

CONTENTS

150 years of Mendeleev's Periodic Law	3
G.L. Oliferenko, A.N. Ivankin, A.V. Ustyugov On the 150 th Anniversary of the Periodic Table of Chemical Elements	5
M. Ioelovich On the Block Structure and Electron Configuration of Chemical Elements	12
M. Ioelovich Periodic System of Chemical Elements and its Paradoxes	24
V.A. Etkin On the Basis of the Periodic Element System	31
P. Kudryavtsev Dissociation Constants of Hydrated Oxides of Chemical Elements in the D.I. Mendeleev's Periodic System	38
H.K. Cherop, K.M. Muguro, K.M. Khanna The Role of the Modified Coulomb Energy in the Binding Energy Equation for Finite Nuclei	82
Khanna Kapil Mohan, Stanslous E .Obota , Joel.K.Tonui Canonical Transformation for a Mixture of Bosons and Fermions	90
P. Kudryavtsev The New Device for Storage and Generation of Hydrogen	97
V. Polyakov, D. Beilin Soft Shells in Air Flow: Experiments and Computational Models, Part II	108
LETTERS	
Editorship Prof. Oleg Figovsky: 80 th birthday	153
P.Tchoumatchenco, D. Branagan, M.Wiazemsky, B.Cooper, E. Belousova, V.Gostin, B. Gurevich Geologists of Russian Origin in Australasia / Oceania	154
NEWS & EVENTS	
• ICI Journals Master List database for 2018	159
• 2019 DoD-Allied Nations Technical Corrosion Conference	161
• The 3 rd International RILEM workshop on Concrete Durability and Service Life Planning (ConcreteLife'20)	162