

Matteo Muratori

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61

papers

1,683

citations

22

h-index

40

g-index

68

ext. papers

2,315

ext. citations

10.4

avg, IF

5.74

L-index

#	Paper	IF	Citations
61	The contribution of bioenergy to the decarbonization of transport: a multi-model assessment. <i>Climatic Change</i> , 2022 , 170, 1	4.5	
60	How to support EV adoption: Tradeoffs between charging infrastructure investments and vehicle subsidies in California. <i>Energy Policy</i> , 2022 , 165, 112931	7.2	1
59	Global biomass supply modeling for long-run management of the climate system. <i>Climatic Change</i> , 2022 , 172,	4.5	1
58	Challenges and Opportunities of Integrating Electric Vehicles in Electricity Distribution Systems. <i>Current Sustainable/Renewable Energy Reports</i> , 2022 , 9, 27-40	2.8	1
57	The shape of electrified transportation. <i>Environmental Research Letters</i> , 2021 , 16, 011003	6.2	11
56	The Los Angeles 100% Renewable Energy Study (LA100) 2021 ,		2
55	The rise of electric vehicles 2020 status and future expectations. <i>Progress in Energy</i> , 2021 , 3, 022002	7.7	35
54	Of actors, cities and energy systems: advancing the transformative potential of urban electrification. <i>Progress in Energy</i> , 2021 , 3, 032002	7.7	2
53	Heavy-duty truck electrification and the impacts of depot charging on electricity distribution systems. <i>Nature Energy</i> , 2021 , 6, 673-682	62.3	9
52	Electrification Futures Study: Scenarios of Power System Evolution and Infrastructure Development for the United States 2021 ,		4
51	Ten new insights in climate science 2020 13 horizon scan. <i>Global Sustainability</i> , 2021 , 4,	5.4	7
50	Exploring the future energy-mobility nexus: The transportation energy & mobility pathway options (TEMPO) model. <i>Transportation Research, Part D: Transport and Environment</i> , 2021 , 98, 102967	6.4	2
49	Multicarrier Energy Systems: Shaping Our Energy Future. <i>Proceedings of the IEEE</i> , 2020 , 108, 1437-1456	14.3	20
48	Levelized Cost of Charging Electric Vehicles in the United States. <i>Joule</i> , 2020 , 4, 1470-1485	27.8	26
47	Two trillion gallons: Fuel savings from fuel economy improvements to US light-duty vehicles, 1975-2018. <i>Energy Policy</i> , 2020 , 142, 111517	7.2	9
46	Electrification Futures Study: Methodological Approaches for Assessing Long-Term Power System Impacts of End-Use Electrification 2020 ,		3
45	Future integrated mobility-energy systems: A modeling perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 119, 109541	16.2	15

44	Public charging infrastructure for plug-in electric vehicles: What is it worth?. <i>Transportation Research, Part D: Transport and Environment</i> , 2020 , 78, 102182	6.4	29
43	Implications of climate change mitigation strategies on international bioenergy trade. <i>Climatic Change</i> , 2020 , 163, 1639-1658	4.5	12
42	Flexible grid-based electrolysis hydrogen production for fuel cell vehicles reduces costs and greenhouse gas emissions. <i>Applied Energy</i> , 2020 , 278, 115651	10.7	36
41	High electrification futures: Impacts to the U.S. bulk power system. <i>Electricity Journal</i> , 2020 , 33, 106878	2.6	3
40	EMF-33 insights on bioenergy with carbon capture and storage (BECCS). <i>Climatic Change</i> , 2020 , 163, 1624-1637	4.5	16
39	Bioenergy technologies in long-run climate change mitigation: results from the EMF-33 study. <i>Climatic Change</i> , 2020 , 163, 1603-1620	4.5	15
38	Technology solutions to mitigate electricity cost for electric vehicle DC fast charging. <i>Applied Energy</i> , 2019 , 242, 415-423	10.7	31
37	Electricity rates for electric vehicle direct current fast charging in the United States. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 113, 109235	16.2	26
36	Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models. <i>Energy</i> , 2019 , 172, 1254-1267	7.9	62
35	Renewable Hydrogen-Economically Viable: Integration into the U.S. Transportation Sector. <i>IEEE Electrification Magazine</i> , 2018 , 6, 8-18	2.6	13
34	Impact of uncoordinated plug-in electric vehicle charging on residential power demand. <i>Nature Energy</i> , 2018 , 3, 193-201	62.3	188
33	Quantifying the flexibility of hydrogen production systems to support large-scale renewable energy integration. <i>Journal of Power Sources</i> , 2018 , 399, 383-391	8.9	30
32	Modeling Hydrogen Refueling Infrastructure to Support Passenger Vehicles <i>Energies</i> , 2018 , 11, 1171	3.1	19
31	Exploring Telematics Big Data for Truck Platooning Opportunities 2018 ,		1
30	Global energy sector emission reductions and bioenergy use: overview of the bioenergy demand phase of the EMF-33 model comparison. <i>Climatic Change</i> , 2018 , 163, 1553	4.5	67
29	Cost of power or power of cost: A U.S. modeling perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 861-874	16.2	28
28	Role of the Freight Sector in Future Climate Change Mitigation Scenarios. <i>Environmental Science & Technology</i> , 2017 , 51, 3526-3533	10.3	38
27	Biojet fuels and emissions mitigation in aviation: An integrated assessment modeling analysis. <i>Transportation Research, Part D: Transport and Environment</i> , 2017 , 52, 244-253	6.4	36

26	Carbon capture and storage across fuels and sectors in energy system transformation pathways. <i>International Journal of Greenhouse Gas Control</i> , 2017 , 57, 34-41	4.2	49
25	The Value of CCS under Current Policy Scenarios: NDCs and Beyond. <i>Energy Procedia</i> , 2017 , 114, 7521-7523		4
24	The Future Role of CCS in Electricity and Liquid Fuel Supply. <i>Energy Procedia</i> , 2017 , 114, 7606-7614	2.3	5
23	Potentials for Platooning in U.S. Highway Freight Transport. <i>SAE International Journal of Commercial Vehicles</i> , 2017 , 10, 45-49	1	21
22	Residential Demand Response: Dynamic Energy Management and Time-Varying Electricity Pricing. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1108-1117	7	206
21	Global economic consequences of deploying bioenergy with carbon capture and storage (BECCS). <i>Environmental Research Letters</i> , 2016 , 11, 095004	6.2	76
20	A multi-dimensional well-to-wheels analysis of passenger vehicles in different regions: Primary energy consumption, CO2 emissions, and economic cost. <i>Applied Energy</i> , 2016 , 169, 197-209	10.7	79
19	Big Data issues and opportunities for electric utilities. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 937-947	16.2	38
18	Role of residential demand response in modern electricity markets. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 33, 546-553	16.2	94
17	User-Steered Energy Generation and Consumption Multimodel Simulation for Pricing and Policy Development. <i>Computing in Science and Engineering</i> , 2014 , 16, 22-33	1.5	
16	Highly-resolved modeling of personal transportation energy consumption in the United States. <i>Energy</i> , 2013 , 58, 168-177	7.9	43
15	A highly resolved modeling technique to simulate residential power demand. <i>Applied Energy</i> , 2013 , 107, 465-473	10.7	135
14	Dynamic Energy Management of a Residential Energy Eco-System 2013 ,		4
13	Energy consumption of residential HVAC systems: A simple physically-based model 2012 ,		16
12	A spatially-reduced dynamic model for the thermal characterisation of Li-ion battery cells. <i>International Journal of Vehicle Design</i> , 2012 , 58, 134	2.4	10
11	A Model Order Reduction Method for the Temperature Estimation in a Cylindrical Li-Ion Battery Cell 2010 ,		8
10	A Reduced-Order Model for the Thermal Dynamics of Li-Ion Battery Cells. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 192-197		8
9	Assessing the value of electric vehicle managed charging: a review of methodologies and results. <i>Energy and Environmental Science</i> ,	35.4	4

8	Urban Electrification: Knowledge Pathway Toward an Integrated Research and Development Agenda. <i>SSRN Electronic Journal</i> ,	1	2
7	National Plug-In Electric Vehicle Infrastructure Analysis		3
6	National Plug-In Electric Vehicle Infrastructure Analysis		9
5	Electrification Futures Study: End-Use Electric Technology Cost and Performance Projections through 2050		14
4	Charging Electric Vehicles in Smart Cities: An EVI-Pro Analysis of Columbus, Ohio		8
3	Electrification Futures Study: Scenarios of Electric Technology Adoption and Power Consumption for the United States		38
2	National Hydrogen Scenarios: How Many Stations, Where, and When?		3
1	The Demand-Side Grid (dsgrid) Model Documentation		3