

- Al-Holy, M.; Lin, M.; Cavinato, A.G.; Rasco, B.A. **2006**. The use of Fourier transform infrared spectroscopy to differentiate E.coli O157:H7 from other bacteria inoculated into apple juice. *Food Microbiol.*, 23, 162-168.
- Mengshi Lin, M. Al-Holy, M., H. Al-Qadiri, D.H. Kang, A.G. Cavinato, Y. Huang, B. A. Rasco. **2004**. Discrimination of Intact and Injured *Listeria Monocytogenes* by Fourier Transform Infrared Spectroscopy and Principal Component Analysis. *J. Agric. Food Chem.*, 52, 5769-5772.
- Mengshi Lin, M. Al-Holy, M. Mousavi-Hesary, H. Al-Qadiri, A.G. Cavinato, B. A. Rasco. **2004**. Rapid and Quantitative Detection of the Microbial Spoilage of Chicken Breasts by Diffused Reflectance Spectroscopy (600-1100 nm). *Lett. Appl. Microbiol.* 39, 148-155.
- Lin, M., Cavinato, A.G., Mayes, D.M., Smiley, S., Huang, Y., Al-Holy, M., **2003**. Detecting Bruises in Pacific Pink Salmon (*Oncorhynchus gorbuscha*) by Short-Wavelength Near-Infrared (SW-NIR) Spectroscopy and Image Analysis. *Journal of Agricultural Food Chemistry*, 51, 6404-6408.
- Lin, M., Cavinato, A.G., Huang, Y. and Rasco, B.A. **2003**. Predicting sodium chloride content in commercially produced king (*Oncorhynchus tshawytscha*) and chum (*O. keta*) smoked salmon fillet portions by short-wavelength near-infrared (SW-NIR) spectroscopy. *Food Research International*, 36, 761-766.
- Huang, Y., Tang, J., Swanson, B.G., Cavinato, A.G., Lin, M., Rasco, B.A. **2003**. Near Infrared Spectroscopy: a new tool for studying physical and chemical properties of polysaccharide gels. *Carbohydrate Polymers*, 53, 281-288.
- Huang, Y., Cavinato, A.G., Mayes, D.D. Bledsoe, G.E. and Rasco, B.A. **2003**. Non-destructive Determination of Moisture and Sodium Chloride in Cured Atlantic Salmon (*Salmo salar*) (Teijin) Using Short-wavelength Near-infrared Spectroscopy (SW-NIR). *J. Food Science*, 68, 2, 1-5.
- Huang, Y., Cavinato, A.G., Mayes, D.D. Bledsoe, G.E. and Rasco, B.A. **2002**. Non-destructive prediction of moisture and sodium chloride in cold smoked Atlantic salmon (*Salmo salar*). *J. Food Science*, 67, 7, 2543-2547.
- Huang, Y., Cavinato, A.G., Mayes, D.D. Bledsoe, G.E. and Rasco, B.A. **2002**. Non-destructive prediction of moisture and sodium chloride in cured Atlantic salmon (*Salmo salar*) (teijin) by short wavelength near infrared spectroscopy (SW-NIR). *J. Food Science*, 67,7,2543-2547.
- Dick, T., Stone, T., Firor, K., Cavinato, A.G. **2002**. Excel: Peer Teaching in Collaborative Groups. Proceedings of STEMTEC conference Pathways to Change, April 19-20, 2002 in Washington, DC.
- Yiqun Huang, Todd M. Roger, Melissa A. Wenz, Anna G. Cavinato, David M. Mayes, Glyen E. Bledsoe, Barbara A. Rasco. **2001**. Detection of Sodium Chloride and Moisture in Cured Salmon Roe by SW-NIR Spectroscopy. *Journal of Agricultural Food Chemistry*, 49, 9, 4161-4167.
- Z. Ge, A.G. Cavinato, J.B. Callis. **1994**. Non-Invasive Spectroscopy for Monitoring Cell Density in a Fermentation Process. *Anal. Chem.*, 66, 90-98.
- D.M. Mayes, A.G. Cavinato, D. S. Koza. **1993**. A Compact Solid State Spectrophotometer System for Control Applications. *Process Control and Quality*, 5, pp. 1-8.
- E.A. McGrath, L.W. Burgess, A.G. Cavinato. **1993**. New Developments in Process Monitoring and Process Control, in *Monitoring and Measurement Technologies for Hazardous Substances*,

Proceeding of the Pre conference Seminar, Oct 5 1991, 64th Annual Water Environment Federation Conference and Exposition, Toronto, Canada, pp. 61-75.

A.G. Cavinato, Z. Ge, J.B. Callis and R.E. Finger. **1992**. Real-Time Measurement of Microbial Metabolism in Activated Sludge Samples, in *Pollution Prevention in Industrial Processes (The Role of Process Analytical Chemistry)*, J.J. Breen and M.J. Dellarco Eds., ACS Symposium Series 508, Washington, DC pp. 222-228.

M. H. Lee, A.G. Cavinato, D. M. Mayes, B. A. Rasco. **1992**. Noninvasive Short-Wavelength Near-Infrared Spectroscopic Method to Estimate the Crude Lipid Content in the Muscle of Intact Rainbow Trout. *J. Agric. Food Chem.* 40, pp. 2176-2181.

A.G. Cavinato, D.M. Mayes, Z. Ge, J.B. Callis. **1992**. Non-Invasive Spectroscopic Monitoring of a Bioprocess", *Frontiers in Bioprocessing II*, P. Todd, S.K. Sikdar, M. Bier, Editors, ACS Press, Washington DC, pp. 90-98.

A.G. Cavinato, D.M. Mayes, Z. Ge, J.B. Callis. **1990**. A Non-Invasive Method for Monitoring Ethanol in Fermentation Processes Using Fiber-Optic Near-Infrared Spectroscopy. *Anal. Chem.* 62, pp. 1977-1982.

M.S. Ahmed, D. Zhuo, A.G. Cavinato, D. Maulik. **1989**. Opioid Binding Properties of the Purified Kappa Receptor From Human Placenta. *Life Sciences* 44, pp. 861-871.

A.G. Cavinato, R.M. Macleod, M.S. Ahmed. **1988**. A Non-Denaturing Gel Electrophoresis System for the Purification of Membrane Bound Proteins", *Prep. Biochem.* 18, pp. 205-216.

M.S. Ahmed, A.G. Cavinato. **1987**. Partial Purification of the Opioid Receptor from Human Placenta", *Trophoblast Research.* 2, pp. 279-287.

M.S. Ahmed, J.S. Schinfeld, R. Jones, A.G. Cavinato, C. Baker. **1986**. The Correlation Between the Number of Placental Opioid Receptors, Mode of Delivery and Maternal Narcotic Use. *Membrane Biochemistry*, 6, pp. 255-267.

M.S. Ahmed, A.G. Cavinato, L.W. Randall, D.M. Desiderio, G. Fridland, B. Sibai. **1986**. Human Placental Opioid Peptides: Correlation to the Route of Delivery, *Am. J. Obstetrics and Gynecology*, 155, pp. 703-706.

A.G. Cavinato, G. Mamantov, X.B. Cox III. 1985. Characterization of Low Oxidation States of Tungsten and Tungsten Electrodes in AlCl<sub>3</sub>-NaCl Melts by X-Ray Photoelectron Spectroscopy. *J. Electrochem. Soc.* 132, pp. 1136-1140.

L. Sabbatini, A.G. Cavinato, E. Desimoni, P.G. Zambonin. **1985**. Electrochemical and Surface X-Ray Photoelectron Spectroscopy Study on the Rhodium-Carbonate Electrode in Molten Nitrates. *J. Chem. Soc. Faraday Trans. I*, 81, pp. 621-634.

P.G. Zambonin, A.G. Cavinato, E. Desimoni, F. Palmisano, L. Sabbatini. **1984**. Surface Characterization of Materials from Energy Applications, in *Industrial Applications of Surface Physical Chemistry*, CNR, Progetto Finalizzato Chimica Fine e Secondaria, pp. 93-106.

F. Palmisano, A.G. Cavinato, C. Malitesta, P.G. Zambonin. **1983**. Determination of Allopurinol by Cathodic Stripping Voltammetry. *La Chimica e l'Industria*, 65, pp 126.

E. Desimoni, T.R.O. Cataldi, A.G. Cavinato, P.G. Zambonin. **1983**. Electroactivity of Ammonium Ions in Molten Alkaline Nitrates. *La Chimica e l'Industria*, 65, pp. 125.