Samuele Lo Piano

List of Publications by Year
in descending order

27 papers	1,110 citations	471371 17 h-index	526166 27 g-index
27 all docs	27 docs citations	27 times ranked	1140 citing authors

#	Article	IF	Citations
1	Five ways to ensure that models serve society: a manifesto. Nature, 2020, 582, 482-484.	13.7	249
2	The Future of Sensitivity Analysis: An essential discipline for systems modeling and policy support. Environmental Modelling and Software, 2021, 137, 104954.	1.9	209
3	Ethical principles in machine learning and artificial intelligence: cases from the field and possible ways forward. Humanities and Social Sciences Communications, 2020, 7, .	1.3	90
4	Quantitative Storytelling in the Making of a Composite Indicator. Social Indicators Research, 2020, 149, 775-802.	1.4	61
5	Does recyclable separation reduce the cost of municipal waste management in Japan?. Waste Management, 2017, 60, 32-41.	3.7	54
6	Toward an integrated assessment of the performance of photovoltaic power stations for electricity generation. Applied Energy, 2017, 186, 167-174.	5.1	49
7	Pseudocontact shifts in lanthanide complexes with variable crystal field parameters. Coordination Chemistry Reviews, 2011, 255, 2810-2820.	9.5	45
8	Irrigated areas drive irrigation water withdrawals. Nature Communications, 2021, 12, 4525.	5.8	42
9	A chiral probe for the acute phase proteins alpha-1-acid glycoprotein and alpha-1-antitrypsin based on europium luminescence. Dalton Transactions, 2012, 41, 13154.	1.6	40
10	Current Models Underestimate Future Irrigated Areas. Geophysical Research Letters, 2020, 47, e2020GL087360.	1.5	36
11	The delusive accuracy of global irrigation water withdrawal estimates. Nature Communications, 2022, 13, .	5.8	30
12	A holistic framework for the integrated assessment of urban waste management systems. Ecological Indicators, 2018, 94, 24-36.	2.6	24
13	Variance-based sensitivity analysis: The quest for better estimators and designs between explorativity and economy. Reliability Engineering and System Safety, 2021, 206, 107300.	5.1	22
14	A critical perspective on uncertainty appraisal and sensitivity analysis in life cycle assessment. Journal of Industrial Ecology, 2022, 26, 763-781.	2.8	22
15	Development of a municipal solid waste management decision support tool for Naples, Italy. Journal of Cleaner Production, 2017, 161, 1032-1043.	4.6	21
16	A sensitivity analysis of the PAWN sensitivity index. Environmental Modelling and Software, 2020, 127, 104679.	1.9	21
17	Shape-conserving enhancement of vibrational circular dichroism in lanthanide complexes. Chemical Communications, 2012, 48, 11996.	2.2	17
18	Finance, energy and the decoupling: an empirical study. Journal of Evolutionary Economics, 2018, 28, 565-590.	0.8	13

#	Article	IF	Citations
19	Silver as a Constraint for a Large-Scale Development of Solar Photovoltaics? Scenario-Making to the Year 2050 Supported by Expert Engagement and Global Sensitivity Analysis. Frontiers in Energy Research, 2019, 7, .	1.2	13
20	Problematic Quantifications: a Critical Appraisal of Scenario Making for a Global â€˜Sustainableâ€™ Food Production. Food Ethics, 2017, 1, 173-179.	1.2	11
21	Nutrition and public health economic evaluations under the lenses of post normal science. Futures, 2019, 112, 102436.	1.4	11
22	Is VARS more intuitive and efficient than Sobolâ€™ indices?. Environmental Modelling and Software, 2021, 137, 104960.	1.9	11
23	Energy demand and its temporal flexibility: Approaches, criticalities and ways forward. Renewable and Sustainable Energy Reviews, 2022, 160, 112249.	8.2	10
24	China's metabolic patterns and their potential problems. Ecological Modelling, 2015, 318, 75-85.	1.2	4
25	Doing the Sum Right or the Right Sums? Techno-Optimist Numbers in Food Security Scenarios. Frontiers in Sustainable Food Systems, 2018, 2, .	1.8	2
26	Uncertainty appraisal provides useful information for the management of a manual grape harvest. Biosystems Engineering, 2022, 219, 259-267.	1.9	2
27	Improving the reliability of cohesion policy databases. PLoS ONE, 2022, 17, e0266823.	1.1	1