

## Prof. Dr. Elmar Kriegler – Curriculum Vitae

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Born on 01.01.1971 in Düren, Germany



Prof. Dr. Elmar Kriegler is an internationally recognized researcher on integrated assessment of climate change and the use of scenarios in climate change research. He works on integrated assessment modeling, decision analysis, scenario analysis and economics of climate change. He is Head of the research department "Transformation Pathways" at the Potsdam Institute for Climate Impact Research, Lead Author of the Intergovernmental Panel on Climate Change (IPCC) and Professor for Integrated Assessment of Climate Change at the University of Potsdam. Elmar Kriegler has been named highly cited researcher in 2018, 2019 and 2020.

## Work experience

Since 01 / 2021

### **Professor for Integrated Assessment of Climate Change**

Faculty of Economics and Social Sciences, University of Potsdam

Since 01 / 2019

### **Head Research Department III "Transformation Pathways"**

Potsdam Institute for Climate Impact Research, Telegraphenberg A31, 14473 Potsdam

06 / 2010 – 12/2018

### **Deputy Chair Research Domain III "Sustainable Solutions"**

Potsdam Institute for Climate Impact Research, Telegraphenberg A31, 14473 Potsdam

06 / 2009 - 05 / 2010

### **Senior Scientist**

Potsdam Institute for Climate Impact Research, Telegraphenberg A31, 14473 Potsdam

06 / 2008 - 05 / 2009

### **Marie Curie Visiting Fellow**

Potsdam Institute for Climate Impact Research, Telegraphenberg A31, 14473 Potsdam

06 / 2006 - 05 / 2008

### **Marie Curie Visiting Fellow**

Department of Engineering and Public Policy, Carnegie Mellon University, Pittsburgh

08 / 2005 – 05 / 2006

### **Postdoctoral researcher**

Potsdam Institute for Climate Impact Research, Telegraphenberg A31, 14473 Potsdam

## Education

02 / 2000 – 07 / 2005

### **Doctoral Studies in Theoretical Physics**

Department of Physics, University of Potsdam

**Degree: Dr. rer. nat.** (summa cum laude / with distinction)

Thesis title: Imprecise Probability Analysis for Integrated Assessment of Climate Change

Principal Advisor: Prof. Dr. H.J. Schellnhuber

09 / 1991 – 08 / 1995 and 07 / 1996 – 07 / 1998

### **Studies in Physics**

Department of Physics, University of Freiburg

**Degree: Diplom in Physics** (M.Sc. equivalent)

09 / 1995 – 06 / 1996

### **Exchange Student in Physics**

Department of Physics, University of Washington, Seattle

## IPCC Authorship

2018-2022

### Lead Author of the 6<sup>th</sup> Assessment Report of IPCC Working Group III

Chapter 3 "Mitigation pathways compatible with long-term goals"

2017-2018

### Lead author of the IPCC Special Report on 1.5°C Warming

Chapter 2 "Mitigation Pathways compatible with 1.5°C in the context of sustainable development" and Summary for Policymakers

2010-2014

### Lead author of the 5th Assessment Report of IPCC Working Group III

Chapter 6 "Assessing Transformation Pathways" and Annex II "Metrics and Methodology", Contributing Author to the Summary for Policy Makers and the Technical Summary

## Board Memberships

Since 2010: Scientific Steering Committee of the Integrated Assessment Modeling Consortium (IAMC)

2010: Scientific Steering Committee Member of the IPCC Workshop on Socio-economic Scenarios (Berlin, Nov 2010)

Since 2012: Steering group of the International Committee on New Integrated Climate Change Assessment Scenarios (ICONICS)

Since 2013: Executive Committee Member / Co-Chair of the IAMC Scientific Working Group on Model Evaluation and Diagnostics

2014: Member of the Advisory Group for the Climate Engineering Conference 2014 (Berlin, August 2014)

2014-2015: Scientific Steering Committee Member of the IPCC Expert Meeting on Scenarios (Laxenburg, May 2015)

Since 2016: Scientific Steering Committee of the "The World in 2050" Initiative

Since 2016: Executive Board of the DFG Scientific Priority Programme on Climate Engineering

2018-2019: Scientific Steering Committee of the Scenarios Forum 2019 - Forum on scenarios and societal futures

Since 2019: Co-Chair of the IAMC Scientific Working Group on Scenarios for Climate-Related Financial Analysis

Since 2019: Executive Board of the Dialogue on the Economics of Climate Change, accompanying and supporting the BMBF funding measure Economics of Climate Change II

## Awards

2020: Web of Science Highly Cited Researcher 2020 in the category Social Sciences by Clarivate Analytics

2019: Web of Science Highly Cited Researcher 2019 in the category Social Sciences by Clarivate Analytics

2018: Web of Science Highly Cited Researcher 2018 in the category Cross-Field by Clarivate Analytics

2014: EAERE Award for Outstanding Publication in Environmental and Resource Economics (ERE) for: M. G. W. Schmidt, H. Held, E. Kriegler, A. Lorenz (2013) Climate Policy Under Uncertain and Heterogeneous Climate Damages, Environmental and Resource Economics, Jan 2013, Vol 54, Issue 1, pp 79-99

2013: IAMC Award 2012 for outstanding achievements in the field of integrated assessment (Integrated Assessment Modeling Consortium)

06 / 2006 - 05 / 2009: Marie Curie Outgoing International Fellowship, European Union

02 / 2000 - 01 / 2003: Ph. D. scholarship, Deutsche Bundesstiftung Umwelt (German Federal Foundation of the Environment)

1995 / 96: Foreign exchange student travel grant, J. William Fulbright Foreign Scholarship Board

## **Guest Editorships**

CD-LINKS Special Issue on Global and National Low Carbon Development Pathways, *Climatic Change*, 162, 1779–1785 Oct. 2020

RoSE Special Issue 'The Impact of Economic Growth and Fossil Fuel Availability on Climate Protection', *Climatic Change*, Vol. 136, Issue 1, May 2016

AMPERE Special Issue 'The AMPERE intermodel comparison on the economics of climate stabilization', *Technological Forecasting and Social Change*, Vol. 90, Part A, Jan 2015

EMF Special Issue 'The EMF27 Study on Global Technology and Climate Policy Strategies', *Climatic Change*, Vol. 123, Issue 3-4, Apr 2014

LIMITS Special Issue on 'Implementing Climate Policies in the Major Economies: An Assessment of Durban Platform Architectures - Results from the LIMITS Project', *Climate Change Economics*, Vol. 04/Issue 04, Nov 2013

## **Reviewer**

*Climatic Change*, *Energy Economics*, *Energy Policy*, *Environmental Research Letters*, *Nature Climate Change*, *Nature Energy*, *Nature Communications*, *Proceedings of the National Academy of Sciences*, *Review of Environmental Economics and Policy*, *Science*

## Publications

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Web of Science ResearcherID<sup>®</sup> I-3048-2016

**Publication Statistics based on Web of Science Core Collection** (Status 19 Nov 2019)

Based on 90 journal articles and four chapters of the IPCC 5<sup>th</sup> Assessment Report out of 127 papers, reports and book chapters listed below; 7335 citations; Highest cited article: Lenton et al., 2008, PNAS – 1294 citations; 13 articles and 2 IPCC chapters with more than 100 citations; 31 articles and 3 IPCC chapters with more than 50 citations; **h-index: 39**

**Publication Statistics based on Google Scholar** (Status 19 Nov 2019)

<https://scholar.google.de/citations?user=jblphpMAAAAJ>

Based on 120 of 127 papers, reports, and book chapters listed below; 13710 citations; Highest cited article: Lenton et al., 2008, PNAS – 2701 citations; 32 items with more than 100 citations; 55 items with more than 50 citations; **h-index: 52**

Highly cited articles and chapters with 50 or more citations based on Web of Science Core Collection are highlighted below.

### Journal Articles (peer reviewed)

#### 2022 (3)

Guivarch, C., Le Gallic, T., Bauer, N. et al. (2022) Using large ensembles of climate change mitigation scenarios for robust insights. *Nat. Clim. Chang.* 12, 428–435. <https://doi.org/10.1038/s41558-022-01349-x>

van Vuuren, D.P., Zimm, C., Busch, S., Kriegler, E. (2022) Defining a sustainable development target space for 2030 and 2050, *One Earth*, Volume 5, Issue 2, 142-156, <https://doi.org/10.1016/j.oneear.2022.01.003>.

Luderer, G., Madeddu, S., Merfort, L. et al. (2022) Impact of declining renewable energy costs on electrification in low-emission scenarios. *Nat Energy* 7, 32–42. <https://doi.org/10.1038/s41560-021-00937-z>

#### 2021 (17)

Riahi, K., Bertram, C., Huppmann, D. et al. (2021) Cost and attainability of meeting stringent climate targets without overshoot. *Nat. Clim. Chang.* 11, 1063–1069. <https://doi.org/10.1038/s41558-021-01215-2>

Malik, A., Bertram, C., Kriegler, E., Luderer, G. (2021) Climate policy accelerates structural changes in energy employment, *Energy Policy*, Vol. 159, <https://doi.org/10.1016/j.enpol.2021.112642>

van Soest, H.L., Aleluia Reis, L., Baptista, L.B. et al. (2021) Global roll-out of comprehensive policy measures may aid in bridging emissions gap. *Nat Commun* 12, 6419. <https://doi.org/10.1038/s41467-021-26595-z>

Baumstark, L., Bauer, N., Benke, F., et al. (2021) REMIND2.1: transformation and innovation dynamics of the energy-economic system within climate and sustainability limits, *Geosci. Model Dev.*, 14, 6571–6603, <https://doi.org/10.5194/gmd-14-6571-2021>

Schultes, A., Piontek, F., Sörgel, B. et al. (2021) Economic damages from on-going climate change imply deeper near-term emission cuts, *Environ. Res. Lett.* 16 104053, <https://doi.org/10.1088/1748-9326/ac27ce>

Auer, C., Kriegler, E., Carlsen, H., (2021) Climate change scenario services: From science to facilitating action, *One Earth*, Volume 4, Issue 8, 1074-1082, <https://doi.org/10.1016/j.oneear.2021.07.015>.

Soergel, B., Kriegler, E., Weindl, I. et al. (2021) A sustainable development pathway for climate action within the UN 2030 Agenda. *Nat. Clim. Chang.* 11, 656–664. <https://doi.org/10.1038/s41558-021-01098-3>

Strefler, J., Bauer, N., Humpenöder, F. et al. (2021) Carbon dioxide removal technologies are not born equal, *Environ. Res. Lett.* 16 074021, <https://doi.org/10.1088/1748-9326/ac0a11>

Bertram, C., Riahi, K., Hilaire, J. et al (2021) Energy system developments and investments in the decisive decade for the Paris Agreement goals, *Environ. Res. Lett.* 16 074020, <https://doi.org/10.1088/1748-9326/ac09ae>

Warszawski, L., Kriegler, E., Lenton, T.M. et al (2021) All options, not silver bullets, needed to limit global warming to 1.5 °C: a scenario appraisal, *Environ. Res. Lett.* 16 064037, <https://doi.org/10.1088/1748-9326/abfeec>

- Harmsen, M., Kriegler, E., van Vurren, D.P. et al (2021) Integrated assessment model diagnostics: key indicators and model evolution, *Environ. Res. Lett.* 16 054046, <https://doi.org/10.1088/1748-9326/abf964>
- Wilson, C., Guivarch, C., Kriegler, E. et al. (2021) Evaluating process-based integrated assessment models of climate change mitigation. *Climatic Change* 166, 3. <https://doi.org/10.1007/s10584-021-03099-9>
- Soergel, B., Kriegler, E., Bodirsky, B.L. et al. (2021) Combining ambitious climate policies with efforts to eradicate poverty. *Nat Commun* 12, 2342. <https://doi.org/10.1038/s41467-021-22315-9>
- Strefler, J., Kriegler, E., Bauer, N. et al. (2021) Alternative carbon price trajectories can avoid excessive carbon removal. *Nat Commun* 12, 2264. <https://doi.org/10.1038/s41467-021-22211-2>
- Duan, H., Zhou, S., Jiang, K. et al. (2021) Assessing China's efforts to pursue the 1.5°C warming limit, *Science*, Vol 372, Issue 6540, 378-385, [10.1126/science.aba876](https://doi.org/10.1126/science.aba876)

- A.Giannousakis, J. Hilaire, G.F. Nemet, G. Luderer, R.C. Pietzcker, R. Dias Bleasby Rodrigues, L. Baumstark & **E. Kriegler** (2021) How uncertainty in technology costs and carbon dioxide removal availability affect climate mitigation pathways. *Energy*, 216: 119253. [doi:10.1016/j.energy.2020.119253](https://doi.org/10.1016/j.energy.2020.119253).
- C. Tebaldi, K. Debeire, V. Eyring, E. Fischer, J. Fyfe, P. Friedlingstein, R. Knutti, J. Lowe, B. O'Neill, B. Sanderson, D. van Vuuren, K. Riahi, M. Meinshausen, Z. Nicholls, G. Hurtt, **E. Kriegler**, J.-F. Lamarque, G. Meehl, R. Moss, S.E. Bauer, O. Boucher, V. Brovkin, J.-C. Golaz, S. Gualdi, H. Guo, J.G. John, S. Kharin, T. Koshiro, L. Ma, D. Olivié, S. Panickal, F. Qiao, N. Rosenbloom, M. Schupfner, R. Seferian, Z. Song, C. Steger, A. Sellar, N. Swart, K. Tachiiri, H. Tatebe, A. Voldoire, E. Volodin, K. Wyser, X. Xin, R. Xinyao, S. Yang, Y. Yu, and T. Ziehn (2021) Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6, *Earth Syst. Dynam. Discuss.*

## 2020 (9)

- N. Bauer, D. Klein, F. Humpeöder, **E. Kriegler**, G. Luderer, A. Popp & J. Strefler (2020) Bio-energy and CO<sub>2</sub> emission reductions: an integrated land-use and energy sector perspective. *Climatic Change*, 163(3), 1675-1693. [doi:10.1007/s10584-020-02895-z](https://doi.org/10.1007/s10584-020-02895-z).
- N. Bauer, C. Bertram, A. Schultes, D. Klein, G. Luderer, **E. Kriegler**, A. Popp & O. Edenhofer (2020) Quantification of an efficiency–sovereignty trade-off in climate policy. *Nature*, 588(7837), 261-266. [doi:10.1038/s41586-020-2982-5](https://doi.org/10.1038/s41586-020-2982-5).
- B.C. O'Neill, T.R. Carter, K. Ebi, P.A. Harrison, E. Kemp-Benedict, K. Kok, **E. Kriegler**, B.L. Preston, K. Riahi, J. Sillmann, B.J. van Ruijven, D.P. van Vuuren, D. Carlisle, C. Conde, J.S. Fuglestedt, C. Green, T. Hasegawa, J. Leininger, S. Monteith & R. Pichs-Madruga (2020) Achievements and needs for the climate change scenario framework. *Nature Climate Change*, 10(12), 1074-1084. [doi:10.1038/s41558-020-00952-0](https://doi.org/10.1038/s41558-020-00952-0).
- Z.R.J. Nicholls, M. Meinshausen, J. Lewis, R. Gieseke, D. Dommenges, K. Dorheim, C.-S. Fan, J.S. Fuglestedt, T. Gasser, U. Golüke, P. Goodwin, C. Hartin, A.P. Hope, **E. Kriegler**, N.J. Leach, D. Marchegiani, L.A. McBride, Y. Quilcaille, J. Rogelj R.J. Salawitch, B.H. Samset, M. Sandstad, A.N. Shiklomanov, R.B. Skeie, C.J. Smith, S. Smith, K. Tanaka, J. Tsutsui & Z. Xie (2020) Reduced Complexity Model Intercomparison Project Phase 1: introduction and evaluation of global-mean temperature response. *Geoscientific Model Development*, 13(11), 5175-5190. [doi:10.5194/gmd-13-5175-2020](https://doi.org/10.5194/gmd-13-5175-2020).
- R. Schaeffer, A. Köberle, H.L. van Soest, C. Bertram, G. Luderer, K. Riahi, V. Krey, D.P. van Vuuren, **E. Kriegler**, S. Fujimori, W. Chen, C. He, Z. Vrontisi, S. Vishwanathan, A. Garg, R. Mathur, S. Shekhar, K. Oshiro, F. Ueckerdt, G. Safonov, G. Iyer, K. Gi & V. Potashnikov (2020) Comparing transformation pathways across major economies. *Climatic Change*, 162(4), 1787-1803. [doi:10.1007/s10584-020-02837-9](https://doi.org/10.1007/s10584-020-02837-9).
- A. Giannousakis, L. Baumstark & **E. Kriegler** (2020) En route to China's mid-century climate goal: comparison of emissions intensity versus absolute targets. *Climate Policy*, 20(10), 1274-1289. [doi:10.1080/14693062.2020.1798734](https://doi.org/10.1080/14693062.2020.1798734).
- A. Malik, C. Bertram, J. Després, J. Emmerling, S. Fujimori, A. Garg, **E. Kriegler**, G. Luderer, R. Mathur, M. Roelfsema, S. Shekhar, S. Vishwanathan & Z. Vrontisi (2020) Reducing stranded assets through early action in the Indian power sector. *Environmental Research Letters*, 15(9): 094091. [doi:10.1088/1748-9326/ab8033](https://doi.org/10.1088/1748-9326/ab8033).
- H. Wang, W. Chen, C. Bertram, A. Malik, **E. Kriegler**, G. Luderer, J. Després, K. Jiang & V. Krey (2020) Early transformation of the Chinese power sector to avoid additional coal lock-in. *Environmental Research Letters*, 15(2): 024007. [doi:10.1088/1748-9326/ab5d99](https://doi.org/10.1088/1748-9326/ab5d99).
- M. Roelfsema, H.L. van Soest, M. Harmsen, D.P. van Vuuren, C. Bertram, M. den Elzen, N. Höhne, G. Iacobuta, V. Krey, **E. Kriegler**, G. Luderer, K. Riahi, F. Ueckerdt, J. Després, L. Drouet, J. Emmerling, S. Frank, O. Fricko, M. Gidden, F. Humpeöder, D.

Huppmann, S. Fujimori, K. Fragkiadakis, K. Gi, K. Keramidas, A.C. Köberle, L. Aleluia Reis, P. Rochedo, R. Schaeffer, K. Oshiro, Z. Vrontisi, W. Chen, G.C. Iyer, J. Edmonds, M. Kannavou, K. Jiang, R. Mathur, G. Safonov & S.S. Vishwanathan (2020) Taking stock of national climate policies to evaluate implementation of the Paris Agreement. *Nature Communications*, 11: 2096. doi:10.1038/s41467-020-15414-6.

## 2019 (5)

- M. Hofmann, S. Mathesius, **E. Kriegler**, D.P. van Vuuren, H.J. Schellnhuber (2019) Strong time dependence of ocean acidification mitigation by atmospheric carbon dioxide removal. *Nature Communications*, in press. doi: 10.1038/s41467-019-13586-4
- J. Rogelj, P.M. Forster, **E. Kriegler**, C.J. Smith, R. Séférian, (2019) Estimating and tracking the remaining carbon budget for stringent climate targets. *Nature*, 571, 7765, 335-342 p. doi: 10.1038/s41586-019-1368-z
- M. J. Gidden, K. Riahi, S. Smith, S. Fujimori, G. Luderer, **E. Kriegler**, D.P. van Vuuren, M. van den Berg, L. Feng, D. Klein, D.K. Calvin, J.C. Doelman, S. Frank, O. Fricko, M. Harmsen, T. Hasegawa, P. Havlik, J. Hilaire, R. Hoesly, J. Horing, A. Popp, E. Stehfest, K. Takahashi (2019) Global emissions pathways under different socioeconomic scenarios for use in CMIP6: a dataset of harmonized emissions trajectories through the end of the century. *Geoscientific Model Development*, 12(4): 1443-1475. doi: 10.5194/gmd-12-1443-2019
- V. Krey, F. Guo, P. Kolp, W. Zhou, R. Schaeffer, A. Awasthy, C. Bertram, H. Sytze de Boer, P. Fragkos, S. Fujimori, C. He, G. Iyer, K. Keramidas, A.C. Köberle, K. Oshiro, L.A. Reis, B. Shoai-Tehrani, S. Vishwanathan, P. Capros, L. Drouet, J. E. Edmonds, A. Garg, D.E.H.J. Gernaat, K. Jiang, M. Kannavou, A. Kitous, **E. Kriegler**, G. Luderer, R. Mathur, M. Muratori, F. Sano, D.P. van Vuuren (2019) Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models. *Energy* 172: 1254-1267. doi: 10.1016/j.energy.2018.12.131
- F. Piontek, M. Kalkuhl, **E. Kriegler**, A. Schultes, M. Leimbach, O. Edenhofer, N. Bauer (2019), Economic growth effects of alternative climate change impact channels in economic modelling. *Environmental and Resource Economics* 73(4). doi: 10.1007/s10640-018-00306-7

## 2018 (13)

- J. Rogelj, A. Popp, K. V. Calvin, G. Luderer, J. Emmerling, D. Gernaat, S. Fujimori, J. Strefler, T. Hasegawa, G. Marangoni, V. Krey, **E. Kriegler**, K. Riahi, D. P. van Vuuren, J. Doelman, L. Drouet, J. Edmonds, O. Fricko, M. Harmsen, P. Havlik, F. Humpenöder, E. Stehfest and M. Tavoni (2018) Scenarios towards limiting global mean temperature increase below 1.5 °C. *Nature Climate Change* 8: 325–332. doi: 10.1038/s41558-018-0091-3. [highly cited: 87 citations in WoS]
- D. Huppmann, J. Rogelj, **E. Kriegler**, V. Krey, K. Riahi (2018) A new scenario resource for integrated 1.5 °C research. *Nature Climate Change* 8: 1027-1030. doi: 10.1038/s41558-018-0317-4
- J. Strefler, N. Bauer, **E. Kriegler**, A. Popp, A. Giannousakis, O. Edenhofer (2018) Between Scylla and Charybdis: Delayed mitigation narrows the passage between large-scale CDR and high costs. *Environmental Research Letters* 13: 044015. doi: 10.1088/1748-9326/aab2ba
- D.L. McCollum, W. Zhou, C. Bertram, H.-S. de Boer, V. Bosetti, S. Busch, J. Deprés, L. Drouet, J. Emmerling, M. Fay, O. Fricko, S. Fujimori, M. Gidden, M. Harmsen, D. Huppmann, G. Iyer, V. Krey, **E. Kriegler**, C. Nicolas, S. Pachauri, S. Parkinson, M. Poblete-Cazenave, P. Rafaj, N. Rao, J. Rozenberg, A. Schmitz, W. Schoepp, D.P. van Vuuren, K. Riahi (OA February 2019) Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. *Nature Energy* 3, 7: 589-599. doi: 10.1038/s41560-018-0179-z
- Z. Vrontisi, G. Luderer, B. Saveyn, K. Keramidas, A. Reis Lara, L. Baumstark, C. Bertram, H. Sytze de Boer, L. Drouet, K. Fragkiadakis, O. Fricko, S. Fujimori, C. Guivarch, A. Kitous, V. Krey, **E. Kriegler**, E. Ó Broin, L. Paroussos, D. P. van Vuuren (2018) Enhancing global climate policy ambition towards a 1.5 °C stabilization: a short-term multi-model assessment. *Environmental Research Letters* 13: 044039. doi: 10.1088/1748-9326/aab53e
- J. Fuglestedt, J. Rogelj, R. J. Millar, M. Allen, O. Boucher, M. Cain, P.M. Forster, **E. Kriegler**, D. Shindell (2018) Implications of possible interpretations of 'greenhouse gas balance' in the Paris Agreement. *Philosophical Transactions of the Royal Society A - Mathematical, Physical and Engineering Sciences*: 376. doi: 10.1098/rsta.2016.0445
- C. Weber, D.L. McCollum, J. Edmonds, P. Faria, A. Pyanet, J. Rogelj, M. Tavoni, J. Thoma, **E. Kriegler** (2018) Mitigation scenarios must cater to new users [Comment]. *Nature Climate Change* 8, 10: 845-848. doi: 10.1038/s41558-018-0293-8
- A. Schultes, M. Leimbach, G. Luderer, R.C. Pietzker, L. Baumstark, N. Bauer, **E. Kriegler**, O. Edenhofer (OA Januar 2019) Optimal international technology cooperation for the low-carbon transformation. *Climate Policy* 18, 9: 1165-1176. doi: 10.1080/14693062.2017.1409190

- E. Kriegler**, G. Luderer, N. Bauer, L. Baumstark, S. Fujimori, A. Popp, J. Rogelj, J. Strefler, D.P. van Vuuren (2018) Pathways limiting warming to 1.5°C: a tale of turning around in no time? *Philosophical Transactions of the Royal Society A - Mathematical, Physical and Engineering Sciences*: 376. doi: 10.1098/rsta.2016.0457
- J. Strefler, T. Amann, N. Bauer, **E. Kriegler**, J. Hartmann (2018) Potential and costs of carbon dioxide removal by enhanced weathering of rocks. *Environmental Research Letters* 13: 034010. doi: 10.1088/1748-9326/aaa9c4
- G. Luderer, Z. Vrontisi, C. Bertram, O.Y. Edelenbosch, R. C. Pietzcker, J. Rogelj, H. Sytze De Boer, L. Drouet, J. Emmerling, O. Fricko, S. Fujimori, P. Havlik, G. Iyer, K. Keramidas, A. Kitous, M. Pehl, V. Krey, K. Riahi, B. Saveyn, M. Tavoni, D.P. van Vuuren, **E. Kriegler** (2018) Residual fossil CO<sub>2</sub> emissions in 1.5-2 °C pathways. *Nature Climate Change* 8, 7: 626-633. doi: 10.1038/s41558-018-0198-6
- E. Kriegler**, C. Bertram, T. Kuramochi, M. Jakob, M. Pehl, M. Stevanovic, N. Höhne, G. Luderer, J.C. Minx, H. Fekete, J. Hilaire, L. Luna, A. Popp, J.C. Steckel, S. Sterl, A. Yalew, J.P. Dietrich, O. Edenhofer (2018) Short term policies to keep the door open for Paris climate goals. *Environmental Research Letters* 13: 074022. doi: 10.1088/1748-9326/aac4f1
- C. Bertram, G. Luderer, A. Popp, J.C. Minx, W.F. Lamb, M. Stevanovic, F. Humpenöder, A. Giannousakis, **E. Kriegler** (2018) Targeted policies can compensate most of the increased sustainability risks in 1.5 °C mitigation scenarios. *Environmental Research Letters* 13: 064038. doi: 10.1088/1748-9326/aac3ec

## 2017 (7)

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