

Subject Index to Volume 7

- Accumulation layer
On the surface chemistry of silicon under reducing conditions:
An SRPES investigation (7) 1077
- Acidithiobacillus ferrooxidans*
Electrochemical impedance spectroscopy of marmatite–carbon paste electrode in the presence and absence of *Acidithiobacillus ferrooxidans* (7) 1177
- Activated carbon
A new concept hybrid electrochemical supercapacitor: Carbon/LiMn₂O₄ aqueous system (7) 1138
Gas evolution in activated carbon/propylene carbonate based double-layer capacitors (7) 925
- Activation energy
Dependence on the CO admission potential of the activation energy of the electrooxidation of adsorbed CO on Pt (7) 1027
- Admission potential
Dependence on the CO admission potential of the activation energy of the electrooxidation of adsorbed CO on Pt (7) 1027
- Adsorbed redox pair
Quasireversible cyclic voltammetry of a surface confined redox system: a mathematical treatment (7) 282
- Adsorption
Kinetics of ethanol electrooxidation at RuNi catalysts (7) 141
- Adsorptive stripping voltammetry
Adsorptive stripping voltammetry of nickel and cobalt at in situ plated lead film electrode (7) 1185
Electrochemical stripping analysis of organophosphate pesticides and nerve agents (7) 339
Screen-printed electrodes modified with functionalized mesoporous silica for voltammetric analysis of toxic metal ions (7) 1170
- AFM
Controlling the morphology of silver deposition at liquid|liquid interfaces: From nano-wires to super smooth films (7) 541
Electrosynthesis of structured derivated polythiophenes: Application to electrodeposition of latex particles on these substrates (7) 1439
Ex situ atomic force microscopy of bismuth film deposition at carbon paste electrodes (7) 1091
Imaging of highly oriented pyrolytic graphite corrosion accelerated by Pt particles (7) 1153
- Ag₂FeO₄
Synthesis and analysis of Ag₂FeO₄ Fe(VI) ferrate super-iron cathodes (7) 931
- Air breathing
The effect of methanol concentration on the performance of a passive DMFC (7) 288
- Alcohols
Kinetic and selectivity control of TEMPO electro-mediated oxidation of alcohols (7) 312
Magnetic catalytic nickel particles for on-demand control of electro-catalytic processes (7) 652
- Alginate
Improved enzyme retention from an electropolymerized polypyrrole-alginate matrix in the development of biosensors (7) 1277
- Alkaline
Enhanced activity for ethanol electrooxidation on Pt–MgO/C catalysts (7) 1305
- Alkaline batteries
Effect of BaBiO₃ and Ba_{0.6}K_{0.4}BiO₃ additives on the rechargeability of manganese oxide cathodes in alkaline cells (7) 1329
- Alkaline battery
Synthesis and analysis of Ag₂FeO₄ Fe(VI) ferrate super-iron cathodes (7) 931
Synthesis, characterization and electrochemical performance of battery grade NiOOH (7) 857
- Alkaline electrolyte
Kinetics of ethanol electrooxidation at RuNi catalysts (7) 141
- Alkaline fuel cell
Carbon nanofiber-based active layers for fuel cell cathodes – preparation and characterization (7) 377
- Alkaline fuel cells
Oxygen reduction at electrochemically deposited crystallographically oriented Au(1 0 0)-like gold nanoparticles (7) 29
- Alkaline phosphatase
Electrogeneration and characterization of photoactivable films and their application for enzyme grafting (7) 808
- Alkaline solution
EIS analysis on the anodic dissolution kinetics of pure iron in a highly alkaline solution (7) 1429
On the surface chemistry of silicon under reducing conditions: An SRPES investigation (7) 1077
- Alkaline-earth
Enrichment of rare earth and alkaline-earth elements by counter-current electromigration in room temperature molten salts (7) 370
- Alkyl bromides
The copper–palladium cathode to achieve pure one-electron cleavages: The case of alkyl bromides (7) 619
- Alkyl free radicals
The copper–palladium cathode to achieve pure one-electron cleavages: The case of alkyl bromides (7) 619
- All-solid-state lithium polymer secondary battery
All-solid-state lithium polymer secondary battery with LiNi_{0.5}Mn_{1.5}O₄ by mixing of Li₃PO₄ (7) 1083
- Alumina template
Nitrogen containing carbon nanotubes as supports for Pt – Alternate anodes for fuel cell applications (7) 905
- Aluminium corrosion
Non-corrosive electrolyte compositions containing perfluoroalkylsulfonfyl imides for high power Li-ion batteries (7) 1000

- Amide bonding
Chemically modified electrode based on an organometallic model of the [FeFe] hydrogenase active center (7) 427
- Amino acids
Magnetic catalytic nickel particles for on-demand control of electrocatalytic processes (7) 652
- Ammonium dichromate
Voltammetry of chromium(VI) at the liquid|liquid interface (7) 976
- Amperometric detection
Integration of electrochemical generator and detector of nitric oxide with the aid of the iron porphyrin (7) 1205
- Amperometric glucose amperometric biosensor
Electrochemical study of ferrocene intercalated vanadium pentoxide xerogel/polyvinyl alcohol composite films: Application in the development of amperometric biosensors (7) 781
- Amperometric immunosensor
A reagentless amperometric immunosensor based on gold nanoparticles/thionine/Nafion-membrane-modified gold electrode for determination of α -1-fetoprotein (7) 355
- Amperometric sensor
Stable hemin embedded in Nafion[®] films for the catalytic reduction of trichloroacetic acid under hydrodynamic conditions (7) 853
- Anion adsorption
Strictly potentiostatic current oscillations during bulk CO electro-oxidation on platinum in the presence of inhibiting anions (7) 710
- Anion effects
CO oxidation on stepped Rh[$n(1\ 1\ 1) \times (1\ 1\ 1)$] single crystal electrodes: Anion effects on CO surface mobility (7) 581
- Anode catalyst
Performance of direct dimethyl ether fuel cells at low temperature (7) 1385
- Anode catalyst layer
Active layer of variable thickness: The limiting regime of anode catalyst layer operation in a DMFC (7) 969
- Anode materials
Addition of Cu for carbon coated Si-based composites as anode materials for lithium-ion batteries (7) 557
- Anodic fuel
A simple and high efficient direct borohydride fuel cell with MnO₂-catalyzed cathode (7) 449
- Anodic oxidation
Formation of self-organized niobium porous oxide on niobium (7) 97
Titanium oxide nanotubes prepared in phosphate electrolytes (7) 505
- Anodic porous alumina
Electrochemical etching of silicon through anodic porous alumina (7) 953
- Anodic reaction
Unusual anodic behaviour of chloride ion in 1-butyl-3-methylimidazolium hexafluorophosphate (7) 685
- Anion receptor
Electrochemical measurement of switchable hydrogen bonding in an anthraquinone-based anion receptor (7) 1351
- Anodization
Preparation of self-organized niobium oxide microstructures via potentiostatic anodization (7) 1190
- Anthraquinone 2-carboxylic acid
Anthraquinone 2-carboxylic acid as an electron shuttling mediator and attached electron relay for horseradish peroxidase (7) 466
- Antibacterial
Electrochemistry of β -lapachone and its diazoderivative: Relevance to their compared antimicrobial activities (7) 767
- Aptamers
Label-free bioelectronic detection of aptamer–protein interactions (7) 537
- Aqueous lithium-ion batteries
A new concept hybrid electrochemical supercapacitor: Carbon/LiMn₂O₄ aqueous system (7) 1138
- Aromatic compounds
Oxidative self-coupling of aromatic compounds in ionic liquids (7) 869
- Aromatization
Aromatization of cyclohexadienes by TEMPO electro-mediated oxidation: Kinetic and structural aspects (7) 1445
- Ascorbate
Molecular sieving of anti-oxidants at a copper–carbon laminate assembly (7) 500
- Ascorbic acid
Electrochemical activation of carbon nanotubes (7) 14
In situ Raman spectroelectrochemical study of electrocatalytic processes at polyaniline modified electrodes: Redox vs. metal-like catalysis (7) 1021
Non-enzymatic glucose detection free of ascorbic acid interference using nickel powder and nafion sol–gel dispersed renewable carbon ceramic electrode (7) 879
Solvent dependent dimercaptiothiadiazole monolayers on gold electrode for the simultaneous determination of uric acid and ascorbic acid (7) 1271
- Aspergillus niger*
Microbially influenced corrosion acceleration and inhibition. EIS study of Zn and Al subjected for two years to influence of *Penicillium frequentans*, *Aspergillus niger* and *Bacillus mycoides* (7) 305
- Atmospheric corrosion
Electrochemical investigations of micro-droplets formed on metals during the deliquescence of salt particles in atmosphere (7) 443
- Atomic force microscopy
Correlation of membrane structure and transport activity using combined scanning electrochemical–atomic force microscopy (7) 612
Ex situ atomic force microscopy of bismuth film deposition at carbon paste electrodes (7) 1091
In situ AFM observation of the electrochemical reduction of a single silver sulphide crystal and the recrystallization of the resulting silver crystal (7) 173
- ATR
Acetone as oxidative decomposition product in propylene carbonate containing battery electrolyte (7) 1380
- Au nanoparticle
Au nanoparticles self-assembled onto Nafion membranes for use as methanol-blocking barriers (7) 1143
- Au-catalyzed anode
A simple and high efficient direct borohydride fuel cell with MnO₂-catalyzed cathode (7) 449
- Autoelectron emission
Peculiarities of the electrochemical behavior of modified electrodes containing single-wall carbon nanotubes (7) 199
- Bacillus mycoides*
Microbially influenced corrosion acceleration and inhibition. EIS study of Zn and Al subjected for two years to influence of *Penicillium frequentans*, *Aspergillus niger* and *Bacillus mycoides* (7) 305
- Barium ferrite
Magnetic composites CoNi–barium ferrite prepared by electrodeposition (7) 1225
- Batteries
Novel zinc ion conducting polymer gel electrolytes based on ionic liquids (7) 1309
- Benzophenone
Electrogeneration and characterization of photoactivable films and their application for enzyme grafting (7) 808
- Bi(1 1 1)
In situ STM studies of Bi(1 1 1) electrodes in aqueous electrolyte solutions (7) 863

Download English Version:

<https://daneshyari.com/en/article/10267404>

Download Persian Version:

<https://daneshyari.com/article/10267404>

[Daneshyari.com](https://daneshyari.com)