

EDITORIAL

In this issue of December 2016, we have incorporated articles and research papers from various domains of Science Education.

The article 'Qualitative Analysis of Manganese (II) ions: Sensitive, Selective and Time Effective Method' by Ruchi Verma, discusses selective test for identification of manganese (II) ion in a salt mixture without following the standard sequence of reactions. It is found that the colour of the mixture may interfere to identify given substance. Taking this into consideration as a limitation, the test can be used as a sensitive, selective and time effective qualitative analysis of Mn(II) ions. Moreover, it can be used for demonstrating the concept of stability of complexes in different oxidation states, such as, Manganese in both oxidation states as Mn(II) and Mn(IV).

The paper on 'Problem Based Learning in Basic Physics - XI' by A.K. Mody and H.C. Pradhan is a sequel to Part X which includes several problems in the area of geometrical optics and presents the learning objectives in this area of basic physics thereby achieving solutions.

'Back-of-the-Envelope Estimation: An Excellent Pedagogical Tool' by B.K. Parida and J.K. Mohapatra describes how the back of the envelope estimation can be used as a pedagogical tool. Authors have pointed out some of its merits with examples from the history of science and some examples from school level science. This approach to estimating things can be useful in a classroom and makes teaching-learning more engaging, interesting and effective.

The research paper on 'Effectiveness of Structured and Unstructured Field Trip: An Experimental Study' by Meena Sehwat and M.M. Roy indicates that structured field trip significantly enhances learning of concepts.

The article, 'Tales Building Concepts: A Constructivist Approach to Teaching-learning Science' is intended to use pedagogy of storytelling as a strategy of teaching and learning of science concepts beyond classroom and textbooks.

We sincerely hope that our readers would find the articles, features and news interesting and informative. Your valuable suggestions, observations and comments are always welcome to bring further improvement in the quality of the journal.