	9.0	22

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19	On the interaction of a compliant wall with a turbulent boundary layer. Journal of Fluid Mechanics, 2020, 899, .	1.4	11
20	Modeling oil dispersion under breaking waves. Part II: Coupling Lagrangian particle tracking with population balance model. Environmental Fluid Mechanics, 2020, 20, 1553-1578.	0.7	12
21	On the mechanisms that sustain the inception of attached cavitation. Journal of Fluid Mechanics, 2020, 901, .	1.4	16
22	Modeling oil dispersion under breaking waves. Part I: Wave hydrodynamics. Environmental Fluid Mechanics, 2020, 20, 1527-1551.	0.7	14
23	Persistent thin water films encapsulate oil droplets crossing an oil-water interface. Chemical Engineering Journal, 2020, 387, 124075.	6.6	3
24	Impact of dispersant on crude oil content of airborne fine particulate matter emitted from seawater after an oil spill. Chemosphere, 2020, 256, 127063.	4.2	14
25	Experimental Investigations of Cavitation Performance Breakdown in an Axial Waterjet Pump. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	14
26	Formation of compound droplets during fragmentation of turbulent buoyant oil jet in water. Journal of Fluid Mechanics, 2019, 878, 98-112.	1.4	17
27	A Device for measuring the in-situ response of Human Bronchial Epithelial Cells to airborne environmental agents. Scientific Reports, 2019, 9, 7263.	1.6	14
28	Aerosolization of Crude Oil Dispersant Slicks Due to Bubble Bursting. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5555-5578.	1.2	18
29	GPU-based, parallel-line, omni-directional integration of measured pressure gradient field to obtain the 3D pressure distribution. Experiments in Fluids, 2019, 60, 1.	1.1	25
30	Challenges in Modeling of Turbulence in the Tip Region of Axial Turbomachines. Journal of Ship Research, 2019, 63, 56-68.	0.5	6
31	On the Interactions of a Rotor Blade Tip Flow With Axial Casing Grooves in an Axial Compressor Near the Best Efficiency Point. Journal of Turbomachinery, 2019, 141, .	0.9	9
32	On the Effects of Tip Clearance and Operating Condition on the Flow Structures Within an Axial Turbomachine Rotor Passage. Journal of Turbomachinery, 2019, 141, .	0.9	12
33	Systematic Experimental Evaluations Aimed at Optimizing the Geometry of Axial Casing Groove in a Compressor. , 2019, , .		6
34	A laboratory study of particulate and gaseous emissions from crude oil and crude oil-dispersant contaminated seawater due to breaking waves. Atmospheric Environment, 2018, 179, 177-186.	1.9	36
35	Advanced Pediatric Neurosonography Techniques: Contrast-Enhanced Ultrasonography, Elastography, and Beyond. Journal of Neuroimaging, 2018, 28, 150-157.	1.0	15
36	Optimized Time-Resolved Echo Particle Image Velocimetry Particle Tracking Velocimetry Measurements Elucidate Blood Flow in Patients With Left Ventricular Thrombus. Journal of Biomechanical Engineering, 2018, 140, .	0.6	11

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37	On the Interactions of a Rotor Blade Tip Flow With Axial Casing Grooves in an Axial Compressor Near the Best Efficiency Point. , 2018, , .		3
38	On the transport and modeling of dispersed oil under ice. Marine Pollution Bulletin, 2018, 135, 569-580.	2.3	19
39	Self-calibrated microscopic dual-view tomographic holography for 3D flow measurements. Optics Express, 2018, 26, 16708.	1.7	19
40	Pressureâ€“Rate-of-Strain, Pressure Diffusion, and Velocityâ€“Pressure-Gradient Tensor Measurements in a Cavity Flow. AIAA Journal, 2018, 56, 3897-3914.	1.5	16
41	Chaos in breaking waves. Coastal Engineering, 2018, 140, 272-291.	1.7	25
42	Pressure Rate of Strain, Pressure Diffusion and Velocity Pressure Gradient Tensor Measurements in a Cavity Shear Layer Flow. , 2017, , .		4
43	Visualizations of Flow Structures in the Rotor Passage of an Axial Compressor at the Onset of Stall. Journal of Turbomachinery, 2017, 139, .	0.9	22
44	Deformation of a compliant wall in a turbulent channel flow. Journal of Fluid Mechanics, 2017, 823, 345-390.	1.4	36
45	An Experimental Study of Stall Suppression and Associated Changes to the Flow Structures in the Tip Region of an Axial Low Speed Fan Rotor by Axial Casing Grooves. Journal of Turbomachinery, 2017, 139, .	0.9	11
46	Distortion of the Actin A-Triad Results in Contractile Disinhibition and Cardiomyopathy. Cell Reports, 2017, 20, 2612-2625.	2.9	26
47	An Experimental Study of Stall Suppression and Associated Changes to the Flow Structures in the Tip Region of an Axial Low Speed Fan Rotor by Axial Casing Grooves. , 2017, , .		7
48	Measurements and Characterization of Turbulence in the Tip Region of an Axial Compressor Rotor. , 2017, , .		4
49	A New Mechanism of Sediment Attachment to Oil in Turbulent Flows: Projectile Particles. Environmental Science & Technology, 2017, 51, 11020-11028.	4.6	35
50	Size Distribution and Dispersion of Droplets Generated by Impingement of Breaking Waves on Oil Slicks. Journal of Geophysical Research: Oceans, 2017, 122, 7938-7957.	1.0	86
51	Measurements and Characterization of Turbulence in the Tip Region of an Axial Compressor Rotor. Journal of Turbomachinery, 2017, 139, .	0.9	10
52	Space and Time Resolved Detection of Platelet Activation and von Willebrand Factor Conformational Changes in Deep Suspensions. International Journal of Biomedical Imaging, 2017, 2017, 1-13.	3.0	2
53	Effect of Reynolds number and saturation level on gas diffusion in and out of a superhydrophobic surface. Physical Review Fluids, 2017, 2, .	1.0	36
54	Development of an In Vitro Exposure System for Live Visualization of the Health Impacts of Oily Marine Aerosol on the Human Respiratory System. International Oil Spill Conference Proceedings, 2017, 2017, 2017349.	0.1	0

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55	Refractive index matched visualization and particle image velocimetry measurements of initial breakup of turbulent oil jet. International Oil Spill Conference Proceedings, 2017, 2017, 2017328.	0.1	0
56	Investigation of the influence of subgrid-scale stress on the accuracy of non-intrusive spatial pressure measurement using a DNS channel flow database. , 2016, , .		0
57	Visualizations of Flow Structures in the Rotor Passage of an Axial Compressor at the Onset of Stall. , 2016, , .		6
58	Effects of Tip Clearance and Operating Conditions on the Flow Structure and Turbulence Within an Axial Compressor Rotor Passage. , 2016, , .		13
59	High-resolution velocity measurement in the inner part of turbulent boundary layers over super-hydrophobic surfaces. Journal of Fluid Mechanics, 2016, 801, 670-703.	1.4	83
60	Crude oil jets in crossflow: Effects of dispersant concentration on plume behavior. Journal of Geophysical Research: Oceans, 2016, 121, 4264-4281.	1.0	30
61	Splash behaviour and oily marine aerosol production by raindrops impacting oil slicks. Journal of Fluid Mechanics, 2015, 780, 536-577.	1.4	72
62	Effects of Tip Gap Size on the Flow Structure in the Tip Region of an Axial Turbomachine. , 2015, , .		5
63	Investigation of Unsteady Tip Clearance Flow in a Low-Speed One and Half Stage Axial Compressor With LES and PIV. , 2015, , .		11
64	Experimental Investigation of the Role of Large Scale Cavitating Vortical Structures in Performance Breakdown of an Axial Waterjet Pump. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	0.8	67
65	Visualization and Time-Resolved Particle Image Velocimetry Measurements of the Flow in the Tip Region of a Subsonic Compressor Rotor. Journal of Turbomachinery, 2015, 137, .	0.9	33
66	Integrating Mach-Zehnder interferometry with TPIV to measure the time-resolved deformation of a compliant wall along with the 3D velocity field in a turbulent channel flow. Experiments in Fluids, 2015, 56, 1.	1.1	17
67	The Three Dimensional Flow Structure and Turbulence in the Tip Region of an Axial Flow Compressor. , 2015, , .		13
68	Turbulent Flow Structure Inside a Canopy with Complex Multi-Scale Elements. Boundary-Layer Meteorology, 2015, 155, 435-457.	1.2	44
69	On the wave and current interaction with a rippled seabed in the coastal ocean bottom boundary layer. Journal of Geophysical Research: Oceans, 2015, 120, 4595-4624.	1.0	20
70	PIV Measurements of the Flow in the Tip Region of a Compressor Rotor. , 2014, , .		4
71	Investigation of Unsteady Flow Field in a Low-Speed One and a Half Stage Axial Compressor: Effects of Tip Gap Size on the Tip Clearance Flow Structure at Near Stall Operation. , 2014, , .		17
72	On the refractive index of sodium iodide solutions for index matching in PIV. Experiments in Fluids, 2014, 55, 1.	1.1	79

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73	Separating twin images and locating the center of a microparticle in dense suspensions using correlations among reconstructed fields of two parallel holograms. <i>Applied Optics</i> , 2014, 53, G1.	0.9	15
74	Time-Resolved Simultaneous Measurements of Flow Field and Surface Deformation of Turbulent Channel Flow Over a Compliant Wall. , 2014, , .		0
75	Visualization and Time Resolved PIV Measurements of the Flow in the Tip Region of a Subsonic Compressor Rotor. , 2014, , .		8
76	Effect of mean and fluctuating pressure gradients on boundary layer turbulence. <i>Journal of Fluid Mechanics</i> , 2014, 748, 36-84.	1.4	27
77	Experimental study of spectral energy fluxes in turbulence generated by a fractal, tree-like object. <i>Physics of Fluids</i> , 2013, 25, .	1.6	20
78	Three-dimensional velocity measurements in a roughness sublayer using microscopic digital in-line holography and optical index matching. <i>Measurement Science and Technology</i> , 2013, 24, 024004.	1.4	29
79	Vortex-corner interactions in a cavity shear layer elucidated by time-resolved measurements of the pressure field. <i>Journal of Fluid Mechanics</i> , 2013, 728, 417-457.	1.4	76
80	Dynamics of cavitation clouds within a high-intensity focused ultrasonic beam. <i>Physics of Fluids</i> , 2013, 25, .	1.6	16
81	Characterization of biophysical interactions in the water column using in situ digital holography. <i>Marine Ecology - Progress Series</i> , 2013, 473, 29-51.	0.9	55
82	Effects of Fluctuating Pressure Gradients on Boundary Layer Turbulence. , 2013, , .		0
83	The Internal Structure of the Tip Leakage Vortex Within the Rotor of an Axial Waterjet Pump. <i>Journal of Turbomachinery</i> , 2012, 134, .	0.9	103
84	Flow Visualization Using Cavitation Within Blade Passage of an Axial Waterjet Pump Rotor. , 2012, , .		5
85	Generation and Transport of Bubbles in Intense Ultrasonic Fields. , 2012, , .		1
86	Coherent structures in the inner part of a rough-wall channel flow resolved using holographic PIV. <i>Journal of Fluid Mechanics</i> , 2012, 711, 161-170.	1.4	30
87	Coherent structures and associated subgrid-scale energy transfer in a rough-wall turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2012, 712, 92-128.	1.4	45
88	Theoretical and experimental study of resonance of blobs in porous media. <i>Geophysics</i> , 2012, 77, EN61-EN71.	1.4	15
89	Turbulence Within the Tip-Leakage Vortex of an Axial Waterjet Pump. <i>AIAA Journal</i> , 2012, 50, 2574-2587.	1.5	61
90	Application of in-situ digital holography in the study of particles, organisms and bubbles within their natural environment. , 2012, , .		19

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91	Algal Toxins Alter Copepod Feeding Behavior. PLoS ONE, 2012, 7, e36845.	1.1	53
92	Near-Wake Turbulent Flow Structure and Mixing Length Downstream of a Fractal Tree. Boundary-Layer Meteorology, 2012, 143, 285-308.	1.2	40
93	Field measurements of turbulence at an unstable interface between current and wave bottom boundary layers. Journal of Geophysical Research, 2011, 116, .	3.3	10
94	Measurements of the tip leakage vortex structures and turbulence in the meridional plane of an axial water-jet pump. Experiments in Fluids, 2011, 50, 989-1003.	1.1	136
95	Three-dimensional flow structures and associated turbulence in the tip region of a waterjet pump rotor blade. Experiments in Fluids, 2011, 51, 1721-1737.	1.1	105
96	Near-wall turbulence statistics and flow structures over three-dimensional roughness in a turbulent channel flow. Journal of Fluid Mechanics, 2011, 667, 1-37.	1.4	107
97	Turbulence in Accelerating Boundary Layers. , 2011, , .		2
98	Measurements of mean flow and turbulence characteristics in high-Reynolds number counter-rotating Taylor-Couette flow. Physics of Fluids, 2011, 23, .	1.6	13
99	Time Resolved Measurements of the Pressure Field Generated by Vortex-Corner Interactions in a Cavity Shear Layer. , 2011, , .		2
100	Analysis of Turbulence in the Tip Region of a Waterjet Pump Rotor. , 2010, , .		3
101	The Internal Structure of the Tip Leakage Vortex Within the Rotor of an Axial Waterjet Pump. , 2010, , .		74
102	Enhancement of channel wall vibration due to acoustic excitation of an internal bubbly flow. Journal of Fluids and Structures, 2010, 26, 994-1017.	1.5	13
103	Analysis of flow distribution from high-speed flow actuator using particle image velocimetry and digital speckle tomography. Flow Measurement and Instrumentation, 2010, 21, 443-453.	1.0	46
104	Turbulent Shearing of Crude Oil Mixed with Dispersants Generates Long Microthreads and Microdroplets. Physical Review Letters, 2010, 104, 054501.	2.9	71
105	A dinoflagellate exploits toxins to immobilize prey prior to ingestion. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2082-2087.	3.3	124
106	Stretching of turbulent eddies generates cavitation near a stagnation point. Physics of Fluids, 2010, 22, 041702.	1.6	2
107	The Effects of Inlet Guide Vane-Wake Impingement on the Boundary Layer and the Near-Wake of a Rotor Blade. Journal of Turbomachinery, 2010, 132, .	0.9	10
108	Applications of Holography in Fluid Mechanics and Particle Dynamics. Annual Review of Fluid Mechanics, 2010, 42, 531-555.	10.8	371

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109	On the role of copepod antennae in the production of hydrodynamic force during hopping. <i>Journal of Experimental Biology</i> , 2010, 213, 3019-3035.	0.8	29
110	Effect of Finite Spatial Resolution on the Turbulent Energy Spectrum Measured in the Coastal Ocean Bottom Boundary Layer. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 2610-2625.	0.5	13
111	Buffer layer structures associated with extreme wall stress events in a smooth wall turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2009, 633, 17-60.	1.4	65
112	Investigation of the Formation of Microbubbly Liquid Fuel. , 2009, , .		1
113	Turbulent kinetic energy budgets in a model canopy: comparisons between LES and wind-tunnel experiments. <i>Environmental Fluid Mechanics</i> , 2008, 8, 73-95.	0.7	45
114	Using digital holographic microscopy for simultaneous measurements of 3D near wall velocity and wall shear stress in a turbulent boundary layer. <i>Experiments in Fluids</i> , 2008, 45, 1023-1035.	1.1	122
115	Characterization of a High-Speed Flow Control Actuator Using Digital Speckle Tomography and PIV. , 2008, , .		21
116	Digital Holographic Microscopy Elucidates the Effects of Buffer Layer Flow Structures on Wall Shear Stress Distributions in a Turbulent Boundary Layer. , 2008, , .		0
117	The influence of local meteorological conditions on the circadian rhythm of corn (<i>Zea mays</i> L.) pollen emission. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1078-1092.	1.9	33
118	Near-Wall Stereo PIV Investigation of the Turbulent Channel Flow Over Rough-Walls. , 2008, , .		0
119	The Effects of IGV Wake Impingement on the Boundary Layer and the Near-Wake of a Rotor Blade. , 2008, , .		1
120	Turbulence Within a Turbomachine Rotor Wake Subject to Nonuniform Contraction. <i>AIAA Journal</i> , 2008, 46, 2687-2702.	1.5	15
121	Experimental investigation of turbulent diffusion of slightly buoyant droplets in locally isotropic turbulence. <i>Physics of Fluids</i> , 2008, 20, .	1.6	29
122	Numerical study on the motion of microscopic oil droplets in high intensity isotropic turbulence. <i>Physics of Fluids</i> , 2008, 20, 073301.	1.6	3
123	Cavitation phenomena occurring due to interaction of shear layer vortices with the trailing corner of a two-dimensional open cavity. <i>Physics of Fluids</i> , 2008, 20, .	1.6	27
124	Cavitation in the Tip Region of the Rotor Blades Within a Waterjet Pump. , 2008, , .		3
125	Effect of Internal Bubbly Flow on Channel Vibration: Comparison Between Experiment and Model. , 2008, , .		0
126	Digital holographic microscopy reveals prey-induced changes in swimming behavior of predatory dinoflagellates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17512-17517.	3.3	144

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127	Statistical analysis of small bubble dynamics in isotropic turbulence. <i>Physics of Fluids</i> , 2007, 19, 065108.	1.6	33
128	Analysis of In-situ Microscopic Organism Behavior in Data Acquired Using a Free-drifting Submersible Holographic Imaging System. , 2007, , .		14
129	A database of PIV measurements within a turbomachinery stage and sample comparisons with unsteady RANS. <i>Journal of Turbulence</i> , 2007, 8, N10.	0.5	16
130	PIV Measurements in the Atmospheric Boundary Layer within and above a Mature Corn Canopy. Part I: Statistics and Energy Flux. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 2805-2824.	0.6	33
131	Distribution of Energy Spectra, Reynolds Stresses, Turbulence Production, and Dissipation in a Tidally Driven Bottom Boundary Layer. <i>Journal of Physical Oceanography</i> , 2007, 37, 1527-1550.	0.7	46
132	Vibration Behavior of a Channel Subjected to an Internal Two-Phase Flow. , 2007, , 117.		0
133	Structure of Turbulence Around the Trailing Edge of a Rotor Blade. , 2007, , 985.		0
134	Measurements of Turbulent Flows. , 2007, , 745-855.		2
135	PIV Measurements in the Atmospheric Boundary Layer within and above a Mature Corn Canopy. Part II: Quadrant-Hole Analysis. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 2825-2838.	0.6	39
136	A comparative quadrant analysis of turbulence in a plant canopy. <i>Water Resources Research</i> , 2007, 43, .	1.7	72
137	The effect of waves on subgrid-scale stresses, dissipation and model coefficients in the coastal ocean bottom boundary layer. <i>Journal of Fluid Mechanics</i> , 2007, 583, 133-160.	1.4	7
138	Large-eddy simulation of plant canopy flows using plant-scale representation. <i>Boundary-Layer Meteorology</i> , 2007, 124, 183-203.	1.2	67
139	On the flow structure and turbulence during sweep and ejection events in a wind-tunnel model canopy. <i>Boundary-Layer Meteorology</i> , 2007, 124, 205-233.	1.2	27
140	Flow Measurement Techniques in Turbomachinery. , 2007, , 919-957.		8
141	A Comparison of Cavitation Inception Index Measurements to the Spatial Pressure Distribution Within a 2D Cavity Shear Flow. , 2007, , .		1
142	The Effect of IGV Wake Impingement on a Rotor Boundary Layer. , 2006, , .		1
143	Experimental Characterization of a Supersonic Flow Control Actuator. , 2006, , .		34
144	Scale interactions of turbulence subjected to a strainingâ€“relaxationâ€“destraining cycle. <i>Journal of Fluid Mechanics</i> , 2006, 562, 123.	1.4	45

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145	Digital holographic microscope for measuring three-dimensional particle distributions and motions. Applied Optics, 2006, 45, 3893.	2.1	364
146	Diffusion of Slightly Buoyant Droplets in Isotropic Turbulence. , 2006, , 177.		0
147	On the spatial distribution and nearest neighbor distance between particles in the water column determined from in situ holographic measurements. Journal of Plankton Research, 2006, 28, 149-170.	0.8	52
148	A comparison of PIV measurements of canopy turbulence performed in the field and in a wind tunnel model. Experiments in Fluids, 2006, 41, 309-318.	1.1	31
149	Instantaneous pressure and material acceleration measurements using a four-exposure PIV system. Experiments in Fluids, 2006, 41, 227-240.	1.1	229
150	Capillary Dynamics of Elastic-Wave-Enhanced Two-Phase Flow in Porous Media. AIP Conference Proceedings, 2006, , .	0.3	2
151	The Effect of Inlet Guide Vanes Wake Impingement on the Flow Structure and Turbulence Around a Rotor Blade. Journal of Turbomachinery, 2006, 128, 82-95.	0.9	40
152	3D Measurements of the Mean Velocity and Turbulence Structure Within the Near Wake of a Rotor Blade. , 2005, , 1289.		1
153	The Effect of IGV Wake Impingement on the Flow Structure and Turbulence Around a Rotor Blade. , 2005, , 1397.		1
154	On the Structure of Turbulence in the Bottom Boundary Layer of the Coastal Ocean. Journal of Physical Oceanography, 2005, 35, 72-93.	0.7	74
155	Implication of Mismatch Between Stress and Strain-Rate in Turbulence Subjected to Rapid Straining and Destraining on Dynamic LES Models. Journal of Fluids Engineering, Transactions of the ASME, 2005, 127, 840-850.	0.8	20
156	Decomposition of the spatially filtered and ensemble averaged kinetic energy, the associated fluxes and scaling trends in a rotor wake. Physics of Fluids, 2005, 17, 085102.	1.6	22
157	Diesel Droplet Diffusion in Isotropic Turbulence With Digital Holographic Cinematography. , 2005, , 453.		0
158	Elimination of peak-locking error in PIV analysis using the correlation mapping method. Measurement Science and Technology, 2005, 16, 1605-1618.	1.4	57
159	On the Energy Flux between Large, Small, Mean and Fluctuating Parts of the Flow in a Turbomachinery Rotor Wake. , 2005, , .		0
160	Single-Pulse Performance of the SparkJet Flow Control Actuator. , 2005, , .		26
161	A Correlation Mapping Method to Eliminate the Peak-Locking Effect in PIV Analysis. , 2004, , 325.		0
162	Automated scanning and measurements of particle distributions within a holographic reconstructed volume. Measurement Science and Technology, 2004, 15, 601-612.	1.4	56

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163	PIV MEASUREMENTS IN THE BOTTOM BOUNDARY LAYER OF THE COASTAL OCEAN. Series on Quality, Reliability and Engineering Statistics, 2004, , 51-79.	0.2	3
164	The structure of a jet in cross flow at low velocity ratios. Physics of Fluids, 2004, 16, 2067-2087.	1.6	74
165	3D Structure of a Rotor Wake at Mid-span and Tip Regions. , 2004, , .		3
166	A method for measuring the density of irregularly shaped biological aerosols such as pollen. Journal of Aerosol Science, 2004, 35, 1369-1384.	1.8	37
167	Measurements of Pressure Distribution in a Cavity Flow by Integrating the Material Acceleration. , 2004, , 621.		3
168	Rotor Boundary Layer Response to an Impinging Wake. , 2004, , .		2
169	Study of Scale-Interactions in Strained and Destrained Turbulence. , 2004, , .		1
170	Single beam two-views holographic particle image velocimetry. Applied Optics, 2003, 42, 235.	2.1	95
171	The three-dimensional flow field generated by a feeding calanoid copepod measured using digital holography. Journal of Experimental Biology, 2003, 206, 3657-3666.	0.8	123
172	Average Passage Flow Field and Deterministic Stresses in the Tip and Hub Regions of a Multistage Turbomachine. Journal of Turbomachinery, 2003, 125, 714-725.	0.9	32
173	Average Passage Flow Field and Deterministic Stresses in the Tip and Hub Regions of a Multi-Stage Turbomachine. , 2003, , 975.		0
174	Prevention of Nozzle Wear in Abrasive Water Suspension Jets (AWSJ) Using Porous Lubricated Nozzles. Journal of Tribology, 2003, 125, 168-180.	1.0	17
175	Experimental Study of the Structure of a Rotor Wake in a Complex Turbomachinery Flow. , 2003, , 1007.		6
176	On the Flow and Turbulence Within the Wake and Boundary Layer of a Rotor Blade Located Downstream of an IGV. , 2003, , 505.		3
177	Experimental Investigation of Unsteady Flow Field Within a Two Stage Axial Turbomachine Using Particle Image Velocimetry. , 2002, , 1201.		1
178	Flow Structure, Pressure Fluctuations and Resulting Vibrations Caused by the Interaction of a Turbulent Jet With Cross Flow Over a Flexible Flat Plate. , 2002, , 1191.		1
179	Flow Non-Uniformities and Turbulent "Hot Spots" Due to Wake-Blade and Wake-Wake Interactions in a Multistage Turbomachine. , 2002, , 1215.		2
180	Effect of Gap Size on Tip Leakage Cavitation Inception, Associated Noise and Flow Structure. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 994-1004.	0.8	34

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181	Mean rise rate of droplets in isotropic turbulence. <i>Physics of Fluids</i> , 2002, 14, 3059-3073.	1.6	52
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