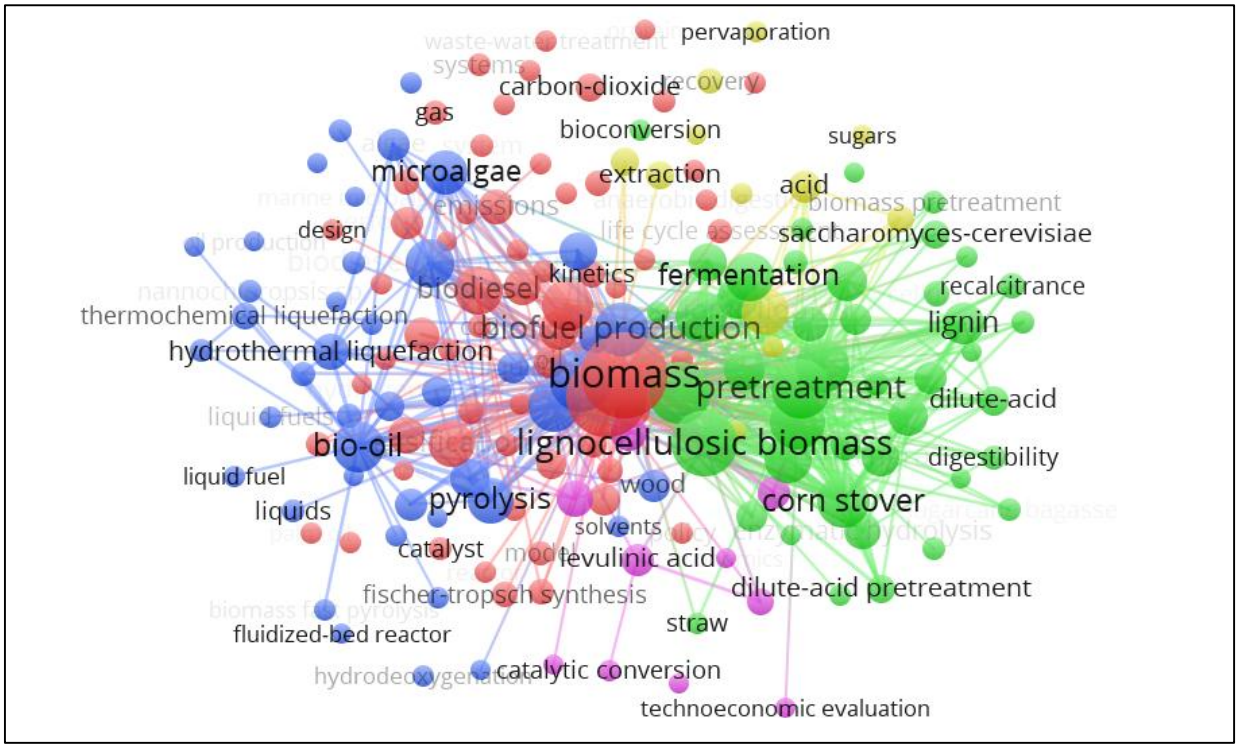

Figure 15. Keyword relationship graph

CONCLUSIONS

In general, there was no clear trend in liquid biofuels research during the period studied, the peak was reached in 2016, however, the decrease in published documents and research in recent years show a slump in the development of new technologies for liquid biofuels production, and due to government policies, it is expected that 2018 will not exceed the research production of 2017, currently 25 countries contribute significantly to the production of this renewable energy source.

The research work published in journals such as Sandia Natl Labs, Jont BioEnergy Inst, Lawrence Berkeley Natl lab, among others, among the top 10 publications, and authors such as Simmons BA. and Singh S. who are part of Joint BioEnergy Inst, show that one of the countries that most promotes the development of renewable energy sources and more specifically liquid biofuels.

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