



# Journal of Applicable Chemistry

2015, 4 (6): 1574-1578

(International Peer Reviewed Journal)



## Chemical Education

### Secondary Analogy Based Periodic Arrangement of the Elements

Narendra S. Bhandari

Department of Chemistry, Kumaun University, Soban Singh Jeena Campus, Almora-263601 Uttarakhand, **INDIA**

Email: [bhandarins1959@gmail.com](mailto:bhandarins1959@gmail.com)

Accepted on 12<sup>th</sup> October 2015

---

#### ABSTRACT

*A restructuring of the extensively used planar-block periodic table by making separate use of group modifiers and group numbers is presented. The resulting new scheme is a collection of families of elements. Each family consists of elements with the same number of "valence electrons". This electronic structure of the elements connects them with secondary inter-group or intra-family analogy. This new arrangement, therefore, will give impetus to users of the table to develop periodic trends in properties of the elements in terms of the family and can be a valuable addition to periodic teaching. In addition to this, insertion of the f-series elements with their natural order of appearance as group-C makes the new scheme a compact periodic table of all the elements.*

**Keywords:** Graduate Education, Inorganic Chemistry, Analogies, Inner Transition Elements, Main Group Elements, Periodic Table, Transition Elements.

---