

Potentiometry

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Analytical method to determine the concentration of chemical species in solution. The current between two electrodes is measured when a constant potential is applied. Pouchitis Pouchitis is inflammation of the ileal pouch, which is created in the management of patients with ulcerative colitis, indeterminate colitis, or, rarely, other colitides. Patients with pouchitis typically present with bloody diarrhea, urgency in passing stools, or discomfort while passing stools. Rarely, pain can occur with pouchitis. Endoscopy in patients with pouchitis usually reveals erythematous pouch mucosa, loss of pseudocolonic vaculature or other architecture, and friability of the mucosa. Biopsies show evidence of inflammatory cells or red blood cells in the lamina propria. Pouchitis is usually treated with antibiotics, and specifically usually with ciprofloxacin and metronidazole. In refractory cases, probiotics such as VSL-3 and Bio-K+ may be useful. ([From the Wikipedia article Potentiometry.](#))

Recent Publications on Potentiometry:



- [Effect of Softening Precipitate Composition and Surface Characteristics on Natural Organic Matter Adsorption.](#)
Natural organic matter (NOM) removal during water softening is thought to... 20th November, 2009
The University of Texas at Austin, Department of Civil, Architectural, and- Environ Sci Technol. 2009 Oct 15;43(20):7837-7842. ([DOI Direct Link](#))
- [A novel, generic, electroanalytical immunoassay format utilising silver nano-particles as a bio-label.](#)
The aim of this study was to evaluate a novel, generic, sensitive... 18th November, 2009
National Physical Laboratory, Teddington, Middlesex, UK.- J Immunoassay Immunochem. 2009;30(4):428-40. ([DOI Direct Link](#))
- [Modulation of the Cytochrome P450 Reductase Redox Potential by the Phospholipid Bilayer.](#)
Cytochrome P450 reductase (CPR) is a tethered membrane protein which... 17th November, 2009
- Biochemistry. 2009 Nov 12. ([DOI Direct Link](#))
- [New self-assembling systems based on bola-type pyrimidinic surfactants.](#)
New amphiphilic pyrimidinic (AP) compounds with two ammonium head groups... 7th November, 2009
A.E. Arbuzov Institute of Organic and Physical Chemistry of the Russian- J Colloid Interface Sci. 2009 Oct 13. ([DOI Direct Link](#))
- [Selective determination of dopamine with a cibacron blue/poly-1,5-diaminonaphthalene composite film.](#)
A selective detection method for dopamine (DA) was developed by... 7th November, 2009
Department of Chemistry and Center for Innovative BioPhysio Sensor- Anal Chim Acta. 2009 Sep 21;650(2):247-53. Epub 2009 Jul 28. ([DOI Direct Link](#))
- [The design and application of virtual ion meter based on LABVIEW 8.0.](#)
The virtual ion meter is developed based on LABVIEW 8.0 by homemade... 5th November, 2009

College of Chemistry and Chemical Engineering, China West Normal- Rev Sci Instrum. 2009 Aug;80(8):084101. ([DOI Direct Link](#))

- [Copper binding to chicken and human prion protein amyloidogenic regions: Differences and similarities revealed by Ni\(2+\) as a diamagnetic probe.](#)
*Both human (h) and chicken (Ch) prion proteins (PrP) bind copper ions...*4th November, 2009
Department of Chemistry, University of Siena, Via Aldo Moro 53-100 Siena,- J Inorg Biochem. 2009 Oct 14. ([DOI Direct Link](#))
- [Selective recognition of tetrahedral dianions by a hexaaza cryptand receptor.](#)
*A hexaamine cage was synthesised in good yield by a [2+3] Schiff-base...*30th October, 2009
Instituto de Tecnologia Quimica e Biologica, UNL, Av. da Republica - EAN,- Org Biomol Chem. 2009 Nov 21;7(22):4661-73. Epub 2009 Sep 9. ([DOI Direct Link](#))
- [Polyaza cryptand receptor selective for dihydrogen phosphate.](#)
*A hexaamine cage with pyridyl spacers was synthesized in good yield by a...*29th October, 2009
Instituto de Tecnologia Quimica e Biologica, UNL, 2780-157 Oeiras,- J Org Chem. 2009 Nov 20;74(22):8638-46. ([DOI Direct Link](#))
- [Complexation of bisphosphonates with ytterbium\(III\): application of phosphate and ATP detection assay based on Yb\(3+\)-pyrocatechol violet.](#)
*The coordination chemistry of bisphosphonates with Yb(3+) was investigated...*24th October, 2009
Department of Chemistry, Colorado State University, Fort Collins, CO- J Inorg Biochem. 2009 Dec;103(12):1652-7. Epub 2009 Sep 20. ([DOI Direct Link](#))
- [Treatment of As\(V\) and As\(III\) by electrocoagulation using Al and Fe electrode.](#)
*A batch electrocoagulation (EC) process with bipolar electrode and...*23rd October, 2009
Department of Safety, Health, and Environmental Engineering, Ming Chi- Water Sci Technol. 2009;60(5):1341-6. ([DOI Direct Link](#))
- [Fundamentals of electrochemical detection techniques for CE and MCE.](#)
*The electroanalytical techniques of amperometry, conductometry and...*6th October, 2009
Institute of Analytical Chemistry, Academy of Sciences of the Czech- Electrophoresis. 2009 Oct;30(19):3305-14. ([DOI Direct Link](#))
- [Probing the Cu\(2+\) and Zn\(2+\) binding affinity of histidine-rich glycoprotein.](#)
*The zinc(II) and copper(II) binding ability of two oligopeptide fragments,...*30th September, 2009
Department of Inorganic and Analytical Chemistry, University of Szeged,- J Inorg Biochem. 2009 Dec;103(12):1634-43. Epub 2009 Sep 6. ([DOI Direct Link](#))
- [Glyphosate complexation to aluminium\(III\). An equilibrium and structural study in solution using potentiometry, multinuclear NMR, ATR-FTIR, ESI-MS and DFT calculations.](#)
*The stoichiometries and stability constants of a series of...*22nd September, 2009
Department of Chemistry, Umea University, SE-901 87 Umea, Sweden.- J Inorg Biochem. 2009 Nov;103(11):1426-38. Epub 2009 Aug 15. ([DOI Direct Link](#))
- [Multiple thin film formation from dilute mixtures of polyethyleneimine \(PEI\) and cetyltrimethylammonium bromide \(CTAB\).](#)
*Dilute mixtures of the water soluble polymer polyethyleneimine (PEI) and...*11th September, 2009
Department of Radiochemistry, Faculty of Nuclear Sciences and Technology,- J Colloid Interface Sci. 2009 Nov 15;339(2):495-501. Epub 2009 Aug 4. ([DOI Direct Link](#))

Potentiometry Patents:



- 7357851- [Electrochemical cell](#)
- 7432069- [Biocompatible chemically crosslinked hydrogels for glucose sensing](#)
- 7433573- [Distance measuring device and method for determining a distance](#)
- 7438792- [Separation system with a sheath-flow supported electrochemical detector](#)
- 7439014- [Droplet-based surface modification and washing](#)
- 7449289- [Methods for detection and identification of methicillin-resistant Staphylococcus aureus](#)
- 7455760- [Analytical instruments, biosensors and methods thereof](#)
- 7459067- [Semi-permanent reference electrode](#)
- 7462512- [Floating gate field effect transistors for chemical and/or biological sensing](#)
- 7468358- [Method and medicament for sulfated polysaccharide treatment of heparin-induced thrombocytopenia \(HIT\) syndrome](#)
- 7485419- [Biosensors based on directed assembly of particles](#)
- 7422903- [Multi-analyte reference solutions](#)
- 7420106- [Scanning probe characterization of surfaces](#)
- 7372277- [Method and apparatus for providing stable voltage to analytical system](#)
- 7374932- [Human kinases and polynucleotides encoding the same, and uses thereof](#)
- 7375167- [Hydrolysis-resistance composition](#)
- 7378006- [Aqueous solutions for reducing the rate of oxygen loss, and methods thereof](#)
- 7384898- [Aqueous composition of a betaine with solids content of at least 45% by weight](#)
- 7390673- [Method and device for identifying volatile substances in solution](#)
- 7396334- [Analytical device with lancet and test element](#)
- 7396870- [Composition for a tire tread and process for its preparation](#)
- 7402730- [Knockout animals manifesting hyperlipidemia](#)
- 7419821- [Apparatus and methods for analyte measurement and immunoassay](#)
- 7488607- [Electronically readable microarray with electronic addressing function](#)
- 7488783- [Method for the production of polyactide from a solution of lactic acid or one of the derivatives thereof](#)
- 7492372- [Overlap density \(OD\) heatmaps and consensus data displays](#)
- 7563350- [Small volume in vitro analyte sensor](#)
- 7569126- [System and method for quality assurance of a biosensor test strip](#)
- 7582259- [Blood analysis device and blood analysis method](#)
- 7585400- [Chip for electrochemical immunoassay](#)
- 7586684- [Solute characterization by optoelectronkinetic potentiometry in an inclined array of optical traps](#)
- 7595611- [Electrochemical thermodynamic measurement system](#)
- 7601299- [System and method for coding information on a biosensor test strip](#)
- 7601507- [Electronic methods for the detection of analytes](#)
- 7604721- [System and method for coding information on a biosensor test strip](#)
- 7611727- [Pharmaceutical composition for transdermal or transmucous administration](#)
- 7563329- [Monitoring of cleaning process](#)
- 7560237- [Electronics method for the detection of analytes](#)
- 7501052- [Method and apparatus for assay of electrochemical properties](#)
- 7507337- [System and method for rapid chromatography with fluid temperature and mobile phase composition control](#)
- 7507474- [Thermoplastic polymer composition comprising a hyperbranched polymer and articles made using said composition](#)
- 7521188- [Optical monitoring of cleaving enzyme activity](#)
- 7521214- [Method of immobilizing malate dehydrogenase on a substrate](#)
- 7534560- [Simple catalytic DNA biosensors for ions based on color changes](#)
- 7534816- [Amidobetaines for oral care applications](#)
- 7547382- [Determination of partial fill in electrochemical strips](#)
- 7550069- [Small volume in vitro analyte sensor](#)
- 7556723- [Electrode design for biosensor](#)

- 7612185- [Nucleic acid biosensors](#)

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