Matteo Muratori

List of Publications by Citations

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	Residential Demand Response: Dynamic Energy Management and Time-Varying Electricity Pricing. *IEEE Transactions on Power Systems*, **2016**, 31, 1108-1117	7	206
60	Impact of uncoordinated plug-in electric vehicle charging on residential power demand. *Nature Energy*, **2018**, 3, 193-201	62.3	188
59	A highly resolved modeling technique to simulate residential power demand. *Applied Energy*, **2013**, 107, 465-473	10.7	135
58	Role of residential demand response in modern electricity markets. *Renewable and Sustainable Energy Reviews*, **2014**, 33, 546-553	16.2	94
57	A multi-dimensional well-to-wheels analysis of passenger vehicles in different regions: Primary energy consumption, CO2 emissions, and economic cost. *Applied Energy*, **2016**, 169, 197-209	10.7	79
56	Global economic consequences of deploying bioenergy with carbon capture and storage (BECCS). *Environmental Research Letters*, **2016**, 11, 095004	6.2	76
55	Global energy sector emission reductions and bioenergy use: overview of the bioenergy demand phase of the EMF-33 model comparison. *Climatic Change*, **2018**, 163, 1553	4.5	67
54	Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models. *Energy*, **2019**, 172, 1254-1267	7.9	62
53	Carbon capture and storage across fuels and sectors in energy system transformation pathways. *International Journal of Greenhouse Gas Control*, **2017**, 57, 34-41	4.2	49
52	Highly-resolved modeling of personal transportation energy consumption in the United States. *Energy*, **2013**, 58, 168-177	7.9	43
51	Role of the Freight Sector in Future Climate Change Mitigation Scenarios. *Environmental Science & Technology*, **2017**, 51, 3526-3533	10.3	38
50	Big Data issues and opportunities for electric utilities. *Renewable and Sustainable Energy Reviews*, **2015**, 52, 937-947	16.2	38
49	Electrification Futures Study: Scenarios of Electric Technology Adoption and Power Consumption for the United States		38
48	Biojet fuels and emissions mitigation in aviation: An integrated assessment modeling analysis. *Transportation Research, Part D: Transport and Environment*, **2017**, 52, 244-253	6.4	36
47	Flexible grid-based electrolysis hydrogen production for fuel cell vehicles reduces costs and greenhouse gas emissions. *Applied Energy*, **2020**, 278, 115651	10.7	36
46	The rise of electric vehicles2020 status and future expectations. *Progress in Energy*, **2021**, 3, 022002	7.7	35
45	Technology solutions to mitigate electricity cost for electric vehicle DC fast charging. *Applied Energy*, **2019**, 242, 415-423	10.7	31

44	Quantifying the flexibility of hydrogen production systems to support large-scale renewable energy integration. *Journal of Power Sources*, **2018**, 399, 383-391	8.9	30
43	Public charging infrastructure for plug-in electric vehicles: What is it worth?. *Transportation Research, Part D: Transport and Environment*, **2020**, 78, 102182	6.4	29
42	Cost of power or power of cost: A U.S. modeling perspective. *Renewable and Sustainable Energy Reviews*, **2017**, 77, 861-874	16.2	28
41	Levelized Cost of Charging Electric Vehicles in the United States. *Joule*, **2020**, 4, 1470-1485	27.8	26
40	Electricity rates for electric vehicle direct current fast charging in the United States. *Renewable and Sustainable Energy Reviews*, **2019**, 113, 109235	16.2	26
39	Potentials for Platooning in U.S. Highway Freight Transport. *SAE International Journal of Commercial Vehicles*, **2017**, 10, 45-49	1	21
38	Multicarrier Energy Systems: Shaping Our Energy Future. *Proceedings of the IEEE*, **2020**, 108, 1437-1456	14.3	20
37	Modeling Hydrogen Refueling Infrastructure to Support Passenger Vehicles *Energies*, **2018**, 11, 1171	3.1	19
36	Energy consumption of residential HVAC systems: A simple physically-based model **2012**,		16
35	EMF-33 insights on bioenergy with carbon capture and storage (BECCS). *Climatic Change*, **2020**, 163, 1621-1637	4.5	16
34	Future integrated mobility-energy systems: A modeling perspective. *Renewable and Sustainable Energy Reviews*, **2020**, 119, 109541	16.2	15
33	Bioenergy technologies in long-run climate change mitigation: results from the EMF-33 study. *Climatic Change*, **2020**, 163, 1603-1620	4.5	15
32	Electrification Futures Study: End-Use Electric Technology Cost and Performance Projections through 2050		14
31	Renewable Hydrogen-Economically Viable: Integration into the U.S. Transportation Sector. *IEEE Electrification Magazine*, **2018**, 6, 8-18	2.6	13
30	Implications of climate change mitigation strategies on international bioenergy trade. *Climatic Change*, **2020**, 163, 1639-1658	4.5	12
29	The shape of electrified transportation. *Environmental Research Letters*, **2021**, 16, 011003	6.2	11
28	A spatially-reduced dynamic model for the thermal characterisation of Li-ion battery cells. *International Journal of Vehicle Design*, **2012**, 58, 134	2.4	10
27	Two trillion gallons: Fuel savings from fuel economy improvements to US light-duty vehicles, 1975–2018. *Energy Policy*, **2020**, 142, 111517	7.2	9

26	National Plug-In Electric Vehicle Infrastructure Analysis		9
25	Heavy-duty truck electrification and the impacts of depot charging on electricity distribution systems. *Nature Energy*, **2021**, 6, 673-682	62.3	9
24	A Model Order Reduction Method for the Temperature Estimation in a Cylindrical Li-Ion Battery Cell **2010**,		8
23	A Reduced-Order Model for the Thermal Dynamics of Li-Ion Battery Cells. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 192-197		8
22	Charging Electric Vehicles in Smart Cities: An EVI-Pro Analysis of Columbus, Ohio		8
21	Ten new insights in climate science 2020 – a horizon scan. *Global Sustainability*, **2021**, 4,	5.4	7
20	The Future Role of CCS in Electricity and Liquid Fuel Supply. *Energy Procedia*, **2017**, 114, 7606-7614	2.3	5
19	The Value of CCS under Current Policy Scenarios: NDCs and Beyond. *Energy Procedia*, **2017**, 114, 7521-7527	2.3	4
18	Dynamic Energy Management of a Residential Energy Eco-System **2013**,		4
17	Assessing the value of electric vehicle managed charging: a review of methodologies and results. *Energy and Environmental Science*,	35.4	4
16	Electrification Futures Study: Scenarios of Power System Evolution and Infrastructure Development for the United States **2021**,		4
15	National Plug-In Electric Vehicle Infrastructure Analysis		3
14	National Hydrogen Scenarios: How Many Stations, Where, and When?		3
13	The Demand-Side Grid (dsgrid) Model Documentation		3
12	Electrification Futures Study: Methodological Approaches for Assessing Long-Term Power System Impacts of End-Use Electrification **2020**,		3
11	High electrification futures: Impacts to the U.S. bulk power system. *Electricity Journal*, **2020**, 33, 106878	2.6	3
10	Urban Electrification: Knowledge Pathway Toward an Integrated Research and Development Agenda. *SSRN Electronic Journal*,	1	2
9	The Los Angeles 100% Renewable Energy Study (LA100) **2021**,		2

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8	Of actors, cities and energy systems: advancing the transformative potential of urban electrification. *Progress in Energy*, **2021**, 3, 032002	7.7	2
7	Exploring the future energy-mobility nexus: The transportation energy & mobility pathway options (TEMPO) model. *Transportation Research, Part D: Transport and Environment*, **2021**, 98, 102967	6.4	2
6	Exploring Telematics Big Data for Truck Platooning Opportunities **2018**,		1
5	How to support EV adoption: Tradeoffs between charging infrastructure investments and vehicle subsidies in California. *Energy Policy*, **2022**, 165, 112931	7.2	1
4	Global biomass supply modeling for long-run management of the climate system. *Climatic Change*, **2022**, 172,	4.5	1
3	Challenges and Opportunities of Integrating Electric Vehicles in Electricity Distribution Systems. *Current Sustainable/Renewable Energy Reports*, **2022**, 9, 27-40	2.8	1
2	User-Steered Energy Generation and Consumption Multimodel Simulation for Pricing and Policy Development. *Computing in Science and Engineering*, **2014**, 16, 22-33	1.5	
1	The contribution of bioenergy to the decarbonization of transport: a multi-model assessment. *Climatic Change*, **2022**, 170, 1	4.5	