

TABLE OF CONTENTS

Volume 4 Number 10A

October 2013

A Rapid Low Power Ultra-Violet Light-Assisted Bacterial Sensor for Coliform Determination J. S. Ho, C.-S. Toh.....	1
Quantification of Global Protein Disulfides and Thiol-Protein Mixed Disulfides to Study the Protein Dethiolation Mechanisms L. Coppo, R. Priora, S. Salzano, P. Ghezzi, P. Di Simplicio.....	9
Spectral Evidence for the One-Step Three-Electron Oxidation of Phenylsufinylacetic Acid and Oxalic Acid by Cr(VI) P. Subramaniam, N. Thamil Selvi.....	20
Nitric Oxide/Peroxynitrite Redox Imbalance in Endothelial Cells Measured with Amperometric Nanosensors A. Burewicz, H. Dawoud, L.-L. Jiang, T. Malinski.....	30
Thermogravimetric Analysis of Zirconia-Doped Ceria for Thermochemical Production of Solar Fuel F. Call, M. Roeb, M. Schmücker, H. Bru, D. Curulla-Ferre, C. Sattler, R. Pitz-Paal.....	37
Comparative Balancing of Non-Redox and Redox Electrolytic Systems and Its Consequences A. M. Michałowska-Kaczmarczyk, T. Michałowski.....	46
Enhanced Electrocatalytic Reduction of Oxygen at Electrodes Coated with a Multi-Metallic Co(II)/Pt(II) Porphyrin S. Swavey, D. Fresh.....	54
A Bioenergetic-Redox Approach to the Effect of Live Yeast on Ruminal pH during Induced Acidosis in Dairy Cow J. P. Marden, C. Bayourthe, E. Auclair, R. Moncoulon.....	60
Normalized Rare Earth Elements in Water, Sediments, and Wine: Identifying Sources and Environmental Redox Conditions D. Z. Piper, M. Bau.....	69

The figure on the front cover is from the article published in American Journal of Analytical Chemistry, 2013, Vol. 4, No. 10A, pp. 1-8 by Jia Shin Ho and Chee-Seng Toh.