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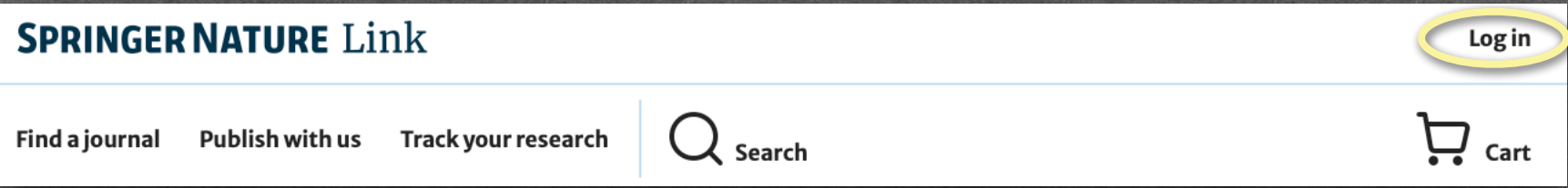
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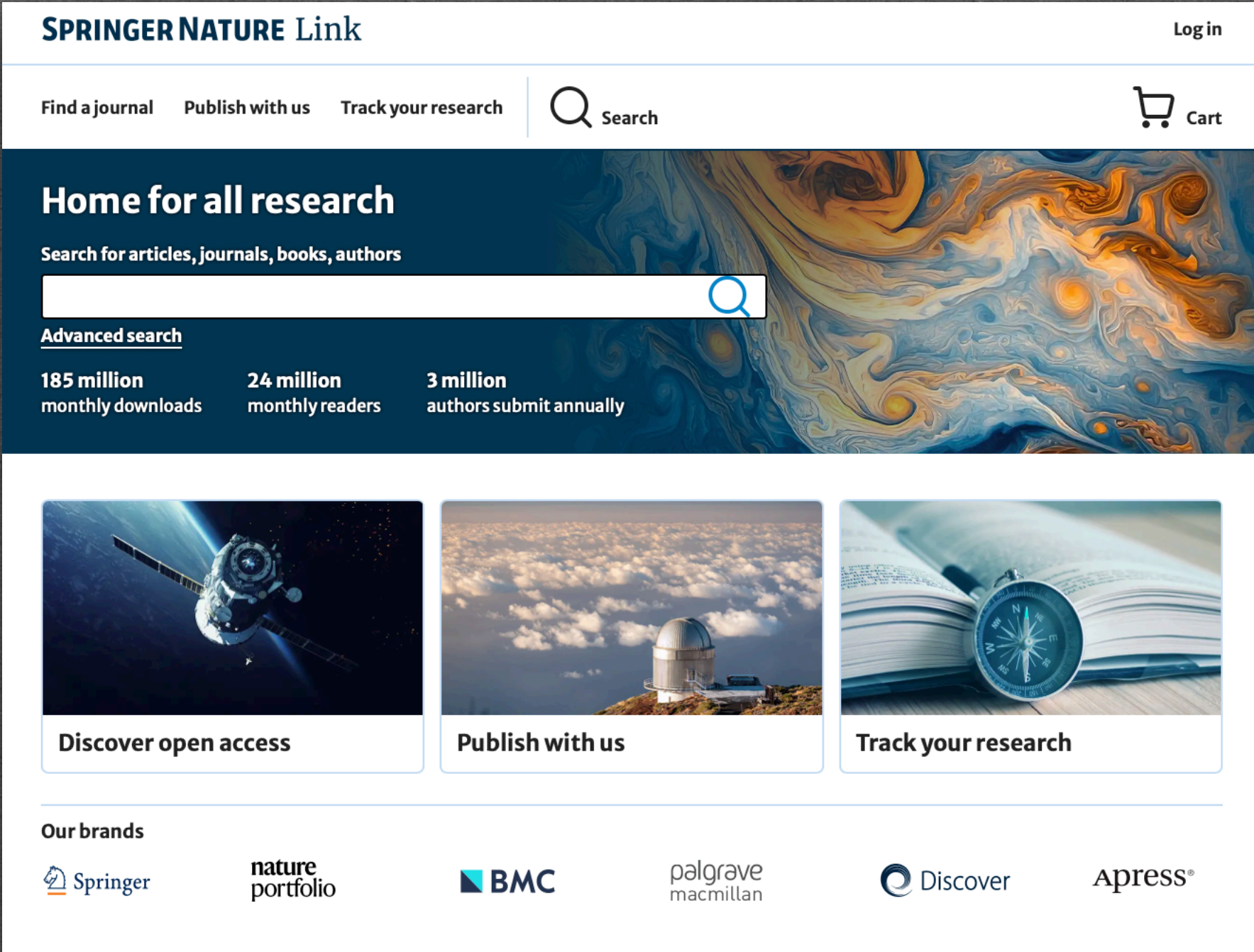
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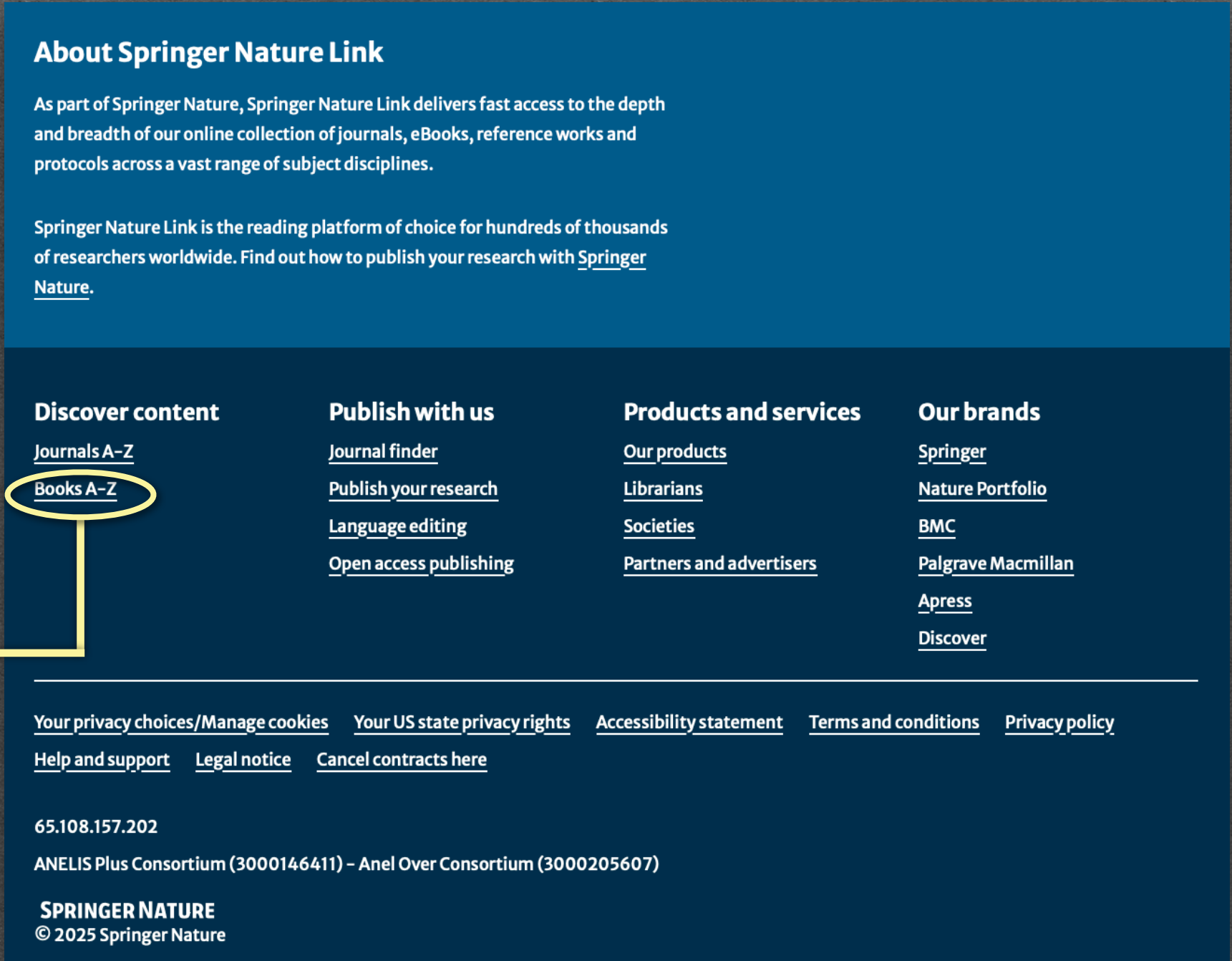
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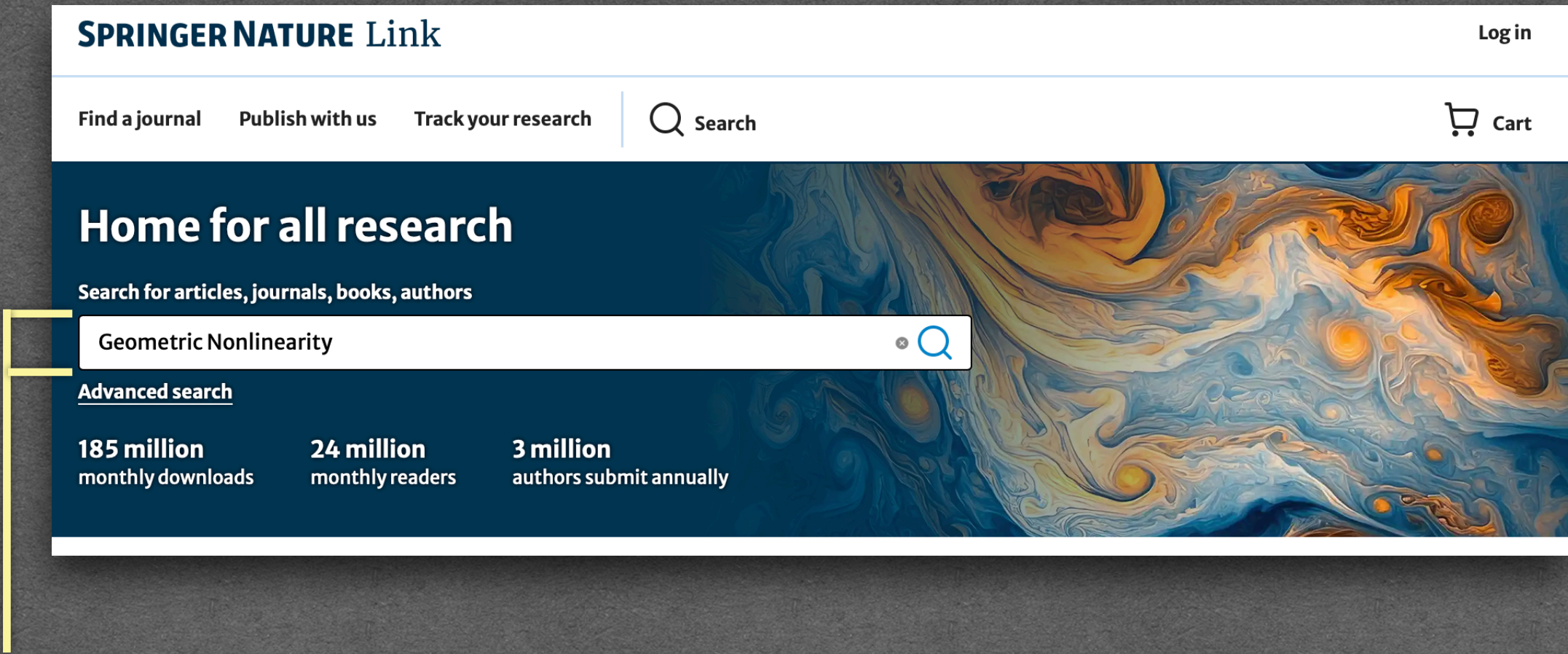
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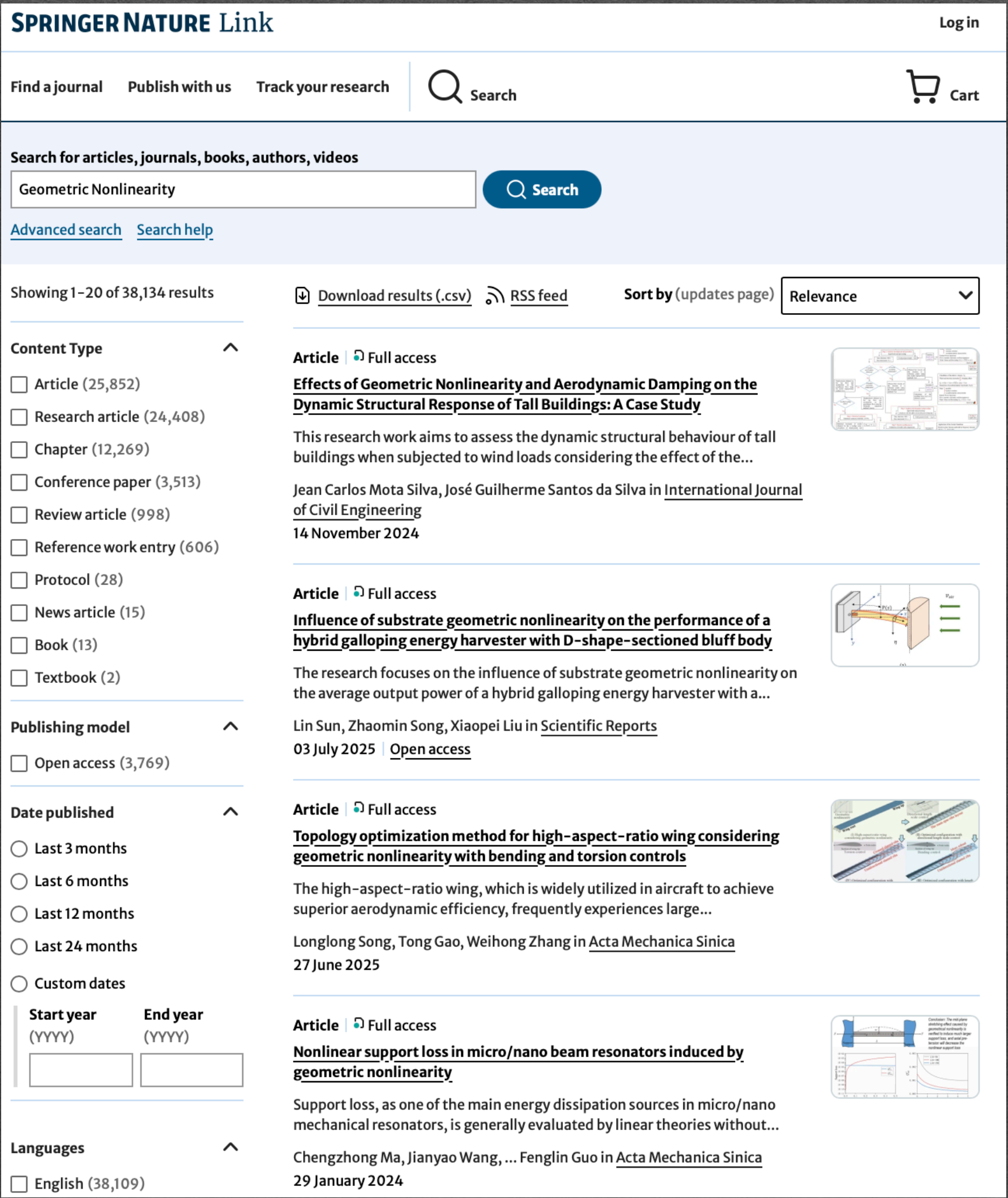


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Applies uncertainty to assess climate change impact areas such as hydrology, infrastructure, and human health

Uniquely characterizes the uncertainty in vulnerability to formulate solutions to climate change challenges

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About this book

This edited volume with open access discusses all aspects of uncertainty in climate change research, with a unique emphasis on decision making under uncertainty and the assessment of various uncertainties in the landscape of decision making. By analyzing uncertainty through the lens of decision making, the book seeks to understand and assess the various uncertainties inherent in climate change research, including uncertainties in economic impacts, human health and vulnerability, fluctuations in the physical climate system, changes in infrastructure, and future climate projections. Very little published material exists on the uncertainties regarding vulnerability of different populations to climate change, and so the book characterizes the uncertainty in vulnerability to better formulate solutions to climate change problems in affected populations. The volume will be of interest to students, post-docs, early career scientists, and researchers interested in all aspects of climate change.

After an introduction that addresses the issue of uncertainty in general as it pertains to climate change research, the book is divided into 5 main sections. Section 1 focuses on uncertainty in policy and decision making, and how climate-related policy choices impact risk management, impact mitigation, and adaptation. Section 2 discusses uncertainty in climate change impacts, including impacts in agriculture, water resources, transportation infrastructure, and human health and vulnerability. Section 3 analyzes physical climate uncertainties, such as Earth system projections, emissions concentrations, and sea-level rise projections. Section 4 details the methods for quantifying uncertainty from a statistical perspective. Section 5 concludes the volume with discussions on special topics and integrated themes on uncertainty, including ethics and uncertainty, communication, the economics of climate change, and integrated modeling for decision support.

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Life is uncertain, and uncertainty is particularly relevant to the challenges posed by climate change to society and natural environments. In this introductory chapter, we summarize the main components of uncertainty relating to climate change and how they affect the decisions we need to make. We explain the deliberate orientation of this book, specifically, starting from the point of view of decision-makers who are striving to manage risks associated with climate change (alongside other human drivers of global change). We explore the different ways uncertainty is viewed and managed, such as when assessing socioeconomic vulnerabilities and impacts of climate change or evaluating options for mitigating and adapting to climate change. We also consider the difficulties involved in communicating the uncertainties of climate change to various audiences. Above all, we stress that uncertainty is not an excuse for inaction. There are now many tools and frameworks that can support mitigation and adaptation decisions, despite deep uncertainty about the future.

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