

Contents

Vol. 88, No. 10, 2015

A simultaneous English language translation of this journal is available from Pleiades Publishing, Ltd.

Distributed worldwide by Springer. *Russian Journal of Applied Chemistry* ISSN 1070-4272

Inorganic Synthesis and Industrial Inorganic Chemistry

- Study of Conversion Processes in Multicomponent Systems in Manufacture of Complex Magnesium-containing Fertilizers
O. B. Dormeshkin 1563
- Modeling of Ammonia Oxidation on a Platinoid Catalyst, Taking into Account the N₂O Formation
A. S. Savenkov, O. N. Bliznjuk, P. V. Kuznetsov, Yu. L. Vyatkin, and N. Yu. Masalitina 1570
-

Various Physicochemical and Technological Processes

- Effect of Peroxide Depolymerization of Chitosan on Properties of Chitosan Sulfate Particles Produced from This Substance
E. A. Mezina and I. M. Lipatova 1576
- Catalytic Properties of Complex Oxide Coatings on Foamed Nickel
A. A. Ostroushko and O. V. Russkikh 1582
- Recovery of Lanthanum from Acid Leaching Solutions of Spent Cracking Catalyst
V. N. Martsul' and I. Yu. Kozlowskaya 1589
- Passivation of Zinc Coatings in Cerium-Containing Solutions
A. A. Abrashov, N. S. Grigoryan, T. A. Vagramyan, E. A. Zheludkova, and V. P. Meshalkin 1594
- Selective Functionalization of the Primary Hydroxy Group in Triols
G. Z. Raskil'dina, V. F. Valiev, R. M. Sultanova, and S. S. Zlotskii 1599
- Photoactivation of the Oxidation Process of *para*-Chlorophenol in Aqueous Solutions
M. S. Khandarkhaeva, A. A. Batoeva, D. G. Aseev, and M. R. Sizykh 1605
-

Sorption and Ion Exchange Processes

- Effect of Microscopic Additions of Fullerenes on the Absorption Capacity of Inorganic Sorbents for *d* Elements
V. Yu. Morozova, M. L. Podvyaznikov, and V. V. Samonin 1612
- Synthesis and Properties of Polymeric and Organo-Inorganic Amphiphilic Sorbents Molecularly Imprinted with Cholesterol
I. V. Polyakova, A. A. Osipenko, L. N. Borovikova, N. M. Ezhova, O. A. Pisarev, E. N. Vlasova, and B. Z. Volchek 1617
- Study of the Effect of Technological Parameters of Extractive Wastewater Purification in Production of Bisphenols
A. E. Bal'tser, N. G. Zubritskaya, D. A. Zaitsev, A. G. Bazanov, T. G. Babenko, T. V. Ivanova, and E. N. Barskova 1627
-

Applied Electrochemistry and Corrosion Protection of Metals

- Application of Polymethyl Methacrylate in Cathode Materials of Lithium-Ion Batteries
*A. A. Popovich, P. A. Novikov, A. O. Silin, N. G. Razumov,
M. Yu. Maximov, and Wang Qing Sheng* 1633
- Enhancing the Efficiency of Using Electroplated Iron and Cobalt Sulfides
with a Sublayer of NiC Composite
in a Lithium Battery
R. D. Apostolova, R. P. Peskov, and O. V. Kolomoets 1637
- Electrochemical Oxidative Modification of Nanocarbon Materials
in Aqueous Electrolyte Solutions
V. K. Varentsov and V. I. Varentsova 1643
- Electrochemical Modification of a Nonwoven Fibrous Carbon Material
in Sulfuric Acid Solution
V. K. Varentsov and V. I. Varentsova 1650
- Catalytic Deoxygenation of High-Purity Water Using Membrane Electrode Units
V. S. Gurskii, D. A. Kirpikov, E. Yu. Kharitonova, Yu. V. Tsapko, and I. M. Yasnev 1656

Macromolecular Compounds and Polymeric Materials

- Optically Active Polyamidoimides Based on Amino Acids
Containing Cyclohexane Fragment
*L. I. Subbotina, A. A. Bakanova, E. R. Kofanov, E. N. Popova, E. N. Vlasova,
and V. M. Svetlichnyi* 1661
- Direct Two-Step Synthesis of *n*-Butyl Acrylate–Acrylic Acid
Block Copolymer by RAFT Polymerization
*N. Yu. Shushunova, B. B. Troitskii, S. A. Chesnokov, T. A. Kovylnina, M. V. Arsen'ev,
A. N. Konev, M. Yu. Zakharina, and I. L. Fedyushkin* 1667
- Optimization of Process Parameters of γ -Polyoxymethylene Synthesis
V. M. Zinov'ev, O. A. Gladkova, and A. M. Fedoseev 1673
- Modification of the Polypropylene/EPDM/Talc Composite with a System Consisting
of an Organic Peroxide and a Polyfunctional Vinyl Monomer
*I. G. Ryzhikova, N. A. Bauman, A. M. Volkov, Yu. M. Kazakov, S. I. Volfson,
N. A. Okhotina, and O. A. Panfilova* 1679
- Structure of the Copolymers of Alkyl Methacrylate and Vinyl Alkyl Ethers,
Novel Viscosity Modifiers of Lubricating Oils
*L. L. Semenycheva, E. V. Geras'kina, Yu. O. Matkivskaya,
A. A. Moikin, Yu. A. Kurskii* 1686

Various Technological Processes

- Synthesis, Characterization, and Controlled Release Study
of Polyurea Microcapsules Containing Metribuzin Herbicide
Devanand K. Patil, Deepika S. Agrawal, Rahul R. Mahire, Dhananjay H. More 1692
- Production of Biodiesel through Transesterification of Soybean Oil using ZIF-8@GO Doped
with Sodium and Potassium Catalyst
Razieh Fazaeli and Hamid Aliyan 1701

Electrochemical Performance of γ MnO ₂ Prepared from the Active Mass of Used Batteries <i>K. Noufel, A. Bouzid, N. Chelali, and L. Zerroual</i>	1711
Influence of Nano-Alumina on Curing Kinetics and Corrosion Resistance of Alumina Based Ceramic Coatings <i>Da Bian and Yongwu Zhao</i>	1718
Synthesis of a Novel Titanium Complex Catalyst and Its Catalytic Performance for Olefin Polymerization <i>Chaoxiang Wang, Yajiao Wang, Yanliu Dang, Qingze Jiao, Hansheng Li, Qin Wu, and Yun Zhao</i>	1723

Brief Communications

Treatment of Aqueous Solutions with a Technogenic Carbonate-Containing Reagent to Remove Lead(II) Ions <i>E. M. Bayan, T. G. Lupeiko, M. O. Gorbunova, and E. V. Tolstobrova</i>	1728
Getting New Monomers: Carboxyl Bicyclic Methacrylates <i>M. K. Mamedov and V. S. Qedirli</i>	1733
