

Stefania Scarsoglio

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

711
citations

516215

16
h-index

580395

25
g-index

48
all docs

48
docs citations

48
times ranked

750
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Transient cerebral hypoperfusion and hypertensive events during atrial fibrillation: a plausible mechanism for cognitive impairment. <i>Scientific Reports</i> , 2016, 6, 28635. | 1.6 | 68 |
| 2 | Climate Dynamics: A Network-Based Approach for the Analysis of Global Precipitation. <i>PLoS ONE</i> , 2013, 8, e71129. | 1.1 | 57 |
| 3 | Cardiovascular deconditioning during long-term spaceflight through multiscale modeling. <i>Npj Microgravity</i> , 2020, 6, 27. | 1.9 | 42 |
| 4 | Higher ventricular rate during atrial fibrillation relates to increased cerebral hypoperfusions and hypertensive events. <i>Scientific Reports</i> , 2019, 9, 3779. | 1.6 | 41 |
| 5 | Impact of atrial fibrillation on the cardiovascular system through a lumped-parameter approach. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 905-920. | 1.6 | 38 |
| 6 | Visibility graph analysis of wall turbulence time-series. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 1-11. | 0.9 | 37 |
| 7 | A review on turbulent and vortical flow analyses via complex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 563, 125476. | 1.2 | 37 |
| 8 | Complex Networks Unveiling Spatial Patterns in Turbulence. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650223. | 0.7 | 31 |
| 9 | From time-series to complex networks: Application to the cerebrovascular flow patterns in atrial fibrillation. <i>Chaos</i> , 2017, 27, 093107. | 1.0 | 24 |
| 10 | Lagrangian network analysis of turbulent mixing. <i>Journal of Fluid Mechanics</i> , 2019, 865, 546-562. | 1.4 | 22 |
| 11 | Alteration of cerebrovascular haemodynamic patterns due to atrial fibrillation: an <i>in silico</i> investigation. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170180. | 1.5 | 21 |
| 12 | Impaired coronary blood flow at higher heart rates during atrial fibrillation: Investigation via multiscale modelling. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 175, 95-102. | 2.6 | 21 |
| 13 | Experimental investigation of vertical turbulent transport of a passive scalar in a boundary layer: Statistics and visibility graph analysis. <i>Physical Review Fluids</i> , 2019, 4, . | 1.0 | 21 |
| 14 | Rate Control Management of Atrial Fibrillation: May a Mathematical Model Suggest an Ideal Heart Rate?. <i>PLoS ONE</i> , 2015, 10, e0119868. | 1.1 | 21 |
| 15 | Fluid dynamics of heart valves during atrial fibrillation: a lumped parameter-based approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1060-1068. | 0.9 | 18 |
| 16 | Increased beat-to-beat variability of cerebral microcirculatory perfusion during atrial fibrillation: a near-infrared spectroscopy study. <i>Europace</i> , 2021, 23, 1219-1226. | 0.7 | 18 |
| 17 | A Computational Study on the Relation between Resting Heart Rate and Atrial Fibrillation Hemodynamics under Exercise. <i>PLoS ONE</i> , 2017, 12, e0169967. | 1.1 | 18 |
| 18 | Spatial pattern formation induced by Gaussian white noise. <i>Mathematical Biosciences</i> , 2011, 229, 174-184. | 0.9 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Spatial characterization of turbulent channel flow via complex networks. <i>Physical Review E</i> , 2018, 98, 013107. | 0.8 | 15 |
| 20 | Large-to-small scale frequency modulation analysis in wall-bounded turbulence via visibility networks. <i>Journal of Fluid Mechanics</i> , 2021, 918, . | 1.4 | 15 |
| 21 | Computational fluid dynamics modelling of left valvular heart diseases during atrial fibrillation. <i>PeerJ</i> , 2016, 4, e2240. | 0.9 | 15 |
| 22 | Spatio-temporal stochastic resonance induces patterns in wetland vegetation dynamics. <i>Ecological Complexity</i> , 2012, 10, 93-101. | 1.4 | 13 |
| 23 | Effects of atrial fibrillation on the arterial fluid dynamics: a modelling perspective. <i>Meccanica</i> , 2018, 53, 3251-3267. | 1.2 | 11 |
| 24 | A computational analysis of atrial fibrillation effects on coronary perfusion across the different myocardial layers. <i>Scientific Reports</i> , 2022, 12, 841. | 1.6 | 9 |
| 25 | Cardiovascular Response to Posture Changes: Multiscale Modeling and in vivo Validation During Head-Up Tilt. <i>Frontiers in Physiology</i> , 2022, 13, 826989. | 1.3 | 9 |
| 26 | An Exploratory Analysis of the Transient and Long-Term Behavior of Small Three-Dimensional Perturbations in the Circular Cylinder Wake. <i>Studies in Applied Mathematics</i> , 2009, 123, 153-173. | 1.1 | 7 |
| 27 | Wall-induced anisotropy effects on turbulent mixing in channel flow: A network-based analysis. <i>Physical Review E</i> , 2020, 102, 043109. | 0.8 | 7 |
| 28 | Exploring wall shear stress spatiotemporal heterogeneity in coronary arteries combining correlation-based analysis and complex networks with computational hemodynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 1209-1222. | 1.0 | 7 |
| 29 | A synthetic perturbative hypothesis for multiscale analysis of convective wake instability. <i>Physics of Fluids</i> , 2006, 18, 054105. | 1.6 | 6 |
| 30 | Role of long waves in the stability of the plane wake. <i>Physical Review E</i> , 2010, 81, 036326. | 0.8 | 6 |
| 31 | Combining 4D Flow MRI and Complex Networks Theory to Characterize the Hemodynamic Heterogeneity in Dilated and Non-dilated Human Ascending Aortas. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2441-2453. | 1.3 | 6 |
| 32 | Spatiotemporal Hemodynamic Complexity in Carotid Arteries: an Integrated Computational Hemodynamics & Complex Networks-Based Approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 67, 1-1. | 2.5 | 5 |
| 33 | The first as a possible measure of the entrainment length in a 2D steady wake. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 1159-1164. | 0.9 | 4 |
| 34 | Resilience, Self-Organization, Complexity and Pattern Formation. , 2014, , 55-84. | | 4 |
| 35 | Network analysis of Reynolds number scaling in wall-bounded Lagrangian mixing. <i>Physical Review Fluids</i> , 2021, 6, . | 1.0 | 4 |
| 36 | Parametric perturbative study of the supercritical cross-flow boundary layer. <i>International Journal of Heat and Fluid Flow</i> , 2015, 52, 64-71. | 1.1 | 3 |

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|----|---|-----|-----------|
| 37 | Testing a Patient-Specific In-Silico Model to Noninvasively Estimate Central Blood Pressure. <i>Cardiovascular Engineering and Technology</i> , 2021, 12, 144-157. | 0.7 | 3 |
| 38 | A Closed-Loop Multiscale Model of the Cardiovascular System: Application to Heart Pacing and Open-Loop Response. <i>IFMBE Proceedings</i> , 2020, , 577-585. | 0.2 | 3 |
| 39 | Approaches to Modelling Ecogeomorphic Systems. , 2014, , 171-209. | | 2 |
| 40 | A review of multiscale 0D–1D computational modeling of coronary circulation with applications to cardiac arrhythmias. <i>Reviews in Cardiovascular Medicine</i> , 2021, 22, 1461. | 0.5 | 2 |
| 41 | Cerebral spatially resolved near-infrared spectroscopy (SRS-NIRS): paving the way for non-invasive assessment of cerebral hemodynamics during atrial fibrillation. <i>Minerva Cardiology and Angiology</i> , 2021, 69, 124-126. | 0.4 | 1 |
| 42 | Different Impact of Heart Rate Variability in the Deep Cerebral and Central Hemodynamics at Rest: An in silico Investigation. <i>Frontiers in Neuroscience</i> , 2021, 15, 600574. | 1.4 | 1 |
| 43 | Collective behaviour of linear perturbation waves observed through the energy density spectrum. <i>Journal of Physics: Conference Series</i> , 2011, 318, 032004. | 0.3 | 0 |
| 44 | Linear generation of multiple time scales by 3D unstable perturbations. <i>Springer Proceedings in Physics</i> , 2009, , 155-158. | 0.1 | 0 |
| 45 | Effects of Atrial Fibrillation on the Coronary Flow at Different Heart Rates: A Computational Approach. , 0, , . | | 0 |
| 46 | To What Extent Does Heart Rate Alter the Cerebral Hemodynamic Patterns During Atrial Fibrillation?. <i>IFMBE Proceedings</i> , 2020, , 108-116. | 0.2 | 0 |
| 47 | 108–f Atrial fibrillation effects on coronary perfusion across the different myocardial layers: a computational analysis. <i>European Heart Journal Supplements</i> , 2021, 23, . | 0.0 | 0 |