



## Michael Mastrandrea

Sr Research Scholar, Stanford Woods Institute for the Environment

 Curriculum Vitae available Online

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### Bio

#### BIO

Michael Mastrandrea is an interdisciplinary scientist focused on managing climate risks and the design and implementation of energy and climate policy in California and beyond. He is Research Director of the Climate and Energy Policy Program and a Senior Research Scholar at the Stanford Woods Institute for the Environment, as well as Director of Policy at the Stanford Doerr School of Sustainability Accelerator. He also serves as Chief Advisor for Energy and Climate Research at the California Energy Commission, supporting the R&D and Energy Assessments divisions. Prior to joining Stanford he was Director of Near Zero and a Senior Research Associate at the Carnegie Institution for Science. He was part of the leadership team for the Intergovernmental Panel on Climate Change Fifth Assessment Report, where he helped lead the development of two international scientific assessments of climate change science and policy options. He has also served as an author for the Fourth U.S. National Climate Assessment and as an associate editor for the California Fourth Climate Change Assessment. Mastrandrea sits on the Editorial Board and is a Managing Editor for the journal *Climatic Change*. He holds a Ph.D. from Stanford's Emmett Interdisciplinary Program in Environment and Resources, and a B.S. in Biological Sciences from Stanford.

#### ACADEMIC APPOINTMENTS

- Sr Research Scholar, Stanford Woods Institute for the Environment

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### Publications

#### PUBLICATIONS

- **Flexible operation and fugitive methane emissions limit the potential of power plant carbon capture and storage (vol. 38, 107494, 2025) *ELECTRICITY JOURNAL***  
Hersbach, T. J. P., Mastrandrea, M. D., Wara, M. W.  
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- **Flexible operation and fugitive methane emissions limit the potential of power plant carbon capture and storage *ELECTRICITY JOURNAL***  
Hersbach, T. J. P., Mastrandrea, M. D., Wara, M. W.  
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- **Low-intensity fires mitigate the risk of high-intensity wildfires in California's forests. *Science advances***  
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- **Enhancing the review process in global environmental assessments: The case of the IPCC *ENVIRONMENTAL SCIENCE & POLICY***  
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- **An open-source model of the Western Climate Initiative cap-and-trade programme with supply-demand scenarios to 2030** *CLIMATE POLICY*  
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2020; 20 (5): 626–40
- **Assessing California's progress toward its 2020 greenhouse gas emissions limit** *ENERGY POLICY*  
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- **Tracking banking in the Western Climate Initiative cap-and-trade program (vol 14, 124037, 2019)** *ENVIRONMENTAL RESEARCH LETTERS*  
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2019; 14 (12)
- **Net-zero emissions energy systems** *SCIENCE*  
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2017; 44: 1–14
- **IPCC reasons for concern regarding climate change risks** *NATURE CLIMATE CHANGE*  
O'Neill, B. C., Oppenheimer, M., Warren, R., Hallegatte, S., Kopp, R. E., Poertner, H. O., Scholes, R., Birkmann, J., Foden, W., Licker, R., Mach, K. J., Marbaix, P., Mastrandrea, et al  
2017; 7 (1): 28–37
- **A multistage crucible of revision and approval shapes IPCC policymaker summaries** *SCIENCE ADVANCES*  
Mach, K. J., Freeman, P. T., Mastrandrea, M. D., Field, C. B.  
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- **Towards seaport resilience for climate change adaptation: Stakeholder perceptions of hurricane impacts in Gulfport (MS) and Providence (RI)** *PROGRESS IN PLANNING*  
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2011; 10: 467–505
- **The Politics of Climate Science** *POLITICS OF CLIMATE CHANGE: A SURVEY, 1ST EDITION*  
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