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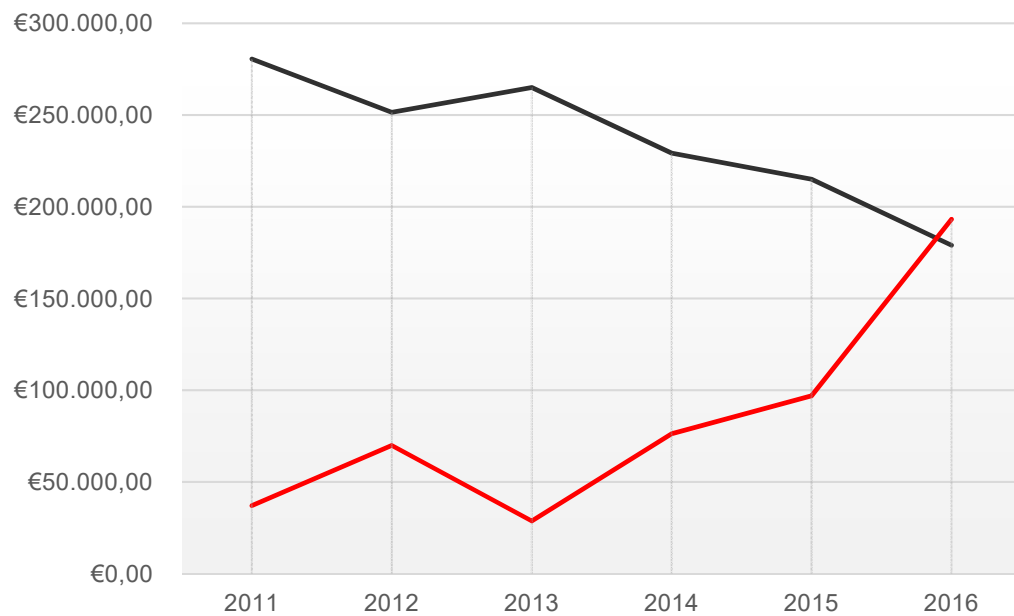
Sergio Fernández  
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Valencia, 9 Mayo 2017



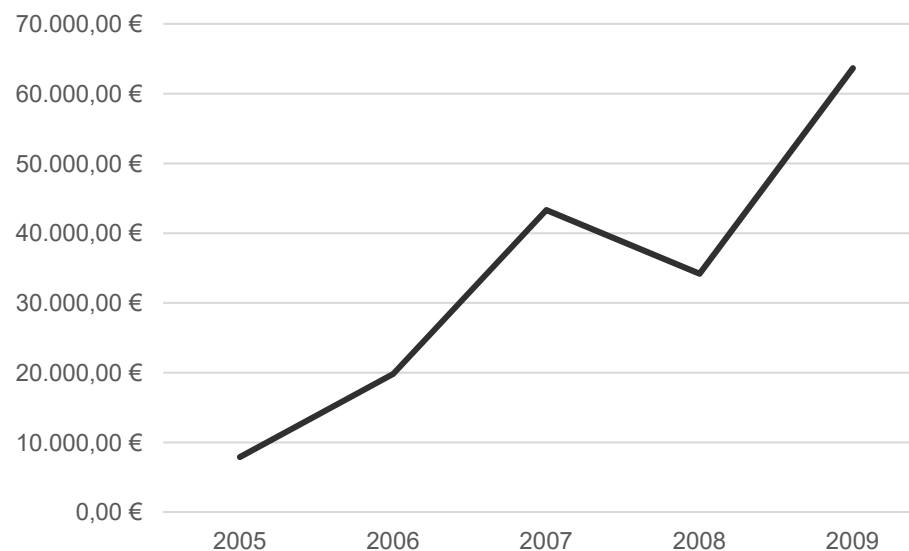
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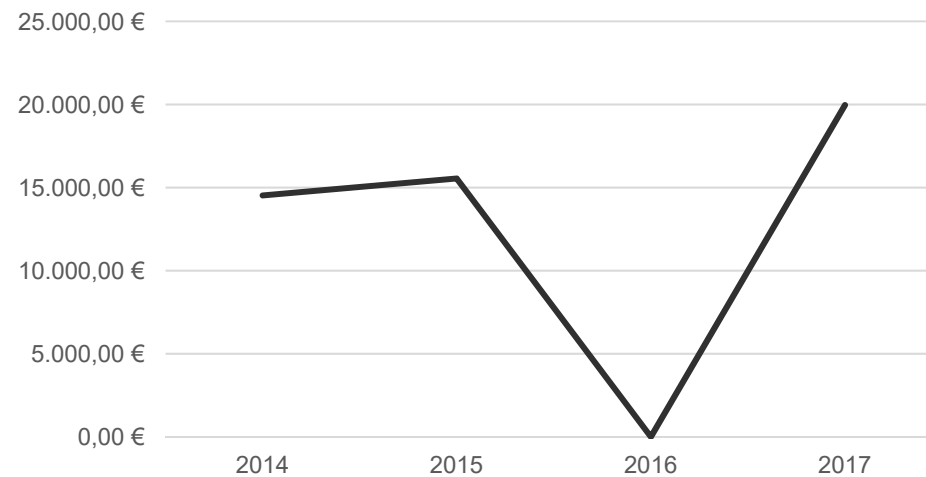
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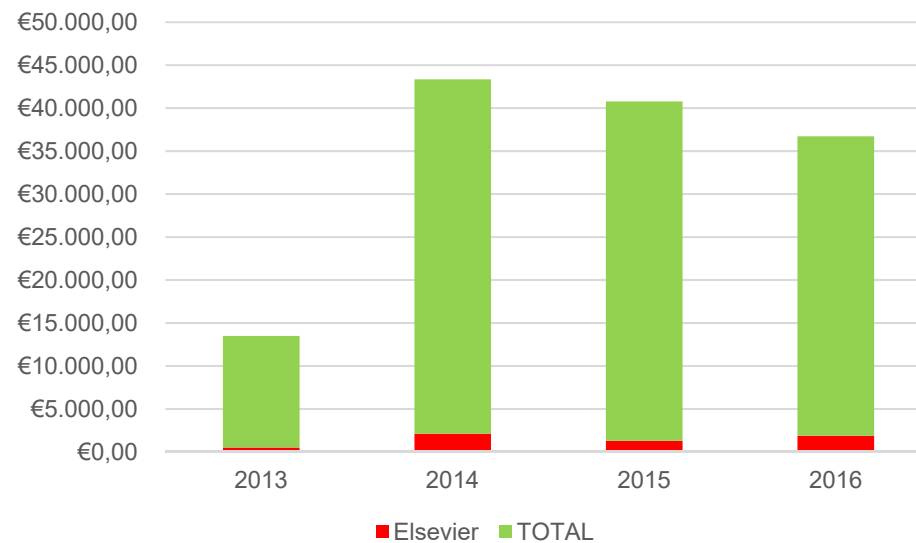
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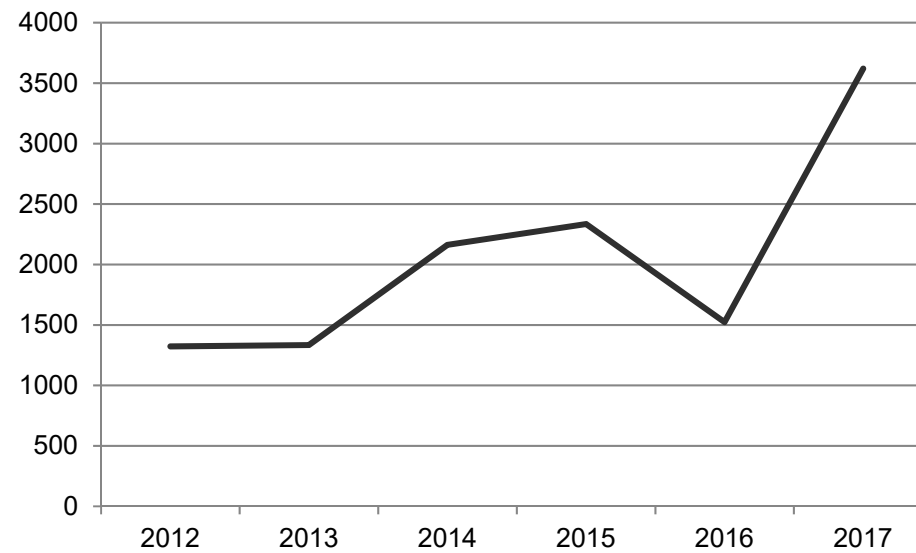
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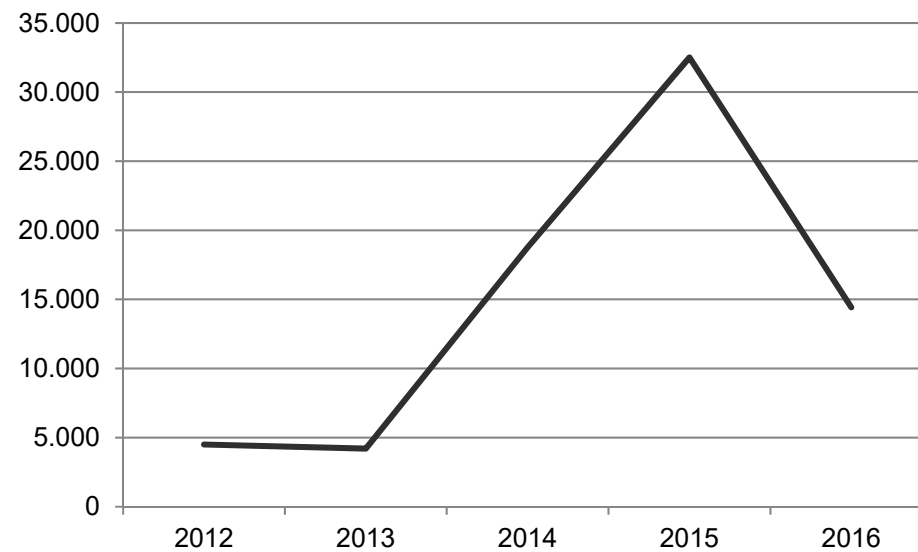
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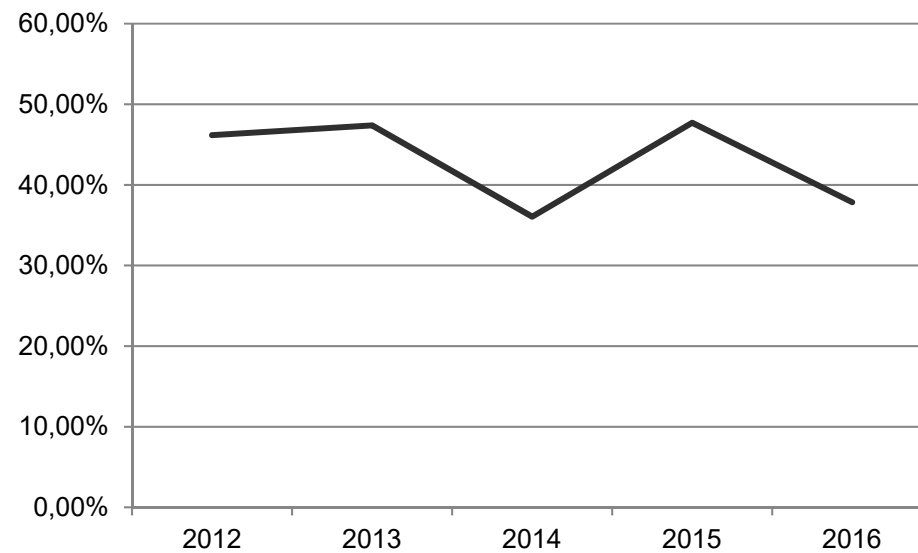
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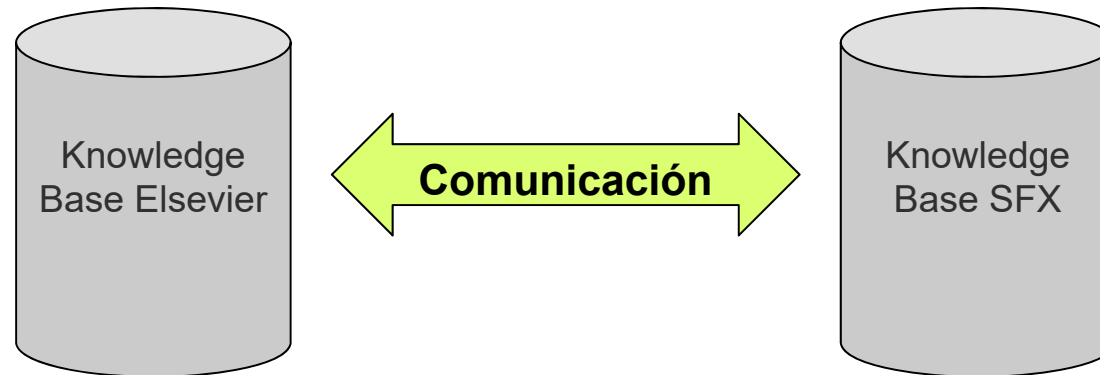
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2016, Pages 199–215

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C. Chevalier, C. Kerisit, A. Klavzar F. Boussu D. Coutellier

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This chapter highlights the influence of the dynamic characteristic of yarn on the ballistic performance of fabric submitted to impact. A brief review of existing research works done on the dynamic tensile test known as the Hopkinson bar, and more recently the Split Flying Bar, is presented. A new dynamic tensile test, called the Split Flying Mass, has been proposed, ensuring improvement in the tension of yarn, accuracy of measurement, and avoiding any slippage of yarn inside the clamping jaws during high-strain velocity tests. Experimental results conducted on para-aramid multifilament yarn have confirmed the increase of stiffness, revealing the specific dynamic deformation mode of high-performance yarns used in ballistic applications.

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Measurement Science and Technology, Volume 27, Issue 10, 2

September 2016

Abstract

© 2016 IOP Publishing Ltd. Fabrics have been widely used as part of ballistic protections since the 1970s and the development of new ballistic solutions made from fabrics need numerical simulations, in order to predict the performance of the ballistic protection. The performances and the induced mechanisms in ballistic

Chocron Benloulou et al., 1997 I. Chocron Benloulou, J. Rodriguez, M. Martinez, V. Sanchez Galvez

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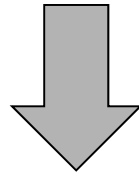
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# Muchas gracias

Sergio Fernández  
Francisco José Rubio

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