



Periodic Law and Systems of Chemical Elements: Yesterday, Today, Tomorrow

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Message from the Guest Editor

At present, there are three main problems associated with the systematization of chemical elements. First, how many chemical elements exist and what are the regularities of their mutual arrangement in the periodic system. Second, if there are any quantitative (i.e., expressed by a strict mathematical formula) regularity between at least some property of a chemical element and the charge of its nuclide. Third, the search for new and improvement of existing variants for the interpretation of the Periodic Law in order to identify the most optimal among them. Therefore, the first two of these problems, despite the simplicity of their formulations, still do not have an unambiguous answer; as for the third problem, the total number of interpretations of D.I. Mendeleev's Periodic Law is already more than 1000 and continues to grow from year to year, and the question of which of them should be considered the most closely corresponding to the formulation of the Periodic Law remains open.

This Special Issue is intended to include primarily original full papers and brief communications on any research that in one way or another aims at solving any of the three above problems.





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Message from the Editor-in-Chief

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