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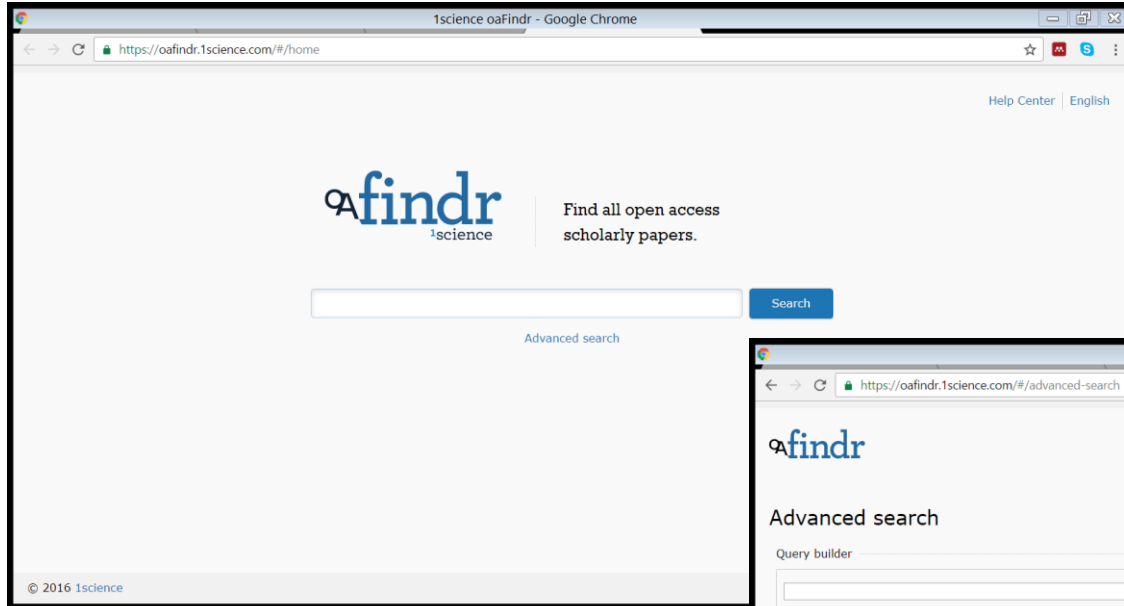
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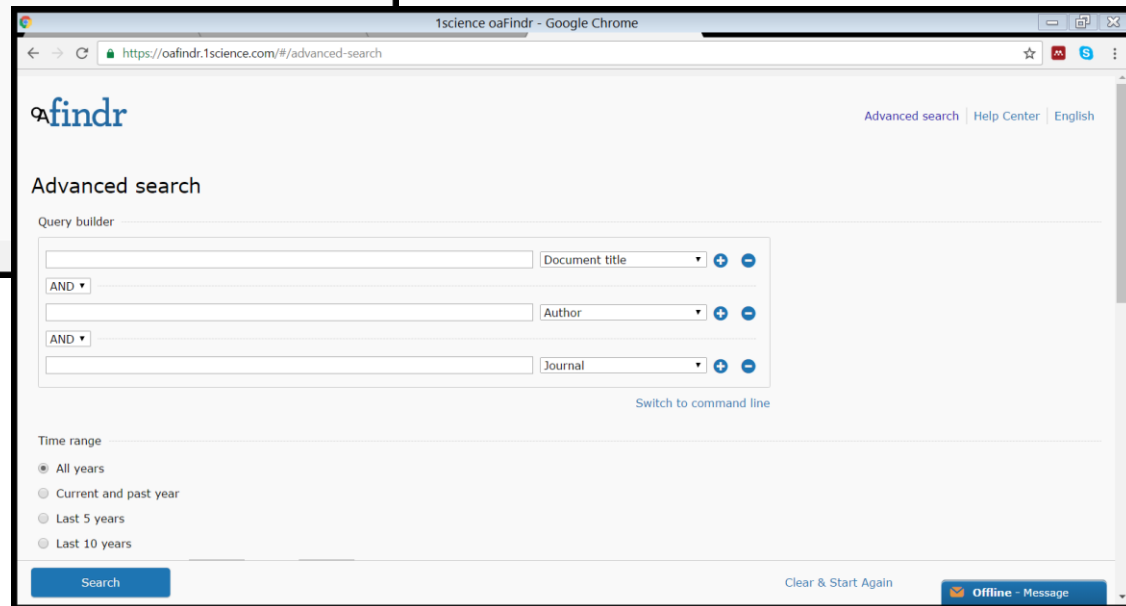
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The raise in temperature is a non-negligible issue for concentrating photovoltaics (CPV), where the sunlight times and a large amount of heat is collected on the solar cells. Micro-fins have been identified as one of the cooling: despite its potentials, the number of publications on this subject is still limited. The present paper reports the results of an experimental investigation on the performance of a micro-finned CPV system in natural convection: an optimized fin array is found able to enhance the mass specific power up to 50% compared to an unfinned surface.

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Plate micro-fins in natural convection: an opportunity for passive concentrating photovoltaic cooling

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Abstract

The raise in temperature is a non-negligible issue for concentrating photovoltaics (CPV), where the sunlight is concentrated up to thousands of times and a large amount of heat is collected on the solar cells. Micro-fins have been identified as one of the most promising solution for CPV cooling: despite its potentials, the number of publications on this subject is still limited. The present paper resumes the state-of-the-art of the research on micro-fins, in order to identify the most convenient fin geometry for CPV applications. The results of the investigation conducted in this work show that, compared to a conventional heat sink, micro-fins can improve the thermal performance and, at the same time, lower the weight of a system. For this reason, they are particularly beneficial for tracked systems, such as CPV, where a reduced weight means a reduced load for the tracker. The heat transfer coefficients measured through an experimental setup are used to predict the performance of a micro-finned CPV system in natural convection: an optimized fin array is found able to enhance the mass specific power up to 50% compared to an unfinned surface.

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Keywords: concentrating photovoltaics, micro-fins, natural convection, passive cooling.

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4 **Bees like their pollen sweet.(BEHAVIOURAL ECOLOGY)(behavior of bees depend on the taste of the pollen of the flower)(Brief article)**
Anonymous:
Nature, July 21, 2016, Vol.535(7612), p.327(1) [Peer Reviewed Journal]
have evolved pollen just sweet enough to keep bees coming back for more, but... Bees can taste the pollen they collect, and favour the sweet kind...
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Anderson, Kirk E. ; Carroll, Mark J. ; Sheehan, Tim ; Mott, Brendon M. ; Maes, Patrick ; Corby-Harris, Vanessa
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Journal of Animal Ecology, May 2014, Vol.83(3), pp.588-597 [Peer Reviewed Journal] Altmetric 4
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