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## List of Publications of Francesco Picano

### Papers in international journals (peer reviewed)

1. W. Fornari, S. Zade, L. Brandt, F. Picano. *Settling of finite-size particles in turbulence at different volume fractions*. **Acta Meccanica**, 230, 413-430, 2019
2. D. Maggiolo, F. Zanini, F. Picano, A. Trovò, S. Carmignato, M. Guarnieri, *Particle based method and X-ray computed tomography for pore-scale flow characterization in VRFB electrodes* **Energy Storage Materials** 16, 91-96, 2019
3. Dalla Barba F. & F. Picano, *Clustering and entrainment effects on the evaporation of dilute droplets in a turbulent jet* **Physical Review Fluids**, 3, 034304, 2018.
4. M. Niazi Ardekani, L.A. Asmar, F. Picano, L. Brandt. *Numerical study of heat transfer in laminar and turbulent pipe flow with finite-size spherical particles*. **Int. J. Heat and Fluid Flow**, 71, 189-199, 2018
5. P. Costa, F. Picano, L. Brandt & W.P. Breugem. *Effects of the finite particle size in turbulent wall-bounded flows of dense suspensions* **Journal of Fluid Mechanics**, 843:450-478, 2018, (IF:2.821)
6. M. Niazi Ardekani, O. Abouali, F. Picano, L. Brandt. *Heat transfer in laminar Couette flow laden with rigid spherical particles*. **Journal of Fluid Mechanics**, 308-334, 834, 2018, (IF:2.821)
7. W. Fornari, F. Picano, L. Brandt. *The effect of polydispersity in a turbulent channel flow laden with finite-size particles..* **European J. of Mechanics /B Fluids**, 67:54-64 2018, (IF:1.969)
8. I. Lashgari, F. Picano, P. Costa, W.-P. Breugem, L. Brandt. *Turbulent channel flow of dense binary mixture of rigid particles* **Journal of Fluid Mechanics**, 818:623-645 2017, (IF:2.821)
9. M. Niazi Ardekani, P. Costa, W.-P. Breugem, F. Picano, L. Brandt. *Drag reduction in turbulent channel flow laden with finite-size oblate spheroids*. **Journal of Fluid Mechanics**, 816:43-70 2017, (IF:2.821)
10. P. Costa, F. Picano, L. Brandt & W.P. Breugem. *Universal scaling laws for dense particle suspensions in turbulent wall- bounded flows* **Physical Review Letters**, 117, 134501, 2016 (IF:7.728)
11. W. Fornari, F. Picano, G. Sardina, L. Brandt. *Reduced particle settling speed in turbulence..* **Journal of Fluid Mechanics**, 808:153-167 2016, (IF:2.294)
12. D. Maggiolo, F. Picano, M. Guarnieri, *Flow and dispersion in anisotropic porous media: A lattice-boltzmann study*. **Physics of Fluids** 28, 102001, 2016 (IF:2.040)
13. I. Lashgari, F. Picano, W.-P. Breugem, L. Brandt. *Channel flow of rigid sphere suspensions: Particle dynamics in the inertial regime*. **Int. Journal of Multiphase Flow**, 78, 12-24, 2016 (IF:2.061)
14. W. Fornari, F. Picano, L. Brandt. *Sedimentation of finite-size spheres in quiescent and turbulent environments*. **Journal of Fluid Mechanics**, 788:640-669 2016, (IF:2.294)
15. W. Fornari, A. Formenti, F. Picano, L. Brandt. *The effect of particle density in turbulent channel flow laden with finite size particles in semi-dilute conditions*. **Physics of Fluids** 28, 033301, 2016 (IF:2.040)
16. W. Fornari, L. Brandt, Chaudhuri P., Lopez C.U., D. Mitra, F. Picano. *C Rheology of confined non-Brownian suspensions* **Physical Review Letters** 116: 018301, 2016 (IF:7.728)
17. G. Sardina, F. Picano, L. Brandt and R. Caballero. *Continuous Growth of Droplet Size Variance due to Condensation in Turbulent Clouds*, **Physical Review Letters** 115: 184501, 2015 (IF:7.728)
18. P. Gualtieri, F. Picano, G. Sardina and C.M. Casciola. *Exact regularized point particle method for multi-phase flows in the two-way coupling regime*. **Journal of Fluid Mechanics** 773:520-561 2015 (IF:2.294)
19. F. Picano, W.P. Breugem, L. Brandt. *Turbulent channel flow of dense suspensions of neutrally-buoyant spheres*. **Journal of Fluid Mechanics**, 764:463-487 2015, (IF:2.294) selected for an extended review "Life and death by boundary conditions" by Prof. Prosperetti, Focus on Fluids, JFM2015
20. G. Rocco, F. Battista, F. Picano, G. Troiani, C.M. Casciola. *Curvature effects in turbulent premixed*

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- flames of H<sub>2</sub>/Air: a DNS study with reduced chemistry.* **Flow, Turbulence and Combustion** 94(2):359-379, 2015 (IF:1.508)
21. I. Lashgari, F. Picano, L. Brandt. *Transition and self-sustained turbulence in dilute suspensions of finite-size particles.* **Theoretical and Applied Mechanics Letters**, 5, 2015
  22. Matthaus U. Babler, Luca Biferale, Luca Brandt, Ulrike Feudel, Ksenia Guseva, Alessandra S. Lanotte, Cristian Marchioli, Francesco Picano, Gaetano Sardina, Alfredo Soldati and Federico Toschi, *Numerical simulations of aggregate breakup in bounded and unbounded turbulent flows.* **Journal of Fluid Mechanics**, 766:104-128 2015, (IF:2.294)
  23. I. Lashgari, F. Picano, W.-P. Breugem, L. Brandt. *Transition to turbulence in the presence of finite size particles.* **Procedia IUTAM**, 14, 211-217, 2015
  24. F. Battista, G. Troiani, F. Picano, *Fractal scaling of turbulent premixed flame fronts: Application to LES,* **International Journal of Heat and Fluid Flow**, 51, 78-87, 2015 (IF:1.777)
  25. I. Lashgari, F. Picano, W.P. Breugem, L. Brandt. *Laminar, turbulent, and inertial shear-thickening regimes in channel flow of neutrally buoyant particle suspensions.* **Physical Review Letters**, 113, 254502, 2014 (IF:7.728)
  26. S. Olivieri, F. Picano, G. Sardina, D. Iudicone, L. Brandt, *The effect of the Basset history force on particle clustering in homogeneous and isotropic turbulence.* **Physics of Fluids** 26, 041704, 2014 (IF:2.040)
  27. F. Battista, F. Picano, C.M. Casciola. *Turbulent mixing of a slightly supercritical Van der Waals fluid at Low-Mach number.* **Physics of Fluids** 26, 055101, 2014 (IF:2.040)
  28. G. Sardina, F. Picano, P. Schlatter, L. Brandt and C.M. Casciola. *Statistics of particle accumulation in spatially developing turbulent boundary layers.* **Flow, Turbulence and Combustion**. 92(1-2):27-40, 2014 (IF:1.508)
  29. F. Picano, W.-P. Breugem, D. Mitra and L. Brandt. *Shear-thickening in Non-Brownian suspensions: an excluded volume effect,* **Physical Review Letters** 111:098302, 2013 (IF:7.728)
  30. G. Troiani, F. Battista and F. Picano. *Measurements of local turbulent consumption speed in an air-methane Bunsen jet.* **Combustion and Flame** 160:2029-2037, 2013 (IF:3.708)
  31. R.A. Lambert, F. Picano, W.-P. Breugem and L. Brandt. *Nutrient uptake and Swimming particle motion in an active suspension.* **Journal of Fluid Mechanics** 733:528-557, 2013 (IF:2.294)
  32. A. Nowbahar, G. Sardina, F. Picano and L. Brandt. *Turbophoresis attenuation in a turbulent channel flow with polymer additives.* **Journal of Fluid Mechanics** 732:706-719, 2013 (IF:2.294)
  33. P. Gualtieri, F. Picano, G. Sardina and C.M. Casciola. *Clustering and turbulence modulation in particle-laden shear flows.* **Journal of Fluid Mechanics** 715:134-162, 2013 (IF:2.294)
  34. F. Magaletti, F. Picano, M. Chinappi, L. Marino and C.M. Casciola. *The sharp interface limit of the Cahn-Hilliard/Navier-Stokes model for binary fluids.* **Journal of Fluid Mechanics** 714:95-126, 2013 (IF:2.294)
  35. F. Picano and K. Hanjalic. *Leray- $\alpha$  regularization of the Smagorinsky-closed filtered equations for turbulent jets at high Reynolds numbers.* **Flow, Turbulence and Combustion** 89(4):627-650, 2012 (IF:1.508)
  36. G. Sardina, P. Schlatter, F. Picano, C.M. Casciola, L. Brandt and D.S. Hennigson. *Self-similar transport of inertial particles in a turbulent boundary layer.* **Journal of Fluid Mechanics** 706:584-596, 2012 (IF:2.294)
  37. G. Sardina, P. Schlatter, L. Brandt, F. Picano and C.M. Casciola. *Wall accumulation and spatial localization in particle-laden wall flows.* **Journal of Fluid Mechanics** 699:50-78, 2012 (IF:2.294)
  38. P. Gualtieri, F. Picano, G. Sardina, C.M. Casciola. *Statistics of particle pair relative velocity in the homogeneous shear flow,* **Physica D**, 241:245-250, 2012 (IF:1.829)
  39. F. Battista, F. Picano, G. Troiani and C.M. Casciola. *Intermittent features of inertial particle distribution in turbulent premixed flames,* **Physics of Fluids**, 23(12):123304, 2011 (IF:2.040)
  40. G. Sardina, F. Picano, P. Schlatter, L. Brandt and C.M. Casciola. *Large scale accumulation patterns of inertial particles in wall-bounded turbulent flow,* **Flow, Turbulence and Combustion**,
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41. F. Picano, F. Battista, G. Troiani, and C.M. Casciola. *Dynamics of PIV seeding particles in turbulent premixed flames*, **Experiments in Fluids**, 50:75-88, 2011 (1.907)
42. C.M. Casciola, P. Gualtieri, F. Picano, G. Sardina and G. Troiani. *Dynamics of inertial particles in free jets*, **Physica Scripta**, T142: 014001, 2010 (IF:1.296)
43. F. Picano, G. Sardina, P. Gualtieri and C.M. Casciola. *Anomalous memory effects in the transport of inertial particles in turbulent jets*, **Physics of Fluids**, 22(5):051705, 2010 (IF:2.040)
44. F. Picano, G. Sardina and C.M. Casciola. *Spatial development of particle-laden turbulent pipe flow*, **Physics of Fluids**, 21(9):093305, 2009 (IF:2.040)
45. P. Gualtieri, F. Picano and C.M. Casciola. *Anisotropic clustering of inertial particles in homogeneous shear flow*. **Journal of Fluid Mechanics**, 629:25–39, 2009, (IF:2.294)
46. F. Picano and C.M. Casciola. *Small scale isotropy and universality of axisymmetric jets*. **Physics of Fluids**, 19(11):118106, 2007 (IF:2.040)

**Conference Proceedings collected in contributed books** (selected, peer reviewed)

47. Sardina, G., Picano, F., Brandt, L & Caballero, R. *Direct and large eddy simulations of droplet condensation in turbulent warm clouds* **ERCOFTAC SERIES 24**, 475-481, 2018
48. Brandt L. Ardekani M.N., Picano F., Costa P., W.P. Breugem, L. Brandt *Numerical study of turbulent channel flow laden with finite-size non-spherical particles*. 10th International Symposium on Turbulence and Shear Flow Phenomena, **TSFP 2017**, Volume 4, 2017
49. F. Picano, P. Costa, W.P. Breugem, L. Brandt *Turbulence modulation by dense suspensions in channel flows*. 10th International Symposium on Turbulence and Shear Flow Phenomena, **TSFP 2017**, Volume 4, 2017
50. Dalla Barba F & F. Picano, *DNS of the evaporation of acetone droplets in a saturated turbulent jet spray*. 10th International Symposium on Turbulence and Shear Flow Phenomena, **TSFP 2017**, Volume 4, 2017.
51. Brandt L, Picano F. Breugem W.P. *Turbulent flow of a suspension of rigid spherical particles in plane channels* **Springer Proceedings in Physics** 165,311-315, 2016.
52. Battista, F., Picano, F., Troiani, G., Casciola, C.M. *Direct numerical simulation of hydrogen-carbon monoxide turbulent premixed flame* **ERCOFTAC SERIES 20**, 541-546, 2015
53. F. Picano, G. Sardina, P. Gualtieri and C.M. Casciola. *Turbulent flow of a suspension of rigid spherical particles in plane channels*. In **Progress in Turbulence and wind energy VI, iTi 2014**, 2014
54. F. Picano, G. Sardina, P. Gualtieri and C.M. Casciola. *Transport of inertial particles in turbulent jets*. In **Progress in Turbulence and wind energy IV**, Springer 2012
55. F. Battista, F. Picano, G. Troiani and C. M. Casciola. *Inertial particles in a turbulent Bunsen flame*. In **Progress in Turbulence and wind energy IV**, Springer 2012
56. F. Picano, G. Sardina, P. Gualtieri and C.M. Casciola. *Particle-laden jets: particle distribution and back-reaction on the flow* **J. Phys.: Conf. Ser.** 318:052018, (DOI:10.1088/1742-6596/318/5/052018), 2011
57. F. Battista, F. Picano, G. Troiani and C.M. Casciola. *Transport of inertial particles in a turbulent premixed jet flame* **J. Phys.: Conf. Ser.** 318:092008, doi:10.1088/1742-6596/318/9/092008, 2011
58. F. Battista, M. Froio, F. Picano and C.M. Casciola. *Bubble-Turbulence Interaction in Binary Fluids* **J. Phys.: Conf. Ser.** 318:092011, doi:10.1088/1742-6596/318/9/092011, 2011
59. P. Gualtieri, F. Picano, G. Sardina and C.M. Casciola. *Clustering and turbulence modulation in particle laden shear flows* **J. Phys.: Conf. Ser.** 333:012007, [doi:10.1088/1742-6596/333/1/012007](https://doi.org/10.1088/1742-6596/333/1/012007), 2011
60. F. Battista, F. Picano, G. Troiani and C.M. Casciola. *Particle clustering in turbulent premixed flames* **J. Phys.: Conf. Ser.** 333:012002, doi:10.1088/1742-6596/333/1/012002, 2011
61. P. Gualtieri, F. Picano, G. Sardina and C.M. Casciola. *The effects of back-reaction on turbulence modulation in shear flows: a new exact regularized point-particle method* **J. Phys.: Conf. Ser.**

62. F. Battista, F. Picano, G. Troiani, and C.M. Casciola. *DNS of a variable density jet in the supercritical thermodynamic state*. In **Proceedings of Direct and Large-Eddy Simulation VIII, Eindhoven 6-9/07/2010, Springer 2011**
63. G. Sardina, F. Picano, G. Gualtieri and C.M. Casciola. *Development of a Particle-Laden Pipe Flow: Implications for Evaporation*. In **Proceedings of Direct and Large-Eddy Simulation VIII, Eindhoven 6-9/07/2010, Springer 2011**
64. F. Picano, G. Sardina, G. Gualtieri and C.M. Casciola. *DNS of a Free Turbulent Jet Laden with Small Inertial Particles*. In **Proceedings of Direct and Large-Eddy Simulation VIII, Eindhoven 6-9/07/2010, Springer 2011**
65. F. Picano, C. M. Casciola, and K. Hanjalic. *Scrutinizing the Leray-alpha regularization for LES in turbulent axisymmetric free jets*. In **Proceedings of Direct and Large-Eddy Simulation VII**. Springer, ISBN: 978-90-481-3651-3, 2010.
66. G. Sardina, F. Picano, and C.M. Casciola. *Spatial evolution of inertial particles in turbulent pipe flow*. In **Progress in Turbulence III**. Springer, ISBN: 978-3-642-02224-1, 2010
67. P. Gualtieri, F. Picano, and C. M. Casciola. *Anisotropic clustering of inertial particles in shear turbulence*. In **Progress in Turbulence III**. Springer, ISBN: 978-3-642-02224-1, 2010
68. F. Battista, F. Picano, G. Troiani, and C.M. Casciola. *Effects of particle inertia on PIV measurements of turbulent premixed flames*. In **Turbulence, Heat and Mass Transfer 6**. Proceedings of 6th Symposium on Turbulence, Heat and Mass Transfer, Rome 14-17/9/2009, Begell House Inc., New York, Wallingford (UK), ISBN 978-1-56700-262-1, 2009
69. G. Sardina, P. Schlatter, L. Brandt, F. Picano, and C.M. Casciola. *Large scale accumulation patterns of inertial particles in wall-bounded turbulent flow*. In **Turbulence, Heat and Mass Transfer 6**. Proceedings of 6th Symposium on Turbulence, Heat and Mass Transfer, Rome 14-17/9/2009, Begell House Inc., New York, Wallingford (UK), ISBN 978-1-56700-262-1, 2009
70. C.M. Casciola, P. Gualtieri, F. Picano, and G. Sardina. *Clustering of inertial particles in shear flows*. In **Proceedings of Euromech Colloquium 512: Small scales turbulence and related gradients statistics**. Accademia delle Scienze, Torino, ISBN: 88-901608-4-5, 2009
71. F. Picano, G. Sardina, and C.M. Casciola. *Inertial particles in a turbulent pipe flow: spatial evolution*. In **Advances in Turbulence XII**. Proceedings of the 12th EUROMECH European Turbulence Conference, Marburg 7-10/9/2009, Springer, ISBN: 978-3-642-03084-0, 2009
72. G. Troiani, F. Picano, and C.M. Casciola. *Turbulent premixed flame fronts: fractal scaling and implications for LES modeling*. In **Advances in Turbulence XII**. Proceedings of the 12th EUROMECH European Turbulence Conference, Marburg 7-10/9/2009, Springer, ISBN: 978-3-642-03084-0, 2009
73. P. Gualtieri, F. Picano, G. Sardina, and C.M. Casciola. *Anisotropic clustering and particle velocity statistics in shear turbulence*. In **Advances in Turbulence XII**. Proceedings of the 12th EUROMECH European Turbulence Conference, Marburg 7-10/9/2009, Springer, ISBN: 978-3-642-03084-0, 2009

#### **Proceedings or abstracts of International Conferences**

74. Maggiolo, D - Picano, F - Toschi, F - Guarnieri, M. *Lattice-Boltzmann Simulations Of Two-Phase Flows In Fuel Cell Gas Diffusion Layers* **European Fluid Mechanics Conference 11**, Seville, 12-16/09/2016
75. P. Costa, F. Picano, L. Brandt & W.P. Breugem. *Scaling Laws For Turbulent Channel Transport Of Neutrally-Buoyant Finite-Size Particles*. **European Fluid Mechanics Conference 11**, Seville, 12-16/09/2016
76. Brandt, L., Niazi Ardekani, M., Abouali, O., - Picano, f. *Direct Numerical Simulation (Dns) Of Heat Transfer In Particulate Couette Flow* , **European Fluid Mechanics Conference 11**, Seville, 12-16/09/2016
77. F. Picano, W. Fornari, I. Lashgari, P. Costa, W.-P. Breugem, L. Brandt *Turbulent channel flow with suspended poly-disperse finite-size neutrally buoyant spheres* , **European Fluid Mechanics**

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**Conference 11**, Seville, 12-16/09/2016

78. Fornari W., S. Zade, Picano F., L. Brandt *Turbulence in the presence of sedimenting spheres* **European Fluid Mechanics Conference 11**, Seville, 12-16/09/2016
79. W. Fornari, F. Picano, G. Sardina, L. Brandt. *The effects of fluid and particle inertia on the settling of large and small particles in turbulent environments*, **European Fluid Mechanics Conference 11**, Seville, 12-16/09/2016
80. D. Maggiolo, F. Picano, M. Guarnieri, *A Lattice-Boltzmann Model of mass transport in the diffusion layers of Vanadium Redox Flow Batteries*, 228th Meeting ECS, Phoenix, AZ, Oct. 11-16, 2015.
81. D. Maggiolo, F. Picano, A. Marion, M. Guarneri, *Application of the Lattice-Boltzmann Method for Modeling All-Vanadium Redox Flow Batteries*, **Proc. IV International Conference on Particle-based Methods – Fundamentals and Applications - Particle 2015**, pp. 579-589, Barcelona, Spain, Sept. 28-30, 2015.
82. F. Picano, D. Maggiolo, A. Marion, M. Guarneri *Dispersion properties in porous media: application to Redox Flow Battery electrodes*. Boston US **APS-DFD 68th Conference**, 22-24/11/2015
83. Fornari W., Picano F., L. Brandt *Sedimentation of finite-size particles in quiescent and turbulent environments* Boston US **APS-DFD 68th Conference**, 22-24/11/2015
84. I. Lashgari, F. Picano, L. Brandt *Inertial flow regimes of the suspension of finite size particles*. San Antonio, US **APS March Meeting 2015**, 2-6/3/2015
85. F. Picano, W.-P Breugem, L. Brandt *Turbulent channel flow laden with finite-size neutrally-buoyant particles*. San Francisco, CA, US **APS-DFD 67th Conference**, 23-25/11/2014
86. L. Brandt, I. Lashgari, F. Picano, W.-P Breugem *Laminar-turbulent transition and inertial shear-thickening of particle suspensions*. San Francisco, CA, US **APS-DFD 67th Conference**, 23-25/11/2014
87. I Lashgari, F. Picano W.-P. Breugem, L. Brandt, *Transition to turbulence in the presence of finite size particles*. **IUTAM-ABCM Symposium on Laminar/Turbulence Transition**, Rio de Janeiro 8-12/9/2014.
88. F. Battista, F. Picano, G. Troiani, C.M. Casciola *Numerical Simulation of Syngas Turbulent Premixed Bunsen Flame*. **European Fluid Mechanics Conference 10**, Copenhagen 15-18/9/2014.
89. L. Brandt, I Lashgari, F. Picano W.-P. Breugem *Transition to turbulence in the presence of finite size particles*. **European Fluid Mechanics Conference 10**, Copenhagen 15-18/9/2014.
90. F. Picano, W.-P. Breugem, L. Brandt *Turbulent channel flow laden with finite-size particles at high volume fractions*. **European Fluid Mechanics Conference 10**, Copenhagen 15-18/9/2014.
91. W. Fornari, C. Umberto Lopez, F. Picano, D. Mitra, L. Brandt *Numerical simulations of particle suspensions in confined geometries*. **27th Nordic Seminar on Computational Mechanics** Stockholm 22-24/10/2014.
92. F. Picano, W.-P. Breugem, L. Brandt *Turbulent channel flow laden with finite-size particles at high volume fractions*. **European Fluid Mechanics Conference 10**, Copenhagen 15-18/9/2014.
93. F. Picano, W.-P. Breugem, L. Brandt *Turbulent channel flows of dense particle suspensions*. **Conference on Dynamics of Particles in Flows**, Stockholm 11-13/6/2014.
94. Brandt, L.; Sardina, G.; Picano, F.; Iudicone, D. *The effect of turbulence on the absorption and emission of microorganisms* **17th biennial Ocean Sciences Meeting**, Honolulu, Hawaii, USA 23-28/02/2014
95. F. Picano *"Rheological properties and microstructure in suspensions of ellipsoidal particles"*. **Particles in Turbulence Conference 2013**, Eindhoven 1-5/7/2013.
96. G. Sardina, A. Nowbahar, F. Picano, L. Brandt *Aggregates in dense suspensions at finite Reynolds number*. **European Turbulence Conference 14**, Lyon 1-4/9/2013.
97. G. Troiani, F. Battista, F. Picano, C.M. Casciola *Curvature and velocity strain dependencies of burning speed in a turbulent premixed jet flame*. **European Turbulence Conference 14**, Lyon 1-4/9/2013.
98. F. Battista, F. Picano, G. Troiani, C. M. Casciola *Turbulence-Combustion Interaction in H<sub>2</sub>-CO/Air*

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- Bunsen Flame. European Turbulence Conference 14*, Lyon 1-4/9/2013.
99. F. Picano, W.-P. Breugem, L. Brandt *DNS of turbulent channel flows laden with finite-size particles at high volume fractions. European Turbulence Conference 14*, Lyon 1-4/9/2013.
100. M. Bäbler, L. Biferale, L. Brandt, U. Feudel, K. Guseva, A. Lanotte, C. Marchioli, E. Pecile, F. Picano, Sardina G., A. Soldati, Toschi F *Breakup of small aggregates in bounded and unbounded turbulent flows. European Turbulence Conference 14*, Lyon 1-4/9/2013.
101. F. Battista, F. Picano, G. Troiani, C.M. Casciola, *Direct numerical simulation of Hydrogen/Carbon monoxide turbulent premixed flame. Direct and Large-Eddy Simulation 9*, Dresden 2-5/4/2013.
102. F. Picano, W.P. Breugem and L. Brandt. *Aggregates in dense suspensions at finite Reynolds number. European Fluid Mechanics Conference 9*, Rome 9-13/9/2012.
103. R.A. Lambert, F. Picano, W.P. Breugem, and L. Brandt. *Mass flux and particle motion in an active suspension. European Fluid Mechanics Conference 9*, Rome 9-13/9/2012.
104. P. Gualtieri, F. Picano, G. Sardina and C.M. Casciola. *Exact regularized point particle method for particle-laden flows in the two-way coupling regime. European Fluid Mechanics Conference 9*, Rome 9-13/9/2012.
105. F. Magaletti, F. Picano, M. Chinappi, L. Marino and C.M. Casciola. *Fast time relaxation and dissipation in a Cahn-Hilliard binary fluid system. European Fluid Mechanics Conference 9*, Rome 9-13/9/2012.
106. G. Troiani, F. Battista, F. Picano and C.M. Casciola. *Flame surface evolution and flame stretch in a turbulent premixed jet flame. European Fluid Mechanics Conference 9*, Rome 9-13/9/2012.
107. F. Picano, W.P. Breugem and L. Brandt. *Finite Reynolds number effects for dense suspensions in shear flow . ICTAM XXIII*, Beijing 19-24/8/2012.
108. L. Brandt, F. Picano and W.P. Breugem. *Micro-structure in sheared dense suspensions. Particles in complex flows*, 25-28/06/2012 Reykjavic, Iceland.
109. G. Sardina, F. Picano, P. Schlatter, L. Brandt, C.M. Casciola, D.S. Heningson. *Statistics of particle accumulation in spatially developing turbulent boundary layers. Proceedings of Turbulence, Heat and Mass Transfer 7* 24-27/09/2012
110. P. Gualtieri, F. Picano, G. Sardina, C.M. Casciola. *Exact regularized point particle method for particle-laden flows in the two-way coupling regime. Proceedings of Turbulence, Heat and Mass Transfer 7* 24-27/09/2012
111. F. Magaletti, F. Picano, M. Chinappi, L. Marino and C.M. Casciola. *Diffuse interface methods for unsteady binary flows: the role of mobility. 7th Int. Conference on Computational Heat and Mass Transfer*, 18-22/07/2011 Istanbul, Turkey
112. C.M. Casciola, F. Battista, G. Sardina, F. Picano, G. Troiani, P. Gualtieri, R. Piva. *Vorticity Induced Anomalous Effects in Particle Laden Flows. 5th International Conference on Vortex Flows and Vortex Models*, 7-10/11/2010
113. G. Sardina, F. Picano, P. Gualtieri and C.M. Casciola. *Preferential accumulation of inertial particles in turbulent jets. European Fluid Mechanics Conference 2010*, Bad Reichenhall (Germany), 13-16/09/2010
114. F. Battista, F. Picano, G. Troiani and C.M. Casciola. *Turbulent premixed flames with dispersed inertial particles. European Fluid Mechanics Conference 2010*, Bad Reichenhall (Germany), 13-16/09/2010
115. G. Sardina, F. Picano, G. Gualtieri and C.M. Casciola. *Relations between preferential sampling and turbophoresis of inertial particles. In Proceedings of 7th International Conference on Multiphase Flow*, Tampa (FL) USA 30/05-4/06, 2010
116. F. Battista, F. Picano, G. Troiani, and C.M. Casciola. *Inertial particle dynamics in turbulent premixed flames. In Proceedings of 7th International Conference on Multiphase Flow*, Tampa (FL) USA 30/05-4/06/2010
117. C.M. Casciola, P. Gualtieri, F. Picano, G. Sardina, and G. Troiani. *Clustering of inertial*
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