Patrick PlÃ¶tz

List of Publications by Year
in descending order

50 papers	2,696 citations	236925 25 h-index	223800 46 g-index
51 all docs	51 docs citations	51 times ranked	1949 citing authors

#	Article	IF	Citations
1	A review of consumer preferences of and interactions with electric vehicle charging infrastructure. Transportation Research, Part D: Transport and Environment, 2018, 62, 508-523.	6.8	393
2	Who will buy electric vehicles? Identifying early adopters in Germany. Transportation Research, Part A: Policy and Practice, 2014, 67, 96-109.	4.2	250
3	Fast charging infrastructure for electric vehicles: Todayâ€™s situation and future needs. Transportation Research, Part D: Transport and Environment, 2018, 62, 314-329.	6.8	223
4	How much charging infrastructure do electric vehicles need? â€˜A review of the evidence and international comparison. Transportation Research, Part D: Transport and Environment, 2019, 77, 224-242.	6.8	162
5	Crafting strong, integrated policy mixes for deep CO2 mitigation in road transport. Nature Climate Change, 2020, 10, 809-818.	18.8	136
6	What drives the market for plug-in electric vehicles? - A review of international PEV market diffusion models. Renewable and Sustainable Energy Reviews, 2018, 93, 158-164.	16.4	113
7	How large is the effect of financial incentives on electric vehicle sales? â€“ A global review and European analysis. Energy Economics, 2019, 84, 104493.	12.1	99
8	Are multi-car households better suited for battery electric vehicles? â€“ Driving patterns and economics in Sweden and Germany. Transportation Research Part C: Emerging Technologies, 2016, 65, 1-15.	7.6	89
9	A review of combined models for market diffusion of alternative fuel vehicles and their refueling infrastructure. Renewable and Sustainable Energy Reviews, 2015, 47, 783-793.	16.4	85
10	On the distribution of individual daily driving distances. Transportation Research Part B: Methodological, 2017, 101, 213-227.	5.9	81
11	Modelling market diffusion of electric vehicles with real world driving data â€” Part I: Model structure and validation. Ecological Economics, 2014, 107, 411-421.	5.7	79
12	Consumer preferences for public charging infrastructure for electric vehicles. Transport Policy, 2019, 81, 54-63.	6.6	75
13	Hydrogen technology is unlikely to play a major role in sustainable road transport. Nature Electronics, 2022, 5, 8-10.	26.0	65
14	Market diffusion of alternative fuels and powertrains in heavy-duty vehicles: A literature review. Energy Reports, 2019, 5, 1010-1024.	5.1	62
15	CO2 Mitigation Potential of Plug-in Hybrid Electric Vehicles larger than expected. Scientific Reports, 2017, 7, 16493.	3.3	61
16	Designing car bans for sustainable transportation. Nature Sustainability, 2019, 2, 534-536.	23.7	60
17	What is the market potential of plug-in electric vehicles as commercial passenger cars? A case study from Germany. Transportation Research, Part D: Transport and Environment, 2015, 37, 171-187.	6.8	56
18	Impact of electric trucks powered by overhead lines on the European electricity system and CO2 emissions. Energy Policy, 2019, 130, 32-40.	8.8	54

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19	Empirical Fuel Consumption and CO₂ Emissions of Plugâ€in Hybrid Electric Vehicles. Journal of Industrial Ecology, 2018, 22, 773-784.	5.5	50
20	Modelling market diffusion of electric vehicles with real world driving data â€“ German market and policy options. Transportation Research, Part A: Policy and Practice, 2015, 77, 95-112.	4.2	49
21	The impact of ambitious fuel economy standards on the market uptake of electric vehicles and specific CO2 emissions. Energy Policy, 2019, 135, 111006.	8.8	42
22	The impact of daily and annual driving on fuel economy and CO2 emissions of plug-in hybrid electric vehicles. Transportation Research, Part A: Policy and Practice, 2018, 118, 331-340.	4.2	39
23	Invest in fast-charging infrastructure or in longer battery ranges? A cost-efficiency comparison for Germany. Applied Energy, 2019, 235, 888-899.	10.1	38
24	From lab-to-road: real-world fuel consumption and CO₂ emissions of plug-in hybrid electric vehicles. Environmental Research Letters, 2021, 16, 054078.	5.2	37
25	Can public slow charging accelerate plug-in electric vehicle sales? A simulation of charging infrastructure usage and its impact on plug-in electric vehicle sales for Germany. International Journal of Sustainable Transportation, 2019, 13, 528-542.	4.1	27
26	Where is the EU headed given its current climate policy? A stakeholder-driven model inter-comparison. Science of the Total Environment, 2021, 793, 148549.	8.0	26
27	Global perspective on CO₂ emissions of electric vehicles. Environmental Research Letters, 2021, 16, 054043.	5.2	22
28	Dimensions of energy efficiency in a political context. Energy Efficiency, 2015, 8, 97-115.	2.8	19
29	Collapse and revival in inter-band oscillations of a two-band Boseâ€“Hubbard model. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 081001.	1.5	18
30	Machine learning estimates of plug-in hybrid electric vehicle utility factors. Transportation Research, Part D: Transport and Environment, 2019, 72, 36-46.	6.8	18
31	Effective spin model for interband transport in a Wannier-Stark lattice system. European Physical Journal D, 2011, 63, 47-53.	1.3	17
32	Can product service systems support electric vehicle adoption?. Transportation Research, Part A: Policy and Practice, 2020, 137, 343-359.	4.2	17
33	Addressing the Different Needs for Charging Infrastructure: An Analysis of Some Criteria for Charging Infrastructure Set-up. Green Energy and Technology, 2015, , 73-90.	0.6	16
34	StÃ¼ckelberg-interferometry with ultra-cold atoms. European Physical Journal D, 2011, 65, 199-205.	1.3	13
35	Synthetic European road freight transport flow data. Data in Brief, 2022, 40, 107786.	1.0	12
36	Detection of avoided crossings by fidelity. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 1363-1369.	2.6	10

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37	Electric Trolley Trucksâ€"A Techno-Economic Assessment for Germany. World Electric Vehicle Journal, 2019, 10, 86.	3.0	10
38	Are Battery-Electric Trucks for 24-Hour Delivery the Future of City Logistics?â€"A German Case Study. World Electric Vehicle Journal, 2020, 11, 16.	3.0	10
39	Empirical charging behavior of plug-in hybrid electric vehicles. Applied Energy, 2022, 321, 119293.	10.1	10
40	Public fast charging infrastructure for battery electric trucksâ€"a model-based network for Germany. Environmental Research: Infrastructure and Sustainability, 2022, 2, 025004.	2.3	9
41	Can policy measures foster plug-in electric vehicle market diffusion?. World Electric Vehicle Journal, 2016, 8, 789-797.	3.0	8
42	A Model for Public Fast Charging Infrastructure Needs. World Electric Vehicle Journal, 2016, 8, 943-954.	3.0	8
43	Market potential for electric vehicles in the German commercial passenger transport sector. , 2013, , .		7
44	A Comparison of Different Means to Increase Daily Range of Electric Vehicles: The Potential of Battery Sizing, Increased Vehicle Efficiency and Charging Infrastructure. , 2014, , .		3
45	Two methods of estimating long-distance driving to understand range restrictions on EV use. Transportation Research, Part D: Transport and Environment, 2019, 74, 294-305.	6.8	3
46	Electric Vehicle Adoption in Germany: Current Knowledge and Future Research. Lecture Notes in Mobility, 2020, , 189-211.	0.2	3
47	The effect of plug-in hybrid electric vehicle charging on fuel consumption and tail-pipe emissions. Environmental Research Communications, 2021, 3, 081001.	2.3	2
48	How well can early adopters of electric vehicles be identified?. , 2013, , .		1
49	Assessment of fast-charging station locationsâ€"an integrated model based approach. , 2020, , 595-611.		0
50	Variability of daily car usage and the frequency of long-distance driving. Transportation Research, Part D: Transport and Environment, 2021, 101, 103126.	6.8	0