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Editorial Board

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This and the next issue of *Russian Journal of Coordination Chemistry* addresses complexes with redox-active ligands. These are ligands that are able to acquire and give off electrons, with their structure being retained. This behavior is also present if they are not coordinated to a metal atom, that is, they exist as molecules or ions. In the free state, some of them can be extremely unstable. One reason for the interest in the complexes with redox-active ligands is that it is possible to reliably detect all oxidation and reduction steps. A combination of any redox-active ligand with various metal atoms and with some other ligands within a coordination compound provides an abundant family of products exhibiting highly diverse, often unique and practically useful properties that can find application in solving pressing challenges of the critical technologies of the Russian Federation.

Among compounds that are used most often to study complexes with redox-active ligands, mention should be made, first of all, of catechol and unsaturated 1,2-diamine derivatives. There is also a moderate number of inorganic molecules and ions that exhibit redox activity when occur as parts of coordination compounds, for example, superoxide and peroxide anions. However, they have limited applicability in the synthesis of coordination compounds.

The special issue of the Journal presents papers written by researchers who belong to scientific schools engaged in the synthesis of redox-active ligands, synthesis and study of complexes with redox-active ligands, and identification of useful properties of the obtained compounds that could be used to solve important practical problems. The nontrivial properties of compounds attract also specialists in quantum chemistry.

The plethora of properties of complexes with redox-active ligands attests to the enormous potential of studies of these compounds and the prospects for their practical use. We hope that this issue will attract the attention of a wide range of researchers and will be useful for their work.

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