

Alexei Demchenko's Publications 1989 – Present
(Last updated July 2009)

BOOKS EDITED

- (1) *Frontiers in Modern Carbohydrate Chemistry*. (229th American Chemical Society National Meeting held in San Diego, CA 13-17 March 2005), A. V. Demchenko Ed., *ACS Symp. Ser.*, Vol. 960, Oxford Univ. Press, **2007**.
- (2) *Handbook of Chemical Glycosylation: Advances in Stereoselectivity and Therapeutic Relevance*, A. V. Demchenko Ed., Wiley-VCH, **2008**.

PATENTS

- (1) K. J. Stine, O. V. Shulga, A. V. Demchenko. Method and apparatus for immunoassay on porous support. Provisional Patent Application, Docket No: 08UMS007prov, Filing date June 3, 2008, 61/130,947

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- (76) M. V. Roux, M. Temprado, P. Jiménez, C. Foces-Foces, R. Notario, A. R. Parameswar, A. V. Demchenko, J. S. Chickos, C. A. Deakyne, A. K. Ludden, J. F. Liebman. An experimental and theoretical study of the structures and enthalpies of formation of the synthetic reagents, 1,3-thiazolidine-2-thione and 1,3-oxazolidine-2-thione. **2009**, submitted 02/25/2009 (AHA.2008-2, NSF-8)
- (75) P. Pornsuriyasak, C. Vetter, D. Steinborn, A. V. Demchenko. Coordination chemistry approach to the long-standing challenge of anomeric stereoselectivity. **2009**, submitted 02/24/2009 (NSF-7)
- (74) S. Park, A. R. Parameswar, A. V. Demchenko, M. H. Nahm. Identification of a simple chemical structure associated with protective human antibodies against multiple pneumococcal serogroups. *Infect. Immun.*, **2009**, in press (NSF-6)
- (73) A. R. Parameswar, A. V. Demchenko. One-pot oligosaccharide synthesis. In "Progress in the synthesis of complex carbohydrate chains of plant and microbial polysaccharides", N. E. Nifantiev Ed., Research Signpost and Transworld Research Network Publishers, Kerala, **2009**, pp. 463-488
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- (71) P. Pornsuriyasak, S. C. Ranade, A. Li, M. C. Parlato, C. R. Sims, O. V. Shulga, K. J. Stine, A. V. Demchenko. STICS: surface-tethered iterative carbohydrate synthesis. *Chem. Commun.* **2009**, 1834-1836 (R21-4, NSF-5)
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- (69) A. V. Demchenko. In the laboratory during 1988-1995. In *Laboratory of carbohydrate and nucleotide chemistry ICNP – laboratory of carbohydrate chemistry IOC. Fifty years. A collection of memoirs*. Y. A. Knirel Ed., ZIOC RAS, Moscow, **2009**, pp. 233-238

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