

Massimiliano Rossi

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,530
citations

361413

20
h-index

345221

36
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44
all docs

44
docs citations

44
times ranked

1798
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | <i>DefocusTracker&/i>: A Modular Toolbox for Defocusing-based, Single-Camera, 3D Particle Tracking. Journal of Open Research Software, 2021, 9, 22. | 5.9 | 10 |
| 2 | How<i>Euglena gracilis</i> swims: Flow field reconstruction and analysis. Physical Review E, 2021, 103, 023102. | 2.1 | 6 |
| 3 | Defocus particle tracking: a comparison of methods based on model functions, cross-correlation, and neural networks. Measurement Science and Technology, 2021, 32, 094011. | 2.6 | 16 |
| 4 | Flow profiles near receding three-phase contact lines: influence of surfactants. Soft Matter, 2021, 17, 10090-10100. | 2.7 | 2 |
| 5 | Synthetic image generator for defocusing and astigmatic PIV/PTV. Measurement Science and Technology, 2020, 31, 017003. | 2.6 | 14 |
| 6 | General defocusing particle tracking: fundamentals and uncertainty assessment. Experiments in Fluids, 2020, 61, 1. | 2.4 | 33 |
| 7 | A fast and robust algorithm for general defocusing particle tracking. Measurement Science and Technology, 2020, 32, 014001. | 2.6 | 18 |
| 8 | Size-dependent particle migration and trapping in three-dimensional microbubble streaming flows. Physical Review Fluids, 2020, 5, . | 2.5 | 6 |
| 9 | Single-Camera 3D PTV Methods for Evaporation-Driven Liquid Flows in Sessile Droplets. Fluid Mechanics and Its Applications, 2020, , 225-236. | 0.2 | 1 |
| 10 | Interfacial flows in sessile evaporating droplets of mineral water. Physical Review E, 2019, 100, 033103. | 2.1 | 22 |
| 11 | Particle distribution and velocity in electrokinetically induced banding. Microfluidics and Nanofluidics, 2019, 23, 1. | 2.2 | 12 |
| 12 | Solutal Marangoni flow as the cause of ring stains from drying salty colloidal drops. Physical Review Fluids, 2019, 4, . | 2.5 | 50 |
| 13 | Experimental investigation of oscillation modes and streaming of an acoustically actuated bubble in a microchannel. , 2019, , . | | 1 |
| 14 | Clogging in constricted suspension flows. Physical Review E, 2018, 97, 021102. | 2.1 | 55 |
| 15 | Streaming flow by oscillating bubbles: quantitative diagnostics via particle trackingÁvelocimetry. Journal of Fluid Mechanics, 2017, 820, 529-548. | 3.4 | 33 |
| 16 | Kinematics of flagellar swimming in <i>Euglena gracilis</i> : Helical trajectories and flagellar shapes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13085-13090. | 7.1 | 63 |
| 17 | Sensitivity to shear stress of non-encapsulated thermochromic liquid crystal (TLC) particles for microfluidic applications. Microfluidics and Nanofluidics, 2016, 20, 1. | 2.2 | 3 |
| 18 | Surfactant-driven flow transitions in evaporating droplets. Soft Matter, 2016, 12, 1593-1600. | 2.7 | 96 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Three-dimensional streaming flow in confined geometries. <i>Journal of Fluid Mechanics</i> , 2015, 777, 408-429. | 3.4 | 18 |
| 20 | General defocusing particle tracking. <i>Lab on A Chip</i> , 2015, 15, 3556-3560. | 6.0 | 91 |
| 21 | Three-Dimensional Phenomena in Microbubble Acoustic Streaming. <i>Physical Review Applied</i> , 2015, 3, . | 3.8 | 48 |
| 22 | Growth control of sessile microbubbles in PDMS devices. <i>Lab on A Chip</i> , 2015, 15, 4607-4613. | 6.0 | 30 |
| 23 | Simultaneous three-dimensional temperature and velocity field measurements using astigmatic imaging of non-encapsulated thermo-liquid crystal (TLC) particles. <i>Lab on A Chip</i> , 2015, 15, 660-663. | 6.0 | 25 |
| 24 | Collecting cometary dust particles on metal blacks with the COSIMA instrument onboard ROSETTA. <i>Planetary and Space Science</i> , 2014, 103, 309-317. | 1.7 | 28 |
| 25 | Optimization of astigmatic particle tracking velocimeters. <i>Experiments in Fluids</i> , 2014, 55, 1. | 2.4 | 39 |
| 26 | Non-encapsulated thermo-liquid crystals for digital particle tracking thermography/velocimetry in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 445-456. | 2.2 | 21 |
| 27 | Ultrasound-induced acoustophoretic motion of microparticles in three dimensions. <i>Physical Review E</i> , 2013, 88, 023006. | 2.1 | 132 |
| 28 | Formation of a Polymer Surface with a Gradient of Pore Size Using a Microfluidic Chip. <i>Langmuir</i> , 2013, 29, 3797-3804. | 3.5 | 19 |
| 29 | Microfluidic Chip for Generating Gradient Polymer Films for Biological Applications. <i>Procedia Engineering</i> , 2012, 47, 458-461. | 1.2 | 0 |
| 30 | Numerical and experimental characterization of a novel modular passive micromixer. <i>Biomedical Microdevices</i> , 2012, 14, 849-862. | 2.8 | 25 |
| 31 | On the effect of particle image intensity and image preprocessing on the depth of correlation in micro-PIV. <i>Experiments in Fluids</i> , 2012, 52, 1063-1075. | 2.4 | 57 |
| 32 | A comparative analysis of the uncertainty of astigmatism- $\frac{1}{4}$ PTV, stereo- $\frac{1}{4}$ PIV, and $\frac{1}{4}$ PIV. <i>Experiments in Fluids</i> , 2012, 52, 605-615. | 2.4 | 44 |
| 33 | Volumetric reconstruction of the 3D boundary of stream tubes with general topology using tracer particles. <i>Measurement Science and Technology</i> , 2011, 22, 105405. | 2.6 | 12 |
| 34 | On the calibration of astigmatism particle tracking velocimetry for microflows. <i>Measurement Science and Technology</i> , 2011, 22, 015401. | 2.6 | 94 |
| 35 | Optimization of multiplane $\frac{1}{4}$ PIV for wall shear stress and wall topography characterization. <i>Experiments in Fluids</i> , 2010, 48, 211-223. | 2.4 | 13 |
| 36 | Micro-Particle Image Velocimetry ($\frac{1}{4}$ PIV): Recent developments, applications, and guidelines. <i>Lab on A Chip</i> , 2009, 9, 2551. | 6.0 | 313 |

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|----|---|-----|-----------|
| 37 | Tapered microfluidic chip for the study of biochemical and mechanical response at subcellular level of endothelial cells to shear flow. Lab on A Chip, 2009, 9, 1403. | 6.0 | 59 |
| 38 | Time-Resolved PIV Technique for High Temporal Resolution Measurement of Mechanical Prosthetic Aortic Valve Fluid Dynamics. International Journal of Artificial Organs, 2007, 30, 153-162. | 1.4 | 11 |
| 39 | PIV Measurements of Flows in Artificial Heart Valves. , 2007, , 55-72. | | 8 |
| 40 | PIV Application to Fluid Dynamics of Bass Reflex Ports. , 2007, , 259-270. | | 1 |