

### عنوان مقاله:

Investigating the characteristics of two Plasma Activated Water production methods and the impact on Lentil seeds germination and growth

## محل انتشار:

ششمیّن کنفرانسٌ بین المللی پژوهش های کاربردی در علوم و مهندسی (سال: 1401)

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### خلاصه مقاله:

In the last three decades, much research has been done on the use of plasma technology in various fields from military science to medicine and agriculture. In this regard, one of the topics that have been seriously pursued by researchers in recent years has been the study of various methods of production of plasma activated water [PAW], identification of properties, and its use in medicine, agriculture , and environmental sciences. In this study, first, two different methods of creating Cold Atmospheric Plasma [CAP] and their use in PAW production were evaluated and compared. Then, in the next step, the effect of using PAW obtained from these two methods on the germination and growth of lentil seeds was investigated. The results show that using Corona Discharge [CD] Plasma to produce PAW has better results than using Spark Discharge [SD] and using PAW from this method for irrigation can double the .speed of lentil seeds germination and sprouts growth

## کلمات کلیدی:

Cold (Atmospheric) Plasma [CAP], Spark Discharge [SD], Corona Discharge [CD], Plasma Activated Water [PAW], .Seed Germination, Sustainable Agriculture

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