Turkish Landscape

ODAK2023 Kick-Off Event

Sunrise for
Concentrating Solar Thermal (CST)
in Turkey

ODAK2023

SolarTwins

Development of CSP in Turkey:

Local integration to Global Value Chains Through International Channels

Yelda Erden Topal &Erkan Erdil
METU TEKPOL

Content:

1. ODAK 2023 & METU TEKPOL
2. Stakeholder Mapping for TR CSP Landscape
3. Findings
4. Conclusion
5. What next?

ODAK 2023 & METU TEKPOL

METU-TEKPOL

- is the interdisciplinary Research Center for Science and Technology Policies
- Grants PhD. and MSc. Degress of Science and Technology Policy Studies
- Conducting National (TUBİTAK, Ankara Development Agency, BAP) and international projects (EC, FP7, H2020, EPO, EBRD)
- Core team of about 10 researchers, lecturers, post-docs, research assistants

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TEKPOL Contributes ODAK 2023 by

- **Research**
  - ✓ *SolarTwins:* Prosal Team & WP1 Leader
  - ✓ *HORIZON –STE* : Team Member & Local Contact Point for Turkish CSP Country Report

- **Dissemination & Exploitation Activities**
  - ✓ EUSOLARIS ERIC
  - ✓ Building ODAK 2023 Reserch Stream at METU
  - ✓ Networking and Lobbying for CSP in Turkey
  - ✓ Supporting the dissemination CSP ERANET Call

STAKEHOLDER MAPPING

Qualitative Analysis of Interviews

- 14 interviews with

Industry (5), University (5), Public (3), NGOs (1)

Quantitative Analysis of Bibliometrics

- Scanning the research networks through app. 2000 publications derived by keyword «CSP» from WOS

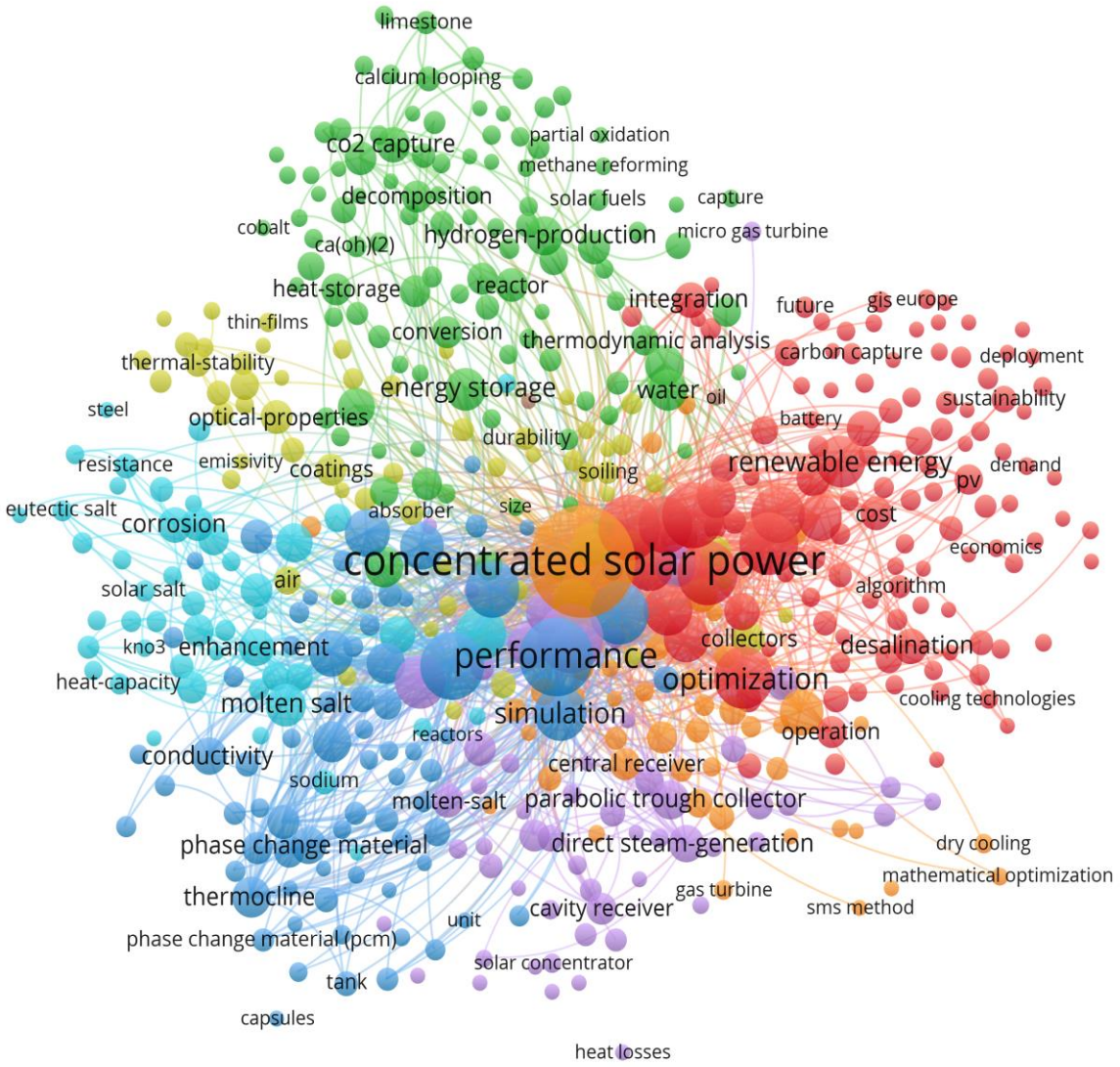
FINDINGS:

From Qualitative Analysis:

- ✓ Strong research infrasture & qualified cutting edge research in the area
- ✓ Commercialization and industrialisation of the research
- ✓ Established Political and Regulatory framework for RE
- ✓ Integration of both industy and university to EU Research Networks
- ✓ For companies Solar Heat for Industrial Processes (SHIP) is promising.
- ✓ Need for political stability for investment decision
- ✓ CSP as a solution for the problems of RE storage and supply security
- ✓ Complementary and hybrid solutions to energy problem
- ✓ CSP is a low hanging fruit
- ✓ Energy Mix is promoted including RE

Findings of the Bibliometric Analysis

CSP related Keywords



VOSviewer

CSP Citations

Total Publications

1,925 Analyze

h-index

65

Average citations per item

13.08

Sum of Times Cited

25,172

Without self citations

20,532

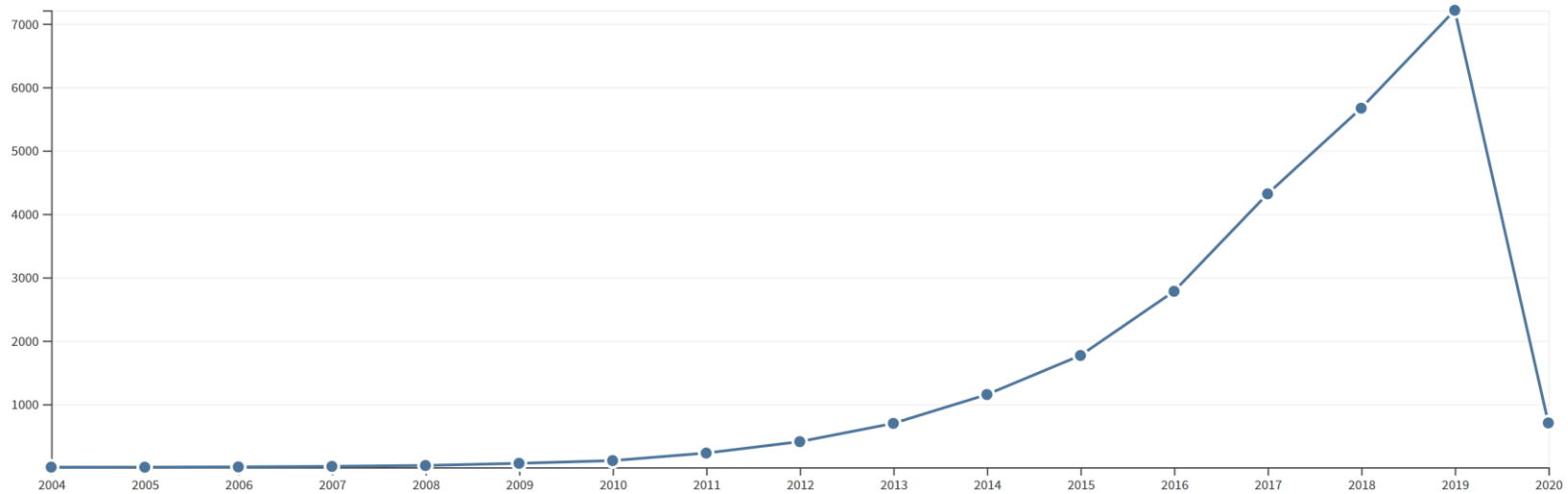
Citing articles

14,471 Analyze

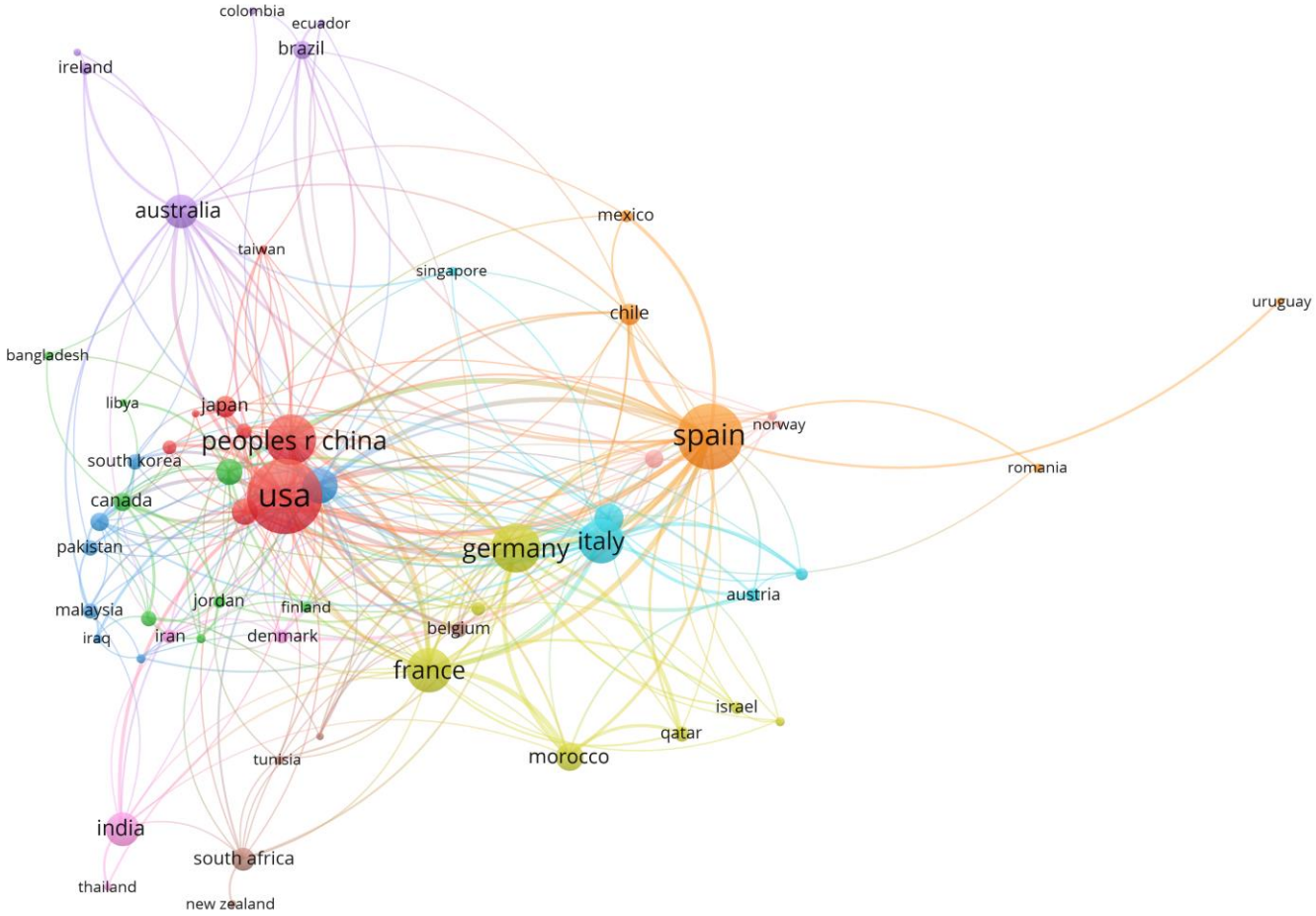
Without self citations

13,264 Analyze

Sum of Times Cited per Year

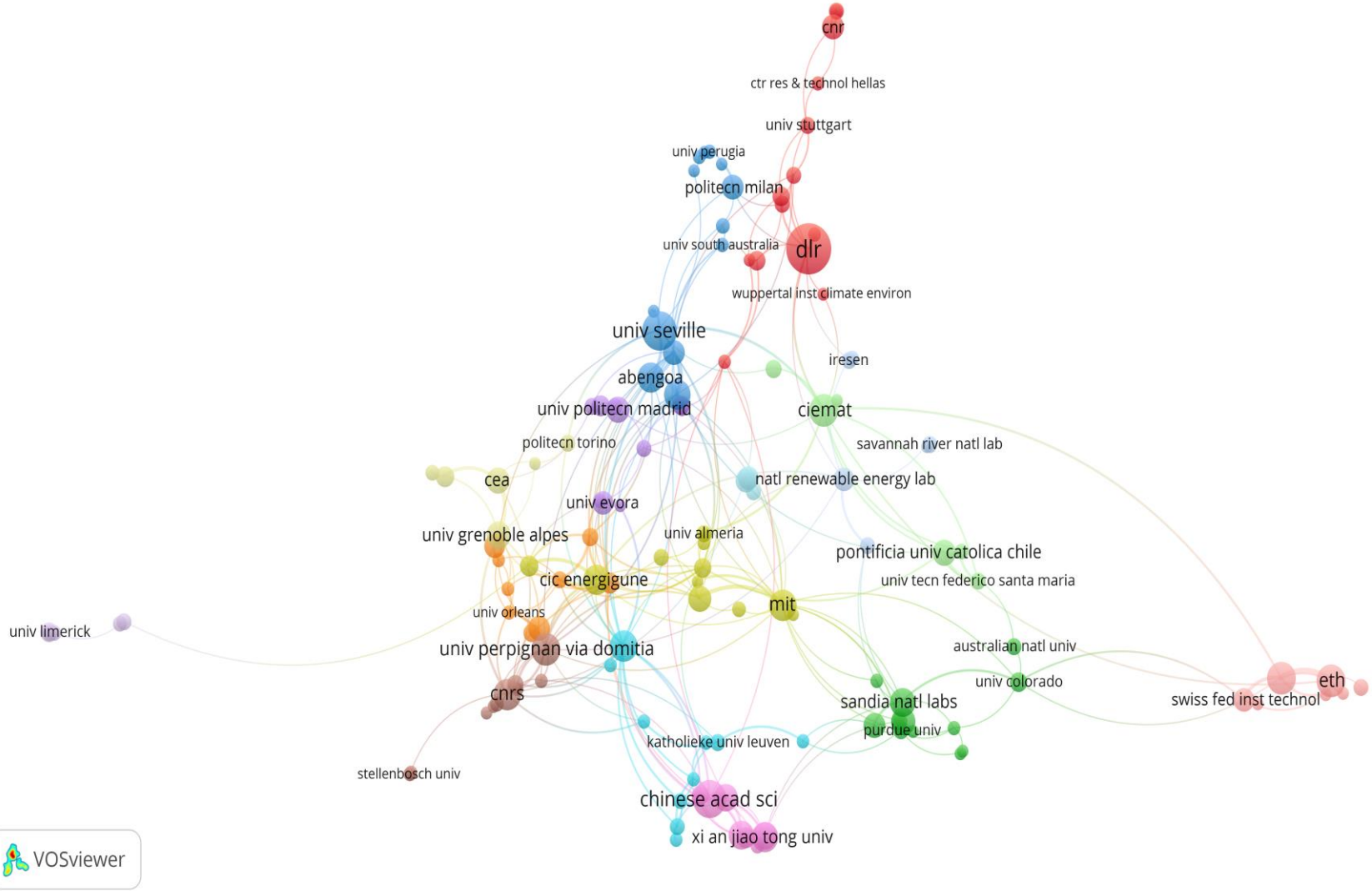


Country Network

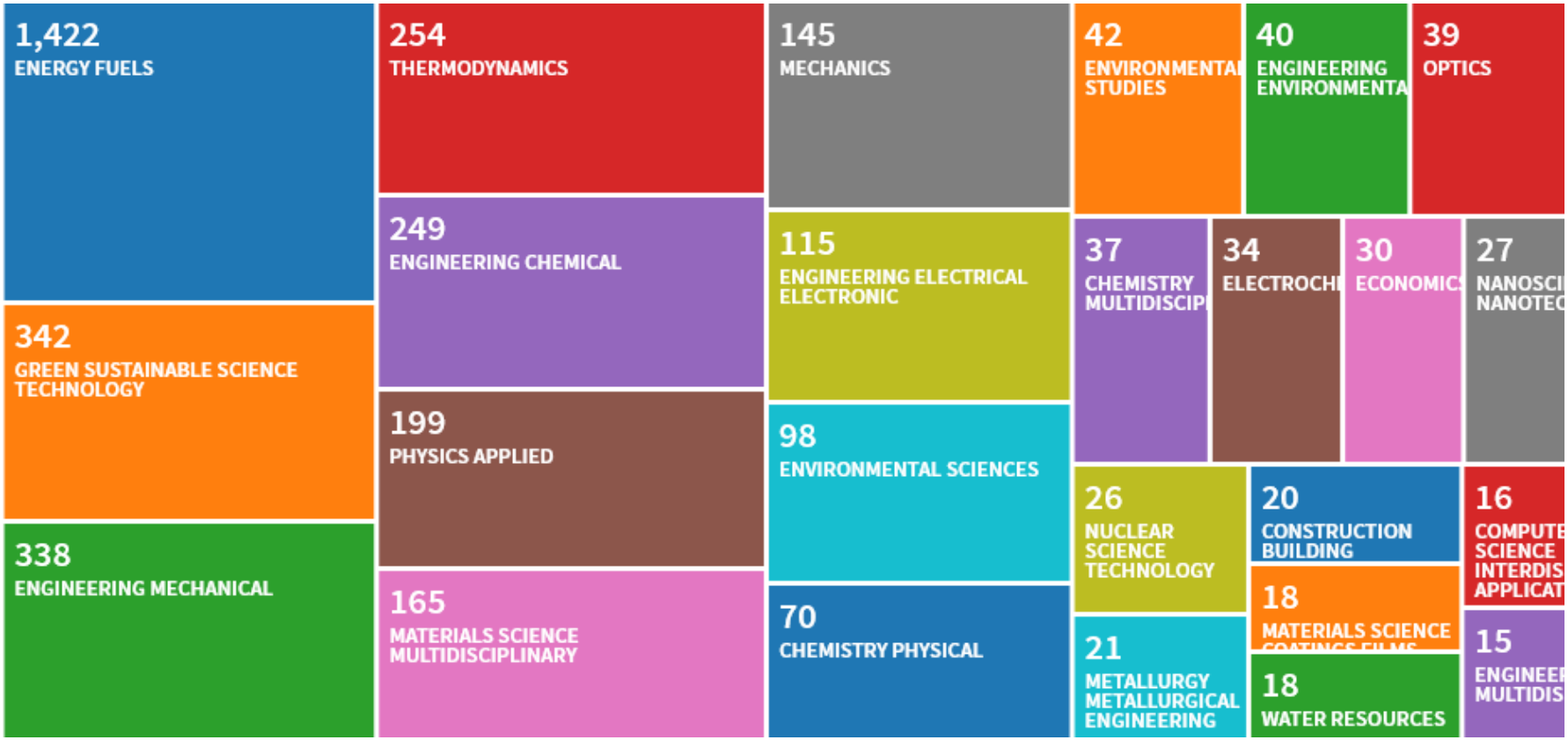


VOSviewer

Organization Network



CSP Related Research Areas



FINDINGS:

Conclusion

-Research collaboration with strategic research partners built on solid grounds

- Motivating industry
- Supporting local development
- Promoting various applications of CSP /STE not just electrity generation

Next?

- SolarTwins as Research Team Building Case Study (Before and After SolarTwins Impacts)

With bibliometrics and Interviews

- Post-Doc. Research in CSP/ STE Policy Making in Spain affiliated to CIEMAT and University Politechnic Madrid

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Thanks for your attention.....

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