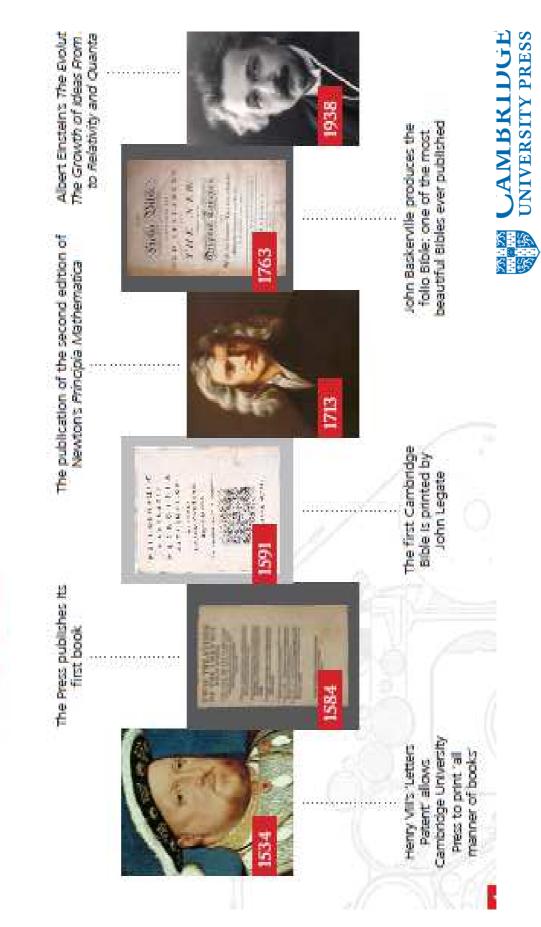
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Simon Ross Deputy Managing Director Academic Publishing March 2015





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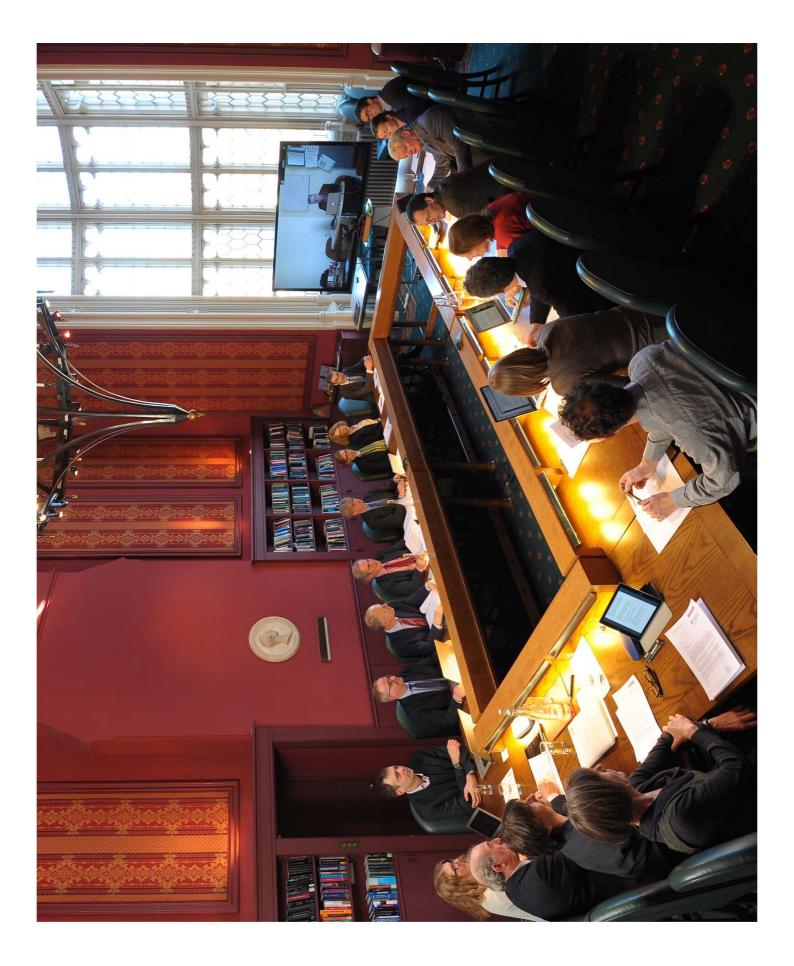
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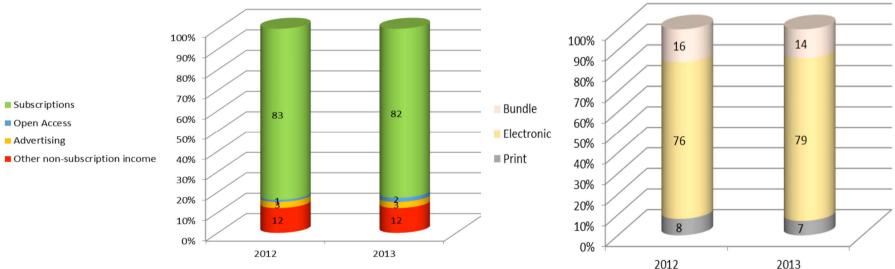
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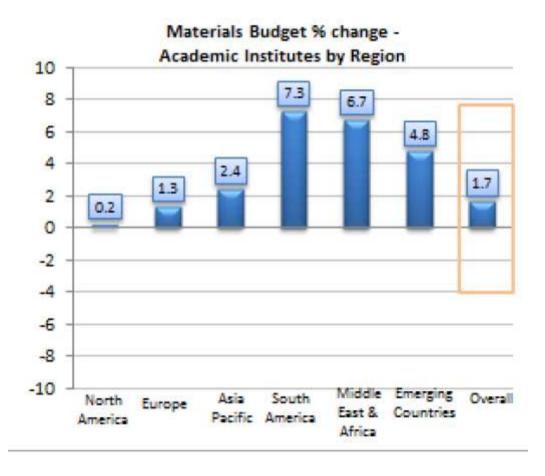


## But market, customer and user focus now essential

- Competition and global slowing or flattening of library budgets
- Changing distribution of global research funding
- Increasing role of technology to deliver content+
- + social media, support multiple formats, different format types (data, software etc, services)
- all integrated
- Open Access, Institutional Repositories and the role of the library/institution
- How? Engaging more and listening to customers and users
   CAMBRI



#### Library budgets - growth, but not much



Source: PCG library budget predictions report 2015

- Survey predicts

   average growth of
   1.7% in academic
   library materials
   budgets in 2015 (cf.
   1.4% last year)
- This breaks down into 1.9% for serials and 1.1% for books



### Library Budget Predictions 2015 Source PCG 2015 Library Report

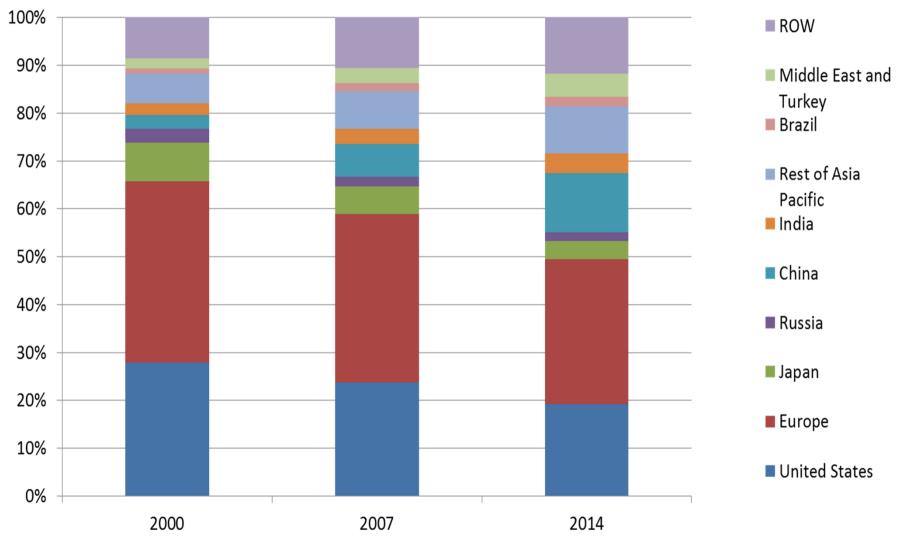


North America		
Books	-0.5%	
Journals:	0.2%	

South America			
Books	4.6%		
Journals	5.7%		



#### Market landscape: Global Research funding



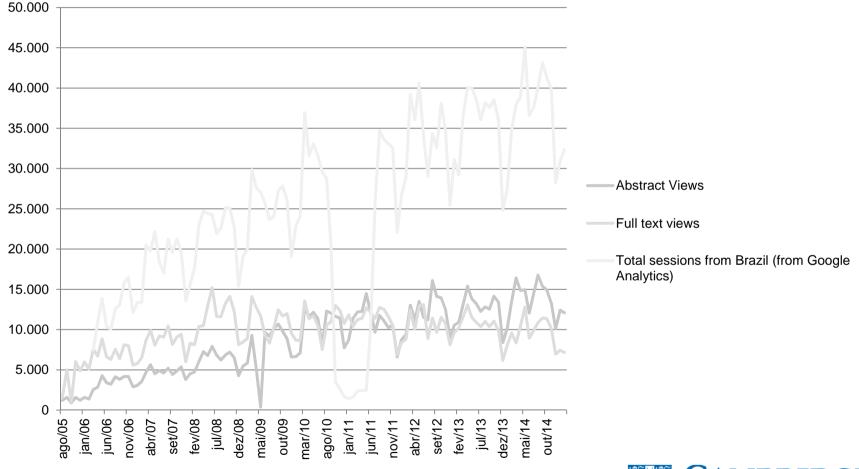


#### Library panel – key themes at recent events

- Focus on **outcomes**: student experience, engagement, achievement
- **Metrics** used to measure value are becoming increasingly important, complex and diverse
- New purchasing is increasingly driven by academic demand (rather than collection building)
- **Metadata** is key to discovery, driving usage, some libraries also value marketing material and tools to drive awareness of resources
- Adoption/recommendation is increasingly important to textbook sales
   as reading list software drives purchasing
- Varied but growing library support in publishing research outputs
- Increasingly complex business models for purchasing, value focus
- Spectrum of engagement with OA across regions/institution types
- Institutional repositories
- Support in training end-users is appreciated



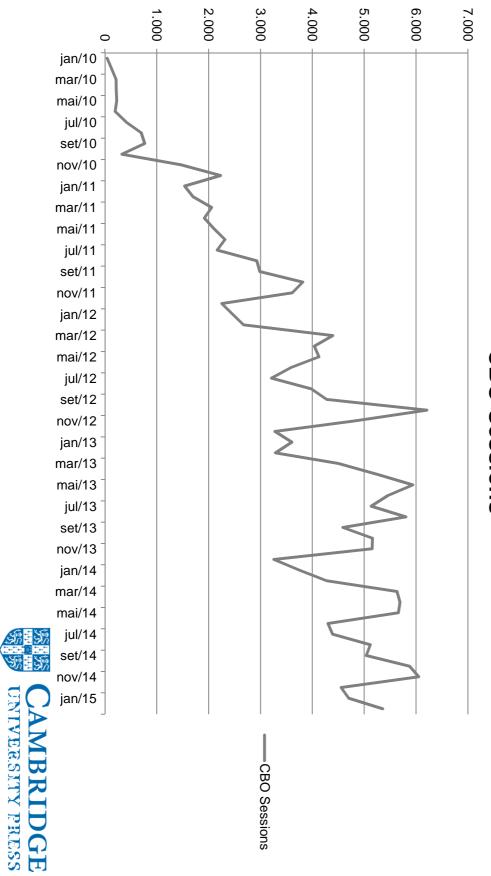
## CAPES CJO usage and CJO sessions originating in Brazil combined





# CBO sessions originating in Brazi



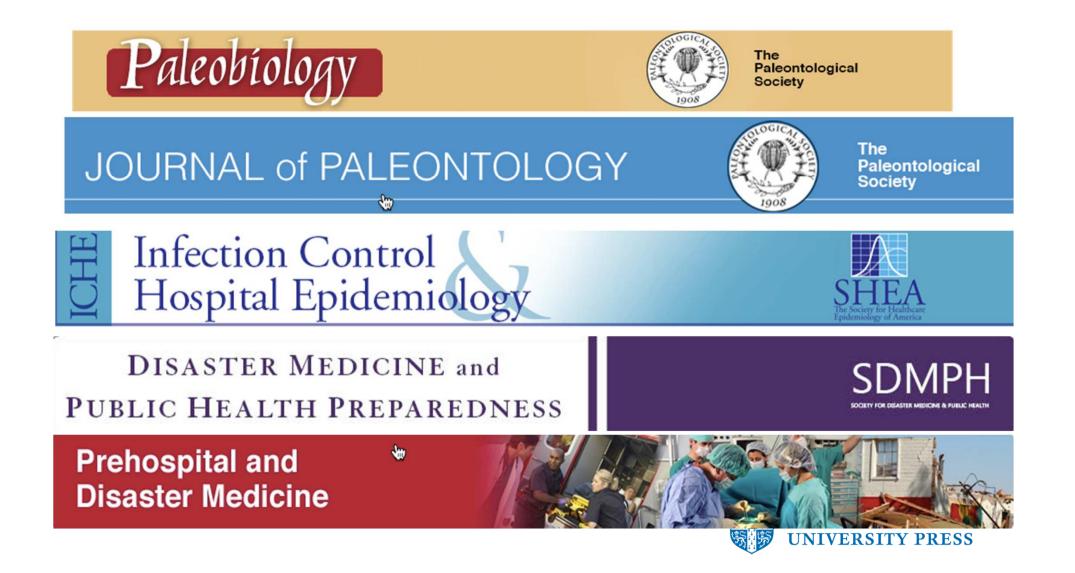


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- Green OA publisher
- New OA launch: Global Mental Health
- Society subscription journal to OA: Journal of Applied Agricultural Economics
- New OA developments from existing titles
- Expert Reviews in Molecular Medicine,
- Quarterly Review of Biophysics
- Parasitology Open
- British Journal of Nutrition Journal of Nutritional Science
- New society subsidized launch British Journal for the History of Science
   BJHS Themes
- Successful OA book publishing *The History Manifesto* by David Armitage and Jo Guldi



#### New key titles



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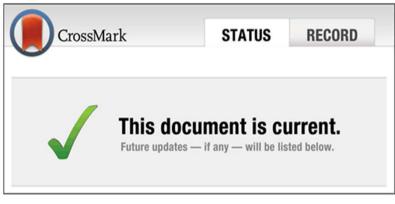
CrossMark to be rolled out across most articles on CJO this year.

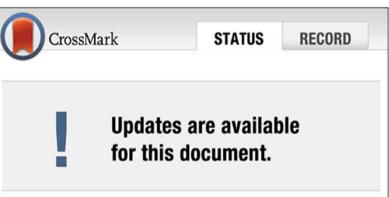
#### FundRef

FundRef allows authors to identify the funding bodies behind their research.

Articles submitted via CJO can now detail funding information

Work will follow to incorporate this functionality into our manuscript submission systems





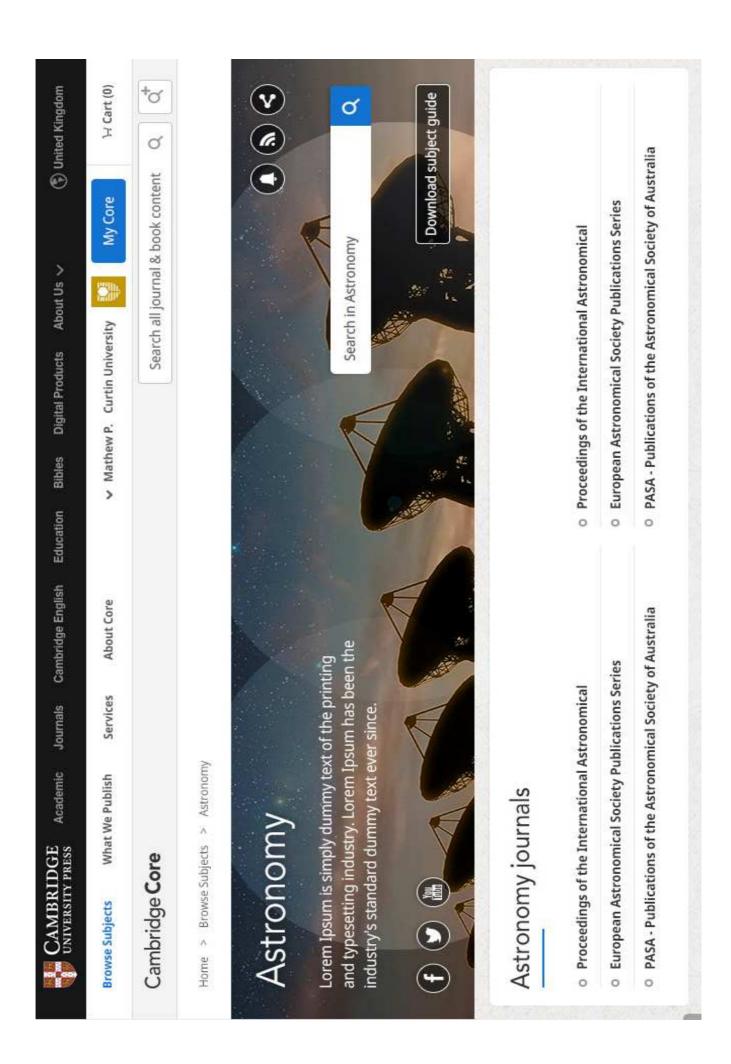


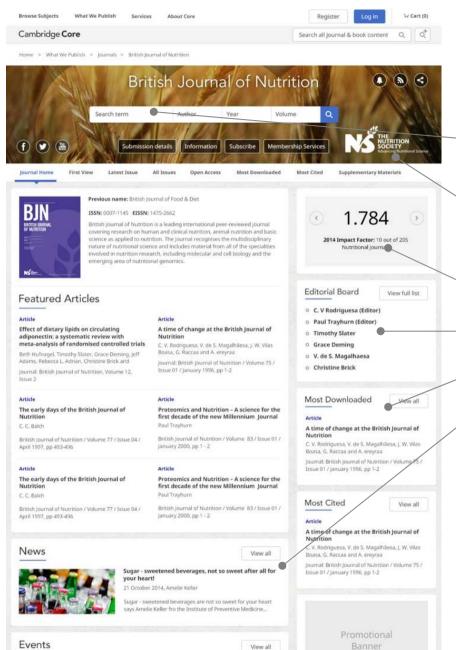


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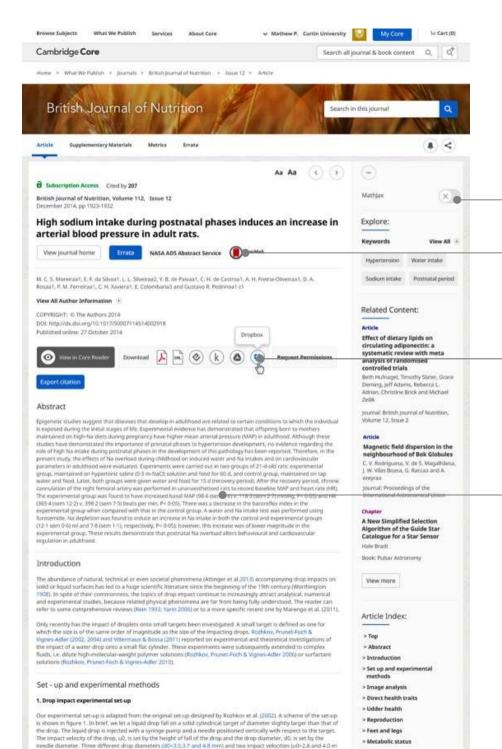
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#### Free radially expanding liquid sheet in air: time and space

#### resolved measurement of the thickness field

February 2015, pp 428 - 444

#### C. Vernaya1, L. Ramosa1 c1 and C. Ligourea1 c1

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#### Abstract

The collision of a liquid drop against a small target results in the formation of a thin liquid sheet that extends radially until it reaches a maximum diameter. The subsequent retraction is due to the air-liquid surface tension. We have used a time and space resolved technique to measure the thickness field of this class of liquid sheet, based on the grey-level measurement of the image of a dyed liquid sheet recorded using a high-speed camera. This method enables a precise measurement of the thickness in the range 10-450 µm, with a temporal resolution equal to that of the camera. We have measured the evolution with time since impact, t, and radial position, r, of the thickness, h(r,t), for various drop volumes and impact velocities. Two asymptotic regimes for the expansion of the sheet are evidenced. The scalings of the thickness with t and r measured in the two regimes are those that were predicted by Rozhkov et al. (Proc. R. Soc. Lond, A. vol. 460, 2004, pp. 2681-2704) for the short-time regime and Villermaux and Bossa (J. Fluid Mech., vol. 668, 2011, pp. 412-435) for the long-time regime, but never experimentally measured before. Interestingly, our experimental data also provide evidence for the existence of a maximum of the film thickness hmax(r) at a radial position rhmax(t) corresponding to the cross-over of these two asymptotic regimes. The maximum moves with a constant velocity of the order of the drop impact velocity, as expected theoretically. Thanks to our visualization technique, we also provide evidence of an azimuthal thickness modulation of the liquid sheets.

#### Introduction

The abundance of natural, technical or even societal phenomena (Attinger et al.2013) accompanying drop impacts on solid or liquid surfaces has led to a huge scientific literature since the beginning of the 19th century (Worthington 1908). In spite of their commonness, the topics of drop impact continue to increasingly attract analytical, numerical and experimental studies, because related physical phenomena are far from being fully understood. The reader can refer to some comprehensive reviews (Rein 1993; Yarin 2006) or to a more specific recent one by Marengo et al. (2011).

Only recently has the impact of droplets onto small targets been investigated. A small target is defined as one for which the size is of the same order of magnitude as the size of the impacting drops. Rozhkov, Prunet-Foch & Vignes-Adler (2002, 2004) and Villermaux & Bossa (2011) reported on experimental and theoretical investigations of the impact of a water drop onto a small flat cylinder. These experiments were subsequently extended to complex fluids, i.e. dliute high-molecular-weight polymer solutions (Rozhkov, Prunet-Foch & Vignes-Adler 2006) or surfactant solutions (Rozhkov, Prunet-Foch & Vignes-Adler 2010).

#### Set-up and experimental methods

#### 1. Drop impact experimental set-up

Our experimental set-up is adapted from the original set-up designed by Rozhkov et al. (2002). A scheme of the set-up is shown in figure 1. In brief, we let a liquid drop fall on a solid cylindri-

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#### Free radially expanding liquid sheet in air: time and space resolved measurement of the thickness field

C. Vernaya1, L. Ramosa1 c1 and C. Ligourea1 c1



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#### Abstract

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Figures:

a) Time evolution of the thickness of a liquid sheet. Actual and cormalized data are plotted for different radial positions, as indicated in the legend of (b). Inset: Representative data pri a log/log scale to highlight the two isymptotic scaling regimes



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#### Free radially expanding liquid sheet in air: time and space resolved measurement of the thickness field

C. Vernaya1, L. Ramosa1 c1 and C. Ligourea1 c1

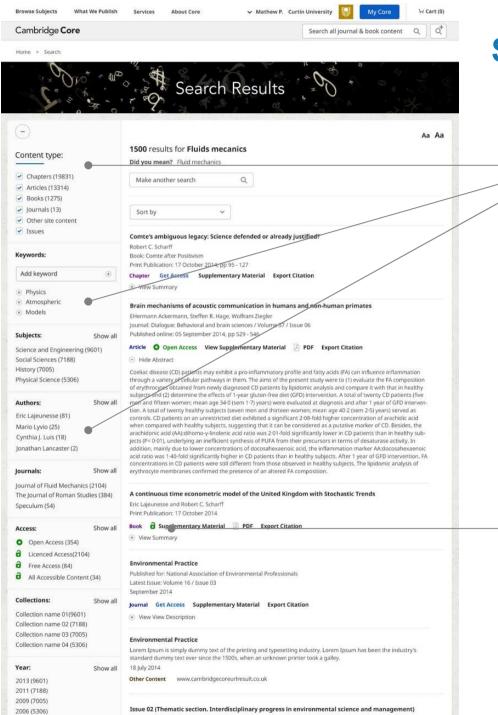


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