

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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Network analysis of Reynolds number scaling in wall-bounded Lagrangian mixing. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	4
13	Cardiovascular deconditioning during long-term spaceflight through multiscale modeling. <i>Npj Microgravity</i> , 2020, 6, 27.	1.9	42
14	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
15	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
16	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
17	To What Extent Does Heart Rate Alter the Cerebral Hemodynamic Patterns During Atrial Fibrillation?. <i>IFMBE Proceedings</i> , 2020, , 108-116.	0.2	0
18	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

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19	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
20	Higher ventricular rate during atrial fibrillation relates to increased cerebral hypoperfusions and hypertensive events. <i>Scientific Reports</i> , 2019, 9, 3779.	1.6	41
21	Lagrangian network analysis of turbulent mixing. <i>Journal of Fluid Mechanics</i> , 2019, 865, 546-562.	1.4	22
22	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
23	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
24	Effects of atrial fibrillation on the arterial fluid dynamics: a modelling perspective. <i>Meccanica</i> , 2018, 53, 3251-3267.	1.2	11
25	Spatial characterization of turbulent channel flow via complex networks. <i>Physical Review E</i> , 2018, 98, 013107.	0.8	15
26	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
27	From time-series to complex networks: Application to the cerebrovascular flow patterns in atrial fibrillation. <i>Chaos</i> , 2017, 27, 093107.	1.0	24
28	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
29	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
30	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
31	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
32	Computational fluid dynamics modelling of left valvular heart diseases during atrial fibrillation. <i>PeerJ</i> , 2016, 4, e2240.	0.9	15
33	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
34	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
35	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
36	Resilience, Self-Organization, Complexity and Pattern Formation. , 2014, , 55-84.		4

#	ARTICLE	IF	CITATIONS
37	Approaches to Modelling Ecogeomorphic Systems. , 2014, , 171-209.		2
38	Climate Dynamics: A Network-Based Approach for the Analysis of Global Precipitation. PLoS ONE, 2013, 8, e71129.	1.1	57
39	Spatio-temporal stochastic resonance induces patterns in wetland vegetation dynamics. Ecological Complexity, 2012, 10, 93-101.	1.4	13
40	Spatial pattern formation induced by Gaussian white noise. Mathematical Biosciences, 2011, 229, 174-184.	0.9	17
41	Collective behaviour of linear perturbation waves observed through the energy density spectrum. Journal of Physics: Conference Series, 2011, 318, 032004.	0.3	0
42	Role of long waves in the stability of the plane wake. Physical Review E, 2010, 81, 036326.	0.8	6
43	The first as a possible measure of the entrainment length in a 2D steady wake. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1159-1164.	0.9	4
44	An Exploratory Analysis of the Transient and Long-Term Behavior of Small Three-Dimensional Perturbations in the Circular Cylinder Wake. Studies in Applied Mathematics, 2009, 123, 153-173.	1.1	7
45	Linear generation of multiple time scales by 3D unstable perturbations. Springer Proceedings in Physics, 2009, , 155-158.	0.1	0
46	A synthetic perturbative hypothesis for multiscale analysis of convective wake instability. Physics of Fluids, 2006, 18, 054105.	1.6	6
47	Effects of Atrial Fibrillation on the Coronary Flow at Different Heart Rates: A Computational Approach. , 0, , .		0