

Angelo Facchini

List of Publications by Year in descending order

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45
papers

1,265
citations

430754

18
h-index

377752

34
g-index

46
all docs

46
docs citations

46
times ranked

1549
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy and material flows of megacities. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5985-5990.	3.3	371
2	Developing a multi-layered indicator set for urban metabolism studies in megacities. Ecological Indicators, 2014, 47, 7-15.	2.6	89
3	Energy as a function of exergy. Energy, 2007, 32, 1158-1162.	4.5	85
4	The energy metabolism of megacities. Applied Energy, 2017, 186, 86-95.	5.1	71
5	Simpler methods do it better: Success of Recurrence Quantification Analysis as a general purpose data analysis tool. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3753-3756.	0.9	58
6	Nonlinear time series analysis of dissolved oxygen in the Orbetello Lagoon (Italy). Ecological Modelling, 2007, 203, 339-348.	1.2	49
7	Integrating urban metabolism and life cycle assessment to analyse urban sustainability. Ecological Indicators, 2020, 112, 106074.	2.6	45
8	Effect of Mental Imagery on the Development of Skilled Motor Actions. Perceptual and Motor Skills, 2007, 105, 803-826.	0.6	44
9	Distributed energy resources: Planning for the future. Nature Energy, 2017, 2, .	19.8	37
10	Comparison of recurrence quantification methods for the analysis of temporal and spatial chaos. Mathematical and Computer Modelling, 2011, 53, 1535-1545.	2.0	33
11	Identifying the dynamics of complex spatio-temporal systems by spatial recurrence properties. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8097-8102.	3.3	29
12	Load forecasting for active distribution networks. , 2011, , .		29
13	Urban Development and Energy Access in Informal Settlements. A Review for Latin America and Africa. Procedia Engineering, 2016, 161, 2093-2099.	1.2	24
14	A Complex Network Approach for the Estimation of the Energy Demand of Electric Mobility. Scientific Reports, 2018, 8, 268.	1.6	24
15	The role of utilities in developing low carbon, electric megacities. Energy Policy, 2017, 106, 122-128.	4.2	23
16	The Electric City as a Solution to Sustainable Urban Development. Journal of Urban Technology, 2018, 25, 3-20.	2.5	21
17	Relating pain intensity of newborns to onset of nonlinear phenomena in cry recordings. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 338, 332-337.	0.9	20
18	Generalized recurrence plots for the analysis of images from spatially distributed systems. Physica D: Nonlinear Phenomena, 2009, 238, 162-169.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Keeping global climate change within 1.5 Å°C through net negative electric cities. <i>Current Opinion in Environmental Sustainability</i> , 2018, 30, 18-25.	3.1	19
20	Aging Cost Optimization for Planning and Management of Energy Storage Systems. <i>Energies</i> , 2017, 10, 1916.	1.6	17
21	(So) Big Data and the transformation of the city. <i>International Journal of Data Science and Analytics</i> , 2021, 11, 311-340.	2.4	15
22	Characterization of chaotic dynamics in the vocalization of <i>Cervus elaphus corsicanus</i> (L). <i>Journal of the Acoustical Society of America</i> , 2003, 114, 3040-3043.	0.5	14
23	Portfolio analysis and geographical allocation of renewable sources: A stochastic approach. <i>Energy Policy</i> , 2019, 125, 154-159.	4.2	14
24	Spatial recurrence strategies reveal different routes to Turing pattern formation in chemical systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4266-4272.	0.9	13
25	Optimal positioning of storage systems in microgrids based on complex networks centrality measures. <i>Scientific Reports</i> , 2018, 8, 16658.	1.6	13
26	A genetic algorithm approach for the identification of microgrids partitioning into distribution networks. , 2017, , .		11
27	A Statistical Approach for Modeling the Aging Effects in Li-Ion Energy Storage Systems. <i>IEEE Access</i> , 2018, 6, 42196-42206.	2.6	11
28	Multifractal fluctuations in the survival probability of an open quantum system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 376, 266-274.	1.2	9
29	Universal fluctuations in tropospheric radar measurements. <i>Europhysics Letters</i> , 2010, 89, 20006.	0.7	9
30	Battery management for energy communitiesâ€™ Economic evaluation of an artificial intelligence-led system. <i>Journal of Cleaner Production</i> , 2021, 314, 128017.	4.6	9
31	Changes to Gate Closure and its impact on wholesale electricity prices: The case of the UK. <i>Energy Policy</i> , 2019, 125, 110-121.	4.2	6
32	FILLING GAPS IN ECOLOGICAL TIME SERIES BY MEANS OF TWIN SURROGATES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 1085-1097.	0.7	5
33	Trends and dynamics of material and energy flows in an urban context: a case study of a city with an emerging economy. <i>Energy, Sustainability and Society</i> , 2021, 11, .	1.7	4
34	Recurrence Methods for the Identification of Morphogenetic Patterns. <i>PLoS ONE</i> , 2013, 8, e73686.	1.1	4
35	A generation-attraction model for renewable energy flows in Italy: A complex network approach. <i>European Physical Journal: Special Topics</i> , 2016, 225, 1913-1927.	1.2	3
36	A Data-driven approach to renewable energy source planning at regional level. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2021, 16, 1064-1075.	1.8	3

#	ARTICLE	IF	CITATIONS
37	Complexity Science for Sustainable Smart Water Grids. Communications in Computer and Information Science, 2017, , 26-41.	0.4	2
38	New energy downstream. Emerging business models and innovative best practices: an economic, institutional, and behavioral focus. Energy Sources, Part B: Economics, Planning and Policy, 2021, 16, 971-975.	1.8	2
39	Complex systems applications to electric mobility and regional intermittent sources planning. , 2021, , 641-664.		1
40	The Urban Metabolism of Lima: Perspectives and Policy Indications for GHG Emission Reductions. Frontiers in Sustainable Cities, 2021, 2, .	1.2	1
41	Low dimensional features of the Hamiltonian Mean Field model. AIP Conference Proceedings, 2008, , .	0.3	0
42	Recurrence indicators for the identification of spatial patterns. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1737-1742.	0.4	0
43	A multi-microgrid aging cost optimisation of battery storage systems in presence of fluctuating renewable energy sources. , 2019, , .		0
44	Experimental evidences for chaotic dynamics in the vocalizations of the humpback whale megaptera novaeangliae. International Journal of Ecodynamics, 2006, 1, 180-188.	0.4	0
45	Recurrence Indicators for the Estimation of Characteristic Size and Frequency of Spatial Patterns. , 2013, , 209-217.		0