

OS DADOS DO CADASTRO AMBIENTAL RURAL ESTÃO SENDO UTILIZADOS PARA A PESQUISA EM ECOLOGIA E CONSERVAÇÃO?

Ana Letícia Schreder¹  & Daniela Oliveira de Lima¹ 

¹Universidade Federal da Fronteira Sul, Programa de Pós-Graduação em Ambiente e Tecnologias Sustentáveis, Av. Jacob Reinaldo Hauptenthal, n° 1580, São Pedro, CEP 97900-000, Cerro Largo, RS, Brasil.

E-mails: analeticiaschr@gmail.com (*autor correspondente); daniela.ol.lima@gmail.com

MATERIAL SUPLEMENTAR

Material Suplementar 1. Lista das referências obtidas no Google Acadêmico durante a busca bibliográfica utilizando os termos [*biodiversity + conservation + Brazil + "Rural Environmental Registry"*] e que foram utilizadas no presente estudo.

Supplementary Material 1. List of references obtained during the bibliographic search in Google Scholar using the terms [biodiversity + conservation + Brazil + "Rural Environmental Registry"] and which were used in the present study.

Acevedo Cabra R. A. 2015. Integration of Market Risk Natural Hazard Risk and Ecosystem Services in the Analysis of Land Use Portfolios (Doctoral dissertation Technische Universität München).

Agrawal A. Brown D. G. & Sullivan J. A. 2019. Are global land grabs ticking sócio-environmental bombs or just inefficient investments?. *One Earth*, 1(2) 159-162. DOI: 10.1016/j.oneear.2019.10.004

- Aguiar R. Endres J. M. Taylor C. & Evans S. 2016. Public Conservation Policies on Private Land: A Case Study of the Brazilian Forest Code and Implications for the Agro-Industry Sector. *Pace Envtl. L. Rev.* 34 325.
- Alarcon G. G. Ayanu Y. Fantini A. C. Farley J. Schmitt Filho A. & Koellner T. 2015. Weakening the Brazilian legislation for forest conservation has severe impacts for ecosystem services in the Atlantic Southern Forest. *Land Use Policy*, 47, 1-11. DOI: 10.1016/j.landusepol.2015.03.011
- Alarcon G. G. Fantini A. C. Salvador C. H. & Farley J. 2017. Additionality is in detail: Farmers' choices regarding payment for ecosystem services programs in the Atlantic forest Brazil. *Journal of Rural Studies*, 54, 177-186. DOI: 10.1016/j.jrurstud.2017.06.008
- Albuquerque M. F. C. D. 2016. The sustainable use of biodiversity and its implications in agriculture: The agroforestry case in the Brazilian legal framework. In *Legal Aspects of Sustainable Development* (pp. 585-606). Springer Cham.
- Alix-Garcia J. Rausch L. L'Roe J. Gibbs H. K. & Munger J. Avoided deforestation linked to environmental.
- Almeida C. A. D. Coutinho A. C. Esquerdo J. C. D. M. Adami M. Venturieri A. Diniz C. G. ... & Gomes A. R. 2016. High spatial resolution land use and land cover mapping of the Brazilian Legal Amazon in 2008 using Landsat-5/TM and MODIS data. *Acta Amazonica*, 46 291-302. DOI: 10.1590/1809-4392201505504
- Al-Saidi, M., & Buriti, R. 2018. Ecosystem Infrastructure for Sustainability: Revaluating nature through community-based water and land policies in Brazil. In *Strongly Sustainable Societies* (pp. 99-115). Routledge.
- Al Saidi M. & Buriti R. 2018. Revaluating nature through community-based water and land

policies in Brazil. *Strongly Sustainable Societies: Organising Human Activities on a Hot and Full Earth*.

Altmann A. & Stanton M. S. 2018. The densification normative of the ecosystem services concept in Brazil: Analyses from legislation and jurisprudence. *Ecosystem Services*, 29, 282-293. DOI: 10.1016/j.ecoser.2017.10.013

Alves A. P. F. 2019. Dissemination of sustainability in supply chain: an analysis of the contribution of a roundtable.

Alves da Silva Júnior J. Socioeconomic factors and native vegetation cover in rural lands in São Paulo State Brazil.

Alves Pinto H. N. Latawiec A. E. Strassburg B. B. Barros F. S. Sansevero J. B. Iribarrem A. ... & Silva A. C. 2017. Reconciling rural development and ecological restoration: Strategies and policy recommendations for the Brazilian Atlantic Forest. *Land Use Policy*, 60, 419-426. DOI: 10.1016/j.landusepol.2016.08.004

Alves Pinto H. N. Newton P. & Pinto L. 2013. Certifying sustainability: opportunities and challenges for the cattle supply chain in Brazil. *CCAFS Working Paper*.

Alves Pinto H. N. Newton P. & Pinto L. F. G. 2015. Reducing deforestation and enhancing sustainability in commodity supply chains: interactions between governance interventions and cattle certification in Brazil. *Tropical Conservation Science*, 8(4) 1053-1079. DOI: 10.1177/194008291500800414

Anderson L. De Martino S. Harding T. Kuralbayeva K. & Lima A. 2016. The effects of land use regulation on deforestation: evidence from the Brazilian Amazon.

Andrade M. B. Ferrante L. & Fearnside P. M. 2021. Brazil's Highway BR-319 demonstrates a crucial lack of environmental governance in Amazonia. *Environmental Conservation*

48(3) 161-164. DOI: 10.1017/S0376892921000084

Antunes Daldegan G. 2019. Three Decades of Anthropogenic Fire Activity in a Neotropical Agricultural Frontier (Doctoral dissertation UC Santa Barbara).

Aparecido Goncalves D. Cabral de Sousa Júnior W. de Resende Londec L. Pellegrini Coutinho M. & Mendes Filho W. M. 2021. Land use and land cover changes in São Paulo Macro Metropolis and implications for water resilience under climate change. Sustainability in Debate/Sustentabilidade em Debate 12(2). DOI: 10.18472/SustDeb.v12n2.2021.32146

Araújo R. & Guimarães Vieira I. C. 2019. Deforestation and the ideologies of the frontier expansion: the case of criticism of the Brazilian Amazon monitoring program. Sustainability in Debate/Sustentabilidade em Debate 10(3). DOI: 10.18472/SustDeb.v10n3.2019.27258

Araújo S. M. V. G. D. 2020. Environmental policy in the Bolsonaro government: the response of environmentalists in the Legislative Arena. Brazilian Political Science Review 14. DOI: 10.1590/1981-3821202000020005

Arroyo Marín J. Arista Palmero M. Fernandes G. W. Arantes García L. Barbosa M. Barbosa N. P. U. ... & Silveira F. A. O. 2020. Biodiversity and ecosystem services in the Campo Rupestre: A road map for the sustainability of the hottest Brazilian biodiversity hotspot. Perspectives in Ecology and Conservation 18 (4) 213 222. DOI: 10.1016/j.pecon.2020.10.004

Arvor D. Daugeard M. Tritsch I. Mello Thery D. Aparecida N. Thery H. & Dubreuil V. 2018. Combining socioeconomic development with environmental governance in the Brazilian Amazon: The Mato Grosso agricultural frontier at a tipping point. Environment development and sustainability 20(1) 1 22. DOI: 10.1007/s10668-016-9889-1

- Assad E. D. 2016. Amazonia legal: proposals for sustainable agriculture. EESP-Escola de Economia de São Paulo.
- ASSAD E. D. COSTA L. C. MARTINS S. CALMON M. FELTRAN-BARBIERI R. A. F. A. E. L. CAMPANILI M. & NOBRE C. A. 2020. Role of ABC Plan And Planaveg in the Adaptation of Brazilian Agriculture to Climate Change. April 2020.(Working Paper).
- Assunção J. & Chiavari J. 2015. Towards efficient land use in Brazil. *The New Climate Economy* 1-28.
- Assunção J. & Souza P. 2019. Aligning Rural Credit with the Forest Code.
- Assunção J. Gandour C. Pessoa P. & Rocha R. 2017. Property level assessment of change in forest clearing patterns: The need for tailoring policy in the Amazon. *Land Use Policy* 66 18-27. DOI: 10.1016/j.landusepol.2017.04.022
- Assunção J. Gandour C. Rocha R. & Rocha R. 2020. The effect of rural credit on deforestation: evidence from the Brazilian Amazon. *The Economic Journal* 130(626) 290-330. DOI: 10.1093/ej/uez060
- Assunção J. McMillan R. Murphy J. & Souza-Rodrigues E. 2019. Optimal environmental targeting in the amazon rainforest (No. w25636). National Bureau of Economic Research. DOI: 10.3386/w25636
- Azevedo A. A. Rajão R. Costa M. A. Stabile M. C. Macedo M. N. Dos Reis T. N..... & Pacheco R. 2017. Limits of Brazil's Forest Code as a means to end illegal deforestation. *Proceedings of the National Academy of Sciences* 114(29) 7653-7658. DOI: 10.1073/pnas.1604768114

- Azevedo A. A. Stabile M. C. & Reis T. N. 2015. Commodity production in Brazil: Combining zero deforestation and zero illegality Commodity production in Brazil. *Elementa: Science of the Anthropocene* 3. DOI: 10.12952/journal.elementa.000076
- Azevedo A. Stabile M. Reis T. & Moutinho P. Commodity production in Brazil it is not (all) about deforestation.
- Barbanti O. 2015. Economic cycles deforestation and social impacts in the Brazilian Amazon. *Agrarian South: Journal of Political Economy* 4(2) 169-196. DOI: 10.1177/227797601559712
- Barbosa De Oliveira Filho F. J. 2020. Impact of environmental law enforcement on deforestation land use and natural regeneration in the Brazilian Amazon (Doctoral dissertation University of Cambridge).
- Barreto P. Ritaumaria P. Brandao A. & Baima S. 2017. Will meatpacking plants help halt deforestation in the Amazon. Belém PA: Imazon and Instituto Centro de Vida.
- Bastos Lima M. G. & Persson U. M. 2020. Commodity-centric landscape governance as a double-edged sword: the case of soy and the Cerrado Working Group in Brazil. *Frontiers in Forests and Global Change* 3 27. DOI: 10.3389/ffgc.2020.00027
- Bastos Lima M. G. 2021. Corporate power in the bioeconomy transition: The policies and politics of conservative ecological modernization in Brazil. *Sustainability* 13(12) 6952. DOI: 10.3390/su13126952
- Batch I. X. 2021. Public participation of small-scale farmers as a means to advance the sustainability of Payments for Watershed Services: a case study in the Cantareira region São Paulo Brazil (Doctoral dissertation Universidade Católica Dom Bosco).

- Bebbington D. H. Verdun R. Gamboa C. & Bebbington A. J. 2018. Impacts of extractive industry and infrastructure on forests. Assessment and Scoping of Extractive Industries and Infrastructure in Relation to Deforestation: Amazonia.
- Bedier J. M. L. C. 2017. Sustainable beef production in Brazil: different interests to a common cause (Doctoral dissertation).
- Benami E. 2018. Shaping the Producer's Problem: Essays on Land-Use Zoning and Certification in the Sustainability of Brazilian Oil Palm and Coffee. Stanford University.
- Benatti J. H. & da Cunha Fischer L. R. 2018. New trends in land tenure and environmental regularisation laws in the Brazilian Amazon. *Regional Environmental Change* 18(1) 11-19. DOI: 10.1007/s10113-017-1162-0
- Berenguer E. Tritsch I. Hasan A. F. Sist P. & Gond V. 2018. The Potential of Multisource Remote Sensing for Mapping the Biomass of a Degraded Amazonian Forest. DOI: 10.3390/f9060303
- Bergier I. & Assine M. L. 2022. Functional fluvial landforms of the Pantanal: Hydrologic trends and responses to climate changes. *Journal of South American Earth Sciences* 119 103977. DOI: 10.1016/j.jsames.2022.103977
- Beun D. 2019. Legal issues concerning the deforestation of the Amazon rainforest (Doctoral dissertation Ghent University).
- Biggs T. W. Santiago T. M. O. Sills E. & Caviglia-Harris J. 2019. The Brazilian Forest Code and riparian preservation areas: spatiotemporal analysis and implications for hydrological ecosystem services. *Regional Environmental Change* 19(8) 2381-2394. DOI: 10.1007/s10113-019-01549-w

- Blanco J. Bellon B. Barthelemy L. Camus B. De Palmas A. Fillon I & Renaud P. C. 2022.
Early stages of crop expansion have little effect on farm-scale vegetation patterns in a
Cerrado biome working landscape. *Landscape and Urban Planning* 223 104422. DOI:
10.1016/j.landurbplan.2022.104422
- Bonamigo A. Schimalski M. B. Soares P. R. C. Liesenberg V. Souza T. R. D. & Boesing T. L.
S. 2016. Changes in permanent preservation areas in rural properties of the Santa
Catarina state southern plateau according to the laws No. 4,771 and 12,651. *Ciência
Rural* 47. DOI: 10.1590/0103-8478cr20160489
- Bonanno A. Schneider S. Barbosa L. & Belik W. Understanding reality as a “social order,” the
authors propose an innovative review of the evolution of agrifood system in Brazil.
Their conclusions about the instability and contradictions of social orders are not only a
contribution to the Sociology of Agriculture and Food but also an important
contribution to Sociological Theory.
- Bonanomi J. Tortato F. R. Raphael de Souza R. G. Penha J. M. Bueno A. S. & Peres C. A.
2019. Protecting forests at the expense of native grasslands: Land-use policy
encourages open-habitat loss in the Brazilian cerrado biome. *Perspectives in Ecology
and Conservation* 17(1) 26-31. DOI: 10.1016/j.pecon.2018.12.002
- Borda-Nino M. Ceccon E. Meli P. Hernandez-Mucino D. Mas J. F. & Brancalion P. H. 2021.
Integrating farmers’ decisions on the assessment of forest regeneration drivers in a rural
landscape of Southeastern Brazil. *Perspectives in Ecology and Conservation* 19(3) 338-
344. DOI: 10.1016/j.pecon.2021.04.001
- Bourgoin C. 2019. A framework for evaluating forest ecological vulnerability in tropical
deforestation fronts from the assessment of forest degradation in a landscape approach:
Case studies from Brazil and Vietnam (Doctoral dissertation AgroParisTech).

- Bourgoin C. Blanc L. Bailly J. S. Cornu G. Berenguer E. Oszwald J. ... & Gond V. 2018. The potential of multisource remote sensing for mapping the biomass of a degraded Amazonian forest. *Forests* 9(6) 303. DOI: 10.3390/f9060303
- Brandao F. & Schoneveld G. 2015. The state of oil palm development in the Brazilian Amazon. Working Paper 198.
- Brandão F. Schoneveld G. Pacheco P. Vieira I. Piraux M. & Mota D. 2021. The challenge of reconciling conservation and development in the tropics: Lessons from Brazil's oil palm governance model. *World Development* 139 105268. DOI: 10.1016/j.worlddev.2020.105268
- Brandão Jr A. Rausch L. Paz Durán A. Costa Jr C. Spawn S. A. & Gibbs H. K. 2020. Estimating the potential for conservation and farming in the Amazon and Cerrado under four policy scenarios. *Sustainability* 12(3) 1277. DOI: 10.3390/su12031277
- Brazil m. I. 2021. Brazil sustainable landscapes opportunities analysis (sloa).
- Brickell E. & Elias P. 2013. Great Expectations: Realizing social and environmental benefits from public-private partnerships in agricultural supply chains ODI UK. DOI: <http://theredddesk.org/sites/default/files/resources/pdf/2013-/8500.pdf>.
- Brites A. D. 2020. New Forest Code effects over smallholder's intention to trade non-timber forest products. *Asian Journal of Forestry* 4(2). DOI: 10.13057/asianjfor/r040201
- Brito B. 2020. The pioneer market for forest law compliance in Paragominas Eastern Brazilian Amazon. *Land Use Policy* 94 104310. DOI: 10.1016/j.landusepol.2019.104310
- Brito B. Baima S. & Salles J. 2013. Unresolved land tenure issues in Pará. Belém: Imazon 1-8.

- Brock R. C. Arnell A. Simonson W. Soterroni A. C. Mosnier A. Ramos F..... & Kapos V. 2021. Implementing Brazil's Forest Code: a vital contribution to securing forests and conserving biodiversity. *Biodiversity and Conservation* 30(6) 1621-1635. DOI: 10.1007/s10531-021-02159-x
- Bryner N. S. 2016. Public interests and private land: The ecological function of property in Brazil. *Va. Envtl. LJ* 34 122.
- Bu Y. Wang E. & Yu Y. 2021. Analysis on asymptotic stabilization of eco-compensation program for forest ecotourism stakeholders. *Environmental Science and Pollution Research* 28(23) 29304-29320. DOI: 10.1007/s11356-021-12703-5
- Buainain A. M. & Garcia J. R. 2019. Agriculture and the environment: a conflictive and ambiguous antinomy in recent Brazilian development. In *Agricultural Development in Brazil* (pp. 139-151). Routledge.
- Buainain A. M. & Garcia J. R. 2019. Agriculture and the environment. *Agricultural Development in Brazil: The Rise of a Global Agro-food Power* 139-146.
- Bueno I. T. McDermid G. J. Silveira E. M. Hird J. N. Domingos B. I. & Acerbi Júnior F. W. 2020. Spatial agreement among vegetation disturbance maps in tropical domains using Landsat time series. *Remote Sensing* 12(18) 2948. DOI: 10.3390/rs12182948
- Bühler E. A. Gautreau P. & Oliveira V. L. 2022. (Im) Pertinences of a theoretical approach: the neoliberalization of nature. *Sociedade & Natureza* 32 526-539. DOI: 10.14393/SN-v32-2020-51769
- Buriti R. Al-Saidi M. & Ribbe L. (2018 October). Challenges of multi-level water governance at micro-watershed level—A case from Rio de Janeiro Brazil. In *IOP Conference Series:*

Earth and Environmental Science (Vol. 191 No. 1 p. 012120). IOP Publishing. DOI:
Doi:10.1088/1755-1315/191/1/012120

Bustamante M. Silva J. S. Scariot A. Sampaio A. B. Mascia D. L. Garcia E..... & Nobre C.

2019. Ecological restoration as a strategy for mitigating and adapting to climate change: lessons and challenges from Brazil. *Mitigation and Adaptation Strategies for Global Change* 24(7) 1249-1270. DOI: 10.1007/s11027-018-9837-5

Caldas j. D. N. 2017. Incorporating agent-based decision into spatial prioritization for forest restoration (Doctoral dissertation Universidade Federal do Rio de Janeiro).

Cammelli F. Levy S. A. Grabs J. Valentim J. F. & Garrett R. D. 2022. Effectiveness equity tradeoffs in enforcing exclusionary supply chain policies: Lessons from the Amazonian cattle sector. *Journal of Cleaner Production* 332 130031. DOI:
10.1016/j.jclepro.2021.130031

Campbell J. M. 2015. *Conjuring property: Speculation and environmental futures in the Brazilian Amazon*. University of Washington Press.

Campos Tisovec-Dufner K. Teixeira L. Marin G. D. L. Coudel E. Morsello C. & Pardini R.
2019. Intention of preserving forest remnants among landowners in the Atlantic Forest: The role of the ecological context via ecosystem services. *People and Nature* 1(4) 533-547. Disponível em:10.1002/pan3.10051

Cardoso F. H. & da Silva L. I. L. A fairer more inclusive Brazil with opportunities for all.

Carrero G. C. Fearnside P. M. do Valle D. R. & de Souza Alves C. 2020. Deforestation trajectories on a development frontier in the Brazilian Amazon: 35 years of settlement colonization policy and economic shifts and land accumulation. *Environmental management* 66(6) 966-984. DOI: 10.1007/s00267-020-01354-w

- Carrero G. C. Walker R. T. Simmons C. S. & Fearnside P. M. 2022. Land grabbing in the Brazilian Amazon: Stealing public land with government approval. *Land Use Policy* 106133. DOI: 10.1016/j.landusepol.2022.106133
- Carrilho C. D. Demarchi G. Duchelle A. E. Wunder S. & Morsello C. 2022. Permanence of avoided deforestation in a Transamazon REDD+ project (Pará Brazil). *Ecological Economics* 201 107568. DOI: 10.1016/j.ecolecon.2022.107568
- Cases Sánchez M. 2020. The International Criminal Court to the rescue of the home and lives of the Brazilian indigenous peoples: analysing the possibility of investigating and prosecuting crimes of extermination and forcible transfer of indigenous peoples in the Amazon forest (Doctoral dissertation).
- Castelo T. B. 2015. Brazilian forestry legislation and to combat deforestation government policies in the Amazon (Brazilian Amazon). *Ambiente & Sociedade* 18 221-242. DOI: 10.1590/1809-4422ASOC1216V1842015
- Catalan M. 2016. Forest rehabilitation problem in the legal reserved areas located inside familiar households in face of the Brazilian new forestry code. *Revista Pensamiento Americano* 9 15-26. DOI: <http://dx.doi.org/10.21803%2Fpenamer.9.16.336>
- Cerbaro M. Morse S. Murphy R. Lynch J. & Griffiths G. 2020. Information from earth observation for the management of sustainable land use and land cover in Brazil: an analysis of user needs. *Sustainability* 12(2) 489. DOI: 10.3390/su12020489
- Chiodi R. E. Avanzi J. C. Silva B. M. Corrêa P. S. G. & Uezu A. Instruments of environmental and productive intervention from the perspective of the nexus water energy and food: an analysis of the context of the Cantareira Water Production System.

- Cicerelli R. E. Menke A. B. Almeida T. Roig H. L. Pires M. O. & Soares N. 2021. Quantifying illegal deforestation in front of the forest code: potentiality and challenge. *Floresta* 51(2) 272-281. DOI: <http://dx.doi.org/10.5380/rf.v51i2.61804>
- Cláudio C. & Simões J. F. 2020. ICCAs
- Colman C. B. Guerra A. de Oliveira Roque F. Rosa I. & Oliveira P. T. 2021. Simulating land use change trajectories of the Cerrado Hotspot reveals the importance of considering private property sizes for biodiversity conservation.
- Colman C. B. Guerra A. de Oliveira Roque F. Rosa I. M. & de Oliveira P. T. S. 2022. Identifying priority regions and territorial planning strategies for conserving native vegetation in the Cerrado (Brazil) under different scenarios of land use changes. *Science of the Total Environment* 807 150998. DOI: [10.1016/j.scitotenv.2021.150998](https://doi.org/10.1016/j.scitotenv.2021.150998)
- Conceição K. V. Chaves M. E. Picoli M. C. Sánchez A. H. Soares A. R. Mataveli G. A..... & Camara G. 2021. Government policies endanger the indigenous peoples of the Brazilian Amazon. *Land use policy* 108 105663. [10.1016/j.landusepol.2021.105663](https://doi.org/10.1016/j.landusepol.2021.105663)
- Conflict w. I. & arruda m. The amazon: destruction and resistance worldviews in conflict marcos arruda2.
- Cordeiro-Beduschi L. E. 2020. Forest Governance in Brazil and Chile: Institutions and Practices in the Implementation of Sustainable Management of Native Forests. In *Ecological Economic and Socio Ecological Strategies for Forest Conservation* (pp. 213-226). Springer Cham. DOI: [10.1007/978-3-030-35379-7_11](https://doi.org/10.1007/978-3-030-35379-7_11)
- Cordoba D. Abrams J. & Selfa T. 2022. Achieving Palm Oil Sustainability Under Contract: Roundtable on Sustainable Palm Oil and Family Farmers in the Brazilian Amazon.

Current Research in Environmental Sustainability 4 100160. DOI:
10.1016/j.crsust.2022.100160

Correa J. 2018. The Amazon Fund 10 years later: resource distribution and effects of REDD+ in the Brazilian Amazon.

Correa J. van der Hoff R. & Rajão R. 2018. Results-based conservation aid: Amazon Fund 10 2 years later lessons from the world's largest REDD+ 3 program 4.

Correa J. van der Hoff R. & Rajão R. 2019. Amazon Fund 10 years later: lessons from the world's largest REDD+ program. *Forests* 10(3) 272. DOI: 10.3390/f10030272

Correa J. Van der Hoff R. & Rajão R. 2019. Results-Based Forest Conservation Funding: Amazon Fund 10 Years Later Lessons from the World's Largest REDD+ Program. DOI: DOI: 10.3390/f10030272

Costa C. G. F. 2020. New Governance Mechanisms Contributing to the Integration of National Climate Change Adaptation and Mitigation Policies in the Brazilian Amazon. *Gestion y Análisis de Políticas Públicas* 135-151. DOI: 10.24965/gapp.i23.10641

Costa C. G. F. 2020. New Governance Mechanisms Mainstreaming National Climate Change Adaptation and Mitigation Policies into the Local Level in the Brazilian Amazon. *Gestion y Análisis de Políticas Públicas* (23) 135NA151.

Cromberg M. & Duchelle a. Effectiveness of a redd+ project in reducing deforestation in the Brazilian Amazon.

Cruz C. B. M. Almeida P. M. M. Barros R. S. Vicens R. S. Souza E. M. F. R. Caris E. P. A. ... & Menezes P. M. L. 2016. Supported mapping with multi sensor images through strategy focused on customization and integration of generalized classes by GEOBIA. DOI: 10.3990/2.446

- Cruz C. B. M. de Almeida P. M. M. do Amaral F. G. de Barros R. S. & MFR E. (2018 June). Mapping the Atlantic Forest: GEOBIA contributions in a multiscale approach. In GEOBIA 2018-From pixels to ecosystems and global sustainability.
- Cruz D. S. Kaminshi T. C. G. & Pereira J. A. 2021. Payment for Environmental Services as a Strategic Tool for the Environmental Conservation of a Micro-Basin in the Amazon Region. *Glob Scient Res Env Sci* 1(3) 1-9.
- Cuadra S. V. Heinemann A. B. Madari B. E. Assad E. D. Oliveira P. P. A. Angelotti F. & Higa R. C. V. 2020. Climate change and Brazilian agriculture. Embrapa Agricultura Digital-Capítulo em livro científico (ALICE).
- Da Costa J. M. Shiraishi Neto J. da Silva E. L. & de Souza I. D. N. T. 2021. Society and environment in the territorial planning of the Brazilian amazon. *Canadian Journal of Latin American and Caribbean Studies/Revue canadienne des études latino-américaines et caraïbes* 46(1) 38-56. DOI: 10.1080/08263663.2021.1855865
- Da Costa J. R. Costa P. D. Almeida J. & Hammes V. 2020. Sustainable cities and communities: contributions of Embrapa.
- Da Costa J. R. de Alencar J. R. Costa P. D. Hammes V. Victoria D. D. C. de Jesus K. R. E& Forato I. 2020. Territorial intelligence: planning management and systems to support strategic decisions.
- Da Cruz D. C. Benayas J. M. R. Ferreira G. C. Santos S. R. & Schwartz G. 2021. An overview of forest loss and restoration in the Brazilian Amazon. *New Forests* 52(1) 1-16. DOI: 10.1007/s11056-020-09777-3

Da Cruz D. C. Ferreira G. C. Ribeiro S. S. Schwartz G. & Monteiro A. 2022. Priority areas for restoration in permanent preservation areas of rural properties in the Brazilian Amazon. Land Use Policy 115 106030. DOI: 10.1016/j.landusepol.2022.106030

Da Cruz J. C. Barella C. F. & Fonseca A. 2020. Compensating deforestation with forest surplus: Key regulatory issues within Brazil's atlantic forest. Ecological Economics 167 106444. DOI: 10.1016/j.ecolecon.2019.106444

Da Motta R. D. P. S. & Hulsman R. 2018. Brazilian Livestock (beef-cattle) sectoral profile: Orientation visit report–Brazil March 26-29th 2018. Wageningen University & Research.

da Paixão Alves V. & Diniz M. B. Reducing carbon emissions from avoided deforestation in the Brazilian Amazon: an approach based on the Business-as-Usual (BAU) scenario. DOI: DOI:10.5585/geas.v1i1.19817

Da Rocha S. J. S. S. Comini I. B. de Moraes Júnior V. T. M. Schettini B. L. S. Villanova P. H. Alves E. B. B. M. ... & Torres C. M. M. E. 2020. Ecological ICMS enables forest restoration in Brazil. Land use policy 91 104381. DOI: 10.1016/j.landusepol.2019.104381

Da Silva Costa A. Queiroz J. C. B. Chermont L. S. Lameira O. A. de Souza E. B. Diniz M. B. ... & Costa D. L. C. 2021. Deforestation forecasts in the Legal Amazon using intervention models. Research Society and Development 10(4) e8710413787-e8710413787. DOI: DOI: 10.33448/rsd-v10i4.13787

da Silva E. M. Pinto F. R. & Barbosa T. Environment impacts and charges during the process of urban.

- Da Silva F. N. L. Silva O. L. L. Mendonca R. C. de Quadros M. L. A. de Oliveira L. C. de Araujo Oliveira L. A. ... & Paes A. C. 2021. Checklist application to evaluate good management practices in aquaculture. *Research Society and Development* 10(1) e0310110296-e0310110296. DOI: 10.33448/rsd-v10i1.10296
- Da Silva J. M. C. Pinto L. P. & Scarano F. R. 2021. Toward integrating private conservation lands into national protected area systems: lessons from a megadiversity country. *Conservation Science and Practice* 3(7) e433. DOI: 10.1111/csp2.433
- Da Silva Medina G. 2019. Where are governments leading their agricultural sectors? Comparative lessons from agri-environmental measures promoted in the US Europe and Brazil. *Estudos Sociedade e Agricultura* 27(1) 5-23. DOI: DOI: 10.36920/esa-v27n1-1
- Da Silva S. D. P. dos Santos S. B. Pereira P. C. G. da Silva Melo M. R. & Eugenio F. C. 2021. Landscape analysis in a municipality in the arc of deforestation of the Brazilian Amazon rainforest. *Ecological Engineering* 173 106417. DOI: 10.1016/j.ecoleng.2021.106417
- Da SILVEIRA J. G. ASSAD L. de OLIVEIRA NETO S. N. BONET M. do CANTO A. C. B. CORDEIRO F. ... & RODRIGUES R. 2021. Implementation of lowNAcarbon technology in the Brazilian Amazon. In: world congress on integrated croplivestocknaforestry systems 2. 2021. wcclf 2021 proceedings. Brasília DF: Embrapa 2021. p. 893NA899. WCCLF 2021. Evento online.
- Daldegan G. A. 2019. Three Decades of Anthropogenic Fire Activity in a Neotropical Agricultural Frontier. University of California Santa Barbara.
- Dargains A. & Cabral P. 2021. A GIS-based methodology for sustainable farming planning: Assessment of land use/cover changes and carbon dynamics at farm level. *Land Use Policy* 111 105788. DOI: 10.1016/j.landusepol.2021.105788

- Das Neves C. E. Salinas E. dos Passos M. M. Ross J. L. S. & Cunha L. 2021. The scientific work on landscape analysis in Brazil: perspectives for an integrating debate. *Geo Uerj* (39) 58389. DOI: DOI: 10.12957/geouerj.2021.58389
- De Albuquerque M. F. C. 2017. Biodiversity and agriculture—friends or foes? The legal implementation of agroforestry practices in Brazil. In *Protecting Forest and Marine Biodiversity*. Edward Elgar Publishing. DOI: 10.4337/9781786439499.00013
- De Almeida A. S. Vieira I. C. G. & Ferraz S. F. 2020. Long-term assessment of oil palm expansion and landscape change in the eastern Brazilian Amazon. *Land Use Policy* 90 104321. DOI: 10.1016/j.landusepol.2019.104321
- De Andrade A. P. S. & Correio C. G. 2020. Restoration of a Permanent Preservation Area in Tangará da Serra-MT based on Replacement Cost Method. *Revista Eletronica em Gestão Educação e Tecnologia Ambiental* 24 1. DOI: DOI: 10.5902/2236117041078
- De Andrade F. M. R. 2020. Sustainable Development in the Brazilian Amazon: Meanings and Concepts. *Education Policy Analysis Archives* 28(187) n187.
- De Camargo N. F. dos Reis G. G. Mendonca A. F. Laumann R. A. Nardoto G. B. de Camargo A. J. & Vieira E. M. 2022. Native marsupial acts as an in situ biological control agent of the main soybean pest (*Euschistus heros*) in the Neotropics. *European Journal of Wildlife Research* 68(5) 1-16. DOI: 10.1007/s10344-022-01609-3
- De Figueiredo Silva F. 2018. Tradeoff Between Agriculture and Forest Preservation in the Brazilian Amazon (Doctoral dissertation The University of Nebraska-Lincoln).
- De Freitas F. L. M. Sparovek G. Mörtberg U. Silveira S. Klug I. & Berndes G. 2017. Offsetting legal deficits of native vegetation among Brazilian landholders: Effects on nature

protection and socioeconomic development. *Land use policy* 68 189-199. DOI:
10.1016/j.landusepol.2017.07.014

De Freitas Iwata B. dos Santos Ferreira D. Oliveira B. & D'Carlos A. 2020. Geotechnologies as an environmental licensing support tool in the state of Piauí Brazil. *Sustainability in Debate/Sustentabilidade em Debate* 11(2).

De Freitas Preto M. Garcia A. S. Nakai É. S. Casarin L. P. Vilela V. M. D. F. N. & Ballester M. V. R. 2022. The role of environmental legislation and land use patterns on riparian deforestation dynamics in an Amazonian agricultural frontier (MT Brazil). *Land Use Policy* 118 106132. DOI: 10.1016/j.landusepol.2022.106132

De Freitas Silgueiro V. de Souza C. O. C. F. Muller E. O. & da Silva C. J. 2021. Dimensions of the 2020 wildfire catastrophe in the Pantanal wetland: the case of the municipality of Poconé Mato Grosso Brazil. *Research Society and Development* 10(15) e08101522619-e08101522619. DOI: 10.33448/rsd-v10i15.22619

De Jesus Franca L. C. Júnior F. W. A. e Silva C. S. J. Monti C. A. U. Ferreira T. C. de Oliveira Santana C. J. & Gomide L. R. 2022. Forest landscape planning and management: A State-of-the-Art Review. *Trees Forests and People* 100275. DOI:
10.1016/j.tfp.2022.100275

De Loyola Eisfeld R. Arce J. E. Sanquetta C. R. & Braz E. M. 2019. Is it forbidden the wood use of *Araucaria angustifolia*? An analysis on the current legal budget. *Floresta* 50(1) 971-982. DOI: <http://dx.doi.org/10.5380/ufv50i1.60023>

De Martino S. 2017. Essays on incentives and pro-environmental behaviour (Doctoral dissertation University of Sussex).

De Mello K. Fendrich A. N. Sparovek G. Simmonds J. S. Maron M. Tavares P. A..... & Metzger J. P. 2021. Achieving private conservation targets in Brazil through restoration and compensation schemes without impairing productive lands. *Environmental Science & Policy* 120 1-10. DOI: 10.1016/j.envsci.2021.02.014

De Melo Celidonio O. L. Werner L. S. & Gil J. D. B. 2019. The determinants of recent soybean expansion in Mato Grosso Brazil. *International Food and Agribusiness Management Review* 22(2) 173-191. DOI: 10.22434/IFAMR2018.0072

De Melo¹ M. D. G. G. & da Silva Medeiros R. *JOURNAL OF SECURITY AND SUSTAINABILITY ISSUES.*

De Mendonça G. C. Costa R. C. A. Parras R. de Oliveira L. C. M. Abdo M. T. V. N. Pacheco F. A. L. & Pissarra T. C. T. 2022. Spatial indicator of priority areas for the implementation of agroforestry systems: An optimization strategy for agricultural landscapes restoration. *Science of The Total Environment* 156185. DOI: 10.1016/j.scitotenv.2022.156185

De Moraes L. A. F. & Floreano I. X. 2022. LULC zoning in the “Madeira river” settlement legal Amazon Brazil before and after implementation of the rural environmental registry (CAR)(2008-2018). *Environmental Development* 43 100725. DOI: 10.1016/j.envdev.2022.100725

De Oliveira A. L. Junior M. G. C. Barros D. A. de Resende A. S. Sansevero J. B. B. Borges L. A. C. ... & de Faria S. M. 2020. Revisiting the concept of “fiscal modules”: implications for restoration and conservation programs in Brazil. *Land Use Policy* 99 104978. DOI: 10.1016/j.landusepol.2020.104978

De Oliveira Silveira E. M. Terra M. D. C. N. S. ter Steege H. Maeda E. E. Júnior F. W. A. & Scolforo J. R. S. 2019. Carbon-diversity hotspots and their owners in Brazilian

southeastern Savanna Atlantic Forest and Semi-Arid Woodland domains. *Forest Ecology and Management* 452 117575. DOI: 10.1016/j.foreco.2019.117575

De Oliveira T. E. de Freitas D. S. Gianezini M. Ruviaro C. F. Zago D. Mércio T. Z.& Barcellos J. O. J. 2017. Agricultural land use change in the Brazilian Pampa Biome: The reduction of natural grasslands. *Land use policy* 63 394-400. DOI: 10.1016/j.landusepol.2017.02.010

De Sousa K. G. R. da Silva Barbalhob M. G. Silvac A. A. Moraesd C. G. & de Castro Peixotoe J. 2019. Preservation areas x environmental legislation in the Rio das Almas hydrographic basin Ceres microregion (GO) between 2008/2016. *Sustentabilidade em Debate* 10(3) 111-133. DOI: 10.18472/SustDeb.v10n3.2019.24072

De Souza A. R. Dupas F. A. & da Silva I. A. 2021. Spatial targeting approach for a payment for ecosystem services scheme in a peri-urban wellhead area in southeastern Brazil. *Environmental Challenges* 5 100206. DOI: 10.1016/j.envc.2021.100206

De Waroux Y. L. P. Garrett R. D. Graesser J. Nolte C. White C. & Lambin E. F. 2019. The restructuring of South American soy and beef production and trade under changing environmental regulations. *World Development* 121 188-202. DOI: 10.1016/j.worlddev.2017.05.034

Delaroche M. L. J. 2019. Policy Change or Values Change? The Evolution of the Environmental Behavior of Large-Scale Soybean Producers in Mato Grosso Brazil (Doctoral dissertation Indiana University).

Delaroche M. Le Tourneau F. M. & Daugeard M. 2022. How vegetation classification and mapping may influence conservation: The example of Brazil's Native Vegetation Protection Law. *Land Use Policy* 122 106380. DOI: 10.1016/j.landusepol.2022.106380

- Demarchi G. Carrilho C. D. Catry T. Atmadja S. & Subervie J. 2022. Beyond reducing deforestation: impacts of conservation programs on household livelihoods (No. Hal-03778384). CEE-M, Universtiy of Montpellier, CNRS, INRA, Montpellier SupAgro.
- Demarchi G. Carrilho C. D. Catry T. Atmadja S. & Subervie J. 2022. Beyond Reducing Deforestation: Impacts of REDD+ projects on Household Livelihoods.
- Deutsch S. 2021. Populist authoritarian neoliberalism in Brazil: making sense of Bolsonaro's anti-environment agenda. *Journal of Political Ecology* 28(1) 823-844.
- Develey P. F. 2021. Bird conservation in Brazil: challenges and practical solutions for a key megadiverse country. *Perspectives in Ecology and Conservation* 19(2) 171-178. DOI: 10.1016/j.pecon.2021.02.005
- Dib V. Nalon M. A. Amazonas N. T. Vidal C. Y. Ortiz-Rodríguez I. A. Daněk J..... & Gomes T. F. 2020. Drivers of change in biodiversity and ecosystem services in the Cantareira System Protected Area: A prospective analysis of the implementation of public policies. *Biota Neotropica* 20. DOI: 10.1590/1676-0611-BN-2019-0915
- Dick M. da Silva M. A. da Silva R. R. F. Ferreira O. G. L. de Souza Maia M. de Lima S. F..... & Dewes H. 2022. Climate change and land use from Brazilian cow-calf production amidst diverse levels of biodiversity conservation. *Journal of Cleaner Production* 342 130941. DOI: 10.1016/j.jclepro.2022.130941
- DiGiano M. Stickler C. & David O. 2020. How Can Jurisdictional Approaches to Sustainability Protect and Enhance the Rights and Livelihoods of Indigenous Peoples and Local Communities?. *Frontiers in Forests and Global Change* 3 40. DOI: 10.3389/ffgc.2020.00040

- Do Carmo B. B. 2017. Market Mechanisms to Compensate for Illegal Deforestation in the Brazilian Amazon and Their Connection to Land Tenure Governance (Doctoral dissertation Stanford University).
- Do Nascimento Lopes E. R. de Souza J. C. Filho J. L. A. & Lourenco R. W. 2021. Ecological-economic zoning as an instrument for the environmental management of hydrographic basins. *Revista Brasileira de Geografia Física* 14(1) 106-125.
- Do Nascimento Souza L. P. Moura D. C. de Lima Marques A. & da Costa C. R. G. 2021. Use and occupation of soil and carcinoculture in the ciliar forest of the Paraíba do Norte river in municipality of Mogeiro/PB Brazil. *Natural Resources* 11(1) 102-109. DOI: 10.6008/CBPC2237-9290.2021.001.0013
- Dockendorff C. Fuss S. Agra R. Guye V. Herrera D. & Kraxner F. 2022. Committed to restoring tropical forests: An overview of Brazil's and Indonesia's restoration targets and policies. *Environmental Research Letters*. DOI: DOI 10.1088/1748-9326/ac8ab2
- Dominguez M. & Coelho M. 2013. Energy policy and forest sustainability: a reflection on the new Brazilian forest code. *Int. J Latest Trends Fin. Eco. Sc.* Vol 3(4) 618.
- Dos Reis T. N. de Faria V. G. Lopes G. R. Sparovek G. West C. Rajão R.& do Valle R. S. 2021. Trading deforestation—why the legality of forest-risk commodities is insufficient. *Environmental Research Letters* 16(12) 124025. DOI: DOI 10.1088/1748-9326/ac358d
- Dos Santos P. P. de Jesus Júnior W. C. de Almeida Telles L. A. de Souza M. H. da Silva S. F. & dos Santos A. R. 2021. Geotechnologies applied to analysis of the rural environmental cadastre. *Land Use Policy* 101 105127. DOI: 10.1016/j.landusepol.2020.105127

- Dos Santos R. C. da Silva Junior C. A. Battirola L. D. & Lima M. 2022. Importance of legislation for maintaining forests on private properties in the Brazilian Cerrado. *Environment Development and Sustainability* 24(3) 3356-3370. DOI: 10.1007/s10668-021-01569-9
- Dubreuil V. Arvor D. Funatsu B. Nédélec V. & de Mello-Théry N. 2021. Climate Change in the Amazon: A Multi-scalar Approach. *Spatial Impacts of Climate Change* 243.
- Dufner K. C. T. 2018. Intention of preserving forest remnants among landowners in the Atlantic Forest: the role of the ecological context and experiences with nature (Doctoral dissertation Universidade de São Paulo).
- Dummett C. A. S. S. I. E. Blundell A. R. T. H. U. R. Canby K. Wolosin M. & Bodnar E. 2021. Illicit harvest complicit goods. *The State of Illegal Deforestation for Agriculture*.
- Edwards R. 2016. Linking REDD+ to support Brazil's climate goals and implementation of the forest code. *Forest Trends Public-Private Co-Finance Initiative Report*.
- Enciso Valencia K. J. Rincon Castillo Á. Ruden D. A. & Burkart S. 2021. Risk reduction and productivity increase through integrating *Arachis pintoi* in cattle production systems in the Colombian Orinoquía. *Frontiers in Sustainable Food Systems* 5 666604. DOI: doi: 10.3389/fsufs.2021.666604
- Engel M. 2016. When money grows on trees-The case of beyond-compliance companies sourcing from the Amazon Rainforest. *IIIEE Master Thesis*.
- Erbaugh J. Bierbaum R. Castilleja G. da Fonseca G. A. & Hansen S. C. B. 2019. Toward sustainable agriculture in the tropics. *World Development* 121 158-162. DOI: 10.1016/j.worlddev.2019.05.002

- Espírito-Santo M. M. D. Rocha A. M. Leite M. E. Silva J. O. Silva L. A. P. & Sanchez-Azofeifa G. A. 2020. Biophysical and socioeconomic factors associated to deforestation and forest recovery in Brazilian tropical dry forests. *Frontiers in Forests and Global Change* 3 569184. DOI: 10.3389/ffgc.2020.569184
- Falkner R. & Buzan B. 2022. *Great Powers Climate Change and Global Responsibilities: A Concluding Assessment*. *Great Powers Climate Change and Global Environmental Responsibilities* 279.
- Faria A. B. D. C. & Luza B. E. P. 2019. Environmental violation assessment in southwestern Paraná from 2009 to 2014. *Biodiversity Int J* 3(6) 241-247.
- Félix-Silva A. V. Oliveira M. M. S. D. & Bezerra L. L. D. S. 2021. Cartography of the struggle and resistance of an artisanal fishing community. *Saúde em Debate* 44 303-315. DOI: 10.1590/0103-11042020E221I
- Feltran-Barbieri R. & Féres J. G. 2021. Degraded pastures in Brazil: improving livestock production and forest restoration. *Royal Society Open Science* 8(7) 201854. DOI: 10.1098/rsos.201854
- Ferguson B. Sekula J. & Szabo I. *Technology Solutions for Supply Chain Traceability in the Brazilian Amazon*.
- Fernandes G. W. Arantes-Garcia L. Barbosa M. Barbosa N. P. Batista E. K. Beiroz W& Silveira F. A. 2020. Biodiversity and ecosystem services in the Campo Rupestre: A road map for the sustainability of the hottest Brazilian biodiversity hotspot. *Perspectives in Ecology and Conservation* 18(4) 213-222. DOI: 10.1016/j.pecon.2020.10.004

- Fernandes-Filho E. I. Schaefer C. E. G. R. Faria R. M. Lopes A. Francelino M. R. & Gomes L. C. 2022. The unique and endangered Campo Rupestre vegetation and protected areas in the Iron Quadrangle Minas Gerais Brazil. *Journal for Nature Conservation* 66 126131. DOI: 10.1016/j.jnc.2022.126131
- Ferrante, L., Andrade, M. B., & Fearnside, P. M. 2021. Land grabbing on Brazil's Highway BR-319 as a spearhead for Amazonian deforestation. *Land use policy*, 108, 105559. DOI: 10.1016/j.landusepol.2021.105559
- Ferraz da Fonseca I. Pereira Lindoso D. & Bursztyn M. 2022. Deforestation (lack of) control in the Brazilian Amazon: from strengthening to dismantling governmental authority (1999-2020). *Sustainability in Debate/Sustentabilidade em Debate* 13(2).
- Ferreira M. E. Silva E. B. Malaquias F. S. S. Teixeira L. M. S. Pascoal L. M. Santos N. B. & Oliveira T. F. (2020 March). Cerrado Knowledge Platform: A Social And Environmental Management Tool To Conserve Brazilian Savannas. In 2020 IEEE Latin American GRSS & ISPRS Remote Sensing Conference (LAGIRS) (pp. 658-662). IEEE. DOI: Doi: 10.1109/LAGIRS48042.2020.9165679
- FG Assis L. F. Ferreira K. R. Vinhas L. Maurano L. Almeida C. Carvalho A..... & Camargo C. 2019. TerraBrasilis: a spatial data analytics infrastructure for large-scale thematic mapping. *ISPRS International Journal of Geo-Information* 8(11) 513. DOI: 10.3390/ijgi8110513
- Figueiredo C. M. & Penna K. N. Contemporary management and protection of intangible heritage in Amazonia: Risks and challenges.
- Figueiredo R. D. O. Cak A. & Markewitz D. 2020. Agricultural impacts on hydrobiogeochemical cycling in the Amazon: Is there any solution?. *Water* 12(3) 763. DOI: 10.3390/w12030763

- Filgueiras G. C. Guilhoto J. J. Imori D. & Azzoni C. R. 2009. Greenhouse gas emissions by agriculture in the Brazilian Amazon. Trabalho apresentado na 24.
- Fiore N. V. Ferreira C. C. Dzedzej M. & Massi K. G. 2019. Monitoring of a seedling planting restoration in a permanent preservation area of the southeast Atlantic forest biome Brazil. *Forests* 10(9) 768. DOI: 10.3390/f10090768
- Fiorini A. C. O. Mullally C. Swisher M. & Putz F. E. 2020. Forest cover effects of payments for ecosystem services: Evidence from an impact evaluation in Brazil. *Ecological Economics* 169 106522. DOI: 10.1016/j.ecolecon.2019.106522
- Flocco C. G. 2020. Toward Sustainable Agri-Food Systems in Brazil. *Science Technology and Innovation for Sustainable Development Goals: Insights from Agriculture Health Environment and Energy* 446.
- Flossmann-Kraus U. 2020. The politics of climate finance in Brazil. How actors and their ideas shape institutions: the case of the Amazon Fund and the ABC Programme for Low-Carbon Agriculture (Doctoral dissertation University of East Anglia).
- Franzoni F. & Semere S. A. 2019. Deforestation in Brazil: an empirical evaluation on the effectiveness of the Soy Moratorium (Master's thesis).
- Freire J. M. Romano I. S. Souza M. V. D. S. C. D. Garofolo A. C. S. & Silveira Filho T. B. 2022. Forest Seedlings Supply for Restoration of the Atlantic Forest in Rio de Janeiro Brazil. *Floresta e Ambiente* 29. DOI: 10.1590/2179-8087-FLORAM-2021-0058
- Freitas F. L. 2017. Brazilian land use policies and the development of ecosystem services (Doctoral dissertation KTH Royal Institute of Technology).

Freitas F. L. Englund O. Sparovek G. Berndes G. Guidotti V. Pinto L. F. & Mörtberg U. 2018.

Who owns the Brazilian carbon?. *Global change biology* 24(5) 2129-2142. DOI:
10.1111/gcb.14011

Freitas F. L. Sparovek G. Berndes G. Persson U. M. Englund O. Barretto A. & Mörtberg U.

2018. Potential increase of legal deforestation in Brazilian Amazon after Forest Act
revision. *Nature Sustainability* 1(11) 665-670. DOI: 10.1038/s41893-018-0171-4

Gallo Barbosa Lima P. 2017. Brazil in the global forest governance: the Brazilian initiative of
developing a national strategy on REDD+ policies.

Gallo P. & Albrecht E. 2019. Brazil and the Paris Agreement: REDD+ as an instrument of
Brazil's Nationally Determined Contribution compliance. *International Environmental
Agreements: Politics Law and Economics* 19(1) 123-144. DOI: 10.1007/s10784-018-
9426-9

Galuchi T. P. D. Rosales F. P. & Batalha M. O. 2019. Management of socioenvironmental
factors of reputational risk in the beef supply chain in the Brazilian Amazon region.
International Food and Agribusiness Management Review 22(2) 155-171. DOI:
10.22434/IFAMR2018.0004

Gameiro M. B. P. Sustainability criteria in international trade in agricultural products.

Gandour C. 2018. *Forest Wars: A Trilogy on Combating Deforestation in the Brazilian
Amazon* (Doctoral dissertation PhD thesis Economics Department Pontifícia
Universidade Católica do Rio de Janeiro (PUC-Rio)).

Garcia A. S. 2017. Dynamics of land use and land cover in the agricultural frontier of the
Brazilian Amazon: driving forces of changes and future scenarios (Doctoral dissertation
Universidade de São Paulo).

- Garcia E. Ramos Filho F. S. V. Mallmann G. M. & Fonseca F. 2017. Costs benefits and challenges of sustainable livestock intensification in a major deforestation frontier in the Brazilian Amazon. *Sustainability* 9(1) 158. DOI: 10.3390/su9010158
- Garcia L. C. Santos J. S. D. Matsumoto M. Silva T. S. F. Padovezi A. Sparovek G. & Hobbs R. J. 2013. Restoration challenges and opportunities for increasing landscape connectivity under the new Brazilian Forest Act. *Natureza & Conservação* 181-+. DOI: <http://dx.doi.org/10.4322/nacton.2013.028>
- Gardella A. A. 2021. The intersectionality of climate change: agriculture development and environmental policy in Brazil (Doctoral dissertation Johns Hopkins University).
- Garrett J. G. Lathuillière M. J. Löfgren P. MacFarquhar C. Meyfroidt P. Suavet C& Gardner T. Using supply chain data to monitor zero deforestation commitments: an assessment of progress in the Brazilian soy 2 sector 3. DOI: 10.1088/1748-9326/ab6497.
- Garrett R. D. 2013. Interactions Between Global Supply Chains Land Use and Governance: The Case of Soybean Production in South America. Stanford University.
- Garrett R. D. Cammelli F. Ferreira J. Levy S. A. Valentim J. & Vieira I. 2021. Forests and sustainable development in the Brazilian Amazon: history trends and future prospects. *Annual Review of Environment and Resources* 46 625-652. DOI: 10.1146/annurev-environ-012220-010228
- Garrett R. D. Grabs J. Cammelli F. Gollnow F. & Levy S. A. 2022. Should payments for environmental services be used to implement zero-deforestation supply chain policies? The case of soy in the Brazilian Cerrado. *World Development* 152 105814. DOI: 10.1016/j.worlddev.2022.105814

- Garrett R. D. Levy S. Carlson K. M. Gardner T. A. Godar J. Clapp J..... & Villoria N. 2019. Criteria for effective zero-deforestation commitments. *Global environmental change* 54 135-147. DOI: 10.1016/j.gloenvcha.2018.11.003
- Gastauer M. Cavalcante R. B. L. Caldeira C. F. & Nunes S. D. S. 2020. Structural Hurdles to Large-Scale Forest Restoration in the Brazilian Amazon. *Frontiers in Ecology and Evolution* 8 593557. DOI: 10.1146/annurev-environ-012220-010228
- Gavlak A. A. & Barrozo L. V. 2022. Market analysis of the relationship between Brazilian Federal Government and the geospatial industry. *Geo-spatial Information Science* 1-20. DOI: 10.1080/10095020.2022.2094288
- Gazola M. G. Bánkuti F. I. de Brito M. M. Prizon R. C. Kuwahara K. C. dos Santos Pozza M. S. & Damasceno J. C. 2018. Development and application of a sustainability assessment model for dairy production systems. *Semina: Ciências Agrárias* 39(6) 2685-2702. DOI: DOI: 10.5433/1679-0359.2018v39n6p2685
- Gebara M. F. & Agrawal A. 2017. Beyond rewards and punishments in the Brazilian Amazon: Practical implications of the REDD+ discourse. *Forests* 8(3) 66. DOI: 10.3390/f8030066
- Gebara M. F. & Thuault A. 2013. GHG mitigation in Brazil's land use sector: an introduction to the current national policy landscape. Washington DC: WRI.
- Gebara M. F. Sills E. May P. & Forsyth T. 2019. Deconstructing the policyscape for reducing deforestation in the Eastern Amazon: Practical insights for a landscape approach. *Environmental Policy and Governance* 29(3) 185-197. DOI: 10.1002/eet.1846

- Gervazio W. Bergamasco S. M. P. P. & Moreno-Calles A. I. 2019. Sustainability and Good Living in the Eyes of Family Farmers Settled in the Amazon North of Mato Grosso Brazil. DOI: doi: 10.20944/preprints201905.0115.v1
- Ghazoul J. & Schweizer D. 2021. Forests for the future: Restoration success at landscape scale- what will it take and what have we learned.
- Gil J. D. B. Reidsma P. Giller K. Todman L. Whitmore A. & van Ittersum M. 2019. Sustainable development goal 2: Improved targets and indicators for agriculture and food security. *Ambio* 48(7) 685-698. DOI: 10.1007/s13280-018-1101-4
- Gil J. Siebold M. & Berger T. 2015. Adoption and development of integrated crop–livestock–forestry systems in Mato Grosso Brazil. *Agriculture ecosystems & environment* 199 394-406. DOI: 10.1016/j.agee.2014.10.008
- Giongo M. Santos M. M. da Silva D. B. Cachoeira J. N. & Santopuoli G. 2022. Climate-Smart Forestry in Brazil. *Climate-Smart Forestry in Mountain Regions* 545.
- Godar J. Suavet C. Gardner T. A. Dawkins E. & Meyfroidt P. 2016. Balancing detail and scale in assessing transparency to improve the governance of agricultural commodity supply chains. *Environmental Research Letters* 11(3) 035015. DOI: DOI 10.1088/1748-9326/11/3/035015
- Gollnow F. 2018. Land use change and land use displacement dynamics in Mato Grosso and Pará Brazilian Amazon.
- Gollnow F. Göpel J. deBarros Viana Hissa L. Schaldach R. & Lakes T. 2018. Scenarios of land-use change in a deforestation corridor in the Brazilian Amazon: combining two scales of analysis. *Regional Environmental Change* 18(1) 143-159. DOI: 10.1007/s10113-017-1129-1

- Goncalves R. V. S. Cardoso J. C. F. Oliveira P. E. Raymundo D. & de Oliveira D. C. 2022. The role of topography climate soil and the surrounding matrix in the distribution of Veredas wetlands in central Brazil. *Wetlands Ecology and Management* 1-19. DOI: 10.1007/s11273-022-09895-z
- Goncalves Sales V. 2019. Essays on the economics and policies of deforestation in Brazil (Doctoral dissertation University of Birmingham).
- Granziera M. L. M. & Rei F. 2013. The Protection of Biomes and the International Commitments and the New Law Brazilian Forest. *Revista de Derecho (Valparaiso)* (XL) 451-474.
- Grasel D. Fearnside P. M. Rovai A. S. Vitule J. R. S. Rodrigues R. R. Mormul R. P..... & Jarenkow J. A. 2019. Brazil's Native Vegetation Protection Law Jeopardizes Wetland Conservation: A Comment on Maltchik et al. *Environmental Conservation* 46(2) 121-123. Disponível em 10.1007/s11273-022-09895-z
- Greschuk L. T. 2022. Potential productive of Brazilian agricultural soils (Doctoral dissertation Universidade de Sao Paulo).
- Grisa K. T. Feiden A. Grisa J. G. D. Roesler M. R. V. B. Hahn K. G. Grandi A. D. & Miranda S. 2019. Environmental Management Practices in Rural Properties. *International Journal of Advanced Engineering Research and Science* 6 286-291. DOI: <https://dx.doi.org/10.22161/ijaers.611.44>
- Guerra A. de Oliveira Roque F. Garcia L. C. Ochoa-Quintero J. M. de Oliveira P. T. S. Guariento R. D. & Rosa I. M. 2020. Drivers and projections of vegetation loss in the Pantanal and surrounding ecosystems. *Land Use Policy* 91 104388. DOI: 10.1016/j.landusepol.2019.104388

- Guerrero J. V. Escobar-Silva E. V. Chaves M. E. Mataveli G. A. Bourscheidt V. De Oliveira G. ... & Moschini L. E. 2020. Assessing Land Use and Land Cover Changes in the Direct Influence Zone of the Braco Norte Hydropower Complex Brazilian Amazonia. *Forests* 11(9) 988. DOI: 10.3390/f11090988
- Guizar-Coutiño A. Jones J. P. Balmford A. Carmenta R. & Coomes D. A. 2022. A global evaluation of the effectiveness of voluntary REDD+ projects at reducing deforestation and degradation in the moist tropics. *Conservation Biology* e13970. DOI: 10.1111/cobi.13970
- Hall S. Sarsfield R. & Walker N. 2015. Investing in Smart Production.
- Hargita Y. Giessen L. & Günter S. 2020. Similarities and differences between international REDD+ and transnational deforestationNAfree supply chain initiatives—a review. *Sustainability* 12(3) 896.
- Heikkurinen P. & Bonnedahl K. J. 2018. A framework for sustainable change. *Strongly Sustainable Societies: Organising Human Activities on a Hot and Full Earth* 150.
- Heilmayr R. Rausch L. L. Munger J. & Gibbs H. K. 2020. Brazil's Amazon soy moratorium reduced deforestation. *Nature Food* 1(12) 801-810. DOI: 10.1038/s43016-020-00194-5
- Henderson B. Frezal C. & Flynn E. 2020. A survey of GHG mitigation policies for the agriculture forestry and other land use sector. DOI: 10.1787/18156797
- Hermansen E. A. McNeill D. Kasa S. & Rajão R. 2017. Co-operation or co-optation? NGOs' roles in Norway's International Climate and Forest Initiative. *Forests* 8(3) 64. DOI: 10.3390/f8030064

- Hernandes T. A. D. de Oliveira Bordonal R. Duft D. G. & Leal M. R. L. V. 2022. Implications of regional agricultural land use dynamics and deforestation associated with sugarcane expansion for soil carbon stocks in Brazil. *Regional Environmental Change* 22(2) 1-15. DOI: 10.1007/s10113-022-01907-1
- Herzberg J. 2019. Protection and profit: Empirical evidence of governmental and Market-based forest policies (No. 01-2019). MAGKS Joint Discussion Paper Series in Economics.
- Heuser S. 2018. The effectiveness of environmental policies on reducing deforestation in the Brazilian Amazon. Boekenplan.
- Hinkes C. V. M. 2021. Sustainability certification for deforestation-free supply chains: the cases of palm oil and soy (Doctoral dissertation Georg-August-Universität Göttingen).
- Hochstetler K. 2022. Brazil: A Boundary Case of Environmental Power. *Great Powers Climate Change and Global Environmental Responsibilities* 116.
- Høie W. 2020. The Brazil-Norway Amazon agreement: A game-theoretic analysis (Master's thesis).
- Hosono A. & Hongo Y. 2016. Cerrado Agriculture and the Environment. In *Development for Sustainable Agriculture* (pp. 114-136). Palgrave Macmillan London. DOI: 10.1057/9781137431356_6
- Hosono A. 2015. Industrial transformation and quality of growth. *Growth is Dead Long Live Growth: The Quality of Economic Growth and Why it Matters* 267-300.
- Hosono A. 2022. Quality Growth Focusing on Environmental Sustainability. In *SDGs Transformation and Quality Growth* (pp. 131-147). Springer Singapore. DOI: 10.1057/9781137431356_6

- Hummel A. C. 2016. Deforestation in the Amazon: What is illegal and what is not?
Deforestation: What is illegal?. *Elementa: Science of the Anthropocene* 4. DOI:
10.12952/journal.elementa.000141
- Initiative C. P. 2013. Production and protection: A first look at key challenges in Brazil. Núcleo
de Avaliação de Políticas Climáticas. PUC Rio de Janeiro.
- Ioris A. A. R. 2020. Frontier Making in the Amazon (pp. 73-100). Cham: Springer.
- Ioris A. A. R. 2020. Introduction: Frontier Thinking and the Amazon Region. In *Frontier
Making in the Amazon* (pp. 1-20). Springer Cham.
- Jagger P. Brockhaus M. Duchelle A. E. Gebara M. F. Lawlor K. Resosudarmo I. A. P. &
Sunderlin W. D. 2014. Multi-level policy dialogues processes and actions: Challenges
and opportunities for national REDD+ safeguards measurement reporting and
verification (MRV). *Forests* 5(9) 2136-2162. DOI: 10.3390/f5092136
- Joly C. A. Scarano F. R. Bustamante M. Gadda T. M. C. Metzger J. P. W. Seixas C. S.&
Santos I. L. D. 2019. Brazilian assessment on biodiversity and ecosystem services:
summary for policy makers. *Biota Neotropica* 19. DOI: 10.1590/1676-0611-BN-2019-
0865.
- Jung S. Rasmussen L. V. Watkins C. Newton P. & Agrawal A. 2017. Brazil's national
environmental registry of rural properties: implications for livelihoods. *Ecological
Economics* 136 53-61. DOI: 10.1016/j.ecolecon.2017.02.004
- Junior C. C. de Souza L. I. Castro J. P. Bakhtary H. Behm K. Cote L. ... & Moron J. C. 2018.
Analysis of the Brazilian beef and soy sectors and the Colombian beef and dairy sectors.
- Jusys T. 2019. Quantitative spatial analysis of deforestation in legal amazon: selected topics.

- Kanashiro Makiya I. & Fraisse C. W. 2015. Sustainability initiatives driving supply chain: Climate governance on beef production system. *Journal of technology management & innovation* 10(1) 21AAA5-224. DOI: <http://dx.doi.org/10.4067/S0718-27242015000100016>
- Kiggell T. 2021. Monitoring extinction: defaunation technology and the biopolitics of conservation in the Atlantic Forest Brazil. *Journal of Political Ecology* 28(1) 845-863.
- King D. Hicks F. Gammie G. Galarreta V. Szott L. Coronel D..... & Leal M. 2016. Towards a Protection-Production Compact for Peru: Elements and Lessons from Global Experience.
- Kleinschmit D. Ferraz Ziegert R. & Walther L. 2021. Framing illegal logging and its governance responses in Brazil—a structured review of diagnosis and prognosis. *Frontiers in Forests and Global Change* 59. DOI: [10.3389/ffgc.2021.624072](https://doi.org/10.3389/ffgc.2021.624072)
- Klingler M. & Mack P. 2020. Post-frontier governance up in smoke? Free-for-all frontier imaginations encourage illegal deforestation and appropriation of public lands in the Brazilian Amazon. *Journal of Land Use Science* 15(2-3) 424-438. DOI: [10.1080/1747423X.2020.1739765](https://doi.org/10.1080/1747423X.2020.1739765)
- Klingler M. Richards P. D. & Ossner R. 2018. Cattle vaccination records question the impact of recent zero-deforestation agreements in the Amazon. *Regional Environmental Change* 18(1) 33-46. DOI: [10.1007/s10113-017-1234-1](https://doi.org/10.1007/s10113-017-1234-1)
- Knobel J. C. 2017. The Harpy Eagle and the Amazon rainforest in Brazilian federal law—thoughts on environmental law and the conservation of birds of prey and their habitat. *De Jure Law Journal* 50(2) 204-220. DOI: <http://dx.doi.org/10.17159/2225-7160/2017/v50n2a1>

- Kraham S. J. 2017. Environmental impacts of industrial livestock production. In *International Farm Animal Wildlife and Food Safety Law* (pp. 3-40). Springer Cham. DOI: 10.1007/978-3-319-18002-1_1
- Kröger M. 2017. Inter-sectoral determinants of forest policy: the power of deforesting actors in post-2012 Brazil. *Forest Policy and Economics* 77 24-32. DOI: 10.3389/ffgc.2021.62407210.1016/j.forpol.2016.06.003
- Kruid S. 2020. Factors that impact conversion of native vegetation in Brazil's agricultural frontier Matopiba.
- Kruijt B. von Randow C. Good P. Meesters A. Verboom J. Kay G. ... & Sampaio G. 2014. A blueprint for an early warning for critical transition system in Amazonia. EU-AMAZALERT Delivery report 5.1-3. Grant agreement no: 282664. Alterra Wageningen-UR.
- L'Roe J. Rausch L. Munger J. & Gibbs H. K. 2016. Mapping properties to monitor forests: Landholder response to a large environmental registration program in the Brazilian Amazon. *Land Use Policy* 57 193-203. DOI: 10.1016/j.landusepol.2016.05.029
- Lambin E. F. Gibbs H. K. Heilmayr R. Carlson K. M. Fleck L. C. Garrett R. D & Walker N. F. 2018. The role of supply-chain initiatives in reducing deforestation. *Nature Climate Change* 8(2) 109-116. DOI: 10.1038/s41558-017-0061-1
- Larson A. M. Barletti J. P. S. & Vigil N. H. 2022. A place at the table is not enough: Accountability for Indigenous Peoples and local communities in multi-stakeholder platforms. *World Development* 155 105907. DOI: 10.1016/j.worlddev.2022.105907

Latawiec A. E. Strassburg B. B. Kemel Kalif F. Barros R. F. B. Alves-Pinto H. & Cordeiro M. 2015. 9 Sustainability Indicators In Brazilian Cattle Ranching. Sustainability Indicators in Practice 160.

Latawiec A. E. Strassburg B. B. Silva D. Alves-Pinto H. N. Feltran-Barbieri R. Castro A.....& Beduschi F. 2017. Improving land management in Brazil: A perspective from producers. Agriculture Ecosystems & Environment 240 276-286. DOI: 10.1016/j.agee.2017.01.043

Laudares S. S. D. A. Borges L. A. C. Ávila P. A. D. Oliveira A. L. D. Silva K. G. D. & Laudares D. C. D. A. 2017. Agroforestry as a sustainable alternative for environmental regularization of rural consolidated occupations. Cerne 23 161-174. DOI: 10.1590/01047760201723022240

Laudares S. S. D. A. Borges L. A. C. Rezende J. L. P. D. Bicalho M. L. & Barros V. C. C. D. 2019. New Contours of the Native Vegetation Protection Law of 2012. Floresta e Ambiente 26. DOI: 10.1590/2179-8087.061216

Lee D. Pistorius T. Laing T. Bauche P. Conway D. Streck C. ... & Asare R. A. 2015. The impacts of international REDD+ finance.

Leite Filho A. T. 2019. Impacts of deforestation on the Southern Amazon rainy season. DOI: 10.1002/joc.6335

Leite L. H. Barros V. C. C. D. Monteiro M. E. C. Moras Filho L. O. & Borges L. A. C. 2020. Permanent preservation areas in Mantiqueira sierra: perspectives for regularization along watercourses. Revista Ambiente & Água 15. DOI: 10.4136/ambi-agua.2422

- LEITE M. D. S. SILVA JUNIOR J. A. D. CALABONI A. & Igari A. T. 2020. Socioeconomic factors and native vegetation cover in rural lands in São Paulo State Brazil. *Ambiente & Sociedade* 23. DOI: 10.1590/1809-4422asoc20170309r3vu2020L1AO
- Lindgreen A. Hingley M. K. Angell R. J. Memery J. & Vanhamme J. 2017. *A Stakeholder Approach to Managing Food*. London: Routledge.
- Londres M. Larson A. M. & Barletti J. P. 2021. The costs of elite-oriented multi-stakeholder forums to address deforestation: the case of the Green Municipalities Program in the Brazilian Amazon. *International Forestry Review* 23(1) 76-89. DOI: 10.1505/146554821833466112
- Louzada R. O. Bergier I. Diniz J. M. D. S. Guerra A. & Roque F. D. O. 2022. Priority setting for restoration in surrounding savannic areas of the Brazilian Pantanal based on soil loss risk and agrarian structure. *Journal of Environmental Management* 323 116219. DOI: 10.1016/j.jenvman.2022.116219
- Louzada R. O. Bergier I. Roque F. O. McGlue M. M. Silva A. & Assine M. L. 2021. Avulsions drive ecosystem services and economic changes in the Brazilian Pantanal wetlands. *Current Research in Environmental Sustainability* 3 100057. DOI: 10.1016/j.crsust.2021.100057
- L'Roe J. E. 2016. *Land investment and land access trends among smallholders near tropical forests: Implications for conservation and development*. The University of Wisconsin-Madison.
- Luiz C. H. P. & Steinke V. A. 2022. Recent Environmental Legislation in Brazil and the Impact on Cerrado Deforestation Rates. *Sustainability* 14(13) 8096. DOI: 10.3390/su14138096

- Luttrell C. Loft L. Gebara M. F. Kweka D. Brockhaus M. Angelsen A. & Sunderlin W. D. 2013. Who should benefit from REDD+? Rationales and realities. *Ecology and Society* 18(4). DOI: <https://dx.doi.org/10.5751/ES-05834-180452>
- Lyons-White J. Jespersen K. Gallemore C. Catalano A. S. Ewers R. M. & Knight A. T. 2021. Tackling the “wicked” conservation problem of tropical deforestation in global commodity supply chains using mixes of mechanisms.
- Macqueen D. Bolin A. & Greijmans M. 2015. Democratising forest business.
- Magdalena U. R. Goncalves de Souza G. B. & Amorim R. R. 2022. Spatial analysis guiding decision making in environmental conservation: Systematic conservation planning and ecosystem services. *Progress in Physical Geography: Earth and Environment* 03091333221112409. DOI: 10.1177/03091333221112409
- Maguire-Rajpaul V. A. Galuchi T. Nery Alves Pinto H. & McDermott C. 2016. How Brazil's sustainable cattle schemes could beef up to conserve forests and sustainable rural livelihoods. CCAFS Working Paper.
- Mammadova A. Behagel J. & Masiero M. 2020. Making deforestation risk visible. Discourses on bovine leather supply chain in Brazil. *Geoforum* 112 85-95. DOI: 10.1016/j.geoforum.2020.03.008
- Marques M. C. Calvi G. P. Pritchard H. W. & Ferraz I. D. K. 2022. Behind the forest restoration scene: a sócio-economic technical-scientific and political snapshot in Amazonas Brazil. *Acta Amazonica* 52 1-12. DOI: 10.1590/1809-4392202100372
- Martin P. Hamman E. Coutinho G. L. & Leuzinger M. D. 2020. Biodiversity intelligence from satellites. In *Achieving Biodiversity Protection in Megadiverse Countries* (pp. 148-167). Routledge.

- Mataveli G. A. Pereira G. Chaves M. E. Cardozo F. D. S. Stark S. C. Shimabukuro Y. E.& Chen J. M. 2021. Deforestation and land use and land cover changes in protected areas of the Brazilian Cerrado: Impacts on the fire-driven emissions of fine particulate aerosols pollutants. *Remote Sensing Letters* 12(1) 79-92. DOI: 10.1080/2150704X.2021.1875147
- Mataveli G. de Oliveira G. Chaves M. E. Dalagnol R. Wagner F. H. Ipia A. H.....& Aragão L. E. 2022. Science-based planning can support law enforcement actions to curb deforestation in the Brazilian Amazon. *Conservation Letters* e12908. DOI: 10.1111/conl.12908
- Matos P. F. D. 2020. Groundwater: geological legal social and ethical challenges of a unique natural resource: in memoriam Professor Luís Ribeiro (IST-U. Lisbon). In Book of Abstracts of the Geoethics & Groundwater Management Congress (pp. 107-109). Grupo Português da Associação Internacional de Hidrogeólogos (GP| AIH).
- Matos P. S. da Silva C. F. Pereira M. G. da Silva E. M. R. Tarré R. M. Franco A. L. C. & Zonta E. 2022. Short-term modifications of mycorrhizal fungi glomalin and soil attributes in a tropical agroforestry. *Acta Oecologica* 114 103815. DOI: 10.1016/j.actao.2022.103815
- May L. C. C. Ferreira R. M. Neto A. B. & Mourão E. S. B. 2021. The Repercussion of the Brazilian Forest Code in the Small Property of Family Agriculture. *International Journal of Advanced Engineering Research and Science* 8 2. DOI: <https://dx.doi.org/10.22161/ijaers.82.20>
- May P. H. Bernasconi P. Wunder S. & Lubowski R. 2015. Environmental reserve quotas in Brazil's new forest legislation: an ex ante appraisal (Vol. 131). CIFOR.
- May P. H. Millikan B. & Gebara M. F. 2011. The context of REDD+ in Brazil. Drivers agents and institutions. Bogor Indonesia: CIFOR.

- May P. H. Valuing externalities of cattle and soy-maize systems in the Brazilian Amazon.
- McFarland B. J. 2017. Conservation of tropical rainforests: A review of financial and strategic solutions.
- McFarland B. J. 2018. Payments for ecosystem services. In Conservation of Tropical Rainforests (pp. 337NA429). Palgrave Macmillan Cham.
- McFarland B. J. 2018. Tax Deductions and Conservation Easements. In Conservation of Tropical Rainforests (pp. 185-240). Palgrave Macmillan Cham.
- McKain W. L. 2018. Commissioner Success in Rural Planning: A Factor Analysis (Doctoral dissertation Northcentral University).
- Mello D. & Schmink M. (2017 November). Amazon entrepreneurs: Women's economic empowerment and the potential for more sustainable land use practices. In Women's Studies International Forum (Vol. 65 pp. 28-36). Pergamon. DOI: 10.1016/j.wsif.2016.11.008
- Mello K. D. Brites A. Borges-Matos C. Tavares P. A. Metzger J. P. Rodrigues R. R& Sparovek G. 2022. Science and environmental policy establishment: the case of the Forest Act in the State of São Paulo Brazil. *Biota Neotropica* 22.
- Mello-Théry N. A. D. de Lima Caldas E. Funatsu B. M. Arvor D. & Dubreuil V. 2020. Climate Change and Public Policies in the Brazilian Amazon State of Mato Grosso: Perceptions and Challenges. *Sustainability* 12(12) 5093. DOI: 10.3390/su12125093
- Melo M. D. G. G. D. Medeiros R. D. S. Sampaio P. D. T. B. & Vieira G. 2018. Sustainability issues: riparian vegetation and its importance in the hydrological cycle in Amazonian ecosystems. Volume 7 Número 4 Pags. 861-868.

- Melo P. T. N. B. D. & Bellen H. M. V. 2021. Institutional dimension for sustainable development: the relationship of organic and conventional cotton farming with government. *Revista de Economia e Sociologia Rural* 60. DOI: 10.1590/1806-9479.2021.224662
- Mendonca G. C. D. Oliveira L. C. Parras R. Costa R. C. A. Abdo M. T. V. N. Pacheco F. & Pissarra T. C. T. Spatial Indicator of Priority Areas for the Implementation of Agroforestry Systems in Semi-Deciduous Tropical Forest: An Optimization Strategy for Ecological Recovery and Payment for Environmental Services. Available at SSRN 4051268. DOI: <http://dx.doi.org/10.2139/ssrn.4051268>
- Meyer C. & Miller D. 2015. Zero deforestation zones: The case for linking deforestation-free supply chain initiatives and jurisdictional REDD+. *Journal of Sustainable Forestry* 34(6-7) 559-580. DOI: 10.1080/10549811.2015.1036886
- Miccolis A. de Andrade R. M. T. & Pacheco P. 2014. Land-use trends and environmental governance policies in Brazil: Paths forward for sustainability (Vol. 171). CIFOR.
- Mier y Terán Giménez Cacho M. 2016. Soybean agri-food systems dynamics and the diversity of farming styles on the agricultural frontier in Mato Grosso Brazil. *The Journal of Peasant Studies* 43(2) 419-441. DOI: 10.1080/03066150.2015.1016917
- Milhorance C. Bursztyn M. & Sabourin E. 2020. From policy mix to policy networks: Assessing climate and land use policy interactions in Mato Grosso Brazil. *Journal of environmental policy & planning* 22(3) 381-396. DOI: 10.1080/1523908X.2020.1740658
- Milhorance C. Le Coq J. F. Sabourin E. Andrieu N. Mesquita P. Cavalcante L. & Nogueira D. 2022. A policy mix approach for assessing rural household resilience to climate shocks:

Insights from Northeast Brazil. *International Journal of Agricultural Sustainability* 20(4) 675-691. DOI: 10.1080/14735903.2021.1968683

Milhorance C. Sabourin E. & Mendes P. Implementation and coordination of climate change adaptation policies in Bahia and Pernambuco semi-arid regions.

Milhorance C. Sabourin E. Mendes P. & Le-Coq J. F. (2019 June). Adaptation to climate change and policy interactions in Brazil's semiarid region. In 4th International Conference on Public Policies ICPP.

Milhorance C. Sabourin E. Mendes P. & LeNACoq J. F. (2019 June). Adaptation to climate change and policy interactions in Brazil's semiarid region. In 4th International Conference on Public Policies ICPP.

Milhorance C. Sabourin E. Mendes P. & Le-Coq J. F. 2019. Policy Integration for Boundary-Spanning Policy Problems: Climate Change Mitigation and Adaptation Policy Adaptation to climate change and policy interactions in Brazil's semiarid region. In *Conférence Internationale de Politiques Publiques*.

Moessa de Souza L. 2018. Civil Liability of Financial Institutions for Socio-Environmental Damages. *Veredas do Direito* 15 357.

Moffette F. & Gibbs H. K. 2021. Agricultural displacement and deforestation leakage in the Brazilian Legal Amazon. *Land Economics* 97(1) 155-179. DOI: 10.3368/wple.97.1.040219-0045R

Monzoni M. Belinky A. & Vendramini A. 2014. The Brazilian financial system and the green economy: alignment with sustainable development.

- Moraes I. Azevedo-Ramos C. & Pacheco J. 2021. Public forests under threat in the Brazilian Amazon: Strategies for coping shifts in environmental policies and regulations. *Frontiers in Forests and Global Change* 45. DOI: 10.3389/ffgc.2021.631756
- Moreira da Silva A. P. Schweizer D. Rodrigues Marques H. Cordeiro Teixeira A. M. Nascente dos Santos T. V. Sambuichi R. H. ... & Brancalion P. H. 2017. Can current native tree seedling production and infrastructure meet an increasing forest restoration demand in Brazil?. *Restoration Ecology* 25(4) 509-515. DOI: 10.1111/rec.12470
- Moro L. D. Maculan L. S. Pivoto D. Cardoso G. T. Pinto D. Adelodun B & Neckel A. 2022. Geospatial Analysis with Landsat Series and Sentinel-3B OLCI Satellites to Assess Changes in Land Use and Water Quality over Time in Brazil. *Sustainability* 14(15) 9733. DOI: 10.3390/su14159733
- Moz-Christofolletti M. A. Pereda P. C. & Campanharo W. 2022. Does Decentralized and Voluntary Commitment Reduce Deforestation? The Effects of Programa Municípios Verdes. *Environmental and Resource Economics* 82(1) 65-100. DOI: 10.1007/s10640-022-00659-0
- Mozzer G. B. & Sampaio M. J. A. Climate change: global national and institutional contexts. *Climate Action* 13.
- Mullan K. Caviglia-Harris J. L. & Sills E. O. 2021. Sustainability of agricultural production following deforestation in the tropics: Evidence on the value of newly-deforested long-deforested and forested land in the Brazilian Amazon. *Land Use Policy* 108 105660. DOI: 10.1016/j.landusepol.2021.105660
- Müller C. 2020. Brazil and the Amazon Rainforest. Deforestation Biodiversity and Cooperation.

- Müller-Hansen F. Heitzig J. Donges J. F. Cardoso M. F. Dalla-Nora E. L. Andrade P.& Thonicke K. 2019. Can intensification of cattle ranching reduce deforestation in the Amazon? Insights from an agent-based social-ecological model. *Ecological Economics* 159 198-211. DOI: 10.1016/j.ecolecon.2018.12.025
- Nascimento E. D. S. Silva S. S. D. Bordignon L. Melo A. W. F. D. Brandao Jr A. Souza Jr C. M. & Silva Junior C. H. 2021. Roads in the Southwestern Amazon State of Acre between 2007 and 2019. *Land* 10(2) 106. DOI: 10.3390/land10020106
- Nascimento N. West T. A. Börner J. & Ometto J. 2019. What drives intensification of land use at agricultural frontiers in the Brazilian Amazon? Evidence from a decision game. *Forests* 10(6) 464. DOI: 10.3390/f10060464
- Neckel A. Maculan L. S. Muller L. Ceolin D. Clivatti J. C. Toscan P. ... & Kujawa H. A. 2020. Changes in Rural Areas of the City of Carazinho (RS) between 2001 and 2020: A Temporal Analysis Using Landsat TM-7 and TM-8 Images. *Journal of Civil Engineering and Architecture* 14 402-408. DOI: doi: 10.17265/1934-7359/2020.02.007
- Neeff T. & FAO Team. 2020. Better data better decisions: Towards impactful forest monitoring. FAO Rome.
- Negra C. 2014. Integrated national policy approaches to climate-smart agriculture. Insights from Brazil Ethiopia and New Zealand. CCAFS Report.
- Negra C. Vermeulen S. Barioni L. G. Mamo T. Melville P. & Tadesse M. 2014. Brazil Ethiopia and New Zealand lead the way on climate-smart agriculture. *Agriculture & Food Security* 3(1) 1-6. DOI: 10.1186/s40066-014-0019-8

- Nepstad D. McGrath D. Stickler C. Alencar A. Azevedo A. Swette B.& Hess L. 2014. Slowing Amazon deforestation through public policy and interventions in beef and soy supply chains. *science* 344(6188) 1118-1123. DOI: DOI: 10.1126/science.1248525
- Neves E. M. S. C. 2012. Environmental policy municipalities and intergovernmental cooperation in Brazil. *estudos avancados* 26 137-150. DOI: 10.1590/S0103-40142012000100010
- Neves E. M. S. C. 2016. INSTITUTIONS AND ENVIRONMENTAL GOVERNANCE IN BRAZIL: THE LOCAL GOVERNMENTS' PERSPECTIVE. *Revista de Economia Contemporânea* 20 492-516. DOI: 10.1590/198055272035
- Neves F. M. Alvarez G. Corrêa F. F. & Silva J. B. L. D. 2022. Drivers of vulnerability to climate change in the southernmost region of Bahia (Brazil). *Sociedade & Natureza* 34. DOI: 10.14393/SN-v34-2022-62222
- Niemeyer J. Barros F. S. Silva D. S. Crouzeilles R. & Vale M. M. 2020. Planning forest restoration within private land holdings with conservation co-benefits at the landscape scale. *Science of the Total Environment* 717 135262. DOI: 10.1016/j.scitotenv.2019.135262
- Noojipady P. Morton C. D. Macedo N. M. Victoria C. D. Huang C. Gibbs K. H. & Bolfe L. E. 2017. Forest carbon emissions from cropland expansion in the Brazilian Cerrado biome. *Environmental Research Letters* 12(2) 025004. DOI: DOI 10.1088/1748-9326/aa5986
- Okida D. T. S. de Carvalho Júnior O. A. Ferreira de Carvalho O. L. Gomes R. A. T. & Guimarães R. F. 2021. Relationship between Land Property Security and Brazilian Amazon Deforestation in the Mato Grosso State during the Period 2013–2018. *Sustainability* 2021 13 2085. DOI: 10.3390/su13042085

- Oliveira A. D. A. D. 2020. A GIS approach to sustainable livestock planning from carbon dynamics analysis: case study of a cattle ranch in Serra da Mantiqueira (Brazil) (Doctoral dissertation).
- Oliveira A. L. D. Borges L. A. C. Coelho Junior M. G. Barros D. A. D. & Coelho Junior L. M. 2020. Forest replacement in Brazil: A fundamental policy for forestry. *Floresta e Ambiente* 27. DOI: 10.1590/2179-8087.002118
- Oliveira E. C. D. Does the Rural Environmental Registry [RER] Contribute to Regional Sustainability? An Analysis from the Perspective of Actors Involved in the Process: Study in the Municipalities of the Assis-SP Mesoregion.
- Oliveira Fiorini A. C. Swisher M. & Putz F. E. 2020. Payment for environment services to promote compliance with Brazil's Forest Code: The Case of "Produtores de Água e Floresta". *Sustainability* 12(19) 8138. DOI: 10.3390/su12198138
- Oliveira G. D. C. 2016. Automated mapping of permanent preservation areas on hilltops. *Cerne* 22 111-120. DOI: 10.1590/01047760201622012100
- Pacheco P. Bakhtary H. Camargo M. Donofrio S. Drigo I. & Mithöfer D. 2018. The private sector. *Transforming REDD* 161. DOI: 10.17528/cifor/007045
- Pacheco R. Rajão R. Soares-Filho B. & HOFF R. V. D. 2017. Regularization of legal reserve debts: Perceptions of rural producers in the state of Pará and Mato Grosso in Brazil. *Ambiente & Sociedade* 20 181-200. DOI: 10.1590/1809-4422ASOC0012R1V2022017
- Pacheco R. Rajão R. Van der Hoff R. & Soares-Filho B. 2021. Will farmers seek environmental regularization in the Amazon and how? Insights from the Rural Environmental Registry (CAR) questionnaires. *Journal of Environmental Management* 284 112010. DOI: 10.1016/j.jenvman.2021.112010

- Padovezi Filleti R. A. 2019. Unveiling a greener world: assessing foresting commitments and projects about their economic and mitigation potentials.
- Paim M. A. 2021. Zero deforestation in the Amazon: The Soy Moratorium and global forest governance. *Review of European Comparative & International Environmental Law* 30(2) 220-232. DOI: 10.1111/reel.12408
- Parras R. de Mendonca G. C. Araújo Costa R. C. Pissarra T. C. T. Valera C. A. Fernandes L. F. S. & Leal Pacheco F. A. 2020. The Configuration of Forest Cover in Ribeirão Preto: A Diagnosis of Brazil's Forest Code Implementation. *Sustainability* 12(14) 5686. DOI: 10.3390/su12145686
- Parron L. M. Villanueva A. J. & Glenk K. 2022. Estimating the value of ecosystem services in agricultural landscapes amid intensification pressures: The Brazilian case. *Ecosystem Services* 57 101476. DOI: 10.1016/j.ecoser.2022.101476
- Pascoal L. M. L. Parente L. L. Nogueira H. S. & Júnior L. G. F. (2020 March). Deforestation Polygon Assessment Tool: Providing Comprehensive Information On Deforestation In The Brazilian Cerrado Biome. In 2020 IEEE Latin American GRSS & ISPRS Remote Sensing Conference (LAGIRS) (pp. 428-433). IEEE. DOI: DOI: 10.1109/LAGIRS48042.2020.9165580
- Patrício M. B. Ferreira J. H. D. & do Couto E. V. 2019. The context of the size and distance of Atlantic Forest fragments in a small city in Southern Brazil. *Acta Scientiarum. Biological Sciences* 41 e46936-e46936. DOI: 10.4025/actascibiolsci.v41i1.46936
- Pede A. C. 2021. Soybean expansion in the Brazilian Amazon: direct and indirect impacts of the Soy Moratorium (Doctoral dissertation Universidade de Sao Paulo).

- PEREIRA D. G. D. S. P. PANARELLI E. A. PINHEIRO L. D. S. GONCALVES A. V. & PEREIRA L. D. P. 2017. Environmental protection areas: the case of the Bebedouro stream watershed. *Ambiente & Sociedade* 20 105-126. DOI: 10.1590/1809-4422ASOC20150047R2V2012017
- Pereira–IPEA R. M. The Use of Information Technology in Environmental Management: The Case of PPCDAM.
- Pessoa A. C. M. Carvalho N. S. Junior C. S. Xaud H. A. Selaya G. Lombardi R. R.....& Bilbao B. 2020. Fire probability in South American Protected Areas Brazilian Settlements and Rural Properties in the Brazilian Amazon.
- Piao R. S. Saes M. S. M. Silva V. L. & Bronzatto F. B. 2021. Shaping the sustainable supply chain of organic milk in Brazil. *Journal of Cleaner Production* 297 126688. DOI: 10.1016/j.jclepro.2021.126688
- Piazza G. A. Vibrans A. C. Liesenberg V. & Refosco J. C. 2016. Object-oriented and pixel-based classification approaches to classify tropical successional stages using airborne high-spatial resolution images. *GIScience & Remote Sensing* 53(2) 206-226. DOI: 10.1080/15481603.2015.1130589
- Piazzon R. S. 2017. The Role of Financial Institutions in Brazil in Fostering Impact Businesses and Combating Climate Change.
- Picoli M. C. & Machado P. G. 2021. Land use change: The barrier for sugarcane sustainability. *Biofuels Bioproducts and Biorefining* 15(6) 1591-1603. DOI: 10.1002/bbb.2270
- Piketty M. G. Pocard-Chapuis R. Garcia Drigo I. Gomes M. O. & Pacheco P. 2017. Zero deforestation commitments in the Brazilian Amazon: Progress limits and proposal for a jurisdictional approach. IASC.

- Pinheiro S. M. Emberson C. & Trautrim A. 2019. 'For the English to see' or effective change? How supply chains are shaped by laws and regulations and what that means for the exposure of modern slavery. *Journal of the British Academy* 7(s1). DOI: 10.5871/jba/007s1.167
- Pinillos Cifuentes D. A. Bianchi F. J. Pocard-Chapuis R. Corbeels M. Tittonell P. & Schulte R. 2020. Understanding landscape multifunctionality in a post-forest frontier: Supply and demand of ecosystem services in Eastern Amazonia. DOI: 10.3389/fenvs.2019.00206
- Pinillos D. 2021. Perspectives for multifunctional landscapes in the Amazon: Analyzing farmers' strategies perceptions and scenarios in an agricultural frontier (Doctoral dissertation Wageningen University and Research).
- Pinillos D. Bianchi F. J. Pocard-Chapuis R. Corbeels M. Tittonell P. & Schulte R. P. 2020. Understanding landscape multifunctionality in a post-forest frontier: supply and demand of ecosystem services in eastern Amazonia. *Frontiers in Environmental Science* 7 206. DOI: 10.3389/fenvs.2019.00206
- Pinto D. M. Oliveira P. D. Fachini Minitti A. Mansur Mendes A. Freitas Vilela G. Castro G. S. A. ... & Stachetti Rodrigues G. 2021. Impact assessment of information and communication technologies in agriculture: application of the ambitec-TICs method. *Journal of technology management & innovation* 16(2) 91-101. DOI: <http://dx.doi.org/10.4067/S0718-27242021000200091>
- Pocewicz A. & Garcia E. 2016. Deforestation facilitates widespread stream habitat and flow alteration in the Brazilian Amazon. *Biological Conservation* 203 252-259. DOI: 10.1016/j.biocon.2016.09.032
- Pokorny, B., Pacheco, P., de Jong, W., & Entenmann, S. K. 2021. Forest frontiers out of control: The long-term effects of discourses, policies, and markets on conservation and

development of the Brazilian Amazon. *Ambio*, 50(12), 2199-2223. DOI:
10.3389/fenvs.2019.00206

Polizel S. P. Vieira R. M. D. S. P. Pompeu J. da Cruz Ferreira Y. de Sousa-Neto E. R. Barbosa
A. A. & Ometto J. P. H. B. 2021. Analysing the dynamics of land use in the context of
current conservation policies and land tenure in the Cerrado–MATOPIBA region
(Brazil). *Land use policy* 109 105713. DOI: 10.1016/j.landusepol.2021.105713

Ponce S. Mena-Campoverde C. Proaño J. S. Álvarez-Barreto J. F. Aguirre F. Quintana D. T. ...
& Streitwieser D. A. 2022. Proposal of a regulatory framework for bioenergy
implementation in a unified agricultural code for Ecuador. *Biofuels bioproducts and
biorefining*. DOI: 10.1002/bbb.2355

Porfírio N. B. Fonseca A. R. & Fonseca A. P. 2018. Awareness of rural producers regarding the
LR and PPA in Divinópolis MG Brazil. *Floresta e Ambiente* 25. DOI: 10.1590/2179-
8087.007016

Porro R. & Porro N. S. M. 2022. State-led social and environmental policy failure in a
Brazilian forest frontier: Sustainable Development Project in Anapu Pará. *Land Use
Policy* 114 105935. DOI: 10.1016/j.landusepol.2021.105935

Power A. G. 2010. Ecosystem services and agriculture: tradeoffs and synergies. *Philosophical
transactions of the royal society B: biological sciences* 365(1554) 2959-2971. DOI:
10.1098/rstb.2010.0143

Prado R. B. Fidalgo E. C. C. Monteiro J. M. G. Schuler A. E. Vezzani F. M. Garcia J. R.&
Simões M. 2016. Current overview and potential applications of the soil ecosystem
services approach in Brazil. *Pesquisa Agropecuária Brasileira* 51 1021-1038. DOI:
10.1590/S0100-204X2016000900002

- Product F. & Muradian R. 2014. Analysis and Strategy of Economic Instruments and of a Payment for Environmental Services System for Categories 1 & 2 in the Roundtable on Responsible Soy (RTRS) Mapping.
- Quijiano G. & Junior M. K. A. 2022. Environmental degradation in Brazil—Legal and policy gaps.
- Quintana Grove R. 2020. Understanding Relationships Between Agriculture and Native Vegetation: A Quantitative Multi-Context Analysis in the Alto Paranapanema Region of Brazil (Master's thesis).
- Rabbani R. M. R. Narezi G. Rabbani A. R. C. & Rabbani E. R. K. 2020. The Socioenvironmental Function of Rural Property: Building a New Proposal for the Resolution of Land Disputes in the South of the State Bahia Brazil. *Revista Catalana de Dret Ambiental*, 11(2).
- Rachmawati T. S. N. 2018. Impact of Priority and Protected Areas on Deforestation in Brazilian Legal Amazon.
- Raedig C. Hissa H. Schlüter S. Sattler D. & Nehren U. 2019. Rural Rio de Janeiro: Over the Hills and Far Away?. In *Strategies and Tools for a Sustainable Rural Rio de Janeiro* (pp. 493-503). Springer, Cham. DOI: 10.1007/978-3-319-89644-1_31
- Rajão R. & Soares-Filho B. INSIGHTS.
- Ramos Nardy J. 2022. Perception of Farmers on Reforestation of the Brazilian Atlantic Forest—The case from the Alto Paranapanema Watershed (Master's thesis).
- Ransom P. & Ribeiro G. 2018. Terminal Evaluation of the UN Environment/GEF Project: Mitigation Options of GHG Emissions in Key Sectors in Brazil.

- Rasmussen L. V. & Jepsen M. R. 2018. Monitoring systems to improve forest conditions. *Current Opinion in Environmental Sustainability*, 32, 29-37. DOI: 10.1016/j.cosust.2018.03.011
- Rasmussen L. V. Jung S. Brites A. D. Watkins C. & Agrawal A. 2017. Understanding smallholders' intended deforestation behavior in the Brazilian Cerrado following environmental registry. *Environmental Research Letters*, 12(9), 094001. DOI: DOI 10.1088/1748-9326/aa7ee5
- Rau F. 2019. Potential for Joint Public and Private Initiatives to Eliminate Deforestation from Global Supply Chains. In *Sustainable Global Value Chains* (pp. 673-688). Springer, Cham. DOI: 10.1007/978-3-319-14877-9_36
- Rausch L. 2013. Environmental governance as a development strategy: the case of Lucas do Rio Verde Legal (Doctoral dissertation University of Kansas).
- Ravikumar A. Larson A. Duchelle A. Myers R. & Tovar J. G. 2015. Multilevel governance challenges in transitioning towards a national approach for REDD+: evidence from 23 subnational REDD+ initiatives. *International Journal of the Commons*, 9(2). DOI: <http://doi.org/10.18352/ijc.593>
- Razzaque J. Visseren-Hamakers I. Gautam A. P. Gerber L. Islar M. Karim M. S..... & Williams M. 2019. Options for decision makers. Global assessment report on biodiversity and ecosystem services of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. DOI: DOI: 10.5281/zenodo.3832107
- Reydon B. Molendijk M. Porras N. & Siqueira G. 2021. The Amazon Forest Preservation by Clarifying Property Rights and Potential Conflicts: How Experiments Using Fit-for-Purpose Can Help. *Land* 10(2), 225. DOI: 10.3390/land10020225

- Reydon B. P. 2019. Challenges of current land governance in Brazil: Beyond the historical political and social demands for land reform. In *Agricultural Development in Brazil* (pp. 208-227). Routledge.
- Ribeiro de Morais Giannichi M. L. 2019. Empirical and spatial analysis of tradable permits in private forest conservation (Doctoral dissertation University of Leeds).
- Richit L. A. Richit J. F. Bonatto C. da Silva R. V. & Grzybowski J. M. V. 2021. Forest recovery prognostics in conservation units of the Atlantic rainforest. *Ecological Informatics* 61, 101199. DOI: 10.1016/j.ecoinf.2020.101199
- Rink P. 2018. Regulating the trees for the forest: how Indonesia and Brazil attempt to reduce deforestation through forestry policy. *J. Animal & Env'tl. L.*, 10, 41.
- Rode J. Pinzon A. Stabile M. C. Pirker J. Bauch S. Iribarrem A. ... & Wittmer H. 2019. Why 'blended finance' could help transitions to sustainable landscapes: Lessons from the Unlocking Forest Finance project. *Ecosystem Services* 37 100917. DOI: 10.1016/j.ecoser.2019.100917
- Rodrigues N. M. L. Massi K. G. Mantovani J. R. A. & de Alcântara E. H. 2022. Allocation of legal reserves of the paper and pulp company Suzano SA based on territorial planning in São Paulo state Brazil. *Environmental Challenges* 7 100518. DOI: 10.1016/j.envc.2022.100518
- Rodrigues, T. F., Pasqualotto, N., do Carmo Pônzio, M., & Garcia, A. 2019. 6. Forest edge density positively affects the occurrence of naked-tailed armadillos (*Cabassous* sp.) in sugarcane dominated landscapes. "Luiz de Queiroz" College of Agriculture Center for Nuclear Energy in Agriculture, 141.

- Roitman I. Vieira L. C. G. Jacobson T. K. B. da Cunha Bustamante M. M. Marcondes N. J. S. Cury K. ... & Avila M. L. 2018. Rural Environmental Registry: An innovative model for land-use and environmental policies. *Land use policy*, 76 95-102. DOI: 10.1016/j.landusepol.2018.04.037
- Rorato A. C. Picoli M. C. Verstegen J. A. Camara G. Silva Bezerra F. G. & Escada M. I. S. 2021. Environmental threats over Amazonian indigenous lands. *Land* 10(3) 267. DOI: 10.3390/land10030267
- Rosa R. M. & Ferreira V. D. O. 2022. Proposal of environmental zoning for watersheds: application in the Water Resources Planning and Management Unit from Low Paranaíba River Minas Gerais State Brazil. *GEOUSP* 26. DOI: 10.11606/issn.2179-0892.geousp.2022.180525.en
- Rovani I. L. Decian V. S. Zanin E. M. Brandalise M. Quadros F. R. & Hepp L. U. 2020. Socioeconomic changes and land use and land cover of the Northern Region of Rio Grande do Sul Brazil. *Floresta e Ambiente* 27. DOI: 10.1590/2179-8087.025818
- Ruaro R. Alves G. H. Z. Tonella L. Ferrante L. & Fearnside P. M. 2022. Loosening of environmental licensing threatens Brazilian biodiversity and sustainability. *DIE ERDE—Journal of the Geographical Society of Berlin* 153(1) 60-64. DOI: 10.12854/erde-2022-614
- Rudolph F. Adisorn T. Amon E. Munoz Barriga M. R. Shrestha S. Xia-Bauer C. & Davydova A. 2021. Urban environmental protection international: stock-taking and outlook; final report.
- Russo G. 2017. Deforestation in Brazil's Amazon-Based Settlements: A Socio-Ecological Approach.

- Saad-Diniz E. & Gianecchini J. V. 2021. Regulatory Rollbacks in the Amazon Rainforest: A Nuanced Look into the Effects of Environmental Victimization. *State Crime Journal* 10(2) 257-283. DOI: Doi: 10.2307/j50005552
- Salomão C. D. S. C. Lima L. S. D. & Rajão R. G. L. 2022. Willingness to adopt voluntary and compulsory forest restoration practices by rural landowners in the central Rio Doce basin-MG. *Ambiente & Sociedade* 25. DOI: 10.1590/1809-4422asoc20200085r3vu2022L1AO
- Sano E. E. Rodrigues A. A. Martins E. S. Bettiol G. M. Bustamante M. M. Bezerra A. S. & Bolfe E. L. 2019. Cerrado ecoregions: A spatial framework to assess and prioritize Brazilian savanna environmental diversity for conservation. *Journal of environmental management* 232 818-828. DOI: 10.1016/j.jenvman.2018.11.108
- Sánchez L. E. Alger K. Alonso L. Barbosa F. Brito M. C. W. Laureano F. V..... & Kakabadse Y. 2018. Impacts of the Fundão Dam failure. A Pathway to Sustainable and resilient Mitigation.
- Sant'Anna A. A. & Costa L. 2019. Bailing out environmental liabilities: moral hazard and deforestation in the Brazilian Amazon.
- Santana C. A. M. & Gasques J. G. 2019. 3 Agricultural development in Brazil. *Agricultural Development in Brazil: The Rise of a Global Agro-food Power* 46.
- Santana C. A. M. & Gasques J. G. 2019. Agricultural development in Brazil: the role of agricultural policies. In *Agricultural Development in Brazil* (pp. 46-69). Routledge.
- Sant'Anna A. A. & Costa L. 2021. Environmental regulation and bail outs under weak state capacity: deforestation in the Brazilian Amazon. *Ecological Economics* 186 107071. DOI: 10.1016/j.ecolecon.2021.107071

- Santiago T. M. O. Caviglia-Harris J. & de Rezende J. L. P. 2018. Carrots sticks and the Brazilian Forest Code: the promising response of small landowners in the Amazon. *Journal of Forest Economics* 30 38-51. DOI: 10.1016/j.jfe.2017.12.001
- Santos C. O. D. Mesquita V. V. Parente L. L. Pinto A. D. S. & Ferreira Jr L. G. 2022. Assessing the Wall-to-Wall Spatial and Qualitative Dynamics of the Brazilian Pasturelands 2010–2018 Based on the Analysis of the Landsat Data Archive. *Remote Sensing* 14(4) 1024. DOI: 10.3390/rs14041024
- Santos V. N. D. Costa T. M. C. D. & Arifa J. M. 2017. Brazilian Federal Court of Accounts (TCU) Department of Agriculture and Environmental Audit: Soil Governance Audit. In *International Yearbook of Soil Law and Policy 2016* (pp. 347-363). Springer Cham. DOI: 10.1007/978-3-319-42508-5_21
- Scarpelin J. Herculano L. M. L. Dias L. C. P. & Chume V. F. 2020. Dam collapse and right to adequate housing: insights from the biggest sócio-environmental disaster involving Brazilian mining sector. *Research Society and Development* 9(4) e80942517.
- Schilling-Vacaflor A. 2021. Integrating Human Rights and the Environment in Supply Chain Regulations. *Sustainability* 13(17) 9666. DOI: 10.3390/su13179666
- Schmitt J. Garcia J. Ribeiro J. M. P. & Andrade Guerra J. B. S. O. D. 2016. The Performance of Brazilian government toward sustainability in the context of RIO+ 20 (United nations conference on sustainable development): an analysis of the Brazilian programs and the importance of education for sustainability. In *Challenges in Higher Education for Sustainability* (pp. 119-146). Springer Cham. DOI: 10.1007/978-3-319-23705-3_5
- Schneider M. Biedzicki de Marques A. A. & Peres C. A. 2021. Brazil's Next Deforestation Frontiers. *Tropical Conservation Science* 14 19400829211020472. DOI: 10.1177/19400829211020472

- Schroth G. Garcia E. Griscom B. W. Teixeira W. G. & Barros L. P. 2016. Commodity production as restoration driver in the Brazilian Amazon? Pasture re-agro-forestation with cocoa (*Theobroma cacao*) in southern Pará. *Sustainability Science* 11(2) 277-293. DOI: 10.1007/s11625-015-0330-8
- Schwaida S. F. Cicerelli R. Almeida T. Sano E. E. Pires C. H. & Ramos A. P. M. 2022. Defining priorities areas for biodiversity conservation and trading forest certificates in the Cerrado biome in Brazil. DOI: 10.21203/rs.3.rs-1871254/v2
- Schwaida S. F. Cicerelli R. E. Almeida T. D. & Roig H. L. 2018. Challenges and strategies on implementing an ecological corridor between protected areas in cerrado biome. *Revista Árvore* 41. DOI: 10.1590/1806-90882017000600011
- Schwartzman S. 2015. Acre: low-emissions high-growth sustainable development in the Amazon. Environmental Defense Fund Washington DC.
- Schweizer D. Meli P. Brancalion P. H. & Guariguata M. R. 2021. Implementing forest landscape restoration in Latin America: Stakeholder perceptions on legal frameworks. *Land Use Policy* 104 104244. DOI: 10.1016/j.landusepol.2019.104244
- Secco L. Padovezi P. A. & Sanches J. H. Where is the Innovation in the Brazilian Atlantic forest restoration initiatives? A preliminary study.
- Seixas H. Valente F. Bochner J. & Bianchini L. RPPNs and forest restoration: history incentives and case studies. *10 YEARS IN SUPPORT OF BIODIVERSITY CONSERVATION* 73.
- Serrano A. M. 2022. The treatment dispensed to the typical forest of the Atlantic Forest biome inserted in the Cerrado biome. *Floresta* 52(2) 213-221. DOI: <http://dx.doi.org/10.5380/rf.v52i2.64259>

- Sharrock S. Hoft R. & Dias B. F. D. S. 2018. An overview of recent progress in the implementation of the Global Strategy for Plant Conservation-a global perspective. *Rodriguésia* 69 1489-1511. DOI: 10.1590/2175-7860201869401
- Shyamsundar P. Cohen F. Boucher T. M. Kroeger T. Erbaugh J. T. Waterfield G..... & Zhang X. 2022. Scaling smallholder tree cover restoration across the tropics. *Global Environmental Change* 76 102591. DOI: 10.1016/j.gloenvcha.2022.102591
- Siegmund-Schultze M. 2021. A multi-method approach to explore environmental governance: a case study of a large densely populated dry forest region of the neotropics. *Environment Development and Sustainability* 23(2) 1539-1562. DOI: 10.1007/s10668-020-00635-y
- Silva D. S. D. 2021. Farmland expansion and temperature fluctuations in dry areas of the Cerrado biome (Doctoral dissertation).
- Silva E. R. A. D. C. 2019. 2030 Agenda: SDG–national targets of sustainable development goals.
- Silva F. D. F. Perrin R. K. & Fulginiti L. E. 2019. The opportunity cost of preserving the Brazilian Amazon forest. *Agricultural Economics* 50(2) 219-227.
- Silva Junior C. H. Aragão L. E. Anderson L. O. Fonseca M. G. Shimabukuro Y. E. Vancutsem C. ... & Saatchi S. S. 2020. Persistent collapse of biomass in Amazonian forest edges following deforestation leads to unaccounted carbon losses. *Science Advances* 6(40) eaaz8360. DOI: 10.1126/sciadv.aaz8360
- Silva L. G. D. Mendonca B. A. F. D. Silva E. M. R. D. & Francelino M. R. 2018. Atlantic Forest scenarios under the parameters of forestry laws. *Ciência e Agrotecnologia* 42 21-32. DOI: 10.1590/1413-70542018421003417

- Silva M. H. M. & Silva F. L. 2022. Characterization of geospatial morphometric and environmental dynamics of the mariana microbasin in alta florestanamt brazil. *Engenharia Agrícola* 42.
- Silveira R. M. F. da Silva V. J. Ferreira J. dos Santos Fontenelle R. O. Vega W. H. O. Sales D. C. ... & de Vasconcelos A. M. 2022. Diversity in smallholder dairy production systems in the Brazilian semiarid region: Farm typologies and characteristics of raw milk and water used in milking. *Journal of Arid Environments* 203 104774. DOI: 10.1016/j.jaridenv.2022.104774
- Similä J. & Primmer E. 2012. Legal analysis of the relationship between European state aid and nature conservation law and economic instruments for biodiversity protection. *Policy* 1009(D6) 2.
- Simonet G. Subervie J. Ezzine-de-Blas D. Cromberg M. & Duchelle A. E. 2019. Effectiveness of a REDD+ project in reducing deforestation in the Brazilian Amazon. *American Journal of Agricultural Economics* 101(1) 211-229. DOI: 10.1093/ajae/aay028
- Simonet G. Subervie J. Ezzine-de Blas D. Cromberg M. & Duchelle A. (2017 June). Paying smallholders not to cut down the Amazon forest: Impact evaluation of a REDD+ pilot project. In 21. Annual Conference of the Society for Institutional & Organizational Economics (pp. 35-p).
- Siqueira M. N. & de Faria K. M. S. 2019. Analysis of the landscape dynamics in the municipality of Rio Verde Goiás Brazil: a tool to choose priority areas for conservation. *Sociedade & Natureza* 31. DOI: 10.14393/SN-v31-2019-38832
- Siqueira-Gay J. Yanai A. M. Lessmann J. Pessoa A. C. M. Borja D. Canova M. & Borges R. C. 2020. Pathways to positive scenarios for the Amazon forest in Pará state Brazil. *Biota Neotropica* 20. DOI: 10.1590/1676-0611-BN-2019-0905

- Siswanto K. D. 2022. Economic Overview of Bolsonaro's Authoritarian Neoliberalist Development Strategy in Brazil (Doctoral dissertation Central European University).
- Skidmore M. E. Moffette F. Rausch L. Christie M. Munger J. & Gibbs H. K. 2021. Cattle ranchers and deforestation in the Brazilian Amazon: Production location and policies. *Global Environmental Change* 68 102280. DOI: 10.1016/j.gloenvcha.2021.102280
- Smith P. Gregory P. J. Van Vuuren D. Obersteiner M. Havlík P. Rounsevell M..... & Bellarby J. 2010. Competition for land. *Philosophical Transactions of the Royal Society B: Biological Sciences* 365(1554) 2941-2957. DOI: 10.1098/rstb.2010.0127
- Soares-Filho B. Rajão R. Macedo M. Carneiro A. Costa W. Coe M. ... & Alencar A. 2014. Cracking Brazil's forest code. *Science* 344(6182) 363-364. DOI: DOI: 10.1126/science.1246663
- Sotirov M. Azevedo-Ramos C. Rattis L. & Berning L. 2022. Policy options to regulate timber and agricultural supply-chains for legality and sustainability: The case of the EU and Brazil. *Forest Policy and Economics* 144 102818. DOI: 10.1016/j.forpol.2022.102818
- Sousa J. A. P. D. Lopes E. R. D. N. Souza J. C. D. & Lourenco R. W. 2022. Land use changes and estimates of anthropogenic CO₂ emissions in a watershed. *Sociedade & Natureza* 32 249-264. DOI: 10.14393/SN-v32-2020-44054
- Sparovek G. Antoniazzi L. B. Barretto A. Barros A. C. Benevides M. Berndes G. & Precioso V. 2016. Sustainable bioproducts in Brazil: disputes and agreements on a common ground agenda for agriculture and nature protection. *Biofuels Bioproducts and Biorefining* 10(3) 204-221. DOI: 10.1002/bbb.1636
- Stabile M. C. Garcia A. S. Salomão C. S. Bush G. Guimarães A. L. & Moutinho P. 2022. Slowing deforestation in the Brazilian Amazon: avoiding legal deforestation by

compensating farmers and ranchers. *Frontiers in Forests and Global Change* 228. DOI: 10.3389/ffgc.2021.635638

Stefanes M. de Oliveira Roque F. Lourival R. Melo I. Renaud P. C. & Quintero J. M. O. 2018. Property size drives differences in forest code compliance in the Brazilian Cerrado. *Land Use Policy* 75 43-49. DOI: 10.1016/j.landusepol.2018.03.022

Stefanes M. Ochoa-Quintero J. M. de Oliveira Roque F. Sugai L. S. M. Tambosi L. R. Lourival R. & Laurance S. 2016. Incorporating resilience and cost in ecological restoration strategies at landscape scale. *Ecology and Society* 21(4).

Steinweg T. Gerard R. & Thoumi G. 2018. Cargill: Zero-Deforestation Approach Leaves Room for Land Clearing in Brazil's Maranhão. *Chain Reaction Research* 1-18.

Stickler C. M. Nepstad D. C. Azevedo A. A. & McGrath D. G. 2013. Defending public interests in private lands: compliance costs and potential environmental consequences of the Brazilian Forest Code in Mato Grosso. *Philosophical Transactions of the Royal Society B: Biological Sciences* 368(1619) 20120160. DOI: 10.1098/rstb.2012.0160

Stuart-Smith R. F. Clarke B. J. Harrington L. J. & Otto F. E. L. 2021. Global Climate Change Impacts Attributable to Deforestation driven by the Bolsonaro Administration Expert report for submission to the International Criminal Court.

Stuchi J. F. Hernández D. G. de Andrade A. G. Monteiro J. M. & Hissa H. R. 2021. Analysis of Brazilian public policies which aim to support participatory construction of the National Plan for Soil and Water Sustainable Management. *Land Degradation & Development* 32(12) 3443-3456. DOI: 10.1002/ldr.3860

- Stuchi J. Gallar D. Andrade A. Monteiro J. & Hissa H. 2020. Brazilian public policies analysis to support the participatory construction of the National Plan for Soil and Water Sustainable Management. Authorea Preprints.
- Sunderlin W. D. de Sassi C. Sills E. O. Duchelle A. E. Larson A. M. Resosudarmo I. A. P.& Huynh T. B. 2018. Creating an appropriate tenure foundation for REDD+: The record to date and prospects for the future. *World Development* 106 376-392. DOI: 10.1016/j.worlddev.2018.01.010
- Sunderlin W. D. Ekaputri A. D. Sills E. O. Duchelle A. E. Kweka D. Diprose R..... & Toniolo A. 2014. The challenge of establishing REDD+ on the ground: Insights from 23 subnational initiatives in six countries (Vol. 104). CIFOR.
- Sunderlin W. D. Sills E. O. Duchelle A. E. Ekaputri A. D. Kweka D. Toniolo M. A..... & Otsyina R. M. 2015. REDD+ at a critical juncture: assessing the limits of polycentric governance for achieving climate change mitigation. *International Forestry Review* 17(4) 400-413. DOI: 10.1505/146554815817476468
- Svahn J. & Brunner D. 2018. Did the Soy Moratorium reduce deforestation in the Brazilian Amazon?: a counterfactual analysis of the impact of the Soy Moratorium on deforestation in the Amazon Biome (Master's thesis).
- Tacconi L. Rodrigues R. J. & Maryudi A. 2019. Law enforcement and deforestation: Lessons for Indonesia from Brazil. *Forest policy and economics* 108 101943. DOI: 10.1016/j.forpol.2019.05.029
- Tavares P. A. 2021. Spatial and temporal analysis of native vegetation coverage for compliance with the New Forest Act (Doctoral dissertation Universidade de Sao Paulo).

- Tavares P. A. Brites A. D. Sparovek G. Guidotti V. Cerignoni F. Aguiar D& Molin P. G. 2019. Unfolding additional massive cutback effects of the native vegetation protection law on legal reserves Brazil. *Biota Neotropica* 19. DOI: 10.1590/1676-0611-BN-2018-0658
- Tavares P. A. Brites A. Guidotti V. Molin P. G. de Mello K. dos Santos Z. L.& Sparovek G. 2021. Testing temporal benchmarks effects on the implementation of the new Brazilian Forest Act. *Environmental Science & Policy* 126 213-222. DOI: 10.1016/j.envsci.2021.09.024
- Tengberg A. & Valencia S. 2017. *Science of Integrated Approaches to Natural Resources Management. A STAP Information Document. Global Environment Facility Washington DC.*
- Territories A. B. Adams C. & Brondizio E. S. *OSTROM WORKSHOP RESEARCH SERIES PAPER.*
- Thaler G. M. 2017. The land sparing complex: Environmental governance agricultural intensification and state building in the Brazilian Amazon. *Annals of the American Association of Geographers* 107(6) 1424-1443. DOI: 10.1080/24694452.2017.1309966
- Tisler T. R. Teixeira F. Z. & Nobrega R. A. 2022. Conservation opportunities and challenges in Brazil's roadless and railroad-less areas. *Science advances* 8(9) eabi5548. DOI: DOI: 10.1126/sciadv.abi5548
- Toni F. Villarroel L. C. & Bueno B. T. 2014. 11 State governments and forest policy. *Environmental Politics in Latin America: Elite dynamics the left tide and sustainable development.*

- Toni F. Villarroel L. C. & Bueno B. T. 2014. State governments and forest policy: a new elite in the Brazilian Amazon?. In *Environmental Politics in Latin America* (pp. 208-223). Routledge.
- Torinelli V. H. & Martínez-Jaramillo S. Central Banks in Latin America: Actions for Sustainability Including Mitigation and Adaptation Policies for Climate-Related Risks. Paving the way for greener central banks. *Current trends and future developments* 111.
- Tornquist C. G. & Broetto T. 2017. Protection of the soil resource in the Brazilian environmental legislation. In *Global Soil Security* (pp. 397-401). Springer Cham. DOI: 10.1007/978-3-319-43394-3_36
- Vacchiano M. C. Santos J. W. Angeoletto F. & Silva N. M. 2019. Do data support claims that Brazil leads the world in environmental preservation?. *Environmental Conservation* 46(2) 118-120. DOI: 10.1017/S0376892918000371
- Vale P. Gibbs H. Vale R. Christie M. Florence E. Munger J. & Sabaini D. 2019. The expansion of intensive beef farming to the Brazilian Amazon. *Global Environmental Change* 57 101922. DOI: 10.1016/j.gloenvcha.2019.05.006
- Valette M. Kountouris Y. Sterrantino A. F. Woods J. & Mills M. 2022. Spatially explicit analysis of sócio-ecological drivers of fires regimes in the Brazilian Amazon from 2011-2020. DOI: 10.31223/X5TS8T
- VAN DAM J. I. N. K. E. VAN DEN HOMBERGH H. E. L. E. E. N. & Hilders M. 2019. An analysis of existing laws on forest protection in the main soy producing countries in Latin America.
- Van der Hoff J. A. 2019. The contested role of financial instruments in Brazilian forest governance (Doctoral dissertation [SI: sn]).

- Van der Hoff R. Rajão R. & Leroy P. 2018. Clashing interpretations of REDD+ “results” in the Amazon Fund. *Climatic Change* 150(3) 433-445. DOI: 10.1007/s10584-018-2288-x
- Vasconcelos A. Bernasconi P. Guidotti V. Silgueiro V. Valdiones A. Carvalho T..... & Guedes Pinto L. F. 2020. Illegal deforestation and Brazilian soy exports: the case of Mato Grosso. *TRASE* June.
- Vatn A. Angelsen A. McNeill D. & Trædal L. T. 2013. Options for National REDD+ Architectures. Report from the Conference (29-31 May 2013).
- VE R. & RC U. 2017. Land rights beef commodity chains and deforestation dynamics in the Paraguayan Chaco.
- Verdasca S. & Ranieri V. E. L. 2021. Benefits and barriers of public transparency in Rural Environmental Registry data. *Ambiente & Sociedade* 24. DOI: 10.1590/1809-4422asoc20200041r1vu2021L5AO
- Verdum R. Gamboa C. & Bebbington A. J. 2018. Assessment and Scoping of Extractive Industries and Infrastructure in Relation to Deforestation: Amazonia.
- Vieira I. C. G. Gardner T. Ferreira J. Lees A. C. & Barlow J. 2014. Challenges of governing second-growth forests: A case study from the Brazilian Amazonian State of Pará. *Forests* 5(7) 1737-1752. DOI: 10.3390/f5071737
- Vieira I. C. Toledo P. M. D. & Roberto S. O. 2016. The socioecological implications of land use and landscape change in the Brazilian Amazon. In *Interactions Between Biosphere Atmosphere and Human Land Use in the Amazon Basin* (pp. 441-462). Springer Berlin Heidelberg. DOI: 10.1007/978-3-662-49902-3_18

- Vieira L. M. Hoppe A. & Schneider L. C. 2016. Multi-stakeholder initiative for sustainable beef production standards. In *A Stakeholder Approach to Managing Food* (pp. 35-46). Routledge.
- Villar P. C. & Granziera M. L. M. 2019. *Water Law in the Light of Governance*.
- Vischi Filho O. J. Yoshikatsu Kanno O. Mikio Arabori R. Bernardoni Caldas J. F. Barros Penteadó R. Menegucci Scachetti E. A. ... & Carvalho T. 2021. Twelve years of soil preservation and rehabilitation on the Rio do Peixe watershed: promoting conservation agriculture. *Land Degradation & Development* 32(12) 3431-3442. DOI: 10.1002/ldr.3834
- Vischi Filho O. Kanno O. Arabori R. Caldas J. F. Penteadó R. Scachetti E. A..... & Camargo M. 2020. Agricultural Defense of Sao Paulo: twelve years of soil preservation and rehabilitation at Rio do Peixe watershed promoting conservation agriculture. *Authorea Preprints*. DOI: DOI: 10.22541/au.158274570.07210282
- Walker N. F. Patel S. A. & Kalif K. A. 2013. From Amazon pasture to the high street: deforestation and the Brazilian cattle product supply chain. *Tropical Conservation Science* 6(3) 446-467. DOI: 10.1177/194008291300600309
- West T. A. Börner J. & Fearnside P. M. 2019. Climatic benefits from the 2006–2017 avoided deforestation in Amazonian Brazil. *Frontiers in Forests and Global Change* 2 52. DOI: 10.3389/ffgc.2019.00052
- West T. A. Börner J. Sills E. O. & Kontoleon A. 2020. Overstated carbon emission reductions from voluntary REDD+ projects in the Brazilian Amazon. *Proceedings of the National Academy of Sciences* 117(39) 24188-24194.

- Wiedmann S. M. P. & Guagliardi R. Private Natural Heritage Reserve (RPPN): private conservation units in Brazil. 10 YEARS IN SUPPORT OF BIODIVERSITY CONSERVATION 11.
- Wilkinson J. Escher F. & Garcia A. 2022. The Brazil-China nexus in agrofood: What is at stake in the future of the animal protein sector. *International Quarterly for Asian Studies* 53(2) 251-277. DOI: DOI: 10.11588/iqas.2022.2.13950
- Witness G. Yin D. & Elias P. 2013. The Global Canopy Programme is a tropical forest think tank working to demonstrate the scientific political and business case for safeguarding forests as natural capital that underpins water food energy health and climate security for all.
- Yanai A. M. de Alencastro Graca P. M. L. Ziccardi L. G. Escada M. I. S. & Fearnside P. M. 2022. Brazil's Amazonian deforestation: the role of landholdings in undesignated public lands. *Regional Environmental Change* 22(1) 1-14. DOI: 10.1007/s10113-022-01897-0
- Yanai Nascimento A. M. 2020. Deforestation actors: patterns and simulation of deforestation on a cattle ranching frontier in the State of Amazonas.
- Young C. E. F. & Castro B. S. 2021. Financing mechanisms to bridge the resource gap to conserve biodiversity and ecosystem services in Brazil. *Ecosystem Services* 50 101321. DOI: 10.1016/j.ecoser.2021.101321
- Young C. E. F. & Castro B. S. D. 2021. Financing conservation in the Brazilian Atlantic forest. In *The Atlantic Forest* (pp. 451-468). Springer Cham. DOI: 10.1007/978-3-030-55322-7_21

- Zart Daiello C. & Rempel C. 2020. Permanent Preservation Areas scenarios in dairy farms in the Vale do Taquari against the Forest Code. *Sustainability in Debate/Sustentabilidade em Debate* 11(1). DOI: doi:10.18472/SustDeb.v11n1.2020.26753
- Zeferino L. B. Gomes L. C. Fernandes-Filho E. I. & Oliveira T. S. 2021. Environmental conservation policy can bend the trend of future forest losses in the oriental Amazon. *Regional Environmental Change*, 21(2) 1-11. DOI: 10.1007/s10113-021-01787-x
- Zhang L. & Schwärzel K. (2019 October). Reinforce Water and Climate Co-benefits in Actions to Control Soil Erosion. In *GLOBAL SYMPOSIUM ON SOIL EROSION* (p. 458).
- Zimbres B. Machado R. B. & Peres C. A. 2018. Anthropogenic drivers of headwater and riparian forest loss and degradation in a highly fragmented southern Amazonian landscape. *Land use policy* 72 354-363. DOI: 10.1016/j.landusepol.2017.12.062
- Zu Ermgassen E. K. Alcântara M. P. D. Balmford A. Barioni L. Neto F. B. Bettarello M. M. ... & Latawiec A. 2018. Results from on-the-ground efforts to promote sustainable cattle ranching in the Brazilian Amazon. *Sustainability* 10(4) 1301. DOI: 10.3390/su10041301
- Zu Ermgassen E. K. de Alcântara M. P. Balmford A. Barioni L. Neto F. B. Bettarello M. M. ... & Latawiec10 A. 2017. Lessons from initiatives increasing cattle productivity in the Brazilian Amazon.