

# Talanta

The International Journal of Pure and Applied Analytical Chemistry

---

## Editors-in-Chief

**Professor G.D. Christian**, University of Washington, Department of Chemistry, 36 Bagely Hall, P.O. Box 351700, Seattle, WA 98195-1700, U.S.A.

**Professor J.-M. Kauffmann**, Université Libre de Bruxelles, Institut de Pharmacie, Campus de la Plaine, C.P. 205/6, Boulevard du Triomphe, B-1050 Bruxelles, Belgium

## Associate Editor

**Professor J.-H. Wang**, Research Center for Analytical Sciences, Northeastern University, Box 332, Shenyang 110004, China

## Assistant Editors

**Dr R.E. Synovec**, Department of Chemistry, University of Washington, Box 351700, Seattle, WA 98195-1700, U.S.A.

**Professor J.-C. Vire**, Université Libre de Bruxelles, Institut de Pharmacie, Campus de la Plaine, C.P. 205/6, Boulevard du Triomphe, B-1050 Bruxelles, Belgium

## Advisory Board

**Chairman:** Professor J.D. Winefordner, Gainesville, FL, U.S.A.

## Talanta

R. Apak (Istanbul, Turkey)

L.G. Bachas (Lexington, KY, U.S.A.)

E. Bakker (Auburn, AL, U.S.A.)

D. Barceló (Barcelona, Spain)

K. Booksh (Tempe, AZ, U.S.A.)

C.M.A. Brett (Coimbra, Portugal)

J.L. Burguera (Merida, Venezuela)

Y. Chen (Beijing, China)

R. Compton (Oxford, U.K.)

S. Cosnier (Grenoble, France)

P.K. Dasgupta (Lubbock, TX, U.S.A.)

D. Diamond (Dublin, Ireland)

G.A. Eiceman (Las Cruces, NM, U.S.A.)

M.-R. Fuh (Taipei, Taiwan)

K. Grupdan (Chaing Mai, Thailand)

V.K. Gupta (Roorkee, India)

A. Gustavo González (Sevilla, Spain)

I. Gutz (Sao Paulo, Brazil)

E.H. Hansen (Lyngby, Denmark)

P. de B. Harrington (OH, U.S.A.)

W.L. Hinze (Winston-Salem, NC, U.S.A.)

A. Ivaska (Turku, Finland)

B. Karlberg (Stockholm, Sweden)

U. Karst (Enschede, The Netherlands)

R. Lobinski (Pau, France)

C.A. Lucy (Edmonton, AB, Canada)

M.D. Luque de Castro (Cordoba, Spain)

I.D. McKelvie (Victoria, Australia)

E. Morosonova (Moscow, Russia)

J.-M. Pingarron (Madrid, Spain)

E. Pretsch (Zürich, Switzerland)

W. Schuhmann (Bochum, Germany)

M. Shamsipur (Kermanshah, Iran)

K. Suzuki (Yokohama, Japan)

D.L. Tsalev (Sofia, Bulgaria)

Y. Umezawa (Tokyo, Japan)

K. Vytras (Pardubice, Czech Republic)

B. Walczak (Katowice, Poland)

R. von Wandruszka (Moscow, U.S.A.)

J. Wang (Tempe, AZ, U.S.A.)

Xiu-Ping Yan (Tianjin, China)

E.A.G. Zagatto (Piracicaba, SP, Brazil)

---

Copyright © 2005 Elsevier B.V. All rights reserved

**Publication information:** *Talanta* (ISSN 0039-9140). For 2005, volumes 65–67 are scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (<http://www.elsevier.com/locate/talanta>). Further information is available on this journal and other Elsevier products through Elsevier's website: (<http://www.elsevier.com>). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

**Orders, claims, and journal enquiries:** please contact the Customer Service Department at the Regional Sales Office nearest you:

**Orlando:** Elsevier, Customer Service Department, 6277 Sea Harbor Drive, Orlando, FL 32887-4800, USA; phone: (+1) (877) 8397126 [toll free number for US customers], or (+1) (407) 3454020 [customers outside US]; fax: (+1) (407) 3631354; e-mail: [usjcs@elsevier.com](mailto:usjcs@elsevier.com)

**Amsterdam:** Elsevier, Customer Service Department, PO Box 211, 1000 AE Amsterdam, The Netherlands; phone: (+31) (20) 4853757; fax: (+31) (20) 4853432; e-mail: [nlinfo-f@elsevier.com](mailto:nlinfo-f@elsevier.com)

**Tokyo:** Elsevier, Customer Service Department, 4F Higashi-Azabu, 1-Chome Bldg, 1-9-15 Higashi-Azabu, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5037; fax: (+81) (3) 5561 5047; e-mail: [jp.info@elsevier.com](mailto:jp.info@elsevier.com)

**Singapore:** Elsevier, Customer Service Department, 3 Killiney Road, #08-01 Winsland House I, Singapore 239519; phone: (+65) 63490222; fax: (+65) 67331510; e-mail: [asiainfo@elsevier.com](mailto:asiainfo@elsevier.com)

**USA mailing notice:** *Talanta* (ISSN 0039-9140) is published monthly by Elsevier B.V. (P.O. Box 211, 1000 AE Amsterdam, The Netherlands). Annual subscription price in the USA US\$ 3,447.00 (valid in North, Central and South America), including air speed delivery. Application to mail at periodical postage rate is pending at Jamaica, NY 11431.

**USA POSTMASTER:** Send address changes to *Talanta*, Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.

**AIRFREIGHT AND MAILING** in the USA by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.