



Special issue: Mitigating urban heat island using cool roof technologies, part two

Special issue editor: Mat Santamouris

CONTENTS

Heating energy penalties of cool roofs: the effect of snow accumulation on roofs <i>Mirata Hosseini and Hashem Akbari</i>	1
Experimental determination of comfort benefits from cool-roof application to an un-conditioned building in India <i>Rathish Arumugam, Vishal Garg, Jyothirmay Mathur, Niranjana Reddy, Jalpa Gandhi and Marc L. Fischer</i>	14
Effect of aging processes on solar reflectivity of clay roof tiles <i>Chiara Ferrari, Ali Gholizadeh Touchaei, Mohamad Sleiman, Antonio Libbra, Alberto Muscio, Cristina Siligardi and Hashem Akbari</i>	28
Simulation of the cooling effect of the roof-added photovoltaic panels <i>Vasilis C. Kapsalis, Eftychios Vardoulakis and Dimitris Karamanis</i>	41
Heat island phenomenon and cool roofs mitigation strategies in a small city of elevated temperatures <i>Eftychios Vardoulakis, Dimitrios Karamanis and Giouli Mihalakakou</i>	55
Heat island effect for Nicosia, Cyprus <i>M.K. Theophilou and D. Serghides</i>	63
Assessing thermal risk in urban areas – an application for the urban agglomeration of Athens <i>A. Polydoros and C. Cartalis</i>	74
Preliminary studies of a cool roofs' energy-rating system in Italy <i>Michele Zinzi, Emiliano Carnielo and Alessandro Federici</i>	84
The energy balance of an urban rooftop: a case study addressing cloudiness and evaporative cooling <i>John E. Frederick and Radhika Khosla</i>	97