

Part A. PERSONAL INFORMATION

CV date 24/09/2018

First and Family name	VICTOR MARTÍNEZ MOLL		
Social Security, Passport, ID number	43047611Y	Age	51
Researcher numbers	Researcher ID	G-2292-2015	
	Orcid code	orcid.org/0000-0001-7046-0852	

A.1. Current position

Name of University/Institution	Univesrsity of the Balearic Islands		
Department	Physics		
Address and Country	Ctra. Valldemossa, Km 7.5, Ed. Mateu Orfila i Rotger, Office F-110, 07122, Palma de Mallorca, Spain		
Phone number	+34 971173238	E-mail	victor.martinez@uib.es
Current position	Associate professor	From	2012
Espec. cód. UNESCO	210601- Solar energy		
Keywords	Solar energy, mechanical engineering		

A.2. Education

PhD	University	Year
Doctor per la UPC	UPC	2003
Ingeniero Industrial	UPC	1996

A.3. JCR articles, h Index, thesis supervised...

Publications in JCR indexed journals: 29 JCR

h-index: 9 (Web of Science)

Total number of citations: 252 (Web of Science, search by ResearcherID)

Average number of citations during the last 5 years (2015-2019): 38,6 citations per year (Web of Science, search by ResearcherID)

Thesis supervised during the last 10 years (2010-2019): 5.

Sexenios: 2

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Víctor Martínez is currently associate professor in Mechanical Engineering at the University of the Balearic Islands. He made his PhD at the Polytechnic University of Catalonia (BarcelonaTech) on the analysis of T-bolt joints in thick composite materials for large wind turbines. After finishing his PhD he started a new research group at the University of the Balearic Islands with two main research lines centered on the development of concentrating solar thermal collectors and on the analysis of the energy consumptions of buildings. The main project during that period was the development of the CCStaR collector, an innovative collector with stationary reflector and moving absorber aimed at the medium temperature (100 – 250°C) market. During that development the role of Víctor Martínez was the main coordinator of the design of the collector and supervisor of the optical optimization of the collector that, in addition to being a critical task in the development of the new collector was the subject of the PhD thesis of Ramon Pujol. On the energy efficiency line Víctor Martínez co-supervised the PhD thesis of Andreu Mojà and Beatriz Rosselló. After the end of these first projects, the activity has centered on the continuation of the analysis and optimization of concentrating collectors, through the supervision of the PhD of Julian Hertel (expected to be defended by the end of the year) and the exploration of new solar thermal systems based on the concepts of the “Synthetic

Tree” and the Superheated Loop Heat Pipe developed by the team of Prof. Stroock from Cornell University. The starting point of this was a three month stay at the Stroock Lab at Cornell University in 2016, financed by the Fulbright program. In parallel to these two main tasks Víctor Martínez was chair of the scientific committee of the Eurosun 2016 congress and contributed to the Marie Curie ITN project SHINE as the IP for the University of the Balearic Islands and supervisor of the Thesis of Julian Hertel and Nicolás Pérez-Mora, a PhD candidate from the company Sampol Ingeniería y Obras, that was also partner of the project.

Part C. RELEVANT MERITS

C.1. Publications (including books)

Scientific papers:

Hertel, J D; et al. (4/). 2018. Incidence-Angle- and Wavelength-Resolved Ray-Tracing Simulations of a Linear Fresnel Collector Using the In-House Software otsun 901201 - Journal of Solar Energy Engineering-Transactions of the ASME. 140-3. ISSN0199-6231.

Nicolás Pérez-Mora; et al. 2017. Optimal management of a complex DHC plant 904597 - Energy Conversion and Management. 145, pp.386-397. ISSN 0196-8904.

Julian D. Hertel; Víctor Martínez-Moll; Ramón Pujol-Nadal. 2017. A sensitivity analysis for ray-tracing simulations of concentrating solar collectors 910738 -Optics Express. ISSN 1094-4087.

Nicolas Perez-Mora; et al. 2017. Solar district heating and cooling: A review 904603 - International Journal of Energy Research. ISSN 0363-907X.

Hertel, J. D.; Martinez-Moll, V.; Pujol-Nadal, R.(3/). 2016. Influence of thermal losses on the incidence angle modifier factorization approach 901206 - Solar Energy. 135, pp.50-58. ISSN 0038-092X.

Beatriz Rosselló-Batlle; et al. (4/). 2015. Saving potential for embodied energy and CO2 emissions from building elements: A case study 914155 - Journal Of Building Physics. 39-3, pp.261-284. ISSN 1744-2591.

Alorda, B.; et al. (5/). 2015. Collaborative distributed sun-tracking control system for building integration with minimal plant area and maximum energy-conversion efficiency 904708 - International Journal of Electrical Power & Energy Systems. 70, pp.52-60. ISSN 0142-0615.

Pujol-Nadal, R.; et al. (4/). 2015. Optical and thermal characterization of a variable geometry concentrator using ray-tracing tools and experimental data 901187 -Applied Energy. Elsevier. 155, pp.100-110. ISSN 0306-2619.

Sallaberry, F.; et al. (4/). 2015. Toward a standard testing methodology for solar thermal collectors with variable-geometry: The direct radiation incidence angle modifier issue 901206 - Solar Energy. 121, pp.31-40. ISSN 0038-092X.

Hertel, J. D.; Martinez-Moll, V.; Pujol-Nadal, R.(3/). 2015. Estimation of the influence of different incidence angle modifier models on the biaxial factorization approach 904597 - Energy Conversion and Management. 106, pp.249-259. ISSN 0196-8904.

Rosselló-Batlle, B.; et al. (4/). 2015. An assessment of the relationship between embodied and thermal energy demands in dwellings in a Mediterranean climate 904600 - Energy and Buildings. 109-15, pp.230-244. ISSN 0378-7788.

Sallaberry, F.; et al. (4/). 2014. Optical and thermal characterization procedure for a variable geometry concentrator: A standard approach 909378 – Renewable Energy. 68, pp.842-852. ISSN 0960-1481.

Pujol Nadal, R.; Martínez Moll, V.2014. Optical characterization of a fixed mirror solar concentrator prototype by the ray-tracing procedure 916039 - Journal Of Renewable And Sustainable Energy. 6. ISSN 1941-7012.

Pujol Nadal, R.; Martínez Moll, V.(2/). 2013. Optical analysis of a curved-slats fixed-mirror solar concentrator by a forward ray-tracing procedure 916856 -Applied Optics. 52-30, pp.7389-7398. ISSN 1559-128X.

Pujol-Nadal, R.; Martínez-Moll, V.(2/). 2013. Parametric Analysis of the Curved Slats Fixed Mirror Solar Concentrator for Medium Temperature Applications 904597- Energy Conversion and Management. 78, pp.676-683. ISSN 0196-8904.

Pujol-Nadal, R.; Martínez-Moll, V.; Moià-Pol, A.(3/). 2013. Parametric Analysis of the Fixed Mirror Solar Concentrator for Medium Temperature Applications 901201 - Journal of Solar Energy Engineering-Transactions of the ASME. 136-1. ISSN0199-6231.

Pujol Nadal, R.; Martínez Moll, V.(2/). 2012. Optical analysis of the Fixed Mirror Solar Concentrator by forward ray-tracing procedure 901201 - Journal of Solar Energy Engineering-Transactions of the ASME. 134(3)-3. ISSN 0199-6231.

Martínez, V.; et al. (4/1). 2011. Numerical and Experimental Analysis of Stresses and Failure in T-Bolt joints 904933 - Composite Structures. 93-10, pp.2636-2645. ISSN 0263-8223.

Rosselló, B.; et al. (4/4). 2010. Energy use, CO2 emissions and waste throughout the life cycle of a sample of hotels in the Balearic Islands.904600 - Energy and Buildings. 42-4, pp.547-558. ISSN 0378-7788.

Book chapters:

Victor Martinez Moll. (1/). 2008. Concentrating Collectors with Stationary Reflector Process Heat Collectors: State of the Art within Task 33/IV. AEE Intec. pp.22-24.

Mayugo, J. A.; et al. (4/). 2002. Diseño de Estructuras de Materiales Compuestos. Aplicación a Palas de Aerogenerador Análisis y cálculo de estructuras de materiales compuestos. Centro Internacional de Métodos Numéricos En Ingeniería. pp.433-455. ISBN 84-95999-06-4.

C.2. Research projects and grants

PITN-GA-2012-317085, SHINE - Solar Heat Integration Network European Commission. Victor Martínez Moll. (Universidad de las Islas Baleares). 01/10/2013-30/04/2018. 266.281,62 €.

03_2011_LH03_Industry E E, Processes and living lab for industry energy efficiency European Institute of Innovation and Technology. Antoni Julià Sirvent. (Tecnologia Solar Concentradora S.L.). 31/05/2011-31/12/2012. 29.000 €.

BA-2010-CALT-0010-PY, Construcción, Ensayo y Protección Intelectual Prototipo CCStaR V2 Direcció General de Promoció Industrial de la Conselleria de Comerç, Indústria i Energia del Govern de les Illes Balears. Víctor Martínez Moll. (Direcció General de Promoció Industrial de la Conselleria de Comerç, Indústria i Energia del Govern de les Illes Balears). 2010-2011. 33.250 €.

DEX-590000-2008-33, Industrialización, mejora y nuevo desarrollo integrado de captador solar concentrador con reflector estacionario Ministerio de Industria Turismo y Comercio. Victor Martínez Moll. (Universidad de las Islas Baleares). 01/07/2008-31/05/2009. 32.299 €.

PROGECIB - 43 A, Millora de la sostenibilitat ambiental dels edificis hotelers mitjançant l'anàlisi del seu cicle de vida Conselleria d'Economia, Hisenda i Innovació. Govern de les Illes Balears. Victor Martínez Moll. (Universidad de las Islas Baleares). 01/04/2007-31/03/2009. 27.999,99 €.

CIT-120000-2007-38, Desarrollo de un captador solar concentrador con reflector estacionario Ministerio de Educación y Ciencia. Victor Martínez Moll. (Universidad de las Islas Baleares). 01/01/2007-30/10/2007. 54.000 €.

C.3. Contracts

Convenio ref. 1613 2008, CONVENIO DE COLABORACIÓN ENTRE LA EMPRESA SAMPOL INGENIERÍA Y OBRAS, SA, LA UNIVERSITAT DE LES ILLES BALEARS (UIB) I LA CONSELLERIA DE COMERÇ, INDÚSTRIA I ENERGIA PARA ACTUACIONES DE INVESTIGACIÓN Y FOMENTO DE SISTEMAS DE GENERACIÓN DISTRIBUIDA, TRIGENERACIÓN I REDES DE DISTRITO EN LAS ISLAS BALEARES Govern de les Illes Balears - Universitat de les Illes Balears; Empresa privada. Andreu Moià Pol, Victor Martínez Moll,altres. (Universidad de las Islas Baleares). 2008-2008. 27.000 €.

C.4. Patents

Martínez Moll, Víctor; Pujol Nadal, Ramón; Paz Bernales, Huáscar; Riba Romeva, Carles; Martínez Verdú, David; Moià Pol, Andreu; Schweiger, Hans. ES2326353B1. Dispositivo concentrador-captador de energía solar Spain. 2007. 3138 - Tecnologia Solar Concentradora S.L.

Martínez Moll, Víctor; Pujol Nadal, Ramón; Montesino Semper, Jaime; Moià Pol, Andreu; Paz Bernales, Huáscar; Trobat Obrador, Gabriel. ES2322837B1. Unidad reflectora-concentradora, procedimiento de fabricación de la misma, y dispositivo captador solar comprendiendo dicha unidad reflectora-concentradora Spain. 2007. 3138- Tecnologia Solar Concentradora S.L.