Gokul C Iyer

List of Publications by Year
in descending order

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50 papers	3,593 citations	218677 26 h-index	189892 50 g-index
55 all docs	55 docs citations	55 times ranked	3146 citing authors

#	Article	IF	Citations
1	Residual fossil CO2 emissions in 1.5â€“2â€‰Â°C pathways. Nature Climate Change, 2018, 8, 626-633.	18.8	380
2	Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. Nature Energy, 2018, 3, 589-599.	39.5	377
3	Assessing Chinaâ€™s efforts to pursue the 1.5Â°C warming limit. Science, 2021, 372, 378-385.	12.6	267
4	Can Paris pledges avert severe climate change?. Science, 2015, 350, 1168-1169.	12.6	260
5	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. Nature Communications, 2020, 11, 2096.	12.8	241
6	GCAM v5.1: representing the linkages between energy, water, land, climate, and economic systems. Geoscientific Model Development, 2019, 12, 677-698.	3.6	211
7	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. Nature Communications, 2019, 10, 5229.	12.8	188
8	Impacts of climate change on energy systems in global and regional scenarios. Nature Energy, 2020, 5, 794-802.	39.5	180
9	Energy system transitions and low-carbon pathways in Australia, Brazil, Canada, China, EU-28, India, Indonesia, Japan, Republic of Korea, Russia and the United States. Energy, 2021, 216, 119385.	8.8	128
10	Economic tools to promote transparency and comparability in the Paris Agreement. Nature Climate Change, 2016, 6, 1000-1004.	18.8	122
11	Quantifying operational lifetimes for coal power plants under the Paris goals. Nature Communications, 2019, 10, 4759.	12.8	112
12	Diffusion of low-carbon technologies and the feasibility of long-term climate targets. Technological Forecasting and Social Change, 2015, 90, 103-118.	11.6	111
13	Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models. Energy, 2019, 172, 1254-1267.	8.8	107
14	Climate policy models need to get real about people â€” hereâ€™s how. Nature, 2021, 594, 174-176.	27.8	81
15	Measuring progress from nationally determined contributions to mid-century strategies. Nature Climate Change, 2017, 7, 871-874.	18.8	73
16	The contribution of Paris to limit global warming to 2 Â°C. Environmental Research Letters, 2015, 10, 125002.	5.2	69
17	Improved representation of investment decisions in assessments of CO2 mitigation. Nature Climate Change, 2015, 5, 436-440.	18.8	68
18	Implications of sustainable development considerations for comparability across nationally determined contributions. Nature Climate Change, 2018, 8, 124-129.	18.8	55

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19	Global urban growth between 1870 and 2100 from integrated high resolution mapped data and urban dynamic modeling. Communications Earth & Environment, 2021, 2, .	6.8	43
20	Coupling national and global models to explore policy impacts of NDCs. Energy Policy, 2018, 118, 462-473.	8.8	42
21	Stranded asset implications of the Paris Agreement in Latin America and the Caribbean. Environmental Research Letters, 2020, 15, 044026.	5.2	37
22	Global roll-out of comprehensive policy measures may aid in bridging emissions gap. Nature Communications, 2021, 12, 6419.	12.8	37
23	Integrated assessment model diagnostics: key indicators and model evolution. Environmental Research Letters, 2021, 16, 054046.	5.2	36
24	Implications of water constraints on electricity capacity expansion in the United States. Nature Sustainability, 2019, 2, 206-213.	23.7	33
25	Power sector investment implications of climate impacts on renewable resources in Latin America and the Caribbean. Nature Communications, 2021, 12, 1276.	12.8	30
26	The surprisingly inexpensive cost of state-driven emission control strategies. Nature Climate Change, 2021, 11, 738-745.	18.8	28
27	The role of carbon dioxide removal in net-zero emissions pledges. Energy and Climate Change, 2021, 2, 100043.	4.4	28
28	Impacts of long-term temperature change and variability on electricity investments. Nature Communications, 2021, 12, 1643.	12.8	26
29	Implications of small modular reactors for climate change mitigation. Energy Economics, 2014, 45, 144-154.	12.1	24
30	US energy system transitions under cumulative emissions budgets. Climatic Change, 2020, 162, 1947-1963.	3.6	24
31	Quantifying the regional stranded asset risks from new coal plants under 1.5 Â°C. Environmental Research Letters, 2022, 17, 024029.	5.2	18
32	Good practice policies to bridge the emissions gap in key countries. Global Environmental Change, 2022, 73, 102472.	7.8	18
33	<i>gcamdata</i>: An R Package for Preparation, Synthesis, andÂTracking of Input Data for the GCAM Integrated Human-Earth Systems Model. Journal of Open Research Software, 2019, 7, 6.	5.9	17
34	Agricultural impacts of sustainable water use in the United States. Scientific Reports, 2021, 11, 17917.	3.3	14
35	Representing power sector detail and flexibility in a multi-sector model. Energy Strategy Reviews, 2019, 26, 100411.	7.3	13
36	Evaluating long-term model-based scenarios of the energy system. Energy Strategy Reviews, 2020, 32, 100551.	7.3	12

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37	The future evolution of energy-water-agriculture interconnectivity across the US. Environmental Research Letters, 2021, 16, 065010.	5.2	11
38	The role of global agricultural market integration in multiregional economic modeling: Using hindcast experiments to validate an Armington model. Economic Analysis and Policy, 2021, 72, 1-17.	6.6	11
39	GCAM-USA v5.3_water_dispatch: integrated modeling of subnational US energy, water, and land systems within a global framework. Geoscientific Model Development, 2022, 15, 2533-2559.	3.6	10
40	Future western U.S. building electricity consumption in response to climate and population drivers: A comparative study of the impact of model structure. Energy, 2020, 208, 118312.	8.8	8
41	Implications of different income distributions for future residential energy demand in the U.S.. Environmental Research Letters, 2022, 17, 014031.	5.2	7
42	A decent life. Nature Energy, 2019, 4, 1010-1011.	39.5	5
43	The implications of uncertain renewable resource potentials for global wind and solar electricity projections. Environmental Research Letters, 2021, 16, 124060.	5.2	5
44	Future evolution of virtual water trading in the United States electricity sector. Environmental Research Letters, 2021, 16, 124010.	5.2	3
45	Climate change impacts on the energy system: a model comparison. Environmental Research Letters, 2022, 17, 034036.	5.2	3
46	plutus: An R package to calculate electricity investments and stranded assets from the Global Change Analysis Model (GCAM). Journal of Open Source Software, 2021, 6, 3212.	4.6	1
47	cerf: A Python package to evaluate the feasibility and costs of power plant siting for alternative futures. Journal of Open Source Software, 2021, 6, 3601.	4.6	1
48	US state-level capacity expansion pathways with improved modeling of the power sector dynamics within a multisector model. Energy Strategy Reviews, 2021, 38, 100739.	7.3	1
49	To achieve deep cuts in US emissions, state-driven policy is only slightly more expensive than nationally uniform policy. Nature Climate Change, 2021, 11, 911-912.	18.8	1
50	Transparency crucial to Paris climate scenariosâ€"Response. Science, 2022, 375, 828-828.	12.6	0