

1. Record Nr.	UNINA9910818920203321
Autore	Wu Wei
Titolo	A centrifugal particle receiver for high-temperature solar applications / / Wei Wu
Pubbl/distr/stampa	Berlin : , : Logos Verlag Berlin GmbH, , [2015] ©2015
ISBN	3-8325-9520-1
Descrizione fisica	1 online resource (204 pages) : illustrations
Disciplina	621.31244
Soggetti	Solar power plants - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	PublicationDate: 20150130
Sommario/riassunto	Long description: The novel concept of a particle receiver for high-temperature concentrating solar applications was developed and investigated in the present work. The so-called Centrifugal Particle Receiver (CentRec) uses small bauxite particles as absorber, heat transfer and storage media at the same time. Due to advantageous optical and thermal properties, the particles can be heated up to 1000 degree Celsius without sintering in the storage. High thermal efficiencies at high outlet temperatures are expected indicating a promising way for cost reduction in solar power tower applications. A prototype in laboratory scale was designed, built and tested in order to demonstrate the feasibility and potential of the proposed concept. The expected simple control capability of the receiver could be verified and the target temperature of 900 degree Celsius successfully demonstrated. A thermal efficiency of > 85% is calculated by a validated corresponding numerical model for a particle outlet temperature of 900 degree Celsius and a design power of 1 MW/m ² .

2. Record Nr.	UNIORUON00185561
Autore	Maurer, Hartmut
Titolo	Allgemeines verwaltungsrecht / Hartmut Maurer
Pubbl/distr/stampa	München, : C.H. Beck's verlag, 1980
ISBN	34-06-05692-X
Descrizione fisica	XXIV, 576 p. ; 20 cm.
Soggetti	Germania - Diritto costituzionale
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia