

Andrea Sciacchitano

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,728
citations

471509

17
h-index

289244

40
g-index

70
all docs

70
docs citations

70
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	PIV uncertainty propagation. Measurement Science and Technology, 2016, 27, 084006.	2.6	315
2	PIV uncertainty quantification by image matching. Measurement Science and Technology, 2013, 24, 045302.	2.6	197
3	Collaborative framework for PIV uncertainty quantification: comparative assessment of methods. Measurement Science and Technology, 2015, 26, 074004.	2.6	182
4	Uncertainty quantification in particle image velocimetry. Measurement Science and Technology, 2019, 30, 092001.	2.6	126
5	Multi-frame pyramid correlation for time-resolved PIV. Experiments in Fluids, 2012, 53, 1087-1105.	2.4	97
6	On the use of helium-filled soap bubbles for large-scale tomographic PIV in wind tunnel experiments. Experiments in Fluids, 2015, 56, 1.	2.4	90
7	Collaborative framework for PIV uncertainty quantification: the experimental database. Measurement Science and Technology, 2015, 26, 074003.	2.6	68
8	Elimination of PIV light reflections via a temporal high pass filter. Measurement Science and Technology, 2014, 25, 084009.	2.6	66
9	Robotic volumetric PIV of a full-scale cyclist. Experiments in Fluids, 2018, 59, 1.	2.4	45
10	Spatio-temporal and modal analysis of unsteady fluctuations in a high-subsonic base flow. Physics of Fluids, 2014, 26, .	4.0	40
11	Navier-Stokes simulations in gappy PIV data. Experiments in Fluids, 2012, 53, 1421-1435.	2.4	30
12	HFSB-seeding for large-scale tomographic PIV in wind tunnels. Experiments in Fluids, 2016, 57, 1.	2.4	29
13	A posteriori uncertainty quantification of PIV-based pressure data. Experiments in Fluids, 2016, 57, 1.	2.4	29
14	Aerodynamic drag of a transiting sphere by large-scale tomographic-PIV. Experiments in Fluids, 2017, 58, 1.	2.4	28
15	Coaxial volumetric velocimetry. Measurement Science and Technology, 2018, 29, 065201.	2.6	28
16	Generation and control of helium-filled soap bubbles for PIV. Experiments in Fluids, 2019, 60, 1.	2.4	28
17	Large-scale volumetric pressure from tomographic PTV with HFSB tracers. Experiments in Fluids, 2016, 57, 1.	2.4	23
18	Aerodynamic drag determination of a full-scale cyclist mannequin from large-scale PTV measurements. Experiments in Fluids, 2019, 60, 1.	2.4	18

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19	On-site cycling drag analysis with the Ring of Fire. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	18
20	Helium-filled soap bubbles tracing fidelity in wall-bounded turbulence. <i>Experiments in Fluids</i> , 2018, 59, 1.	2.4	15
21	Elimination of unsteady background reflections in PIV images by anisotropic diffusion. <i>Measurement Science and Technology</i> , 2019, 30, 035204.	2.6	13
22	Spatial-temporal and modal analysis of propeller induced ground vortices by particle image velocimetry. <i>Physics of Fluids</i> , 2016, 28, .	4.0	12
23	Cyclist Reynolds number effects and drag crisis distribution. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 200, 104143.	3.9	12
24	A novel single-camera approach to large-scale, three-dimensional particle tracking based on glare-point spacing. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	12
25	Roadmap on signal processing for next generation measurement systems. <i>Measurement Science and Technology</i> , 2022, 33, 012002.	2.6	12
26	Propeller and inflow vortex interaction: vortex response and impact on the propeller performance. <i>CEAS Aeronautical Journal</i> , 2016, 7, 419-428.	1.7	11
27	Helium-filled soap bubbles for vortex core velocimetry. <i>Experiments in Fluids</i> , 2017, 58, 1.	2.4	11
28	State observer data assimilation for RANS with time-averaged 3D-PIV data. <i>Computers and Fluids</i> , 2021, 218, 104827.	2.5	10
29	Flow pressure evaluation on generic surfaces by robotic volumetric PTV. <i>Measurement Science and Technology</i> , 2020, 31, 104001.	2.6	10
30	Drag Analysis from PIV Data in Speed Sports. <i>Procedia Engineering</i> , 2016, 147, 50-55.	1.2	9
31	Track benchmarking method for uncertainty quantification of particle tracking velocimetry interpolations. <i>Measurement Science and Technology</i> , 2017, 28, 065302.	2.6	8
32	Peak-locking error reduction by birefringent optical diffusers. <i>Measurement Science and Technology</i> , 2018, 29, 025202.	2.6	8
33	On the universality of Keane & Adrian's valid detection probability in PIV. <i>Measurement Science and Technology</i> , 2019, 30, 035203.	2.6	8
34	Analysis of propeller-induced ground vortices by particle image velocimetry. <i>Journal of Visualization</i> , 2018, 21, 39-55.	1.8	7
35	Drag resolution of a PIV wake rake for transiting models. <i>Experiments in Fluids</i> , 2018, 59, 1.	2.4	7
36	Large-scale volumetric flow visualization of the unsteady wake of a flapping-wing micro air vehicle. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	6

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37	Multi-frame approach for peak-locking error correction and uncertainty quantification in PIV. Measurement Science and Technology, 2021, 32, 054003.	2.6	6
38	An integrated measurement approach for the determination of the aerodynamic loads and structural motion for unsteady airfoils. Journal of Fluids and Structures, 2021, 103, 103293.	3.4	6
39	Benchmark PIV database for the validation of CFD simulations in a transitional cavity flow. International Journal of Heat and Fluid Flow, 2021, 90, 108831.	2.4	6
40	Effect of film cooling on the aerodynamic performance of an airfoil. International Journal of Heat and Fluid Flow, 2017, 66, 108-120.	2.4	5
41	Experimental investigation of the impact of a propeller on a streamwise impinging vortex. Aerospace Science and Technology, 2017, 69, 582-594.	4.8	5
42	Detection of vortical structures in sparse Lagrangian data using coherent-structure colouring. Experiments in Fluids, 2021, 62, 1.	2.4	5
43	The slip velocity of nearly neutrally buoyant tracers for large-scale PIV. Experiments in Fluids, 2021, 62, 1.	2.4	5
44	Dense velocity reconstruction with VIC-based time-segment assimilation. Experiments in Fluids, 2022, 63, .	2.4	5
45	Experimental investigation of propeller induced ground vortex under headwind condition. , 2014, , .		4
46	Aeroacoustic analysis of an airfoil with Gurney flap based on time-resolved particle image velocimetry measurements. Journal of Sound and Vibration, 2018, 422, 490-505.	3.9	4
47	Validation of Multi-Frame PIV Image Interrogation Algorithms in the Spectral Domain. , 2021, , .		4
48	Application of clustering and the Hungarian algorithm to the problem of consistent vortex tracking in incompressible flowfields. Experiments in Fluids, 2021, 62, 1.	2.4	4
49	Aeroelastic Characterization of a Flexible Wing Using Particle Tracking Velocimetry Measurements. AIAA Journal, 0, , 1-11.	2.6	4
50	Some Results on Bobsleigh Aerodynamics. Procedia Engineering, 2016, 147, 92-97.	1.2	3
51	Multi-frame 3D-PTV based on Reynolds decomposition. Measurement Science and Technology, 2020, 31, 084005.	2.6	3
52	Recent advancements towards large-scale flow diagnostics by robotic PIV. Fluid Dynamics Research, 2021, 53, 011401.	1.3	3
53	Aerodynamics Analysis of Speed Skating Helmets: Investigation by CFD Simulations. Applied Sciences (Switzerland), 2021, 11, 3148.	2.5	3
54	On-site drag analysis of drafting cyclists. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 219, 104797.	3.9	3

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55	Wake scaling of actuator discs in different aspect ratios. <i>Renewable Energy</i> , 2022, 183, 866-876.	8.9	3
56	On the combined flow and structural measurements via robotic volumetric PTV. <i>Measurement Science and Technology</i> , 2022, 33, 045201.	2.6	3
57	Baseball Drag Measurements in Free Flight. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1416.	2.5	3
58	Object surface reconstruction from flow tracers. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	2
59	Uncertainty assessment of the Ring of Fire concept for on-site aerodynamic drag evaluation. <i>Measurement Science and Technology</i> , 2021, 32, 044004.	2.6	2
60	Special issue on uncertainty quantification in particle image velocimetry and Lagrangian particle tracking. <i>Measurement Science and Technology</i> , 2022, 33, 010201.	2.6	2
61	Non-intrusive determination of the unsteady surface pressure and aerodynamic loads on a pitching airfoil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1024, 012051.	0.6	2
62	Outlier detection for PIV statistics based on turbulence transport. <i>Experiments in Fluids</i> , 2022, 63, 1.	2.4	2
63	Instantaneous Pressure Measurements from Large-Scale Tomo-PTV with HFSB Tracers past a Surface-Mounted Finite Cylinder. , 2016, , .		1
64	Drafting Effect in Cycling: On-Site Aerodynamic Investigation by the "Ring of Fire"™. <i>Proceedings (mdpi)</i> , 2020, 49, 113.	0.2	1
65	Thrust-Reverser Investigation by Large-Scale 3D PIV. , 2022, , .		1
66	A Quantitative Flow Visualization Technique for On-site Sport Aerodynamics Optimization. <i>Procedia Engineering</i> , 2015, 112, 412-417.	1.2	0
67	The Ring of Fire for in-Field Sport Aerodynamic Investigation. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	0
68	A Novel Approach for Skin Suit Aerodynamic Optimization Using Local Momentum Deficit. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	0
69	Determination of Collar's Triangle of Forces on a Flexible Wing based on Particle Tracking Velocimetry Measurements. , 2021, , .		0
70	The effect of hand posture on swimming efficiency. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	0