Stefano Castruccio

List of Publications by Year
in descending order

42	1,000	17	30
papers	citations	h-index	g-index

471061

454577

42	42	42	1358
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Population exposure to hazardous air quality due to the 2015 fires in Equatorial Asia. Scientific Reports, 2016, 6, 37074.	1.6	151
2	Short-term and long-term health impacts of air pollution reductions from COVID-19 lockdowns in China and Europe: a modelling study. Lancet Planetary Health, The, 2020, 4, e474-e482.	5.1	136
3	Statistical Emulation of Climate Model Projections Based on Precomputed GCM Runs*. Journal of Climate, 2014, 27, 1829-1844.	1.2	90
4	Global space–time models for climate ensembles. Annals of Applied Statistics, 2013, 7, .	0.5	60
5	High-Order Composite Likelihood Inference for Max-Stable Distributions and Processes. Journal of Computational and Graphical Statistics, 2016, 25, 1212-1229.	0.9	58
6	Compressing an Ensemble With Statistical Models: An Algorithm for Global 3D Spatio-Temporal Temperature. Technometrics, 2016, 58, 319-328.	1.3	39
7	High spatial resolution WRF-Chem model over Asia: Physics and chemistry evaluation. Atmospheric Environment, 2021, 244, 118004.	1.9	38
8	Current and Future Estimates of Wind Energy Potential Over Saudi Arabia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6443-6459.	1.2	32
9	Beyond axial symmetry: An improved class of models for global data. Stat, 2014, 3, 48-55.	0.3	28
10	An Evolutionary Spectrum Approach to Incorporate Large-Scale Geographical Descriptors on Global Processes. Journal of the Royal Statistical Society Series C: Applied Statistics, 2017, 66, 329-344.	0.5	27
11	Reducing storage of global wind ensembles with stochastic generators. Annals of Applied Statistics, 2018, 12, .	0.5	24
12	A Non–Gaussian Spatio–Temporal Model for Daily Wind Speeds Based on a Multi–Variate Skew–t Distribution. Journal of Time Series Analysis, 2019, 40, 312-326.	0.7	24
13	Closing the gap between wind energy targets and implementation for emerging countries. Applied Energy, 2020, 269, 115085.	5.1	23
14	Visuanimation in statistics. Stat, 2015, 4, 81-96.	0.3	22
15	Impact of the 2015 wildfires on Malaysian air quality and exposure: a comparative study of observed and modeled data. Environmental Research Letters, 2018, 13, 044023.	2.2	22
16	Principles for statistical inference on big spatio-temporal data from climate models. Statistics and Probability Letters, 2018, 136, 92-96.	0.4	20
17	A temporal model for vertical extrapolation of wind speed and wind energy assessment. Applied Energy, 2021, 301, 117378.	5.1	20
18	Smartphone Continuous Authentication Using Deep Learning Autoencoders. , 2017, , .		19

#	Article	IF	Citations
19	A Scalable Multi-Resolution Spatio-Temporal Model for Brain Activation and Connectivity in Fmri Data. Biometrics, 2018, 74, 823-833.	0.8	18
20	Reproducing Internal Variability with Few Ensemble Runs. Journal of Climate, 2019, 32, 8511-8522.	1.2	18
21	Axially symmetric models for global data: A journey between geostatistics and stochastic generators. Environmetrics, 2019, 30, e2555.	0.6	14
22	A Multivariate Global Spatiotemporal Stochastic Generator for Climate Ensembles. Journal of Agricultural, Biological, and Environmental Statistics, 2019, 24, 464-483.	0.7	13
23	Assessing the spatio-temporal structure of annual and seasonal surface temperature for CMIP5 and reanalysis. Spatial Statistics, 2016, 18, 179-193.	0.9	12
24	A high‐resolution bilevel skew‐t stochastic generator for assessing Saudi Arabia's wind energy resources. Environmetrics, 2020, 31, e2628.	0.6	10
25	A hierarchical bi-resolution spatial skew-t model. Spatial Statistics, 2020, 35, 100398.	0.9	9
26	Forecasting High-Frequency Spatio-Temporal Wind Power with Dimensionally Reduced Echo State Networks. Journal of the Royal Statistical Society Series C: Applied Statistics, 2022, 71, 449-466.	0.5	9
27	Compression of climate simulations with a nonstationary global SpatioTemporal SPDE model. Annals of Applied Statistics, 2020, 14, .	0.5	8
28	A Stochastic Generator of Global Monthly Wind Energy with Tukey g-and-h Autoregressive Processes. Statistica Sinica, 2019, , .	0.2	8
29	Visualizing spatiotemporal models with virtual reality: from fully immersive environments to applications in stereoscopic view. Journal of the Royal Statistical Society Series A: Statistics in Society, 2019, 182, 379-387.	0.6	7
30	Marginally parameterized spatio-temporal models and stepwise maximum likelihood estimation. Computational Statistics and Data Analysis, 2020, 151, 107018.	0.7	6
31	Forecasting ultrafine particle concentrations from satellite and in situ observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1828-1837.	1.2	5
32	Assessing the risk of disruption of wind turbine operations in Saudi Arabia using Bayesian spatial extremes. Extremes, 2021, 24, 267-292.	0.5	5
33	Assessing urban mortality from wildfires with a citizen science network. Air Quality, Atmosphere and Health, 2021, 14, 2015-2027.	1.5	5
34	Assessing the reliability of wind power operations under a changing climate with a non-Gaussian bias correction. Annals of Applied Statistics, 2021, 15, .	0.5	5
35	Approximating the Internal Variability of Bias-Corrected Global Temperature Projections with Spatial Stochastic Generators. Journal of Climate, 2021, , 1-31.	1.2	4
36	Improving Bayesian Local Spatial Models in Large Datasets. Journal of Computational and Graphical Statistics, 2021, 30, 349-359.	0.9	3

#	Article	IF	Citations
37	A stochastic locally diffusive model with neural network‐based deformations for global sea surface temperature. Stat, 2022, 11, e431.	0.3	3
38	Information entropy tradeoffs for efficient uncertainty reduction in estimates of air pollution mortality. Environmental Research, 2022, 212, 113587.	3.7	2
39	A Bayesian Approach to Spatial Prediction With Flexible Variogram Models. Journal of Agricultural, Biological, and Environmental Statistics, 2012, 17, 209-227.	0.7	1
40	Spatial modeling of mid-infrared spectral data with thermal compensation using integrated nested Laplace approximation. Applied Optics, 2021, 60, 8609.	0.9	1
41	Rejoinder to the discussion on A high‐resolution bilevel skew‐t stochastic generator for assessing Saudi Arabia's wind energy resources. Environmetrics, 2020, 31, .	0.6	1
42	Comments on: Comparing and selecting spatial predictors using local criteria. Test, 2015, 24, 31-34.	0.7	0