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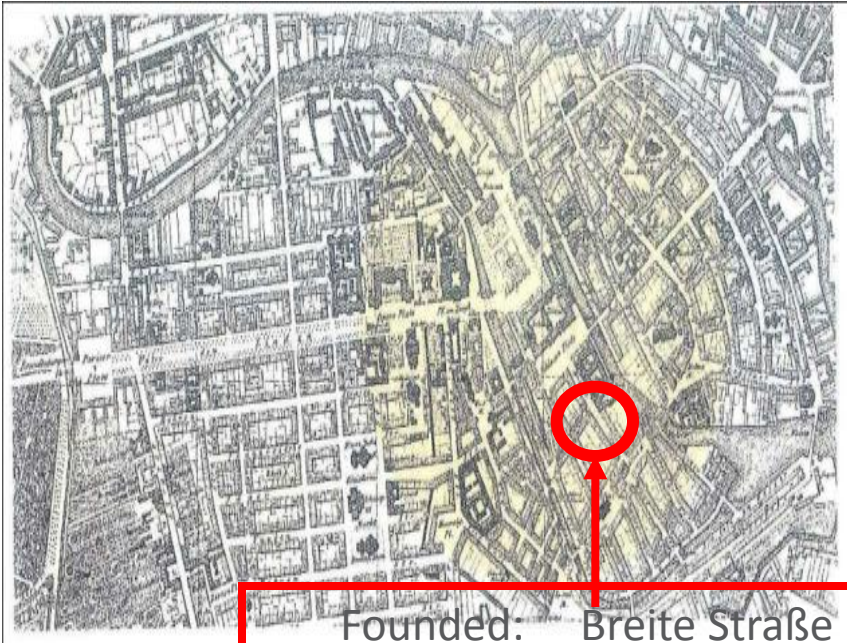
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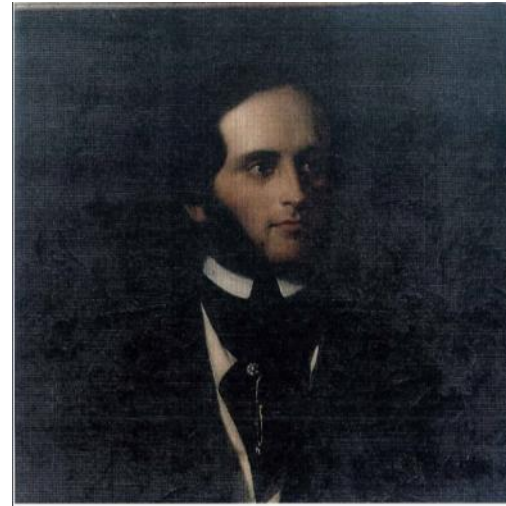
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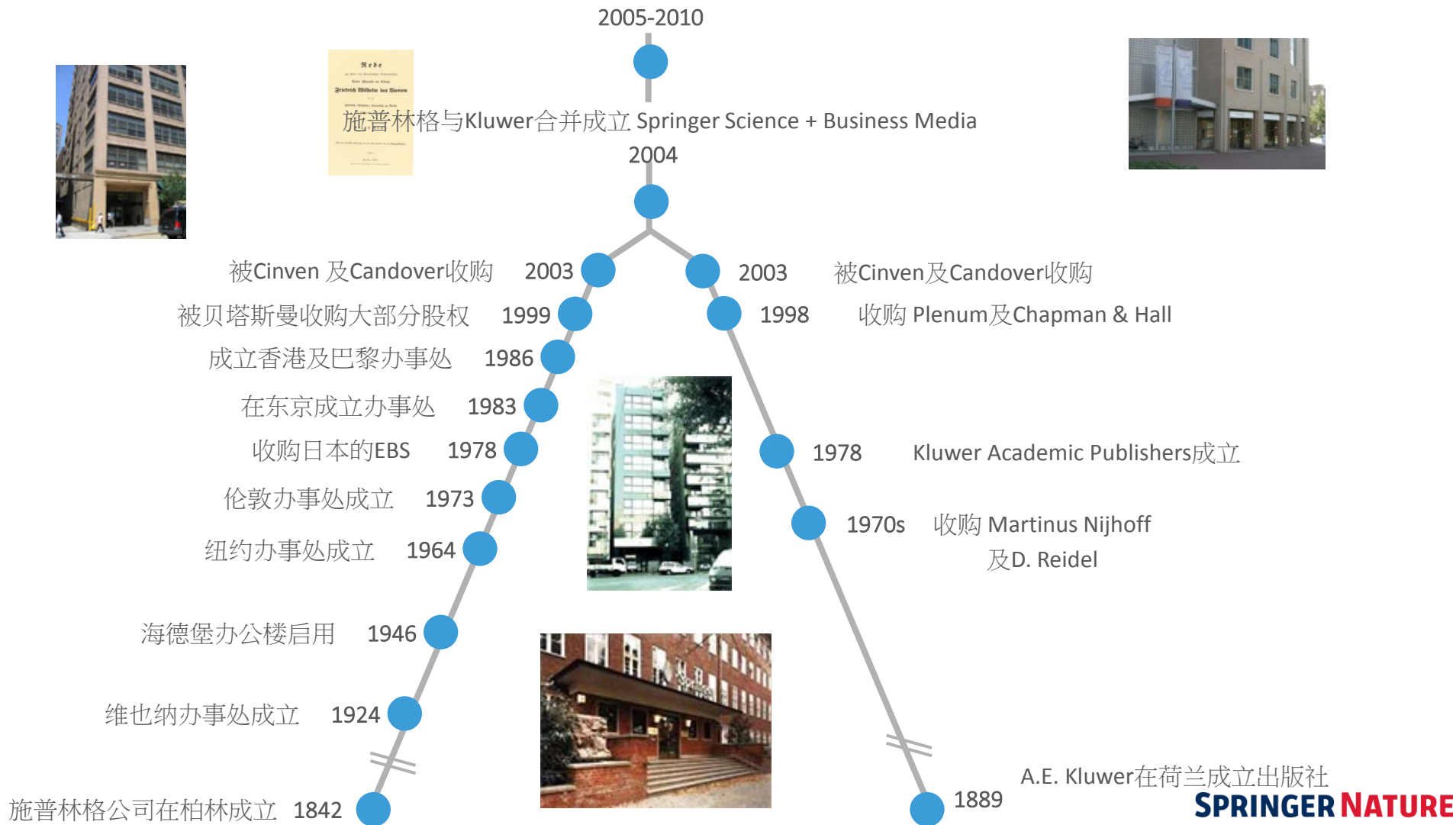
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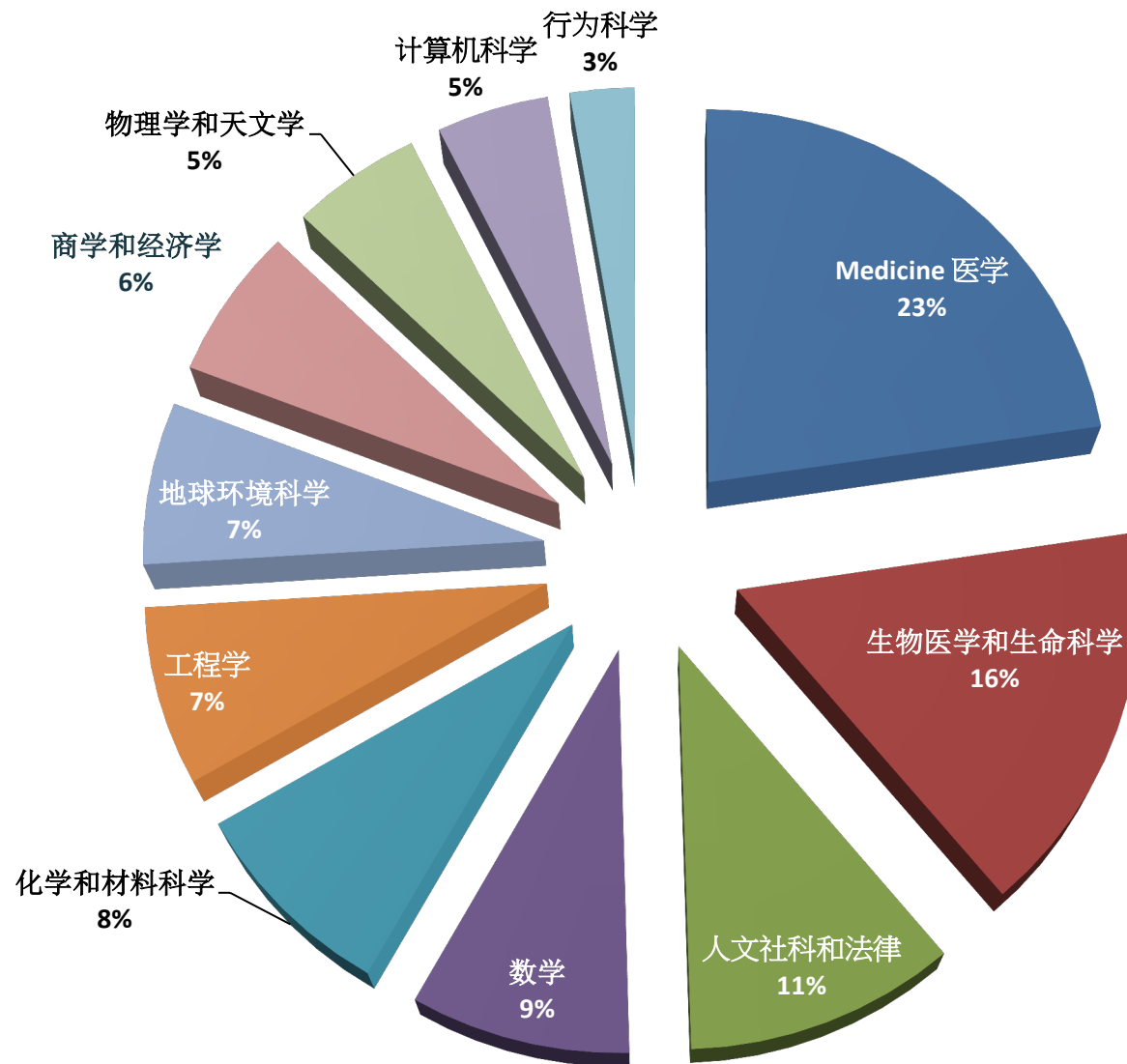
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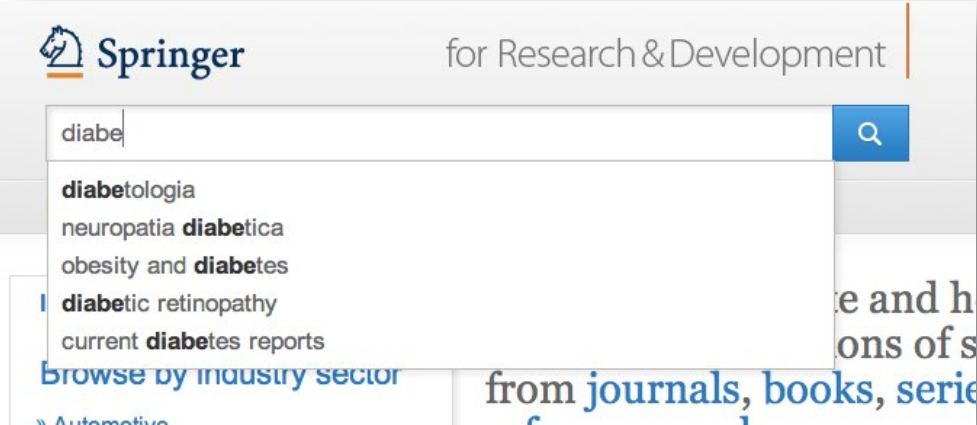
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Results

Patient characteristics

Between 11/04/2003 and 12/13/2004, seven patients were seen in this initial cohort. Table 1 summarizes the baseline characteristics.

Table 1 Baseline demographics and clinical characteristics

Baseline characteristics
Patients evaluable/enrolled
Gender: Female %

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European Biophysics Journal with Biophysics Letters
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10.1007/s00249-012-0820-x

Review

Validation of macro

Michal Hammel¹ ✉

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Email: mhammel@lbl.gov

Received: 4 March 2012 Revised: 22 April 2012

Abstract

The dynamics of macromolecular conformations are critical to the action of cellular processes. In this review, we combine solution-scattering data with high-resolution structures, nuclear magnetic resonance (NMR), strive to determine complete and accurate states of macromolecules. This review addresses theoretical and practical concepts, concerns, and considers techniques in conjunction with computational methods to productively combine solution and high-resolution structures. I discuss the principal means of direct identification of conformations from SAXS data followed by critical concerns about the methods used to calculate from high-resolution structures. The SAXS profile is a direct interrogation of the structure and techniques such as, for example, minimal ensemble search (MES), enhance the power of experiments by describing the SAXS profiles as population-weighted thermodynamic ensembles. Recent developments in computational techniques used for conformational sampling techniques provide a basis for assessing the level of the flexibility within a sample. These approaches sacrifice atomic detail, the knowledge gained from ensemble analysis in developing hypotheses and guiding biochemical experiments. Examples of the use

Keywords Small-angle X-ray scattering (SAXS)

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10.1007/s00249-012-0820-x

Review

Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS)

Michal Hammel¹ ✉

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Email: mhammel@lbl.gov

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Abstract

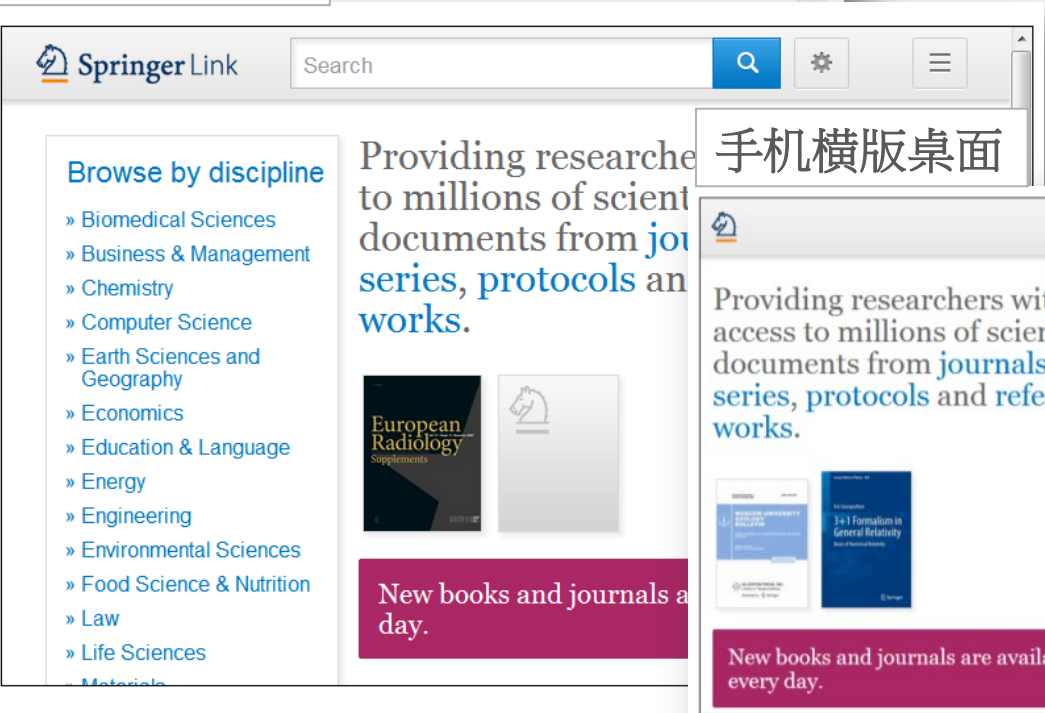
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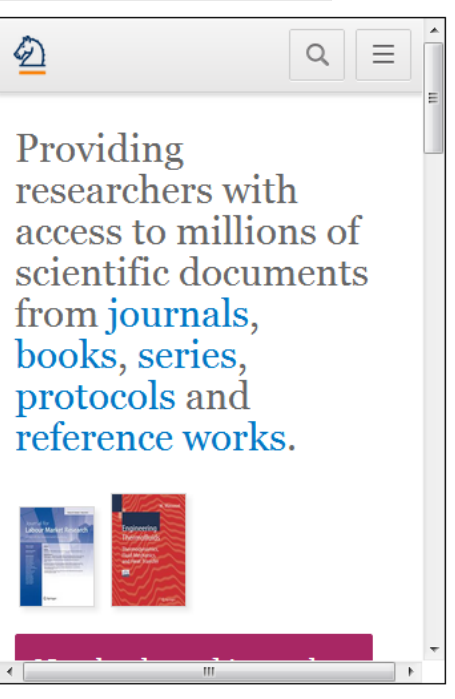
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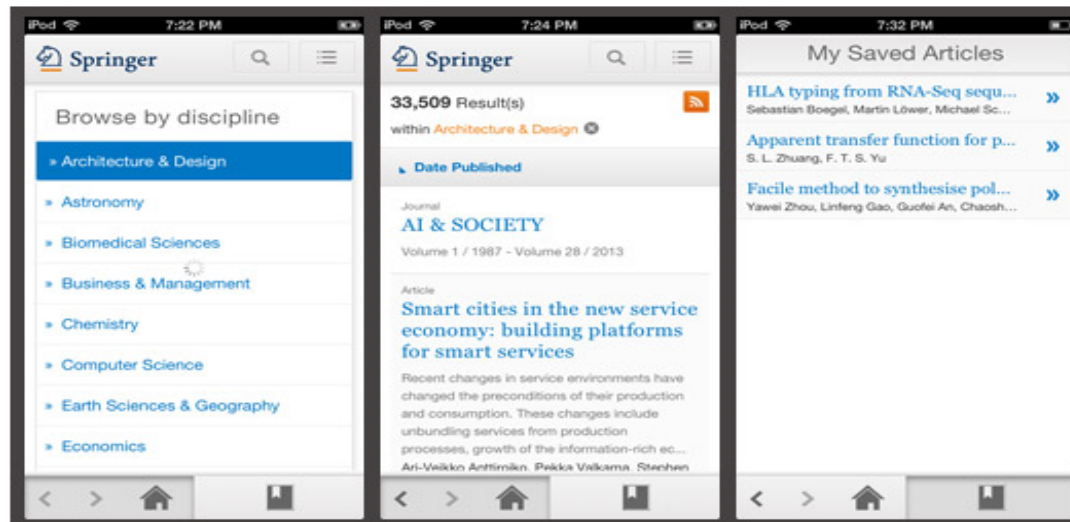
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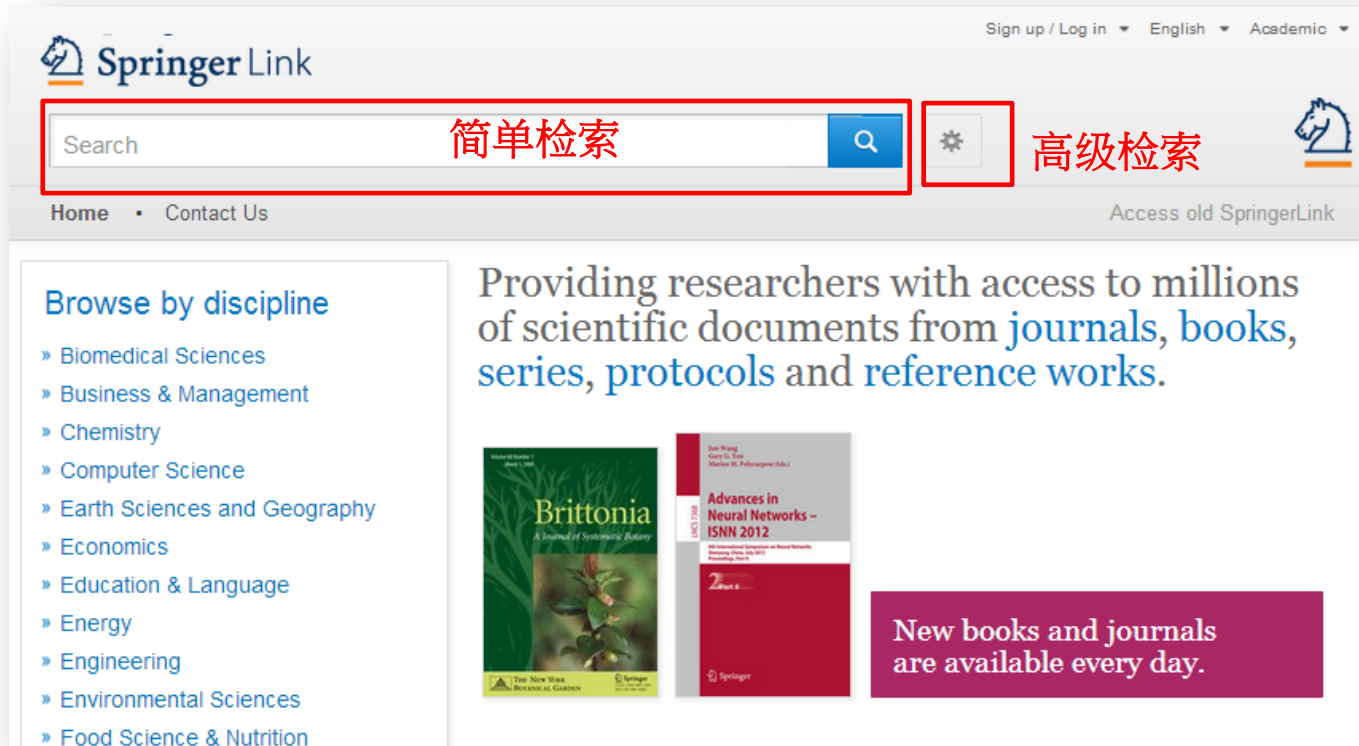
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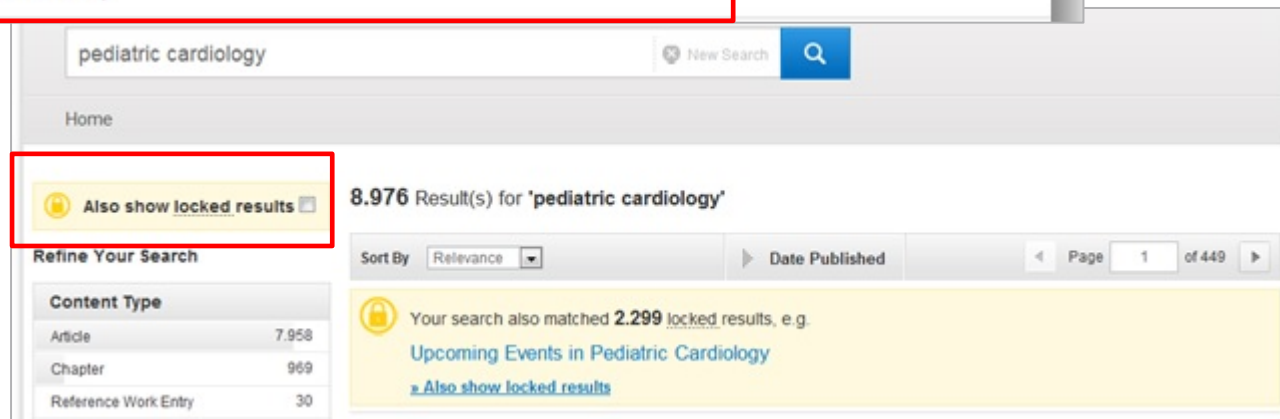
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Biorefinery: an Efficient Way to Sustainable Development of Chemical Industry—a Special Issue for International Conference on Biorefinery (ICB 07) and the 5th International Conference on Separation Science and Technology (ICSST2007)

Tianwei Tan, Jian-He Xu in *Applied Biochemistry and Biotechnology* (2010)

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Integrated Forest Biorefinery

Biorefining is an exciting concept for the pulp and paper industry, however in many ways, the industry has been considering its implementation for decades (Wising and Stuart 2006...). There have been many example...

Pratima Bajpai in *Biotechnology for Pulp and Paper Processing* (2012)

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Biorefinery

A biorefinery is a facility that integrates biomass conversion processes and equipment to produce fuels, power, and value-added chemicals from biomass. The biorefinery concept is analogous to today's crude oil...

Biorefineries (2010)

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Synthesis of an integrated biorefinery via the C–H–O ternary diagram

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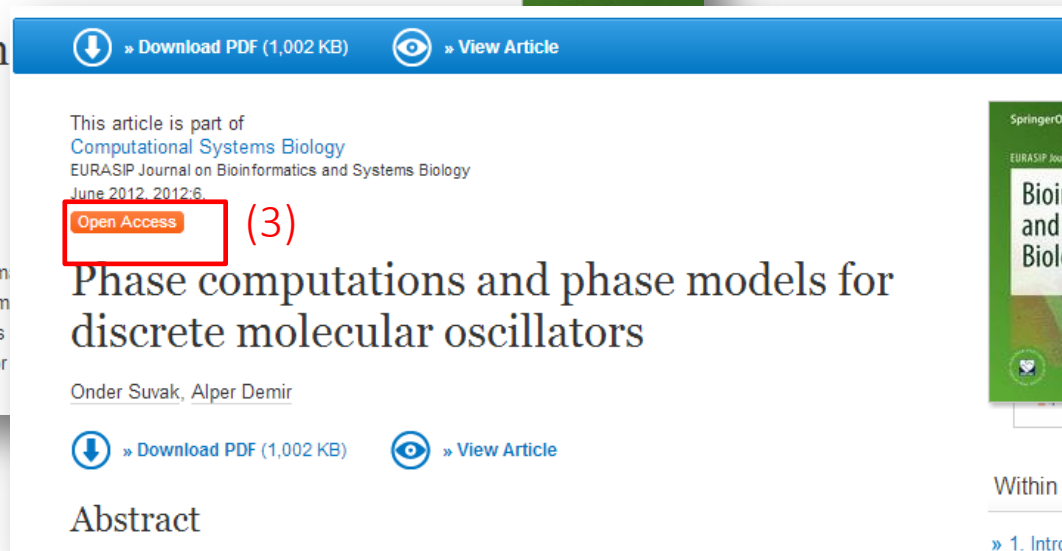
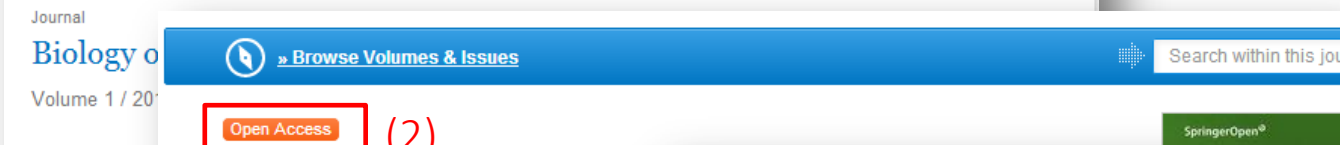
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