

# Taking the guesswork out of author searching

- the why, the how & the what -

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Head of Scopus Product Management

Annual CrossRef meeting

Cambridge – November 1<sup>st</sup>, 2006

# Why?

- Finding author-related information is one of the most common search patterns.
- Author searching in databases was hampered by two serious problems:
  - *How to distinguish between an author's articles and those of another authors sharing the same name?*
  - *How to group an author's articles together when his or her name has been recorded in different ways?*

# Some examples

- A Nobel laureate
  - *Theodor Haensch*
  - *T. Haensch*
  - *Theodor W. Haensch*
  - *Theoder Hänsch*
  - *T. Hänsch*
  - *Theodor W. Hänsch*
  - ...
- Two different authors:
  - *J.R. Weertman and J.R Weertman*
  - *Material Science*
  - *Northwestern University*
- Inaccurate and incomplete results
- Time-consuming

# How?

- Three possible approaches:
  - *User-created*
  - *Authority file*
  - *Algorithm*
- How did we approach this?
  - *Top down approach: algorithm using array of data in records.*
  - *Incorporating a 'bottom up' aspect by including author feedback on where our matching or data needs improvement.*

# What information do we use?

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**Effect of the polyethylene confinement and topology on its crystallisation within semicrystalline ABC triblock copolymers**

[Balsamo, V.](#)<sup>a</sup>  , [Urdaneta, N.](#)<sup>a</sup> , [Pérez, L.](#)<sup>a</sup> , [Carrizales, P.](#)<sup>a</sup> , [Abetz, V.<sup>b</sup> !\[\]\(e0ab9361813163532c7fa95515d4d1b8\_img.jpg\), \[Müller, A.J.\]\(#\)<sup>a</sup> !\[\]\(ed9e877d645e2d53347566bd07fad403\_img.jpg\) !\[\]\(ca582ee2f4360abe90a72f4ea36cfb91\_img.jpg\)](#)

<sup>a</sup> Grupo de Polímeros USB, Depto. de Ciencia de los Materiales, Univ. Simón Bolívar, Aptdo. 89000 Baruta 1080A, Caracas, Venezuela  
<sup>b</sup> Makromolekulare Chemie II, Universität Bayreuth, 95440 Bayreuth, Germany

**Abstract** ← **Affiliation**

The isothermal crystallisation behaviour of the polyethylene block within polystyrene-b-polyethylene-b-poly(ε-caprolactone), SEC, triblock copolymers was studied by differential scanning calorimetry. The morphology was observed by transmission electron microscopy. Melting scans after isothermal crystallisation performed at different

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[Vivas, M.](#), [Contreras, J.](#)  
**Synthesis and characterizat of triblock terpolymers with three potentially crystallisal blocks: Polyethylene-b-poly(ethyle oxide)-b-poly(ε-caprolactoi (2006) *Macromoleculare Sympc***  
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[Lorenzo, A.T.](#), [Arnal, M.L.](#)  
**Confinement effects on the crystallization and SSA thermal fractionation of the block within PE-b-PS diblock copolymers**

← **Author & co-author**

# What information do we use?

distribution of linear sequences present in these blocks. The results indicate that as the degree of PE confinement increases the Avrami index decreases to values that are even lower than 1, a result that can be explained by the nature of the homogeneous nucleation process that is in between sporadic and instantaneous. © 2004 Elsevier Ltd. All rights reserved.

## Author Keywords

ABC triblock copolymers; Confinement; Equilibrium melting; Isothermal crystallisation

## References (64)

references

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 (2001) *Macromolecules*, 34 (26), pp. 8968-8977. [Cited 80 times](#).  
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[Abstract + Refs](#) [View at Publisher](#)
2.  Müller, A.J., Balsamo, V., Arnal, M.L., Jakob, T., Schmalz, H., Abetz, V.  
**Homogeneous nucleation and fractionated crystallization in block copolymers**  
 (2002) *Macromolecules*, 35 (8), pp. 3048-3058. [Cited 41 times](#).  
 doi: 10.1021/ma012026w  
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3.  Hamley, I.W.  
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 Oxford: Oxford University Press
4.  Rangarajan, Pratima, Register, Richard A., Adamson, Douglas H., Fetters, Lewis J., Bras, Wim, Naylor, Steven, Ryan, Anthony J.  
**Dynamics of structure formation in crystallizable block copolymers**  
 (1995) *Macromolecules*, 28 (5), pp. 1422-1428. [Cited 76 times](#).

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6.	<input type="checkbox"/> <b>Muller, Alfred Johannes</b> Muller, Alfred J. Muller, Alfred	<input type="button" value="28"/> <a href="#">Details</a>	Biochemistry, Genetics and Molecular Biology; Physics and Astronomy; Chemistry; ...	University of the Orange Free State, Department of

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- Search is only a means to achieve something else:
  - *Find new articles, citations, etc.*
  - *Evaluate the author's work*
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(2006) *Journal of Polymer Science, Part B: Polymer Physics*
- [Lorenzo, A.T.](#), [Arnal, M.L.](#), [Müller, A.J.](#), [Boschetti De Fierro, A.](#), [Abetz, V.](#)  
**Confinement effects on the crystallization and SSA thermal fractionation of the PE block within PE-b-PS diblock copolymers**  
(2006) *European Polymer*

# Reaction on author disambiguation

1,500+ e-mails

- In general authors are extremely positive and understanding of errors

1,300+ corrections

- Each one has been reviewed for accuracy and legitimacy, resulting in splits and merges
- The remainder under investigation our pending outstanding action

# Where to from here?

- Continuously improve precision and recall
- Improve data and precision and recall by adding via author feedback and new or corrected data
- What users said they want ...
  - *Even easier searching*
  - *More options once the author is found*

Any Questions?

[n.weertman@elsevier.com](mailto:n.weertman@elsevier.com)