# Laurent Drouet

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4353060/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 62 papers | 7,977 citations | 172457 29 h-index | 155660 55 g-index |
| 71 all docs | 71 docs citations | 71 times ranked | 8089 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Internalising health-economic impacts of air pollution into climate policy: a global modelling study. Lancet Planetary Health, The, 2022, 6, e40-e48. | 11.4 | 35 |
| 2 | Net economic benefits of well-below 2Â°C scenarios and associated uncertainties. Oxford Open Climate Change, 2022, 2, . | 1.3 | 1 |
| 3 | Air quality and health implications of 1.5 Â°Câ€“2 Â°C climate pathways under considerations of ageing population: a multi-model scenario analysis. Environmental Research Letters, 2021, 16, 045005. | 5.2 | 19 |
| 4 | A Satisficing Framework for Environmental Policy Under Model Uncertainty. Environmental Modeling and Assessment, 2021, 26, 433-445. | 2.2 | 2 |
| 5 | Integrated assessment model diagnostics: key indicators and model evolution. Environmental Research Letters, 2021, 16, 054046. | 5.2 | 36 |
| 6 | Integrated perspective on translating biophysical to economic impacts of climate change. Nature Climate Change, 2021, 11, 563-572. | 18.8 | 34 |
| 7 | Energy system developments and investments in the decisive decade for the Paris Agreement goals. Environmental Research Letters, 2021, 16, 074020. | 5.2 | 41 |
| 8 | Meeting well-below 2Â°C target would increase energy sector jobs globally. One Earth, 2021, 4, 1026-1036. | 6.8 | 44 |
| 9 | Land-based implications of early climate actions without global net-negative emissions. Nature Sustainability, 2021, 4, 1052-1059. | 23.7 | 27 |
| 10 | Global roll-out of comprehensive policy measures may aid in bridging emissions gap. Nature Communications, 2021, 12, 6419. | 12.8 | 37 |
| 11 | Net zero-emission pathways reduce the physical and economic risks of climate change. Nature Climate Change, 2021, 11, 1070-1076. | 18.8 | 39 |
| 12 | Cost and attainability of meeting stringent climate targets without overshoot. Nature Climate Change, 2021, 11, 1063-1069. | 18.8 | 102 |
| 13 | Implications of various effort-sharing approaches for national carbon budgets and emission pathways. Climatic Change, 2020, 162, 1805-1822. | 3.6 | 131 |
| 14 | Taking some heat off the NDCs? The limited potential of additional short-lived climate forcersâ€™ mitigation. Climatic Change, 2020, 163, 1443-1461. | 3.6 | 16 |
| 15 | The role of methane in future climate strategies: mitigation potentials and climate impacts. Climatic Change, 2020, 163, 1409-1425. | 3.6 | 39 |
| 16 | Reply to â€œHigh energy and materials requirement for direct air capture calls for further analysis and R&Dâ€• Nature Communications, 2020, 11, 3286. | 12.8 | 13 |
| 17 | Impact of methane and black carbon mitigation on forcing and temperature: a multi-model scenario analysis. Climatic Change, 2020, 163, 1427-1442. | 3.6 | 15 |
| 18 | The Energy Modeling Forum (EMF)-30 study on short-lived climate forcers: introduction and overview. Climatic Change, 2020, 163, 1399-1408. | 3.6 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Taking stock of national climate policies to evaluate implementation of the Paris Agreement. Nature Communications, 2020, 11, 2096. | 12.8 | 241 |
| 20 | Economy-wide effects of coastal flooding due to sea level rise: a multi-model simultaneous treatment of mitigation, adaptation, and residual impacts. Environmental Research Communications, 2020, 2, 015002. | 2.3 | 28 |
| 21 | An inter-model assessment of the role of direct air capture in deep mitigation pathways. Nature Communications, 2019, 10, 3277. | 12.8 | 267 |
| 22 | The role of the discount rate for emission pathways and negative emissions. Environmental Research Letters, 2019, 14, 104008. | 5.2 | 80 |
| 23 | A multi-model assessment of food security implications of climate change mitigation. Nature Sustainability, 2019, 2, 386-396. | 23.7 | 152 |
| 24 | NeatWork: A Tool for the Design of Gravity-Driven Water Distribution Systems for Poor Rural Communities. Interfaces, 2019, 49, 129-136. | 1.5 | 4 |
| 25 | Building Risk into the Mitigation/Adaptation Decisions simulated by Integrated Assessment Models. Environmental and Resource Economics, 2019, 74, 1687-1721. | 3.2 | 1 |
| 26 | Contribution of the land sector to a 1.5 Â°C world. Nature Climate Change, 2019, 9, 817-828. | 18.8 | 301 |
| 27 | 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 |
| 28 | Scenarios towards limiting global mean temperature increase below 1.5 Â°C. Nature Climate Change, 2018, 8, 325-332. | 18.8 | 795 |
| 29 | Enhancing global climate policy ambition towards a 1.5â€‰Â°C stabilization: a short-term multi-model assessment. Environmental Research Letters, 2018, 13, 044039. | 5.2 | 60 |
| 30 | Water demand for electricity in deep decarbonisation scenarios: a multi-model assessment. Climatic Change, 2018, 147, 91-106. | 3.6 | 16 |
| 31 | Country-level social cost of carbon. Nature Climate Change, 2018, 8, 895-900. | 18.8 | 479 |
| 32 | Future Global Air Quality Indices under Different Socioeconomic and Climate Assumptions. Sustainability, 2018, 10, 3645. | 3.2 | 17 |
| 33 | Residual fossil CO2 emissions in 1.5â€“2â€‰Â°C pathways. Nature Climate Change, 2018, 8, 626-633. | 18.8 | 380 |
| 34 | Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. Nature Energy, 2018, 3, 589-599. | 39.5 | 377 |
| 35 | Low-emission pathways in 11 major economies: comparison of cost-optimal pathways and Paris climate proposals. Climatic Change, 2017, 142, 491-504. | 3.6 | 41 |
| 36 | Future air pollution in the Shared Socio-economic Pathways. Global Environmental Change, 2017, 42, 346-358. | 7.8 | 277 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Shared Socio-Economic Pathways of the Energy Sector â€“ Quantifying the Narratives. Global Environmental Change, 2017, 42, 316-330. | 7.8 | 247 |
| 38 | The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. Global Environmental Change, 2017, 42, 153-168. | 7.8 | 2,966 |
| 39 | Assessing the Feasibility of Global Long-Term Mitigation Scenarios. Energies, 2017, 10, 89. | 3.1 | 51 |
| 40 | Building Uncertainty into the Adaptation Cost Estimation in Integrated Assessment Models. SSRN Electronic Journal, 2016, , . | 0.4 | 0 |
| 41 | Climate policy under socio-economic scenario uncertainty. Environmental Modelling and Software, 2016, 79, 334-342. | 4.5 | 9 |
| 42 | Setting the System Boundaries of â€œEnergy for Waterâ€•for Integrated Modeling. Environmental Science & Technology, 2016, 50, 8930-8931. | 10.0 | 12 |
| 43 | A multi-model assessment of the co-benefits of climate mitigation for global air quality. Environmental Research Letters, 2016, 11, 124013. | 5.2 | 72 |
| 44 | Cheap oil slows climate mitigation. Nature Climate Change, 2016, 6, 660-661. | 18.8 | 1 |
| 45 | Combination of equilibrium models and hybrid life cycle - inputâ€“output analysis to predict the environmental impacts of energy policy scenarios. Applied Energy, 2015, 145, 234-245. | 10.1 | 95 |
| 46 | Selection of climate policies under the uncertainties in the Fifth Assessment Report of the IPCC. Nature Climate Change, 2015, 5, 937-940. | 18.8 | 67 |
| 47 | Integrated environmental assessment of future energy scenarios based on economic equilibrium models. Metallurgical Research and Technology, 2014, 111, 179-189. | 0.7 | 6 |
| 48 | Delineating spring recharge areas in a fractured sandstone aquifer (Luxembourg) based on pesticide mass balance. Hydrogeology Journal, 2013, 21, 799-812. | 2.1 | 10 |
| 49 | Integrated Assessment of Swiss GHG Mitigation Policies After 2012. Environmental Modeling and Assessment, 2012, 17, 193-207. | 2.2 | 2 |
| 50 | Trade-offs between energy cost and health impact in a regional coupled energyâ€“air quality model: the LEAQ model. Environmental Research Letters, 2011, 6, 024021. | 5.2 | 12 |
| 51 | Trade-offs and performances of a range of alternative global climate architectures for post-2012. Environmental Science and Policy, 2010, 13, 63-71. | 4.9 | 14 |
| 52 | An oracle based method to compute a coupled equilibrium in a model of international climate policy. Computational Management Science, 2008, 5, 119-140. | 1.3 | 28 |
| 53 | Coupling climate and economic models in a cost-benefit framework: A convex optimisation approach. Environmental Modeling and Assessment, 2006, 11, 101-114. | 2.2 | 11 |
| 54 | The coupling of optimal economic growth and climate dynamics. Climatic Change, 2006, 79, 103-119. | 3.6 | 16 |

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|---|---|---|---|
| 55 | A Coupled Bottom-Up/Top-Down Model for GHG Abatement Scenarios in the Swiss Housing Sector. , 2005, , 27-61. | | 16 |
| 56 | Assessment of the Effectiveness of Global Climate Policies Using Coupled Bottom-Up and Top-Down Models. SSRN Electronic Journal, 0, , . | 0.4 | 8 |
| 57 | The WITCH 2016 Model - Documentation and Implementation of the Shared Socioeconomic Pathways. SSRN Electronic Journal, 0, , . | 0.4 | 37 |
| 58 | Integrated Environmental Assessment of Future Energy Scenarios Based on Economic Equilibrium Models. SSRN Electronic Journal, 0, , . | 0.4 | 3 |
| 59 | Regional Low-Emission Pathways from Global Models. SSRN Electronic Journal, 0, , . | 0.4 | 1 |
| 60 | Challenges and Opportunities for Integrated Modeling of Climate Engineering. SSRN Electronic Journal, 0, , . | 0.4 | 4 |
| 61 | Accounting for Uncertainty Affecting Technical Change in an Economic-Climate Model. SSRN Electronic Journal, 0, , . | 0.4 | 6 |
| 62 | Combination of Equilibrium Models and Hybrid Life Cycle Input-Output Analysis to Predict the Environmental Impacts of Energy Policy Scenarios. SSRN Electronic Journal, 0, , . | 0.4 | 0 |