Tiago M D Domingos

List of Publications by Year
in descending order

90 papers	2,989 citations	172457 29 h-index	182427 51 g-index
91 all docs	91 docs citations	91 times ranked	3226 citing authors

#	Article	IF	Citations
1	Using Satellite NDVI Time-Series to Monitor Grazing Effects on Vegetation Productivity and Phenology in Heterogeneous Mediterranean Forests. Remote Sensing, 2022, 14, 2322.	4.0	3
2	A Comprehensive Societal Energy Return on Investment Study of Portugal Reveals a Low but Stable Value. Energies, 2022, 15, 3549.	3.1	2
3	Evaluation of Near Infrared Spectroscopy (NIRS) for Estimating Soil Organic Matter and Phosphorus in Mediterranean Montado Ecosystem. Sustainability, 2021, 13, 2734.	3.2	4
4	Spatiotemporal Patterns of Pasture Quality Based on NDVI Time-Series in Mediterranean Montado Ecosystem. Remote Sensing, 2021, 13, 3820.	4.0	14
5	Global process-based characterization factors of soil carbon depletion for life cycle impact assessment. Scientific Data, 2021, 8, 237.	5.3	2
6	Exploring the links between total factor productivity and energy efficiency: Portugal, 1960â€“2014. Energy Economics, 2021, 101, 105407.	12.1	22
7	It's a keeper: Valuing the carbon storage service of Agroforestry ecosystems in the context of CAP Eco-Schemes. Land Use Policy, 2021, 109, 105712.	5.6	11
8	The use of machine learning methods to estimate aboveground biomass of grasslands: A review. Ecological Indicators, 2021, 130, 108081.	6.3	54
9	Estimating soil organic carbon of sown biodiverse permanent pastures in Portugal using near infrared spectral data and artificial neural networks. Geoderma, 2021, 404, 115387.	5.1	12
10	Mapping and Assessment of Ecosystems Services under the Proposed MAES European Common Framework: Methodological Challenges and Opportunities. Land, 2021, 10, 1040.	2.9	3
11	Minimizing direct greenhouse gas emissions in livestock production: The need for a metabolic theory. Ecological Modelling, 2020, 434, 109259.	2.5	3
12	Food systems in a zero-deforestation world: Dietary change is more important than intensification for climate targets in 2050. Science of the Total Environment, 2020, 735, 139353.	8.0	65
13	Object-Based Classification Approaches for Multitemporal Identification and Monitoring of Pastures in Agroforestry Regions using Multispectral Unmanned Aerial Vehicle Products. Remote Sensing, 2020, 12, 814.	4.0	16
14	Moving Toward a Strategy for Addressing Climate Displacement of Marine Resources: A Proof-of-Concept. Frontiers in Marine Science, 2020, 7, .	2.5	19
15	Current Practice and Future Perspectives for Livestock Production and Industrial Ecology. Sustainability, 2019, 11, 4210.	3.2	1
16	Detailed global modelling of soil organic carbon in cropland, grassland and forest soils. PLoS ONE, 2019, 14, e0222604.	2.5	49
17	Remotely sensed indicators and open-access biodiversity data to assess bird diversity patterns in Mediterranean rural landscapes. Scientific Reports, 2019, 9, 6826.	3.3	16
18	Insights from Past Trends in Exergy Efficiency and Carbon Intensity of Electricity: Portugal, 1900â€“2014. Energies, 2019, 12, 534.	3.1	1

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19	â€œBalSimâ€• A Carbon, Nitrogen and Greenhouse Gas Mass Balance Model for Pastures. Sustainability, 2019, 11, 53.	3.2	16
20	The land morphology concept and mapping method and its application to mainland Portugal. Geoderma, 2018, 325, 72-89.	5.1	15
21	Useful Exergy Is Key in Obtaining Plausible Aggregate Production Functions and Recognizing the Role of Energy in Economic Growth: Portugal 1960â€“2009. Ecological Economics, 2018, 148, 103-120.	5.7	35
22	Transportation Infrastructure Project Evaluation: Transforming CBA to Include a Life Cycle Perspective. World Sustainability Series, 2018, , 745-771.	0.4	5
23	Characterizing Livestock Production in Portuguese Sown Rainfed Grasslands: Applying the Inverse Approach to a Process-Based Model. Sustainability, 2018, 10, 4437.	3.2	14
24	A Practical Comparison of Regionalized Land Use and Biodiversity Life Cycle Impact Assessment Models Using Livestock Production as a Case Study. Sustainability, 2018, 10, 4089.	3.2	15
25	Carbon Footprint of Milk from Pasture-Based Dairy Farms in Azores, Portugal. Sustainability, 2018, 10, 3658.	3.2	32
26	The Way Forward in Quantifying Extended Exergy Efficiency. Energies, 2018, 11, 2522.	3.1	2
27	The Effects on Greenhouse Gas Emissions of Ecological Intensification of Meat Production with Rainfed Sown Biodiverse Pastures. Sustainability, 2018, 10, 4184.	3.2	23
28	The AmP project: Comparing species on the basis of dynamic energy budget parameters. PLoS Computational Biology, 2018, 14, e1006100.	3.2	135
29	Consolidating Regionalized Global Characterization Factors for Soil Organic Carbon Depletion Due to Land Occupation and Transformation. Environmental Science & Technology, 2018, 52, 12436-12444.	10.0	7
30	Modeling Soil Water Dynamics and Pasture Growth in the Montado Ecosystem Using MOHID Land. Water (Switzerland), 2018, 10, 489.	2.7	16
31	A proposal for using process-based soil models for land use Life cycle impact assessment: Application to Alentejo, Portugal. Journal of Cleaner Production, 2018, 192, 864-876.	9.3	22
32	The universality and the future prospects of physiological energetics. Physics of Life Reviews, 2017, 20, 78-84.	2.8	6
33	A step toward regionalized scaleâ€consistent agricultural life cycle assessment inventories. Integrated Environmental Assessment and Management, 2017, 13, 939-951.	2.9	14
34	The Need for Robust, Consistent Methods in Societal Exergy Accounting. Ecological Economics, 2017, 141, 11-21.	5.7	41
35	Three-level decoupling of energy use in Portugal 1995â€“2010. Energy Policy, 2017, 108, 134-142.	8.8	28
36	The multi-factor energy inputâ€“output model. Energy Economics, 2017, 61, 261-269.	12.1	44

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37	The N-P-K soil nutrient balance of Portuguese cropland in the 1950s: The transition from organic to chemical fertilization. Scientific Reports, 2017, 7, 8111.	3.3	24
38	Life cycle assessment of high-speed rail: a case study in Portugal. International Journal of Life Cycle Assessment, 2017, 22, 410-422.	4.7	47
39	Physics of metabolic organization. Physics of Life Reviews, 2017, 20, 1-39.	2.8	113
40	Material Services with Both Eyes Wide Open. Sustainability, 2017, 9, 1508.	3.2	35
41	Mapping the Lisbon Potential Foodshed in Ribatejo e Oeste: A Suitability and Yield Model for Assessing the Potential for Localized Food Production. Sustainability, 2017, 9, 2003.	3.2	25
42	From Theory to Econometrics to Energy Policy: Cautionary Tales for Policymaking Using Aggregate Production Functions. Energies, 2017, 10, 203.	3.1	19
43	Do the Different Exergy Accounting Methodologies Provide Consistent or Contradictory Results? A Case Study with the Portuguese Agricultural, Forestry and Fisheries Sector. Energies, 2017, 10, 1219.	3.1	8
44	Insights on Energy Transitions in Mexico from the Analysis of Useful Exergy 1971â€“2009. Energies, 2016, 9, 488.	3.1	18
45	Consistency of technology-adjusted consumption-based accounting. Nature Climate Change, 2016, 6, 729-730.	18.8	16
46	Valuing the non-market benefits of estuarine ecosystem services in a river basin context: Testing sensitivity to scope and scale. Estuarine, Coastal and Shelf Science, 2016, 169, 95-105.	2.1	17
47	Structure and dynamics of useful work along the agriculture-industry-services transition: Portugal from 1856 to 2009. Structural Change and Economic Dynamics, 2016, 36, 1-21.	4.5	33
48	Regionalization of agri-food life cycle assessment: a review of studies in Portugal and recommendations for the future. International Journal of Life Cycle Assessment, 2016, 21, 875-884.	4.7	25
49	A spatially explicit life cycle assessment midpoint indicator for soil quality in the European Union using soil organic carbon. International Journal of Life Cycle Assessment, 2016, 21, 1076-1091.	4.7	18
50	A conceptual framework for the analysis of engineered biodiverse pastures. Ecological Engineering, 2015, 77, 85-97.	3.6	42
51	Dynamic Energy Budget Theory: An Efficient and General Theory for Ecology. BioScience, 2015, 65, 341-341.	4.9	18
52	Highly productive sown biodiverse pastures with low invasion risk. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1695.	7.1	7
53	Can we reach consensus between marine ecological models and DEB theory? A look at primary producers. Journal of Sea Research, 2014, 94, 92-104.	1.6	6
54	A new perspective on the growth pattern of the Wandering Albatross (Diomedea exulans) through DEB theory. Journal of Sea Research, 2014, 94, 117-127.	1.6	12

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55	The smarter, the cleaner? Collaborative footprint: A further look at taxi sharing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5488.	7.1	8
56	Environmental, economic and social costs and benefits of a packaging waste management system: A Portuguese case study. Resources, Conservation and Recycling, 2014, 85, 67-78.	10.8	59
57	How sustainable is sustainable marine spatial planning? Part II â€“ The Portuguese experience. Marine Policy, 2014, 49, 48-58.	3.2	22
58	Transport Infrastructure Project Evaluation Using Cost-benefit Analysis. Procedia, Social and Behavioral Sciences, 2014, 111, 400-409.	0.5	87
59	How sustainable is sustainable marine spatial planning? Part Iâ€”Linking the concepts. Marine Policy, 2014, 49, 59-65.	3.2	53
60	Decomposition of useful work intensity: The EU (European Union)-15 countries from 1960 to 2009. Energy, 2014, 76, 704-715.	8.8	56
61	Assessment of the theory of comprehensive national accounting with data for Portugal. Ecological Economics, 2013, 95, 188-196.	5.7	11
62	International trade and the geographical separation between income and enabled carbon emissions. Ecological Economics, 2013, 89, 162-169.	5.7	52
63	Towards a DPSIR driven integration of ecological value, water uses and ecosystem services for estuarine systems. Ocean and Coastal Management, 2013, 72, 64-79.	4.4	92
64	Income-based environmental responsibility. Ecological Economics, 2012, 84, 57-65.	5.7	181
65	Soil organic matter dynamics in Portuguese natural and sown rainfed grasslands. Ecological Modelling, 2011, 222, 993-1001.	2.5	47
66	Life Engine - Creating Artificial Life for Scientific and Entertainment Purposes. Lecture Notes in Computer Science, 2011, , 278-285.	1.3	0
67	Industrial hemp or eucalyptus paper?. International Journal of Life Cycle Assessment, 2010, 15, 368-375.	4.7	27
68	Analysis of genuine saving and potential green net national income: Portugal, 1990â€“2005. Ecological Economics, 2010, 69, 1934-1942.	5.7	27
69	Dynamic energy budget theory restores coherence in biology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3413-3428.	4.0	204
70	Influenza Infectious Dose May Explain the High Mortality of the Second and Third Wave of 1918â€“1919 Influenza Pandemic. PLoS ONE, 2010, 5, e11655.	2.5	59
71	Comment on â€œEnergy Uptake and Allocation During Ontogenyâ€. Science, 2009, 325, 1206-1206.	12.6	8
72	A discussion of the paper, Elshkaki et al., â€œDynamic stock modeling: a method for the identification and estimation of future waste streams and emissions based on past production and product stock characteristicsâ€, Energy 2005;30:1353â€“63. Energy, 2008, 33, 834-834.	8.8	6

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73	Consumer and producer environmental responsibility: Comparing two approaches. Ecological Economics, 2008, 66, 533-546.	5.7	88
74	Consumer and producer responsibility: Comments. Ecological Economics, 2008, 66, 551.	5.7	3
75	From empirical patterns to theory: a formal metabolic theory of life. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 2453-2464.	4.0	172
76	Testing for the survey mode effect on contingent valuation data quality: A case study of web based versus in-person interviews. Ecological Economics, 2007, 62, 388-398.	5.7	152
77	Costâ€"benefit analysis of the Zonal Program of Castro Verde (Portugal): Highlighting the trade-off between biodiversity and soil conservation. Soil and Tillage Research, 2007, 97, 79-90.	5.6	34
78	Equilibrium econophysics: A unified formalism for neoclassical economics and equilibrium thermodynamics. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 492-512.	2.6	15
79	Is neoclassical microeconomics formally valid? An approach based on an analogy with equilibrium thermodynamics. Ecological Economics, 2006, 58, 160-169.	5.7	44
80	Designing an indicator of environmental responsibility. Ecological Economics, 2006, 59, 256-266.	5.7	108
81	Constraints on dematerialisation and allocation of natural capital along a sustainable growth path: Reply to Jorge Ares. Ecological Economics, 2006, 59, 245-246.	5.7	1
82	Thermodynamics of organisms in the context of dynamic energy budget theory. Physical Review E, 2006, 74, 051901.	2.1	25
83	Constraints on dematerialisation and allocation of natural capital along a sustainable growth path. Ecological Economics, 2005, 54, 382-396.	5.7	15
84	New and old regimes for the endoreversible heat engine. Journal of Non-Equilibrium Thermodynamics, 2005, 30, .	4.2	2
85	Harvesting in a resource dependent age structured Leslie type population model. Mathematical Biosciences, 2004, 189, 141-151.	1.9	6
86	Periodic and Quasi-periodic Behavior in Resource-dependent Age Structured Population Models. Bulletin of Mathematical Biology, 2001, 63, 207-230.	1.9	10
87	Multiple dose vaccination against childhood diseases: high coverage with the first dose remains crucial for eradication. Mathematical Medicine and Biology, 2000, 17, 201-212.	1.2	9
88	A general approach to the modelling of trophic chains. Ecological Modelling, 2000, 132, 191-202.	2.5	19
89	Agricultural Expansion, Soil Degradation, and Fertilization in Portugal, 1873â€"1960: From History to Soil and Back Again. Social Science History, 0, , 1-28.	0.5	2
90	Economic valuation and mapping of Ecosystem Services in the context of protected area management (Natural Park of Serra de SÃ£o Mamede, Portugal). One Ecosystem, 0, 3, .	0.0	17