

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	Special issue on uncertainty quantification in particle image velocimetry and Lagrangian particle tracking. Measurement Science and Technology, 2022, 33, 010201.	2.6	2
2	Wake scaling of actuator discs in different aspect ratios. Renewable Energy, 2022, 183, 866-876.	8.9	3
3	Roadmap on signal processing for next generation measurement systems. Measurement Science and Technology, 2022, 33, 012002.	2.6	12
4	On the combined flow and structural measurements via robotic volumetric PTV. Measurement Science and Technology, 2022, 33, 045201.	2.6	3
5	Thrust-Reverser Investigation by Large-Scale 3D PIV. , 2022, , .		1
6	Baseball Drag Measurements in Free Flight. Applied Sciences (Switzerland), 2022, 12, 1416.	2.5	3
7	Outlier detection for PIV statistics based on turbulence transport. Experiments in Fluids, 2022, 63, 1.	2.4	2
8	Dense velocity reconstruction with VIC-based time-segment assimilation. Experiments in Fluids, 2022, 63, .	2.4	5
9	Validation of Multi-Frame PIV Image Interrogation Algorithms in the Spectral Domain. , 2021, , .		4
10	Determination of Collarâ€™s Triangle of Forces on a Flexible Wing based on Particle Tracking Velocimetry Measurements. , 2021, , .		0
11	Object surface reconstruction from flow tracers. Experiments in Fluids, 2021, 62, 1.	2.4	2
12	Recent advancements towards large-scale flow diagnostics by robotic PIV. Fluid Dynamics Research, 2021, 53, 011401.	1.3	3
13	Uncertainty assessment of the Ring of Fire concept for on-site aerodynamic drag evaluation. Measurement Science and Technology, 2021, 32, 044004.	2.6	2
14	Multi-î”t approach for peak-locking error correction and uncertainty quantification in PIV. Measurement Science and Technology, 2021, 32, 054003.	2.6	6
15	Detection of vortical structures in sparse Lagrangian data using coherent-structure colouring. Experiments in Fluids, 2021, 62, 1.	2.4	5
16	State observer data assimilation for RANS with time-averaged 3D-PIV data. Computers and Fluids, 2021, 218, 104827.	2.5	10
17	Aerodynamics Analysis of Speed Skating Helmets: Investigation by CFD Simulations. Applied Sciences (Switzerland), 2021, 11, 3148.	2.5	3
18	A novel single-camera approach to large-scale, three-dimensional particle tracking based on glare-point spacing. Experiments in Fluids, 2021, 62, 1.	2.4	12

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19	An integrated measurement approach for the determination of the aerodynamic loads and structural motion for unsteady airfoils. <i>Journal of Fluids and Structures</i> , 2021, 103, 103293.	3.4	6
20	Application of clustering and the Hungarian algorithm to the problem of consistent vortex tracking in incompressible flowfields. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	4
21	The slip velocity of nearly neutrally buoyant tracers for large-scale PIV. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	5
22	Benchmark PIV database for the validation of CFD simulations in a transitional cavity flow. <i>International Journal of Heat and Fluid Flow</i> , 2021, 90, 108831.	2.4	6
23	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
24	On-site drag analysis of drafting cyclists. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 219, 104797.	3.9	3
25	The effect of hand posture on swimming efficiency. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	0
26	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
27	Multi- λ t 3D-PTV based on Reynolds decomposition. <i>Measurement Science and Technology</i> , 2020, 31, 084005.	2.6	3
28	Cyclist Reynolds number effects and drag crisis distribution. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 200, 104143.	3.9	12
29	Drafting Effect in Cycling: On-Site Aerodynamic Investigation by the "Ring of Fire"™. <i>Proceedings (mdpi)</i> , 2020, 49, 113.	0.2	1
30	Flow pressure evaluation on generic surfaces by robotic volumetric PTV. <i>Measurement Science and Technology</i> , 2020, 31, 104001.	2.6	10
31	Elimination of unsteady background reflections in PIV images by anisotropic diffusion. <i>Measurement Science and Technology</i> , 2019, 30, 035204.	2.6	13
32	Aerodynamic drag determination of a full-scale cyclist mannequin from large-scale PTV measurements. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	18
33	On-site cycling drag analysis with the Ring of Fire. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	18
34	Uncertainty quantification in particle image velocimetry. <i>Measurement Science and Technology</i> , 2019, 30, 092001.	2.6	126
35	Generation and control of helium-filled soap bubbles for PIV. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	28
36	On the universality of Keane & Adrian's valid detection probability in PIV. <i>Measurement Science and Technology</i> , 2019, 30, 035203.	2.6	8

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37	Robotic volumetric PIV of a full-scale cyclist. Experiments in Fluids, 2018, 59, 1.	2.4	45
38	Helium-filled soap bubbles tracing fidelity in wall-bounded turbulence. Experiments in Fluids, 2018, 59, 1.	2.4	15
39	Coaxial volumetric velocimetry. Measurement Science and Technology, 2018, 29, 065201.	2.6	28
40	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
41	Peak-locking error reduction by birefringent optical diffusers. Measurement Science and Technology, 2018, 29, 025202.	2.6	8
42	Analysis of propeller-induced ground vortices by particle image velocimetry. Journal of Visualization, 2018, 21, 39-55.	1.8	7
43	The Ring of Fire for in-Field Sport Aerodynamic Investigation. Proceedings (mdpi), 2018, 2, .	0.2	0
44	A Novel Approach for Skin Suit Aerodynamic Optimization Using Local Momentum Deficit. Proceedings (mdpi), 2018, 2, .	0.2	0
45	Drag resolution of a PIV wake rake for transiting models. Experiments in Fluids, 2018, 59, 1.	2.4	7
46	Aerodynamic drag of a transiting sphere by large-scale tomographic-PIV. Experiments in Fluids, 2017, 58, 1.	2.4	28
47	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
48	Track benchmarking method for uncertainty quantification of particle tracking velocimetry interpolations. Measurement Science and Technology, 2017, 28, 065302.	2.6	8
49	Experimental investigation of the impact of a propeller on a streamwise impinging vortex. Aerospace Science and Technology, 2017, 69, 582-594.	4.8	5
50	Helium-filled soap bubbles for vortex core velocimetry. Experiments in Fluids, 2017, 58, 1.	2.4	11
51	Propeller and inflow vortex interaction: vortex response and impact on the propeller performance. CEAS Aeronautical Journal, 2016, 7, 419-428.	1.7	11
52	Spatial-temporal and modal analysis of propeller induced ground vortices by particle image velocimetry. Physics of Fluids, 2016, 28, .	4.0	12
53	Drag Analysis from PIV Data in Speed Sports. Procedia Engineering, 2016, 147, 50-55.	1.2	9
54	Some Results on Bobsleigh Aerodynamics. Procedia Engineering, 2016, 147, 92-97.	1.2	3

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55	PIV uncertainty propagation. Measurement Science and Technology, 2016, 27, 084006.	2.6	315
56	Large-scale volumetric pressure from tomographic PTV with HFSB tracers. Experiments in Fluids, 2016, 57, 1.	2.4	23
57	HFSB-seeding for large-scale tomographic PIV in wind tunnels. Experiments in Fluids, 2016, 57, 1.	2.4	29
58	A posteriori uncertainty quantification of PIV-based pressure data. Experiments in Fluids, 2016, 57, 1.	2.4	29
59	Instantaneous Pressure Measurements from Large-Scale Tomo-PTV with HFSB Tracers past a Surface-Mounted Finite Cylinder. , 2016, , .		1
60	A Quantitative Flow Visualization Technique for On-site Sport Aerodynamics Optimization. Procedia Engineering, 2015, 112, 412-417.	1.2	0
61	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
62	Collaborative framework for PIV uncertainty quantification: the experimental database. Measurement Science and Technology, 2015, 26, 074003.	2.6	68
63	Collaborative framework for PIV uncertainty quantification: comparative assessment of methods. Measurement Science and Technology, 2015, 26, 074004.	2.6	182
64	Spatio-temporal and modal analysis of unsteady fluctuations in a high-subsonic base flow. Physics of Fluids, 2014, 26, .	4.0	40
65	Elimination of PIV light reflections via a temporal high pass filter. Measurement Science and Technology, 2014, 25, 084009.	2.6	66
66	Experimental investigation of propeller induced ground vortex under headwind condition. , 2014, , .		4
67	PIV uncertainty quantification by image matching. Measurement Science and Technology, 2013, 24, 045302.	2.6	197
68	Navier-Stokes simulations in gappy PIV data. Experiments in Fluids, 2012, 53, 1421-1435.	2.4	30
69	Multi-frame pyramid correlation for time-resolved PIV. Experiments in Fluids, 2012, 53, 1087-1105.	2.4	97
70	Aeroelastic Characterization of a Flexible Wing Using Particle Tracking Velocimetry Measurements. AIAA Journal, 0, , 1-11.	2.6	4