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ALEXANDR NAUMOVICH FRUMKIN

Dear Alexandr Naumovich,

Your pupils, collaborators, and the Editorial Board of the journal "Uspekhi Khimii" convey to you their warm greetings in connection with your jubilee and wish you health and many years of fruitful endeavour.

We have no doubt that the freshness and sharpness of your intellect, your energy, and outstanding capacity for work will ensure that the ideas which you have been developing will further enrich science and its practical applications with new achievements.

We all greatly value the opportunity to work with you, the leading electrochemist in the world, and are ready to assist you in every way in the further development of new and most advanced ideas of our Soviet science.

We wish you many happy days and major creative success.

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ELECTROCHEMICAL REDUCTION OF OXYGEN

V. S. Bagotskii, L. N. Nekrasov, and N. A. Shumilova

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1. INTRODUCTION

Electrochemical (cathodic) reduction of molecular oxygen on various metallic or carbon electrodes has been the subject of numerous experimental studies in recent years. The increased interest in this reaction is due in the first place to its wide occurrence and great practical importance. The electrochemical reduction of oxygen greatly influences metal corrosion processes in aqueous media in the presence of free access of oxygen[1]. In analytical