



Solar Absorber Coatings for Thermal Applications

Guest Editor:

Dr. Gema San Vicente

CIEMAT, Plataforma Solar de
Almería, E28040 Madrid, Spain

Deadline for manuscript
submissions:

closed (20 February 2022)

Message from the Guest Editor

Dear Colleagues,

Coatings used as absorbers are one of the main responsible of the optical and thermal efficiency of the solar thermal systems. They collect the sun energy and transform it into heat. A multilayer structure is necessary to achieve a wavelength selectivity. The appropriate design of each film makes possible to satisfy a high value of absorptance in the solar wavelength range and a low value of thermal emittance in the mid/far infrared wavelength ranges. Furthermore, depending on the working temperature in the solar systems, the solar absorber coatings has to satisfy different conditions which means different requirements in terms of properties and durability.

The purpose of this Special Issue is to collect interesting and original studies about materials used as solar thermal absorbers including topics concerning material engineering, manufacturing technology, theoretical analysis, characterization, durability and definitively, any matter related to the solar absorbers which contributes to improve the solar thermal conversion efficiency and to reduce the technology costs.

Dr. Gema San Vicente

Guest Editor





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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
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