Sergey Paltsev

List of Publications by Year
in descending order

92 papers	4,624 citations	101543 36 h-index	110387 64 g-index
95 all docs	95 docs citations	95 times ranked	4588 citing authors

#	Article	IF	Citations
1	Indirect Emissions from Biofuels: How Important?. Science, 2009, 326, 1397-1399.	12.6	494
2	Health damages from air pollution in China. Global Environmental Change, 2012, 22, 55-66.	7.8	360
3	The future of food demand: understanding differences in global economic models. Agricultural Economics (United Kingdom), 2014, 45, 51-67.	3.9	357
4	The future of global water stress: An integrated assessment. Earth's Future, 2014, 2, 341-361.	6.3	155
5	Natural gas pricing reform in China: Getting closer to a market system?. Energy Policy, 2015, 86, 43-56.	8.8	111
6	Hard-to-Abate Sectors: The role of industrial carbon capture and storage (CCS) in emission mitigation. Applied Energy, 2021, 300, 117322.	10.1	109
7	Using Land To Mitigate Climate Change: Hitting the Target, Recognizing the Trade-offs. Environmental Science & Technology, 2012, 46, 5672-5679.	10.0	106
8	Marginal Abatement Costs and Marginal Welfare Costs for Greenhouse Gas Emissions Reductions: Results from the EPPA Model. Environmental Modeling and Assessment, 2012, 17, 325-336.	2.2	97
9	Technology and technical change in the MIT EPPA model. Energy Economics, 2006, 28, 610-631.	12.1	86
10	The future of U.S. natural gas production, use, and trade. Energy Policy, 2011, 39, 5309-5321.	8.8	86
11	Carbon co-benefits of tighter SO2 and NOx regulations in China. Global Environmental Change, 2013, 23, 1648-1661.	7.8	83
12	Measuring welfare loss caused by air pollution in Europe: A CGE analysis. Energy Policy, 2010, 38, 5059-5071.	8.8	81
13	Potential Land Use Implications of a Global Biofuels Industry. Journal of Agricultural and Food Industrial Organization, 2007, 5, .	1.3	80
14	Contribution of Anaerobic Digesters to Emissions Mitigation and Electricity Generation Under U.S. Climate Policy. Environmental Science & Technology, 2011, 45, 6735-6742.	10.0	77
15	Analysis of climate policy targets under uncertainty. Climatic Change, 2012, 112, 569-583.	3.6	72
16	The Influence of Shale Gas on U.S. Energy and Environmental Policy. Economics of Energy and Environmental Policy, 2012, 1, .	1.4	71
17	Synergy between pollution and carbon emissions control: Comparing China and the United States. Energy Economics, 2014, 46, 186-201.	12.1	69
18	The impact of the European Union Emissions Trading Scheme on US aviation. Journal of Air Transport Management, 2012, 19, 36-41.	4.5	68

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19	Developing a Consistent Database for Regional Geologic CO2 Storage Capacity Worldwide. Energy Procedia, 2017, 114, 4697-4709.	1.8	67
20	The cost of CO2 transport and storage in global integrated assessment modeling. International Journal of Greenhouse Gas Control, 2021, 109, 103367.	4.6	64
21	Toward integrated assessment of environmental change: air pollution health effects in the USA. Climatic Change, 2008, 88, 59-92.	3.6	63
22	The cost of climate policy in the United States. Energy Economics, 2009, 31, S235-S243.	12.1	63
23	Shale gas production: potential versus actual greenhouse gas emissions. Environmental Research Letters, 2012, 7, 044030.	5.2	63
24	Prospects for plug-in hybrid electric vehicles in the United States and Japan: A general equilibrium analysis. Transportation Research, Part A: Policy and Practice, 2010, 44, 620-641.	4.2	62
25	Scenarios for Russia's natural gas exports to 2050. Energy Economics, 2014, 42, 262-270.	12.1	62
26	The complicated geopolitics of renewable energy. Bulletin of the Atomic Scientists, 2016, 72, 390-395.	0.6	62
27	Forward-looking versus recursive-dynamic modeling in climate policy analysis: A comparison. Economic Modelling, 2009, 26, 1341-1354.	3.8	61
28	Long-term economic modeling for climate change assessment. Economic Modelling, 2016, 52, 867-883.	3.8	59
29	Autonomous efficiency improvement or income elasticity of energy demand: Does it matter?. Energy Economics, 2008, 30, 2785-2798.	12.1	55
30	The economics of bioenergy with carbon capture and storage (BECCS) deployment in a 1.5ÂÂ°C or 2ÂÂ°C world. Global Environmental Change, 2021, 68, 102262.	7.8	53
31	Integrated economic and climate projections for impact assessment. Climatic Change, 2015, 131, 21-33.	3.6	52
32	Toward a consistent modeling framework to assess multi-sectoral climate impacts. Nature Communications, 2018, 9, 660.	12.8	50
33	Limited trading of emissions permits as a climate cooperation mechanism? USâ€"China and EUâ€"China examples. Energy Economics, 2016, 58, 95-104.	12.1	45
34	Health co-benefits of sub-national renewable energy policy in the US. Environmental Research Letters, 2019, 14, 085012.	5.2	45
35	Should a vehicle fuel economy standard be combined with an economy-wide greenhouse gas emissions constraint? Implications for energy and climate policy in the United States. Energy Economics, 2013, 36, 322-333.	12.1	44
36	Assessment of US GHG cap-and-trade proposals. Climate Policy, 2008, 8, 395-420.	5.1	42

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37	COST CONCEPTS FOR CLIMATE CHANGE MITIGATION. Climate Change Economics, 2013, 04, 1340003.	5.0	42
38	The role of China in mitigating climate change. Energy Economics, 2012, 34, S444-S450.	12.1	41
39	Valuing climate impacts in integrated assessment models: the MIT IGSM. Climatic Change, 2013, 117, 561-573.	3.6	39
40	Applying engineering and fleet detail to represent passenger vehicle transport in a computable general equilibrium model. Economic Modelling, 2013, 30, 295-305.	3.8	37
41	Integrated assessment model diagnostics: key indicators and model evolution. Environmental Research Letters, 2021, 16, 054046.	5.2	36
42	Impacts of climate change policies worldwide on the Russian economy. Climate Policy, 2020, 20, 1242-1256.	5.1	35
43	Impacts of China's emissions trading schemes on deployment of power generation with carbon capture and storage. Energy Economics, 2019, 81, 848-858.	12.1	33
44	Representing the costs of low-carbon power generation in multi-region multi-sector energy-economic models. International Journal of Greenhouse Gas Control, 2019, 87, 170-187.	4.6	31
45	Baseline projections for Latin America: base-year assumptions, key drivers and greenhouse emissions. Energy Economics, 2016, 56, 499-512.	12.1	30
46	Climate change policy in Brazil and Mexico: Results from the MIT EPPA model. Energy Economics, 2016, 56, 600-614.	12.1	30
47	Turkish energy sector development and the Paris Agreement goals: A CGE model assessment. Energy Policy, 2018, 122, 84-96.	8.8	30
48	Will Border Carbon Adjustments Work?. B E Journal of Economic Analysis and Policy, 2011, 11, .	0.9	29
49	Sharing the burden of GHG reductions. , 2009, , 753-785.		28
50	WHAT TO EXPECT FROM SECTORAL TRADING: A US-CHINA EXAMPLE. Climate Change Economics, 2011, 02, 9-26.	5.0	27
51	Global CO2 impacts of light-duty electric vehicles. Transportation Research, Part D: Transport and Environment, 2020, 87, 102524.	6.8	27
52	Reducing CO2 from cars in the European Union. Transportation, 2018, 45, 573-595.	4.0	26
53	The impacts of the Brazilian NDC and their contribution to the Paris agreement on climate change. Environment and Development Economics, 2019, 24, 395-412.	1.5	26
54	Scenarios with MIT integrated global systems model: significant global warming regardless of different approaches. Climatic Change, 2011, 104, 515-537.	3.6	25

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55	Energy scenarios: the value and limits of scenario analysis. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e242.	4.1	25
56	Distributional Implications of Alternative U.S. Greenhouse Gas Control Measures. B E Journal of Economic Analysis and Policy, 2010, 10, .	0.9	23
57	The hedge value of international emissions trading under uncertainty. Energy Policy, 2010, 38, 1787-1796.	8.8	22
58	The prospects for coal-to-liquid conversion: A general equilibrium analysis. Energy Policy, 2011, 39, 4713-4725.	8.8	22
59	The economic viability of gas-to-liquids technology and the crude oilâ€"natural gas price relationship. Energy Economics, 2017, 63, 13-21.	12.1	19
60	Representing Socioâ€Economic Uncertainty in Human System Models. Earth's Future, 2022, 10, .	6.3	19
61	Proposed Vehicle Fuel Economy Standards in the United States for 2017 to 2025. Transportation Research Record, 2012, 2287, 132-139.	1.9	18
62	Costs of reducing GHG emissions in Brazil. Climate Policy, 2014, 14, 209-223.	5.1	18
63	SCENARIOS FOR THE DEPLOYMENT OF CARBON CAPTURE AND STORAGE IN THE POWER SECTOR IN A PORTFOLIO OF MITIGATION OPTIONS. Climate Change Economics, 2021, 12, .	5.0	17
64	The Canadian oil sands industry under carbon constraints. Energy Policy, 2012, 50, 540-550.	8.8	16
65	Climate change and developing country growth: the cases of Malawi, Mozambique, and Zambia. Climatic Change, 2019, 154, 335-349.	3.6	16
66	Food, Fuel, Forests, and the Pricing of Ecosystem Services. American Journal of Agricultural Economics, 2011, 93, 342-348.	4.3	15
67	Distributional Impacts of a U.S. Greenhouse Gas Policy. , 2010, , 52-107.		13
68	Climate Change Taxes and Energy Efficiency in Japan. Environmental and Resource Economics, 2007, 37, 377-410.	3.2	11
69	Use of natural gas and oil as a source of feedstocks. Energy Economics, 2020, 92, 104984.	12.1	11
70	How (and why) do climate policy costs differ among countries?. , 0, , 282-293.		9
71	The Role of Non-CO2 GHGs in Climate Policy: Analysis Using the MIT IGSM. Energy Journal, 2006, 27, 503-520.	1.7	9
72	Analysis of the Coal Sector under Carbon Constraints. Journal of Policy Modeling, 2009, 31, 404-424.	3.1	8

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73	An analysis of US greenhouse gas cap-and-trade proposals using a forward-looking economic model. Environment and Development Economics, 2011, 16, 155-176.	1.5	8
74	Future energy: in search of a scenario reflecting current and future pressures and trends. Environmental Economics and Policy Studies, 2023, 25, 31-61.	2.0	8
75	Transport and Climate Policy Modeling the Transport Sector: The Role of Existing Fuel Taxes in Climate Policy. , 2005, , 211-238.		7
76	EUROPEAN-LED CLIMATE POLICY VERSUS GLOBAL MITIGATION ACTION: IMPLICATIONS ON TRADE, TECHNOLOGY, AND ENERGY. Climate Change Economics, 2013, 04, 1340002.	5.0	7
77	Regulatory control of vehicle and power plant emissions: how effective and at what cost?. Climate Policy, 2015, 15, 438-457.	5.1	7
78	Projecting Energy and Climate for the 21st Century. Economics of Energy and Environmental Policy, 2020, 9, .	1.4	7
79	Economic analysis of the hard-to-abate sectors in India. Energy Economics, 2022, 112, 106149.	12.1	7
80	Nuclear exit, the US energy mix, and carbon dioxide emissions. Bulletin of the Atomic Scientists, 2013, 69, 34-43.	0.6	4
81	THE FUTURE OF NATURAL GAS IN CHINA: EFFECTS OF PRICING REFORM AND CLIMATE POLICY. Climate Change Economics, 2016, 07, 1650012.	5.0	4
82	A Multisectoral Dynamic Model for Energy, Economic, and Climate Scenario Analysis. Low Carbon Economy, 2022, 13, 70-111.	1.2	4
83	Costs of Mitigating Climate Change in the United States. Annual Review of Resource Economics, 2010, 2, 257-273.	3.7	3
84	WILL GREENHOUSE GASES MITIGATION POLICIES ABROAD AFFECT THE DOMESTIC ECONOMY? THE CASE OF TAIWAN. Climate Change Economics, 2019, 10, 1950016.	5.0	3
85	The role of shale gas in shaping the U.S. long-run CO₂ emissions. Energy and Environment, 2021, 32, 737-755.	4.6	2
86	Energy Scenarios for East Asia, 2005â€“2025. , 2009, , 211-242.		2
87	Emissions Pricing to Stabilize Global Climate. SSRN Electronic Journal, 0, , .	0.4	2
88	Economics and geopolitics of natural gas: Pipelines versus LNG. , 2015, , .		1
89	Air Pollution Health Effects: Toward an Integrated Assessment. Advances in Global Change Research, 2005, , 267-293.	1.6	1
90	Will using newer inputâ€“output data for general equilibrium modeling provide a better estimate for the CO2 mitigation cost?. Economic Systems Research, 2021, 33, 157-170.	2.7	0

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91	Regulatory Control of Vehicle and Power Plant Emissions: How Effective and at What Cost?. SSRN Electronic Journal, 0, , .	0.4	0
92	Distributional Implications of Alternative U.S. Greenhouse Gas Control Measures. , 2013, , .		0