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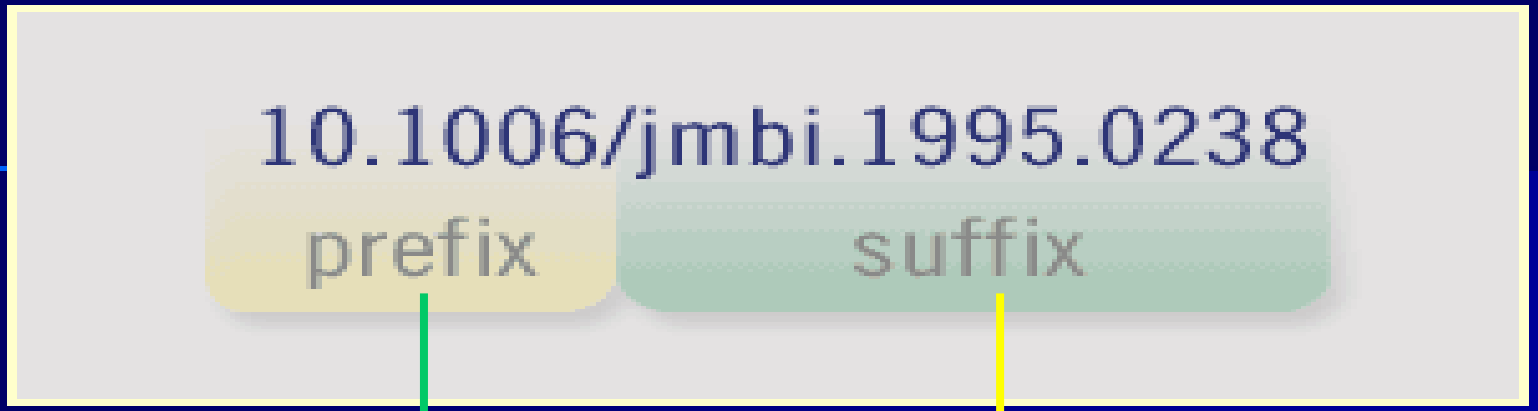

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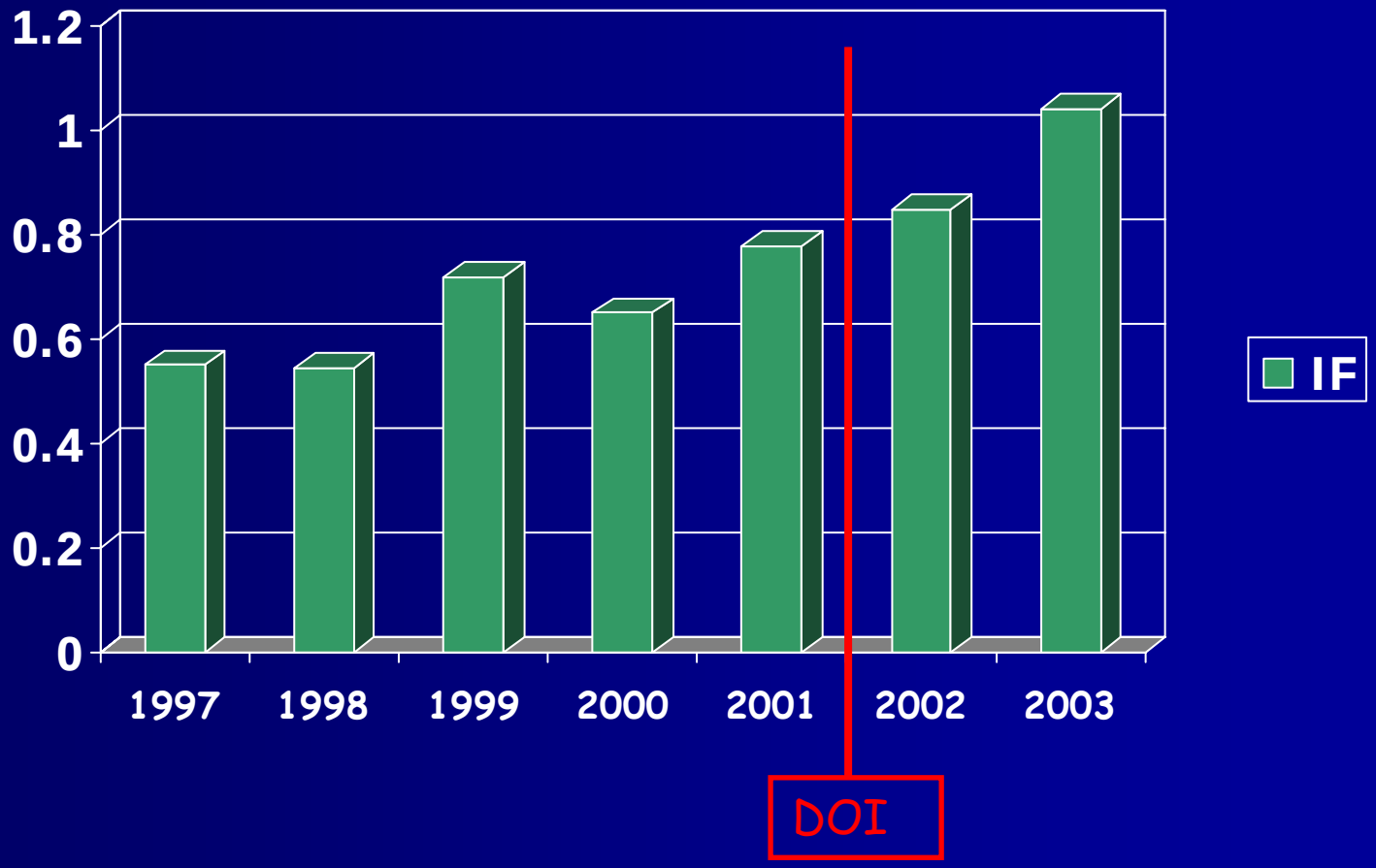

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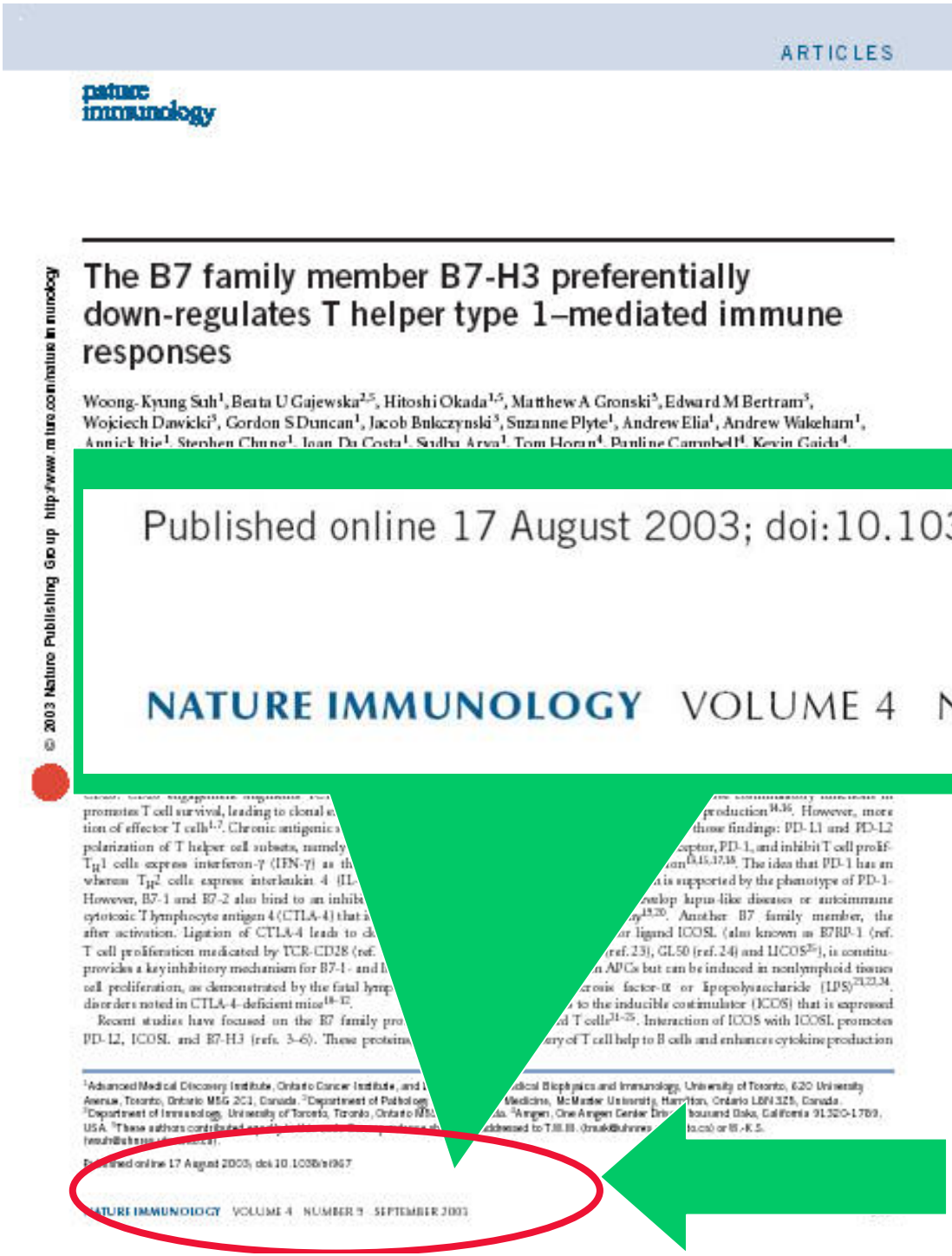

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Woong-Kyung Suh[1], Beata U Gajewska[2,5], Hitoshi Okada[1,5], Matthew A Gronski[3], Edward M Bertram[3], Wojciech Dawicki[3], Gordon S Duncan[1], Jacob Bukczynski[3], Suzanne Plyte[1], Andrew Elia[1], Andrew Wakeham[1], Annick Itie[1], Stephen Chung[1], Joan Da Costa[1], Sridhu Arya[1], Tom Horan[4], Pauline Campbell[4], Kevin Gaida[4],

Published online 17 August 2003; doi:10.1038/ni967

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letters to nature

Nature **425**, 155 - 158 (11 September 2003); doi:10.1038/nature01826

Quantum dynamics of a single vortex

A. WALLRAFF*, A. LUKASHENKO, J. LISENFELD, A. KEMP, M. V. FISTUL, Y. KOVAL & A. V. USTINOV

Present address: Department of Applied Physics, Yale University, New Haven, Connecticut 06520, USA

Correspondence and requests for materials should be addressed to A.W. (andreas.wallraff@yale.edu).

Vortices occur naturally in a wide range of gases and fluids, from macroscopic to microscopic scales. In Bose–Einstein condensates of dilute atomic gases[1], superfluid helium[2] and superconductors, the existence of vortices is a consequence of the quantum nature of the system. Quantized vortices of supercurrent[3] are generated by magnetic flux penetrating the material, and play a key role in determining the material properties[4] and the performance of superconductor-based devices[5,6]. At high temperatures the dynamics of such vortices are essentially classical, while at low temperatures previous experiments have suggested collective quantum dynamics[7,8]. However, the question of whether vortex tunnelling occurs at low temperatures has been addressed only for large collections of

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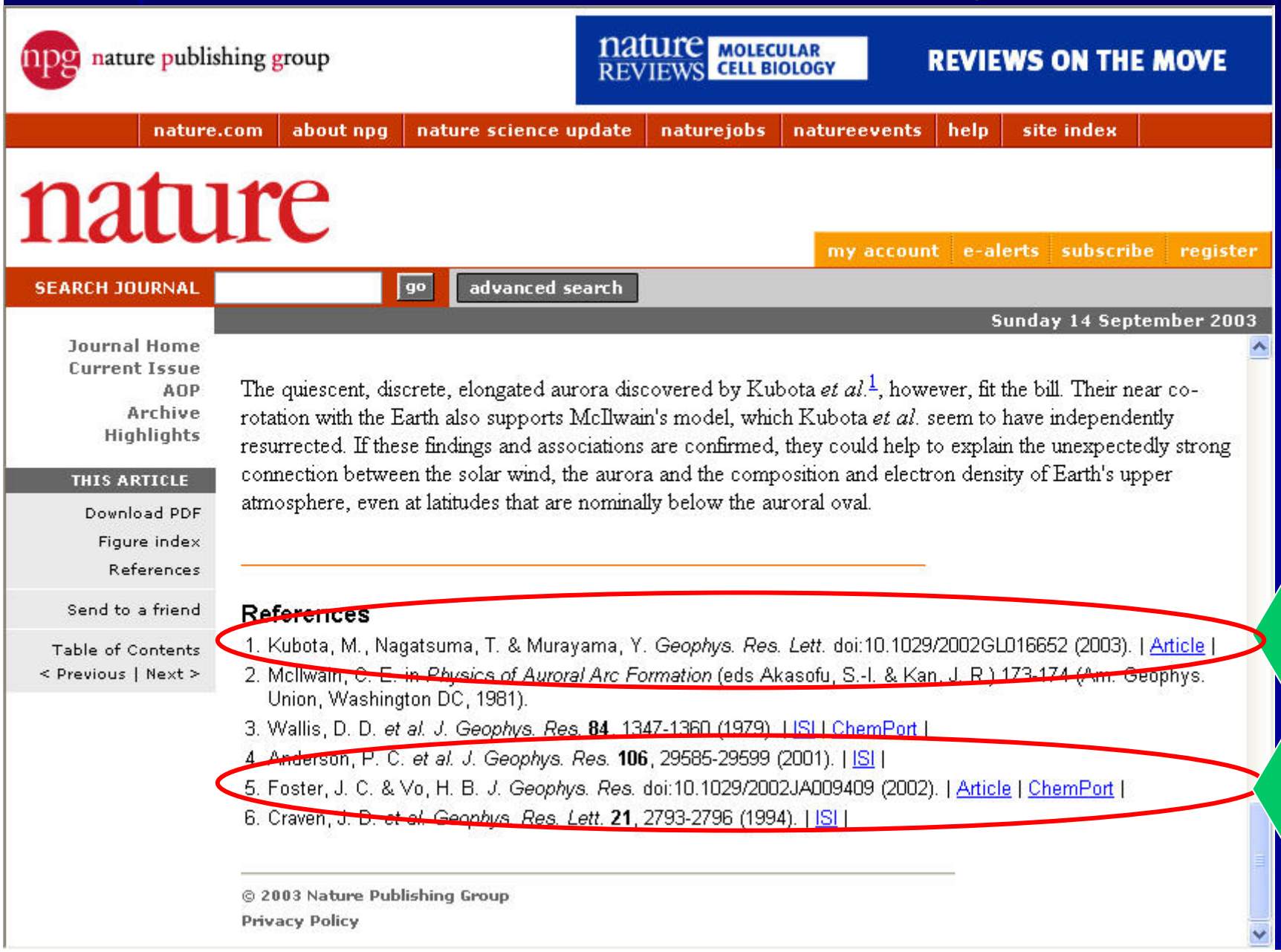

The quiescent, discrete, elongated aurora discovered by Kubota *et al.*[1], however, fit the bill. Their near co-rotation with the Earth also supports McIlwain's model, which Kubota *et al.* seem to have independently resurrected. If these findings and associations are confirmed, they could help to explain the unexpectedly strong connection between the solar wind, the aurora and the composition and electron density of Earth's upper atmosphere, even at latitudes that are nominally below the auroral oval.

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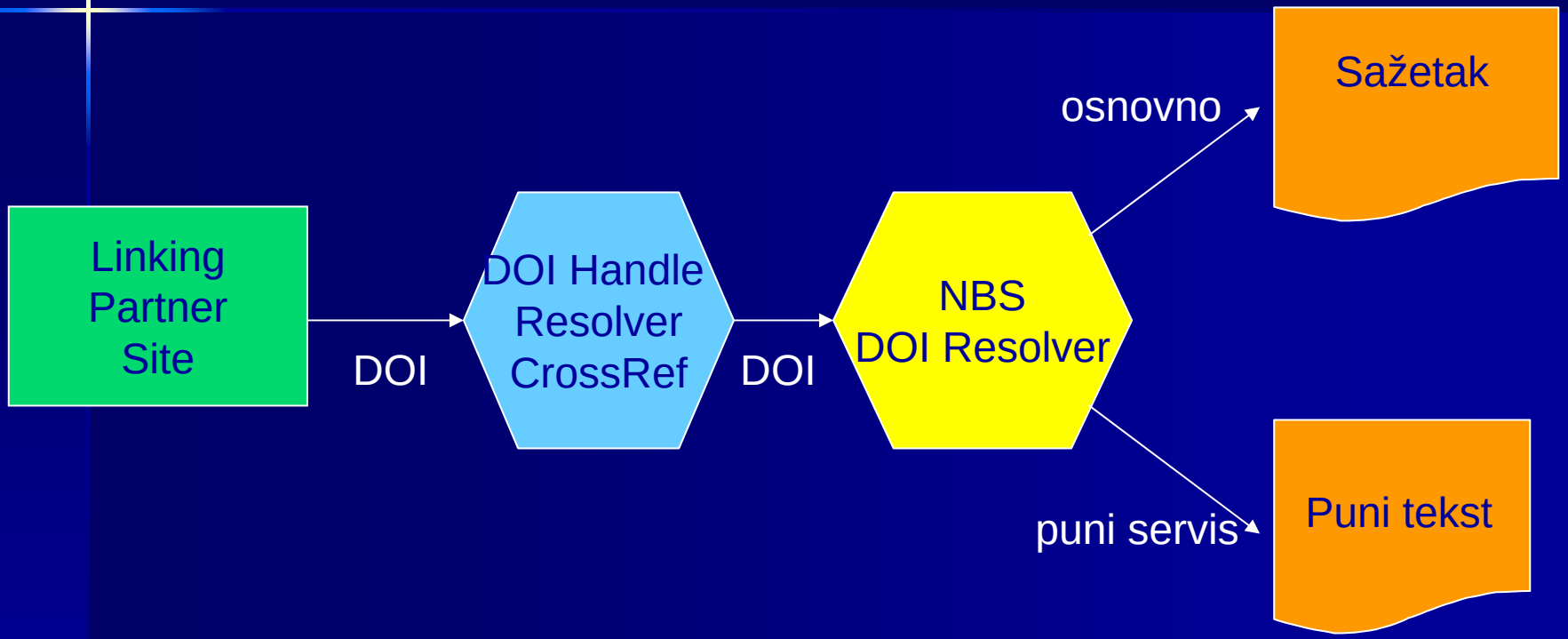

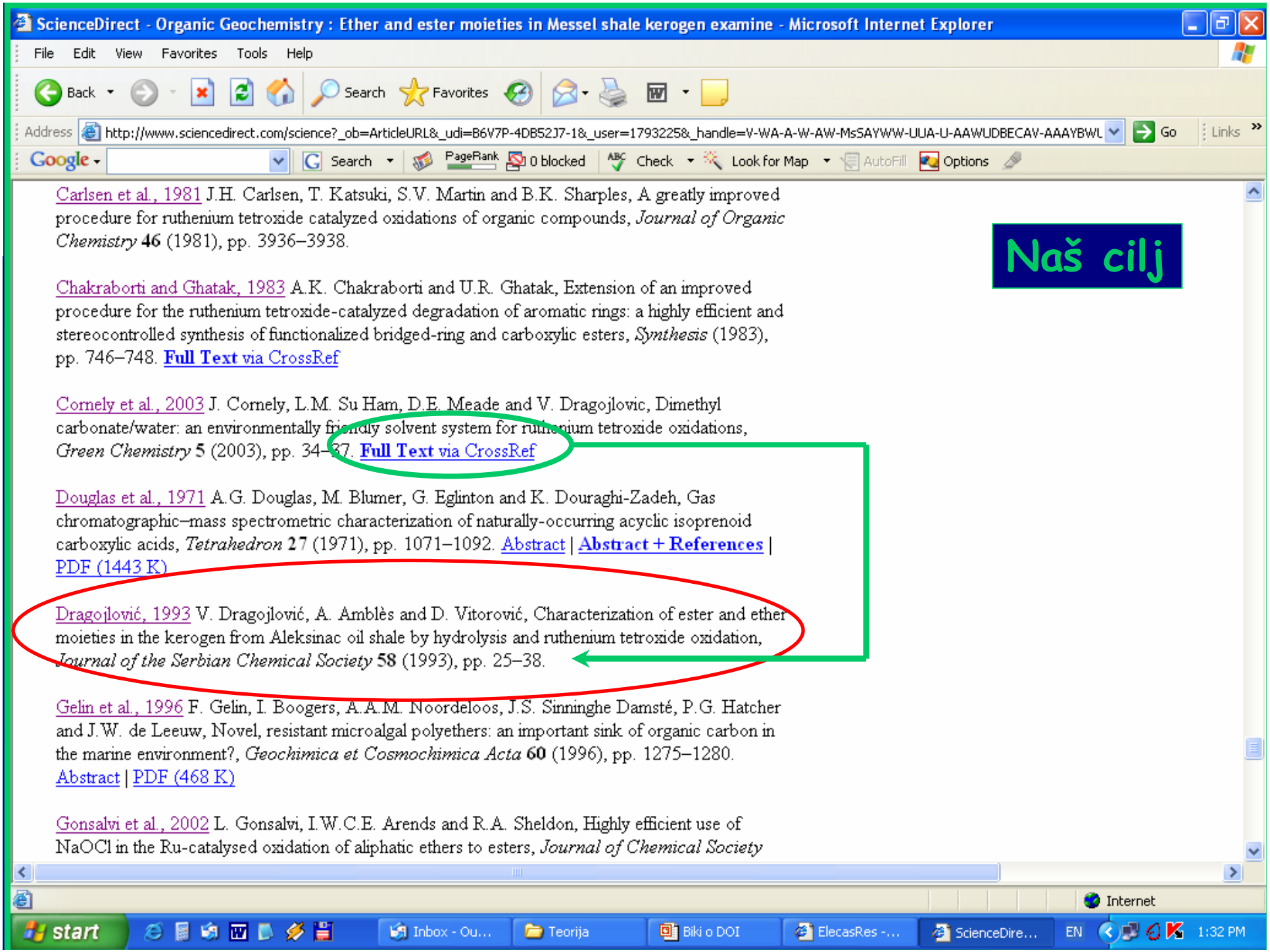
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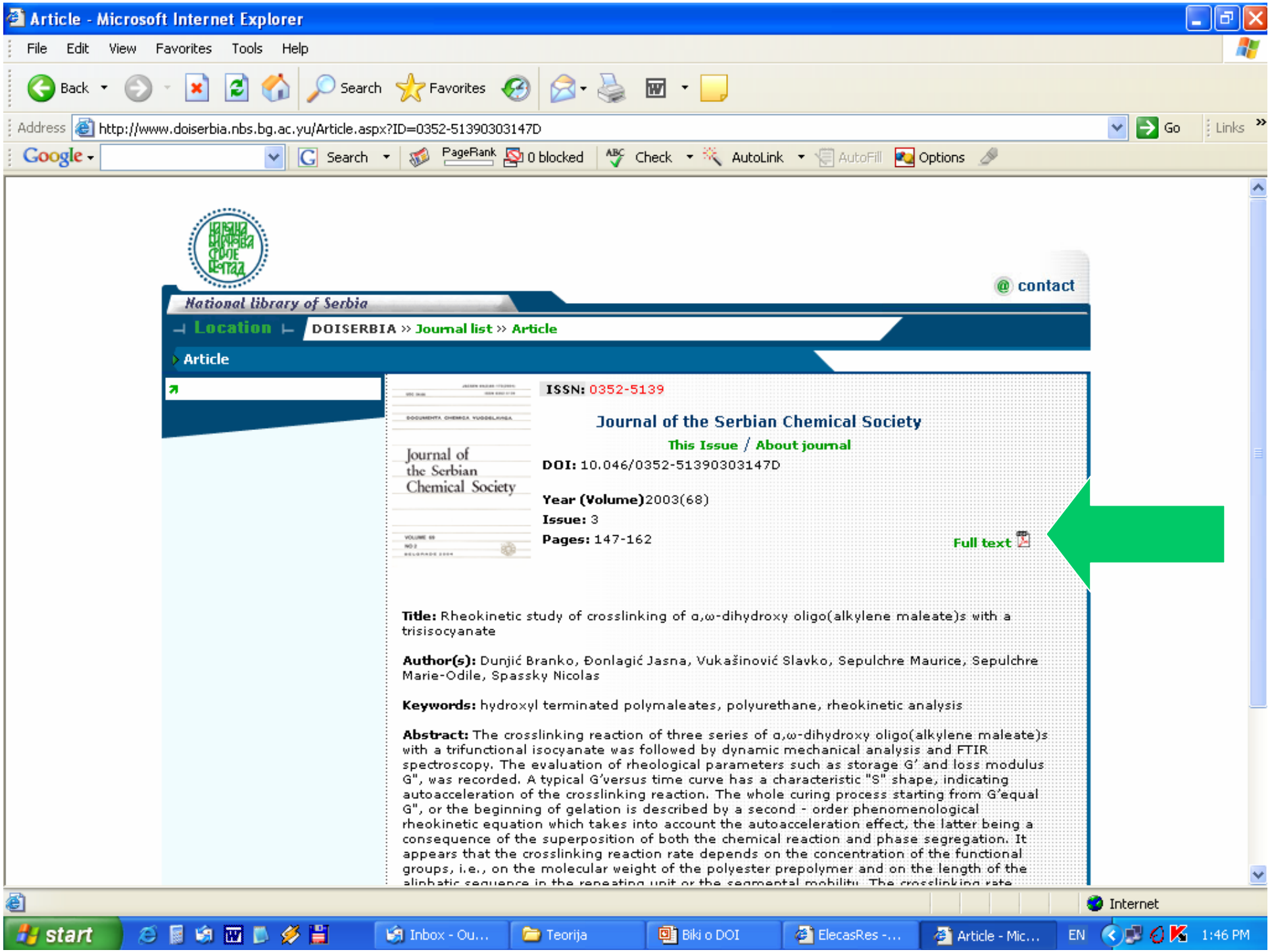
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Title: Rheokinetic study of crosslinking of α,ω-dihydroxy oligo(alkylene maleate)s with a trisisocyanate
Author(s): Dunjić Branko, Đonlagić Jasna, Vukašinović Slavko, Sepulchre Maurice, Sepulchre Marie-Odile, Spassky Nicolas
Keywords: hydroxyl terminated polymaleates, polyurethane, rheokinetic analysis
Abstract: The crosslinking reaction of three series of α,ω-dihydroxy oligo(alkylene maleate)s with a trifunctional isocyanate was followed by dynamic mechanical analysis and FTIR spectroscopy. The evaluation of rheological parameters such as storage G' and loss modulus G", was recorded. A typical G'versus time curve has a characteristic "S" shape, indicating autoacceleration of the crosslinking reaction. The whole curing process starting from G'equal G", or the beginning of gelation is described by a second - order phenomenological rheokinetic equation which takes into account the autoacceleration effect, the latter being a consequence of the superposition of both the chemical reaction and phase segregation. It appears that the crosslinking reaction rate depends on the concentration of the functional groups, i.e., on the molecular weight of the polyester prepolymer and on the length of the
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