



**THIRD WORLD SYMPOSIUM
ON SUSTAINABILITY
SCIENCE AND RESEARCH**

Sustainability Futures: Challenges
and Opportunities Towards a More
Sustainable World

April 8

**How does educational research face a future
marked by climate emergency? Analysis of
recent scientific production**

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Climate emergency

- Need for 45% reduction in emissions
- Need for fast and powerful transitions
- Seeking new ways to prepare people for the changing realities of climate change

Sustainable Development Goals
Agenda 2030 (UN, 2015)

➔ Education as Key Factor



Objetives & Methodology

Analysis and bibliometric mapping of the academic production on **Climate Change in the educational field**, in order to

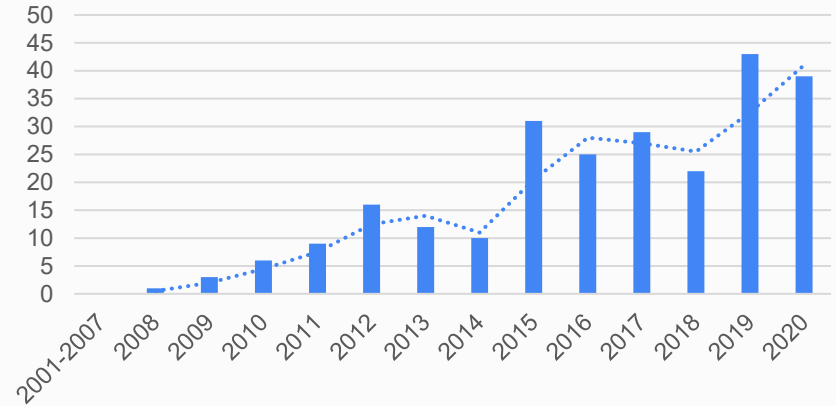
- explore the area and its **evolution**
- recognize its main **references** and the **network** of collaborations
- identify the main **themes** that articulate the field of knowledge
- identify **strengths** and **weaknesses**

Searching: Web of Science , Area: education educational research, Period: 2001 - 2020, Title: "Climate Change" Type of document: Articles
Analysis & Mapping : VOSviewer + R-package bibliometrix

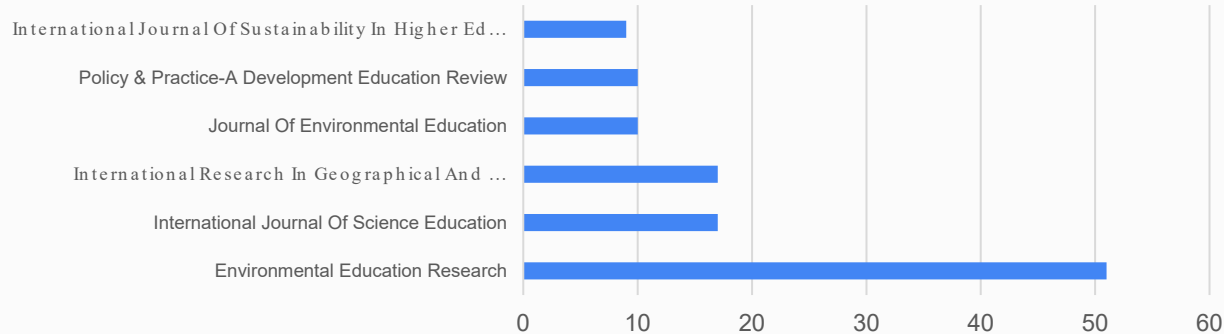
KEY RESULTS

Timespan	2008 -2020
Documents	247
Sources (Journals)	83
Authors	566

Annual scientific production

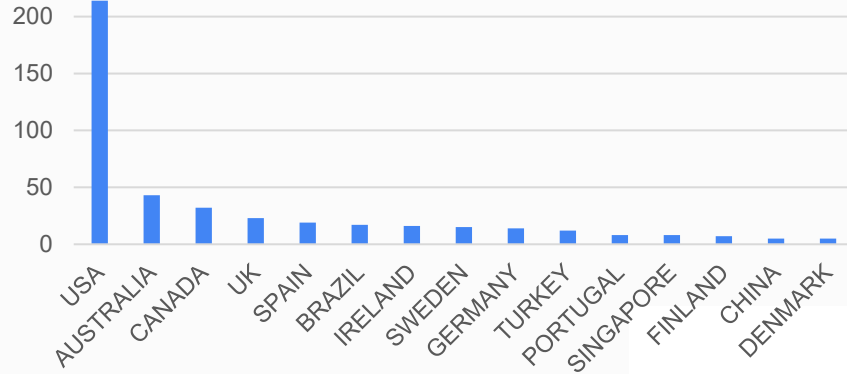


Sources

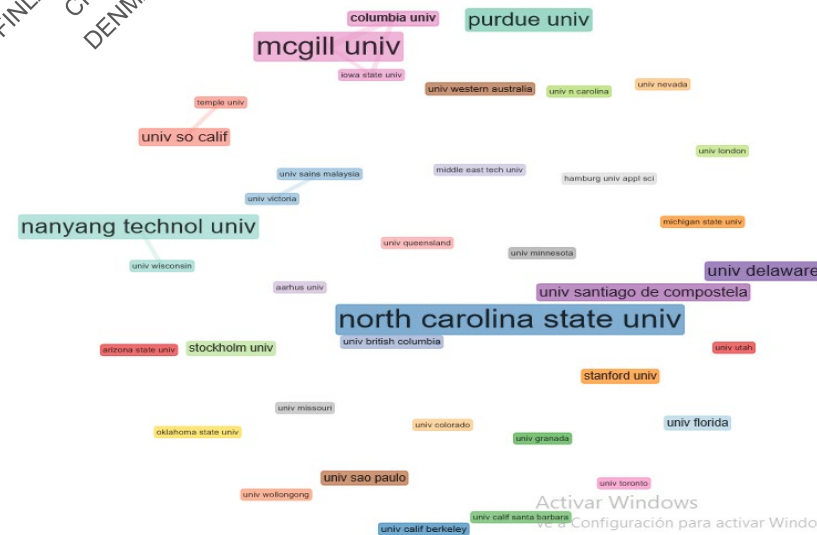
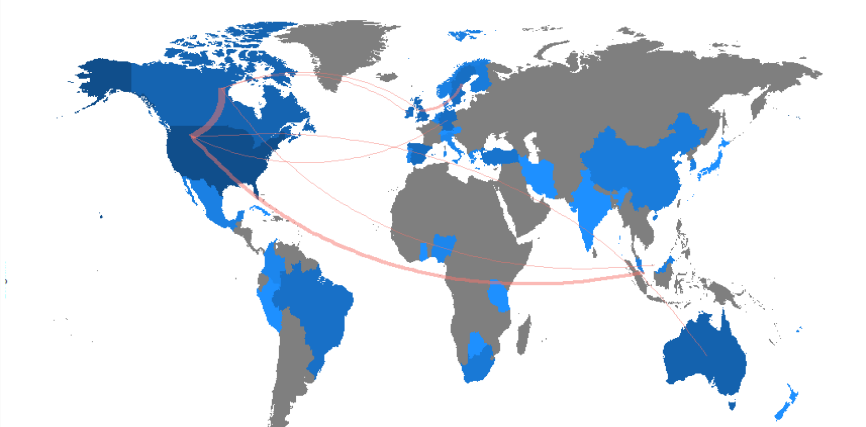


KEY RESULTS

Countries production

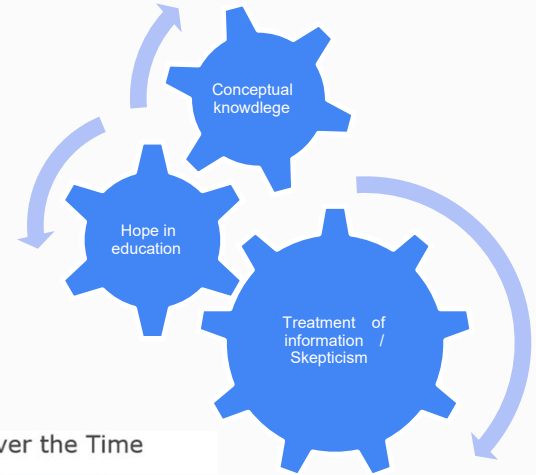


Country Collaboration Map

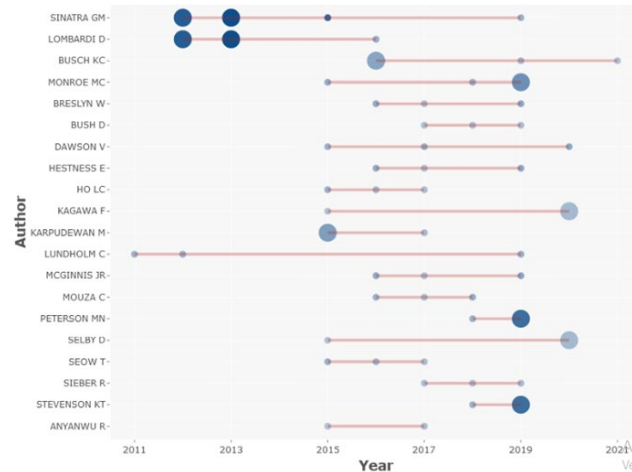


KEY RESULTS

Most global cited documents	Global citations	Most local cited documents	Local citations
OJALA M, 2012, ENVIRON EDUC RES	115	SHEPARDSON DP, 2009, ENVIRON EDUC RES	26
BRATEN I, 2011, LEARN INSTR	115	LAMBERT JL, 2012, INT J SCI EDUC	17
STROMSO HI, 2010, LEARN INSTR	110	LOMBARDI D, 2013, INT J SCI EDUC	17
SHEPARDSON DP, 2009, ENVIRON EDUC RES	87	SHEPARDSON DP, 2012, ENVIRON EDUC RES	16
WIBECK V, 2014, ENVIRON EDUC RES	85	LOMBARDI D, 2012, RES SCI EDUC	15
MUIS KR, 2015, LEARN INSTR	71	BOON HJ, 2016, AUST J TEACH EDUC	14
LOMBARDI D, 2013, LEARN INSTR	68	OJALA M, 2012, ENVIRON EDUC RES	11
LOMBARDI D, 2012, RES SCI EDUC	63	MCNEILL KL, 2012, RES SCI EDUC	10
LOMBARDI D, 2013, INT J SCI EDUC	53	SVIHLA V, 2012, INT J SCI EDUC	9
SINATRA GM, 2012, INSTR SCI	53	SINATRA GM, 2012, INSTR SCI	9
OJALA M, 2015, J ENVIRON EDUC	51	LOMBARDI D, 2013, LEARN INSTR	9
WACHHOLZ S, 2014, INT J SUST HIGHER ED	49	PORTER D, 2012, ENVIRON EDUC RES	8

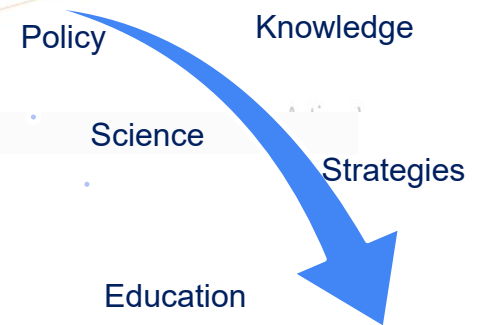
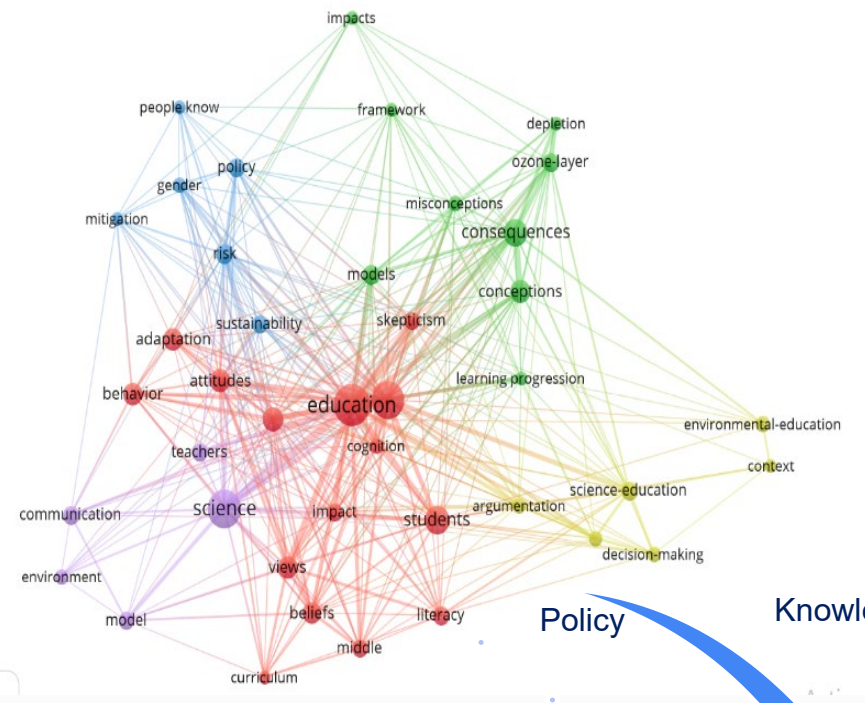
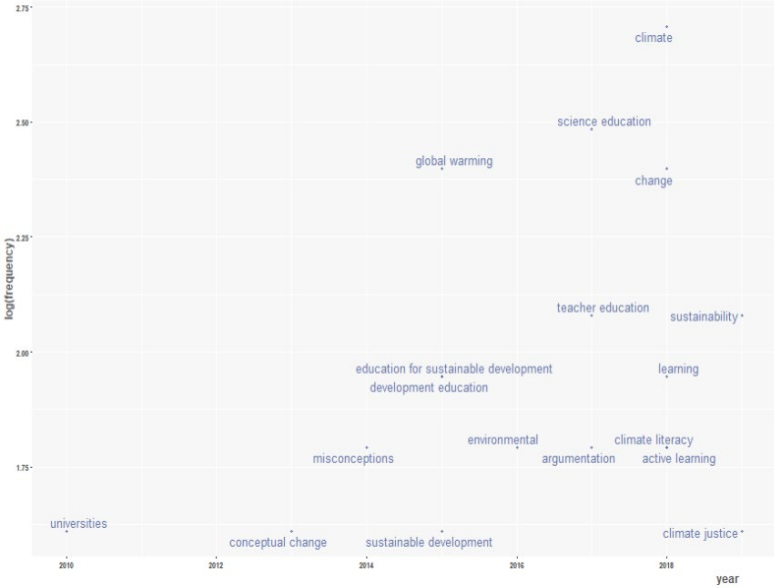


Top-Authors' Production over the Time



KEY RESULTS

Trend Topics



Conceptual approach

Sustainable development education

Strategies for action

MAIN CONCLUSIONS : Research on Climate Change in Education

Needs

Growing area of research

Field in constant evolution

Importance of the global policy agenda

Promoting research and dissemination of results in contexts far from developed countries

Encouraging more research networks between different countries /contexts /universities

Expanding publications in non -specialist journals, more specific keywords

Searching for new strategies of action for rapid transitions.

*Limitations



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