

Электрохимические журналы

19.12.2018

Zeitschrift

für (1894-1895)

Elektrotechnik und Elektrochemie.



ZEITSCHRIFT FÜR ELEKTROCHEMIE UND ANGEWANDTE PHYSIKALISCHE CHEMIE

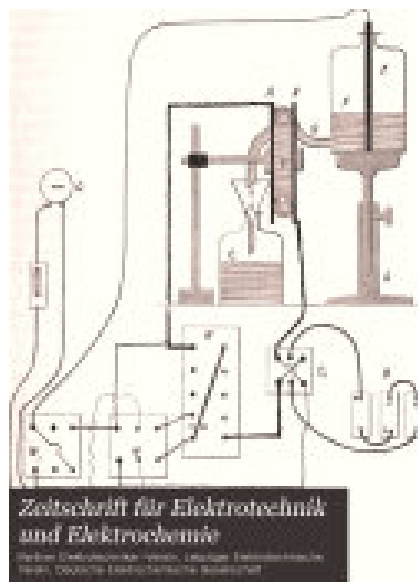
Zeitschrift für Elektrochemie (с 1895 до 1962)



Berichte der Bunsen-Gesellschaft für Physikalische Chemie
(с 1963 до 1998) – *постепенно электрохимическая тематика
стала размываться*



Phys. Chem. Chem. Phys. (PCCP) (с 1999)



Wiley
(коллекция)



THEORIE DER ALTERUNG VON NIEDERSCHLAGEN DURCH UMLOSEN (OSTWALD-REIFUNG)

(1961) *Оствальдовское созревание*

SPEKTROSKOPISCHE BESTIMMUNG DES DIPOLMOMENTES AROMATISCHER

VERBINDUNGEN IM ERSTEN ANGEREGTEN SINGULETTZUSTAND **(1957)** *Дипольные*

моменты возбужденных молекул

REAKTIONSTYPEN BEI DER OXYDATION VON LEGIERUNGEN **(1959)** *Окисление сплавов*

ZUR THEORIE DER RANDLES-SEVCIKSCHE KATHODENSTRAHL-POLAROGRAPHIE **(1955)**

Струйный катод, полярография

ELEKTROLYTISCHE DISSOZIATION ANGEREGTER MOLEKULE **(1950)** *Диссоциация*

возбужденных молекул

DER VERGLEICH DER SPANNUNGSREIHEN IN VERSCHIEDENEN SOLVENTIEN **(1960)** *«Ряды*

напряжения» в разных растворителях

SCHALLABSORPTION IN ELEKTROLYTLOSUNGEN ALS FOLGE CHEMISCHER RELAXATION .2.

MESSERGEBNISSE UND RELAXATIONSMECHANISMEN FUR 2-2-WERTIGE ELEKTROLYTE

(1962) *Акустическое поглощение – релаксация электролита*

Jahrbuch der Elektrochemie.

Berichte

über die
Fortschritte des Jahres 1894.

Im wissenschaftlichen Theile

bearbeitet von

Dr. W. Nernst,

o. Professor an der Universität Göttingen,
Direktor des Instituts für physikalische Chemie und Elektrochemie.

Im technischen Theile

bearbeitet von

Dr. W. Borchers,

Lehrer an der kgl. Maschinenbau- und Hüttenschule zu Dü

I. Jahrgang.

Halle a. S.,

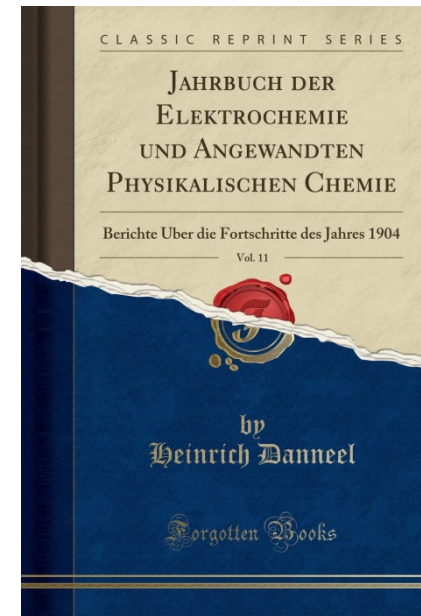
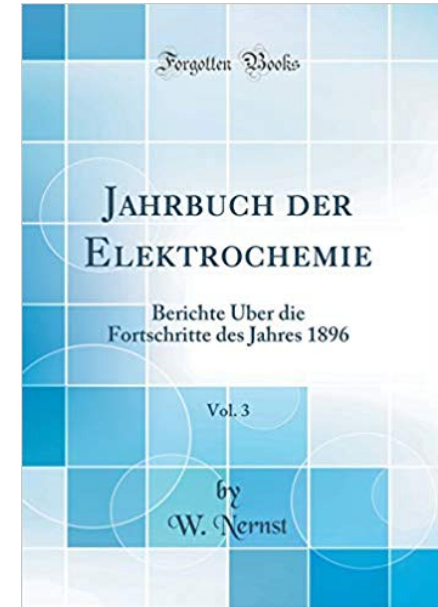
Verlag von Wilhelm Knapp.

1895.

Jahrbuch der Elektrochemie
(1895 – 1906?)

Absolute Potentiale einiger Metalle in Normallösungen
ihrer Salze.

Metall	Sulfat	Chlorid	Nitrat	Acetat
Magnesium	+ 1,239	+ 1,231	+ 1,060	+ 1,240
Aluminium	+ 1,040	+ 1,015	+ 0,775	
Mangan	+ 0,815	+ 0,824	+ 0,560	
Zink	+ 0,524	+ 0,503	+ 0,473	+ 0,522
Kadmium	+ 0,162	+ 0,174	+ 0,122	
Thallium	+ 0,114	+ 0,151	+ 0,112	
Eisen	+ 0,093	+ 0,087		
Kobalt	- 0,019	- 0,015	- 0,078	- 0,004
Nickel	- 0,022	- 0,020	- 0,060	
Blei		- 0,095	- 0,115	- 0,079
Zinn		- 0,085		
Wasserstoff	- 0,238	- 0,249		- 0,150
Wismuth	- 0,490	- 0,315	- 0,500	
Arsen		- 0,550		
Antimon		- 0,376		
Kupfer	- 0,515		- 0,615	- 0,580
Quecksilber	- 0,980		- 1,028	
Silber	- 0,974		- 1,055	- 0,991
Palladium		- 1,066		
Platin		- 1,140		
Gold		- 1,356		

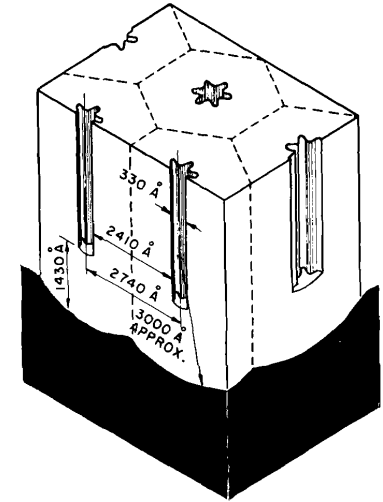




J. Electrochem. Soc. (c 1902)

(Trans. Electrochem. Soc.)

Fundamental and applied areas of electrochemistry, including experimental and theoretical aspects of electrodes, interfaces, and devices.



[Phospho-olivines as positive-electrode materials for rechargeable lithium batteries \(1997\)](#)

[Polymer Electrolyte Fuel Cell Model \(1991\)](#)

[Electrochemical Polarization: I. A Theoretical Analysis of the Shape of Polarization Curves \(1957\)](#)

[Optimized \$\text{LiFePO}_4\$ for lithium battery cathodes \(2001\)](#)

[Transition from “Supercapacitor” to “Battery” Behavior in Electrochemical Energy Storage \(1991\)](#)

[A new long phosphorescent phosphor with high brightness, \$\text{SrAl}_2\text{O}_4:\text{Eu}^{2+},\text{Dy}^{3+}\$ \(1991\)](#)

[Low temperature surface cleaning of silicon and its application to silicon MBE \(1986\)](#)

[STRUCTURAL FEATURES OF OXIDE COATINGS ON ALUMINIUM \(1953\)](#)



Electrochem. and Solid-State
Lett. (1998 – 2012)

журнал кратких сообщений

[Approaching theoretical capacity of LiFePO₄ at room temperature at high rates](#) (2001)

[Structural changes in silicon anodes during lithium insertion/extraction](#) (2004)

[Li Conductivity in Li_xMPO₄ \(M = Mn, Fe, Co, Ni\) Olivine Materials](#)
(2004)



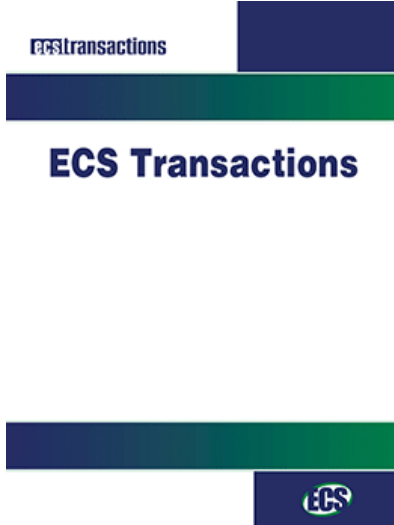
ECS J. Solid State Sci.
and Technol. (c 2012)



ECS Electrochem. Lett.
(2012 - 2015)

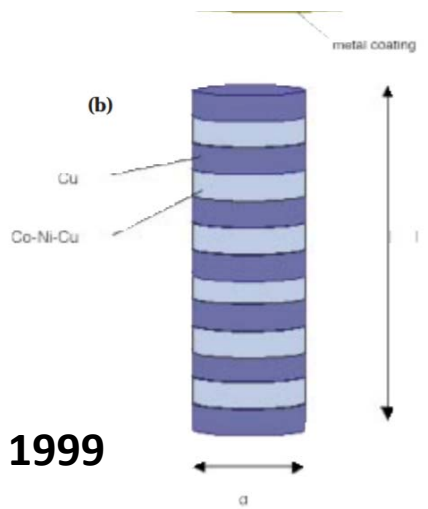


ECS Solid State Lett.
(2012 - 2015)



ECS Trans. (c 1967)
(ECS Proc. Volumes)
конференционное издание

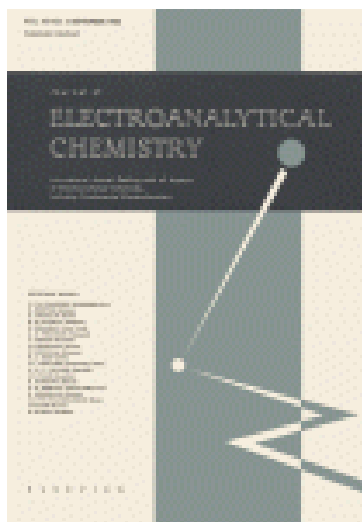
Interface (c 1992)
научно-информационное издание



1999



Preprints do not *replace* a journal paper, they *precede* it. A preprint is any draft of a document starting from the author's original version but prior to an accepted journal version. A preprint can contain complete data and methodologies. Other types of information that are currently difficult to publish (e.g., negative results, results in slide decks, explanations of datasets, etc.) can be transmitted. Preprints and journal publication work in parallel as a communication system for scientific research. Based upon feedback and/or new data, new versions of a preprint can be submitted.



J. Electroanal. Chem. (c 1959)

(... and Interfacial Electrochemistry, 1967-1991)

...devoted to the interdisciplinary subject of **electrochemistry** in all its aspects, theoretical as well as applied



Roger Parsons (1926-2017)

- GENERAL EXPRESSION OF THE LINEAR POTENTIAL SWEEP VOLTAMMOGRAM IN THE CASE OF DIFFUSIONLESS ELECTROCHEMICAL SYSTEMS (1979)
- SURFACE RAMAN SPECTROELECTROCHEMISTRY .1. HETEROCYCLIC, AROMATIC, AND ALIPHATIC-AMINES ADSORBED ON ANODIZED SILVER ELECTRODE (1977)
- THE ANALYSIS OF ELECTRODE IMPEDANCES COMPLICATED BY THE PRESENCE OF A CONSTANT PHASE ELEMENT (1984)
- ADSORPTION, AUTOINHIBITION AND AUTOCATALYSIS IN POLAROGRAPHY AND IN LINEAR POTENTIAL SWEEP VOLTAMMETRY (1974)
- PREPARATION OF MONO-CRYSTALLINE PT MICROELECTRODES AND ELECTROCHEMICAL STUDY OF THE PLANE SURFACES CUT IN THE DIRECTION OF THE (111) AND (110) PLANES (1980)
- ELECTROCATALYSIS BY AD-ATOMS .2. ENHANCEMENT OF OXIDATION OF METHANOL ON PLATINUM BY RUTHENIUM AD-ATOMS (1975)
- Oxygen reduction on a high-surface area Pt/Vulcan carbon catalyst: a thin-film rotating ring-disk electrode study (2001)
- THE ELECTROCHEMICAL DESORPTION OF N-ALKANETHIOL MONOLAYERS FROM POLYCRYSTALLINE AU AND AG ELECTRODES (1991)
- NEW ELECTROCHEMICALLY GENERATED ORGANIC CONDUCTING POLYMERS (1982)



Electrochim. Acta (c 1959)

Electrochemistry should be interpreted to mean any of the research fields covered by the Divisions of the [International Society of Electrochemistry](#)

CITCE (Comite International de Thermodynamique et Cinetique Electrochimiques) c 1949 до 1971



Sergio Trasatti

International Society of Electrochemistry

MEMBERS AREA DIVISIONS PUBLICATIONS JOBS & POSITIONS CONTACT

Scientific journals
Scientific journals available to ISE members at special reduced rates

Electrochimica Acta (Society Journal) First Time Users / Activation Page Access full text articles	Bioelectrochemistry First Time Users / Activation Page Access full text articles
Journal of Electroanalytical Chemistry First Time Users / Activation Page Access full text articles	Journal of Power Sources First Time Users / Activation Page Access full text articles

- Electrochemical lithiation of tin and tin-based intermetallics and composites (1999)
- THEORETICAL AND EXPERIMENTAL STUDIES OF MULTIPLE NUCLEATION (1983)
- Modeling and interpretation of electrical impedance spectra of dye solar cells operated under open-circuit conditions (2002)
- Diffusion in the electrolyte and charge-transfer reaction at the platinum electrode in dye-sensitized solar cells (2001)
- ELECTROCATALYSTS FOR O₂ REDUCTION (1984)
- ELECTROCATALYSIS IN THE ELECTROCHEMICAL CONVERSION/COMBUSTION OF ORGANIC POLLUTANTS FOR WASTE-WATER TREATMENT (1994)
- HOMOGENEOUS AND HETEROGENEOUS OPTICAL AND THERMAL ELECTRON TRANSFER (1968)
- Interfacial processes involving electrocatalytic evolution and oxidation of H₂, and the role of chemisorbed H (2002)
- INNER AND OUTER ACTIVE SURFACE OF RuO₂ ELECTRODES (1990)
- EXPERIMENTAL ASPECTS OF USE OF THE QUARTZ CRYSTAL MICROBALANCE IN SOLUTION (1985)
- EMPIRICAL PARAMETERS FOR DONOR AND ACCEPTOR PROPERTIES OF SOLVENTS (1976)
- Large reversible capacity of high quality graphene sheets as an anode material for lithium-ion batteries (2010)
- Measurement of oxygen reduction activities via the rotating disc electrode method: From Pt model surfaces to carbon-supported high surface area catalysts (2008)
- ELECTROCATALYSIS IN THE ANODIC EVOLUTION OF OXYGEN AND CHLORINE (1984)



J. Power Sources (c 1976)

...for researchers and technologists interested in all aspects of the science, technology and applications of **sources** of **electrochemical power**.

Большое разнообразие тупиковых предложений:

[LiBH₄ a new hydrogen storage material \(2003\)](#)

[Dimethyl ether \(DME\) as an alternative fuel \(2006\)](#)

[Evaluation of carbon materials for use in a direct carbon fuel cell \(2007\)](#)

.....

[Use of silver iodate as a cathode for lithium cells \(1976\)](#)

[Highly dispersed tungsten carbide for fuel cells with an acidic electrolyte \(1976\)](#)



Electrochem. Commun. (c 1999)

....short communications, full communications and mini reviews covering the whole field of electrochemistry which merit urgent publication

Low-potential stable NADH detection at carbon-nanotube-modified glassy carbon electrodes (2002)

Application of graphene-modified electrode for selective detection of dopamine (2009)

Detection of active oxidative species in TiO₂ photocatalysis using the fluorescence technique (2000)

Increased performance of single-chamber microbial fuel cells using an improved cathode structure

Transparent graphene/PEDOT-PSS composite films as counter electrodes of dye-sensitized solar cells (2008)

N-Methyl-N-propylpiperidinium bis(trifluoromethanesulfonyl)imide (PP 13-TFSI) - novel electrolyte base for Li battery (2003)



Current Opinion in Electrochemistry (c 2017)

1. The views of experts on current advances in electrochemistry in a clear and readable form.
2. Evaluations of the most interesting papers, annotated by experts, from the great wealth of original publications.

- Sensors & Bio-sensors
- Surface Electrochemistry
- Energy Transformation
- Fundamental & Theoretical Electrochemistry
- Electrocatalysis
- Energy Storage: Batteries and Supercapacitors
- Electrochemical Engineering
- Physical & Nano-Electrochemistry
- Bioelectrochemistry
- Organic & Molecular Electrochemistry
- Innovative Methods in Electrochemistry
- Environmental Electrochemistry



Richard Compton

Bioelectrochemistry (c 1974)

(Bioelectrochemistry and Bioenergetics)



- Electrified interfaces (electric double layers, adsorption, electron transfer, protein electrochemistry, basic principles of biosensors, biosensor interfaces and bio-nanosensor design and construction.
- Electric and magnetic field effects (field-dependent processes, field interactions with molecules, intramolecular field effects, sensory systems for electric and magnetic fields, molecular and cellular mechanisms)
- Bioenergetics and signal transduction (energy conversion, photosynthetic and visual membranes)
- Biomembranes and model membranes (thermodynamics and mechanics, membrane transport, electroporation, fusion and insertion)

Биофизика

- Electrochemical applications in medicine and biotechnology (drug delivery and gene transfer to cells and tissues, iontophoresis, skin electroporation, injury and repair).
- Organization and use of arrays in-vitro and in-vivo, including as part of feedback control.
- Electrochemical interrogation of biofilms as generated by microorganisms and tissue reaction associated with medical implants.

*Что-то
еще*



J. Applied Electrochemistry (c 1971)

Electrochemical science → Engineering

THIN-FILM CATALYST LAYERS FOR POLYMER ELECTROLYTE FUEL-CELL ELECTRODES (1992)

ANODIC-OXIDATION OF PHENOL FOR WASTE-WATER TREATMENT (1991)

Electrocatalytic oxidation of aliphatic alcohols: Application to the direct alcohol fuel cell (DAFC) (2001)

USE OF ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY FOR THE STUDY OF CORROSION PROTECTION BY POLYMER-COATINGS (1995)

ELECTROCHEMICAL OXIDATION OF PHENOL FOR WASTE-WATER TREATMENT USING SNO₂ ANODES (1993)



J. Solid State Electrochemistry (c 1997)

...if at least one actively participating phase is solid



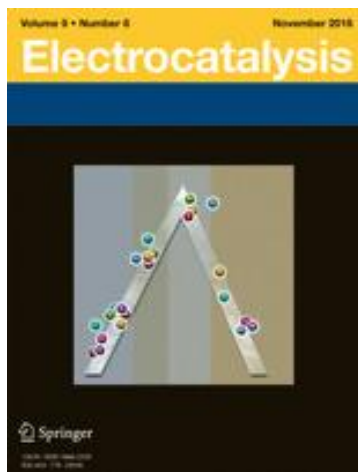
Fritz Scholz

[Electroactive conducting polymers for corrosion control Part 1. General introduction and a review of non-ferrous metals; Part 2. Ferrous metals \(2002\)](#)

[Stress generation and fracture in lithium insertion materials \(2006\)](#)

[Double-layer and pseudocapacitance types of electrochemical capacitors and their applications to the development of hybrid devices \(2003\)](#)

Журнал охотно публикует обзоры и исторические материалы



Electrocatalysis (c 2010)

...cross-disciplinary in nature, and attracts the interest of chemists, physicists, biochemists, surface and materials scientists, and engineers.... promotes the scientific and engineering concepts that are critical to the development of novel electrochemical technologies.

theoretical and experimental aspects of the mechanisms and kinetics of electrochemical reactions

electrochemical generation of gases

electrochemical reactions taking place in fuel cells

electrosynthesis, organic electrochemistry, and electrocatalytic hydrogenation

electrochemical reactions taking place at matrix-supported electrocatalysts

electrode reactions occurring in electrochemical sensors

electrochemical degradation of pollutants



ChemElectroChem (c 2014)

.....covers the entire scope of pure and applied electrochemistry, the latter encompassing (among others) energy applications, electrochemistry at interfaces (including surfaces), photoelectrochemistry and bioelectrochemistry

Manipulating the Hydrocarbon Selectivity of Copper Nanoparticles in CO₂ Electroreduction by Process Conditions (2015)

Water Oxidation at Electrodes Modified with Earth-Abundant Transition-Metal Catalysts (2015)

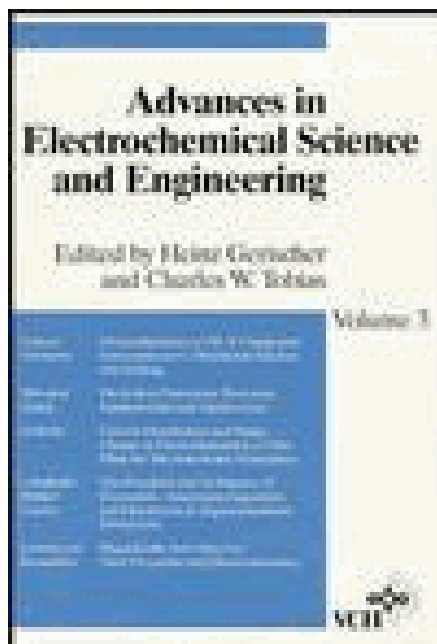
Highly Disordered Carbon as a Superior Anode Material for Room-Temperature Sodium-Ion Batteries (2014)

Phosphorus Electrodes in Sodium Cells: Small Volume Expansion by Sodiation and the Surface-Stabilization Mechanism in Aprotic Solvent (2014)

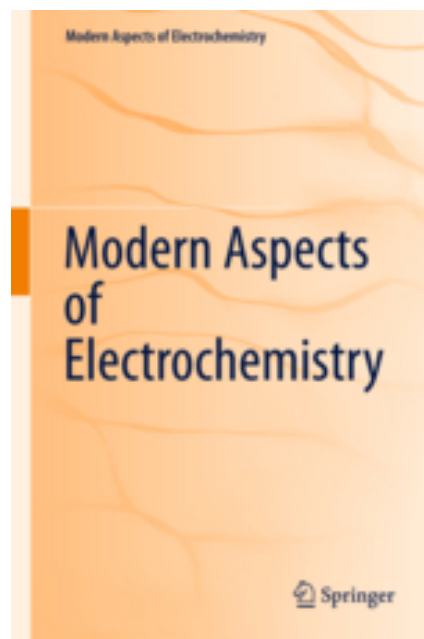
Multielectron, Multistep Molecular Catalysis of Electrochemical Reactions: Benchmarking of Homogeneous Catalysts (2014)

Сериальные издания

Вне журналов



Wiley



Springer



ВИНИТИ

Сетевые ресурсы



Electrochemical Science & Technology
Information Resource (ESTIR)

<http://knowledge.electrochem.org/estir/history.htm>

<http://knowledge.electrochem.org/ed/dict.htm>

<http://knowledge.electrochem.org/encycl/>

Zoltan Nagy

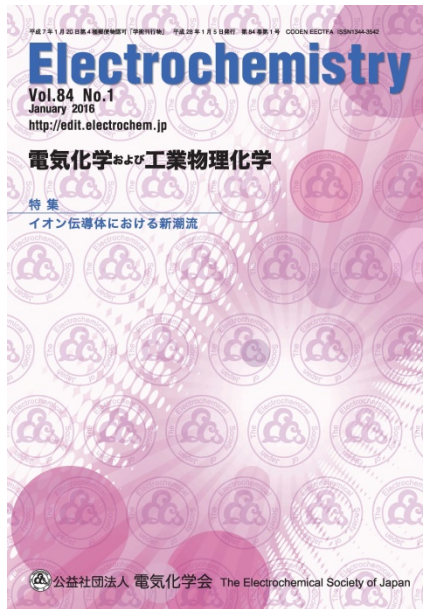


The Electrochemical Society of Japan (ECSJ)

Electrochemistry (c 1933)

(Denki Kagaku)

...publishes original articles and notes written in English or Japanese by authors active in the disciplines of electrochemistry and industrial physical chemistry, and in related industrial fields, along with reviews, commentaries, research materials, statistics and discussions aimed at the dissemination of new information and at continuing re-education



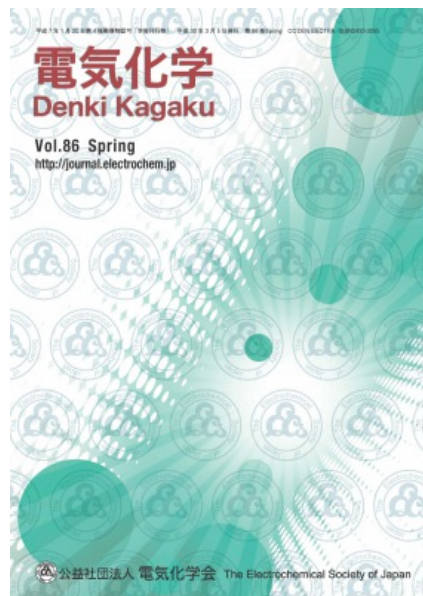
ADSORPTION BEHAVIOR OF POLYOXYETHYLENEGLYCOLE ON THE COPPER SURFACE IN AN ACID COPPER-SULFATE BATH (1984)

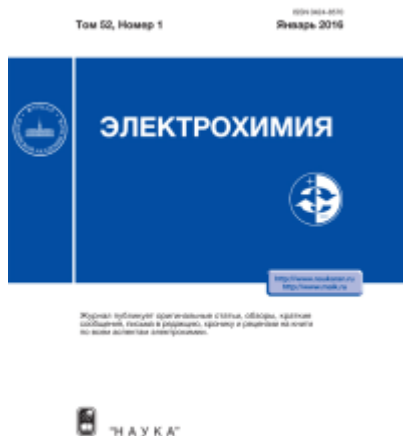
RELATIONSHIP BETWEEN GAS SENSITIVITY AND MICROSTRUCTURE OF POROUS SnO₂ (1990)

QUASI-SOLID ORGANIC ELECTROLYTES GELATINIZED WITH POLYMETHYL-METHACRYLATE AND THEIR APPLICATIONS FOR LITHIUM BATTERIES (1985)

DIFFUSION PROCESS IN VISCOUS-FLOW OF ELECTROLYTE SOLUTION IN MAGNETOHYDRODYNAMIC PUMP ELECTRODES (1976)

ELECTROCHEMICAL REDUCTION OF CARBON-DIOXIDE DISSOLVED UNDER HIGH-PRESSURE .3. IN NON-AQUEOUS ELECTROLYTES (1982)





Электрохимия (с 1965)

«Наука»?

Sov. Electrochem.; Rus. J. Electrochem.

Springer

[ELECTRODES OF SYNTHETIC SEMICONDUCTING DIAMOND - AN ESTIMATE OF THEIR HOMOGENEITY AND CONDUCTION TYPE FROM IMPEDANCE MEASUREMENTS \(1991\)](#)

[STRUCTURE OF THE ELECTRIC DOUBLE-LAYER AND POTENTIALS OF ZERO CHARGE ON INDIVIDUAL FACES OF A BISMUTH SINGLE-CRYSTAL \(1985\)](#)

**SOVIET
ELECTROCHEMISTRY**

ЭЛЕКТРОХИМИЯ / ÉЛЕКТРОХИМИЯ

TRANSLATED FROM RUSSIAN

 CONSULTANTS BUREAU, NEW YORK

[ELECTRIC TRANSPORT OF IONS THROUGH DIFFUSION LAYERS WITH IMPAIRED ELECTRONEUTRALITY \(1989\)](#)

[Coupled convection of solution near the surface of ion-exchange membranes in intensive current regimes \(1993\)](#)

[Coupled convection of solution near the surface of ion-exchange membranes in intensive current regimes \(2007\)](#)



PLEIADES PUBLISHING
Distributed by Springer



Surface engineering and applied electrochemistry
(1965)

Электронная обработка материалов

Институт прикладной
физики АН Молдовы

Springer

*ВИЗИТНАЯ КАРТОЧКА МОЛДАВСКОЙ НАУКИ В МИРОВОМ
ИНФОРМАЦИОННОМ ПОЛЕ*

Исследование свойств макро-, микро и -наноматериалов и физико-химические методы их получения;
Электроэрозионные и электрохимические методы обработки поверхности;
Инженерия: электрические процессы в технике и химии;
Электрические методы обработки биологических и пищевых объектов; электромагнитные поля в биосистемах
Приборы и оборудование, из опыта работы.

Анодирование, осаждение сплавов



Portugaliae Electrochimica Acta (c 1983)

**Portuguese
Electrochemical
Society**

...publishes original papers, brief communications, reviews and letters concerned with every aspect of theory and practice of **electrochemistry**, as well as articles in which topics on history, science policy, education, etc. in the electrochemical field (teaching or research) may be discussed.

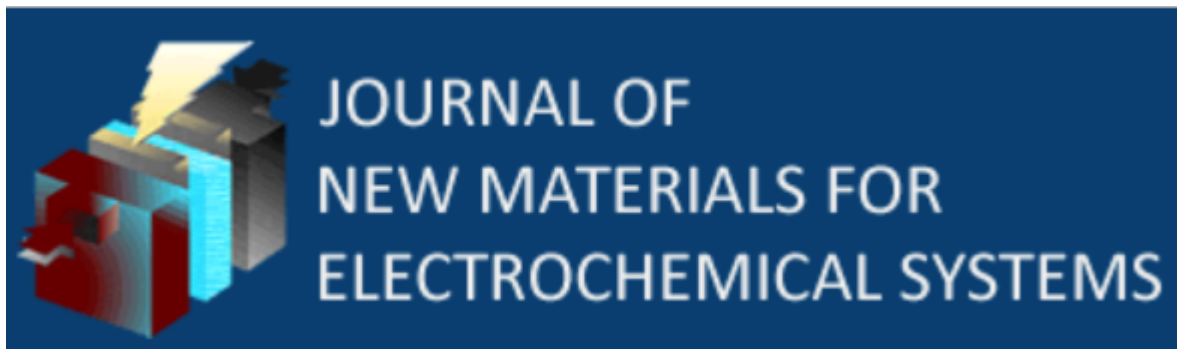
JECST |

Journal of Electrochemical Science and Technology

**Korean
Electrochemical
Society**

(c 2010)

- Batteries and Energy Storage
- Fuel Cells
- Electrochemical Capacitors & Supercapacitors
- Solar Energy Conversion and Photoelectrochemistry
- Electronic and Ionic Materials
- Corrosion Science and Technology
- Electrodeposition and Surface Treatment
- Electrochemical Engineering
- Environmental Science and Technology
- Physical Electrochemistry
- Electroanalytical Chemistry and Sensor Technology
- Biological Electrochemistry
- Molecular Electrochemistry and Organic Electrochemistry



J. New Mater. for Electrochem. Systems
(c 1998)

FUEL CELLS AND BIOFUEL CELLS
ADVANCED PRIMARY AND SECONDARY
BATTERIES
ELECTROCHEMICAL SUPERCAPACITORS
HYDROGEN PRODUCTION
BIOELECTROCHEMISTRY
ELECTROCHEMICAL NANOTECHNOLOGY
SENSORS AND BIOSENSORS
PHOTOELECTROCHEMISTRY
ELABORATION AND CHARACTERIZATION
MATERIALS AND SYSTEMS DURABILITY
SYSTEMS INTEGRATION
COMMERCIAL ASPECTS



Oumarou Savadogo

Акценты – fuel cell

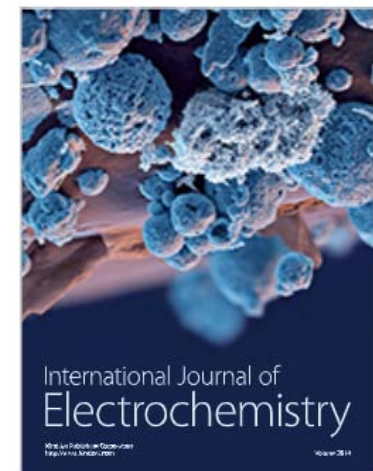


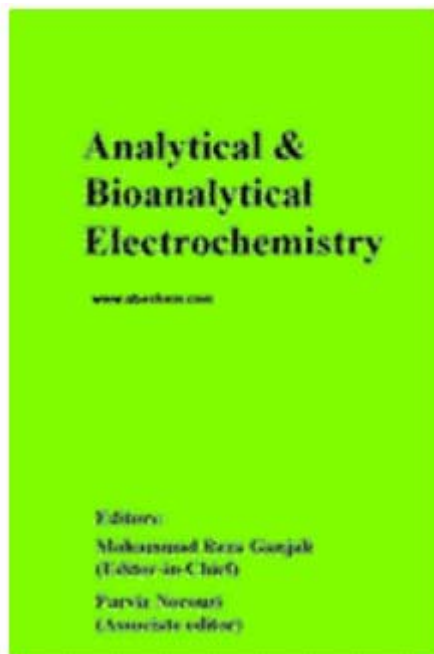
Int. J. Electrochem. Sci. (c 2006)

Theoretical and Computational
Electrochemistry
Processes on Electrodes
Electroanalytical Chemistry and Sensor Science
Corrosion
Electrochemical Energy Conversion and
Storage
Electrochemical Engineering
Coatings
Electrochemical Synthesis
Bioelectrochemistry
Molecular Electrochemistry

Не путать с Int. J. Electrochem. !!!

Осторожно!!! - Hindawi

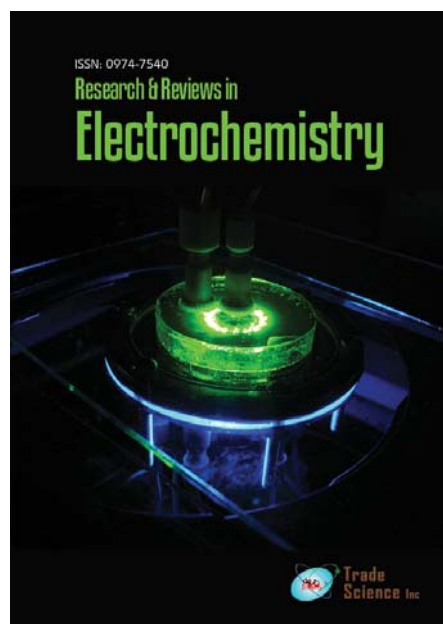




Analytical & Bioanalytical Electrochemistry (c 2009)

The journal is approved by Journals Survey Commission of Persian Sciences, Researches and Technologies Ministry and indexed by Islamic world Science Citation Center (ISC).

Осторожно!!!



... a valuable platform for the authors and researchers to contribute their work that reaches the readers across the globe without any subscription barriers:



[The Evolution and Sustenance of Life](#)

[Bioelectricity from bacterial isolates of computer key boards and mice](#)