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Nota di contenuto	Intro -- AROMATICITY: EXPLORING BASIC CHEMICAL CONCEPTS WITH THE QUANTUM THEORY OF ATOMS IN MOLECULES -- AROMATICITY: EXPLORING BASIC CHEMICAL CONCEPTS WITH THE QUANTUM THEORY OF ATOMS IN MOLECULES -- CONTENTS -- PREFACE -- 1. INTRODUCTION -- 1.1. AN OVERVIEW OF AROMATICITY AND AROMATICITY INDICES -- 1.2 ELECTRON DELOCALIZATION AND THE FERMI HOLE -- 1.3 GENERALIZATION OF THE ELECTRON DELOCALIZATION TO THE CASE OF n -CENTERS USING QTAIM FORMULATION -- 2. TRACKING AROMATICITY AND ANTIAROMATICITY BASED ON n -DIS. THE n -DEPENDENCE OF THE INDEX -- 3. APPLICATIONS OF THE n -DIS: THE STUDY OF AROMATICITY -- 3.1 TOTAL AND LOCAL AROMATICITY IN SMALL AROMATIC COMPOUNDS. COMPARISON WITH OTHER AROMATICITY INDICES -- 3.2 TOTAL AND LOCAL AROMATICITY IN LARGE PAHS COMPARISON WITH THE CGT -- 3.2.1 Total Aromaticity in Large PAHs -- 3.2.2 Local Aromaticity in Large PAHs -- 3.2.2.1 First Criterion of Local Aromaticity -- 3.2.2.2 Second Criterion of Local Aromaticity -- 3.3 THE ROLE OF THE ELECTRON DELOCALIZATION ON THE STABILITY OF AROMATIC POSITION ISOMERS -- 3.3.1 Monoheterocycles -- 3.3.2 Polyheterocycles -- 3.4 APPLICATIONS OF THE n -DIS TO THE STUDY OF

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($M=Mg,Zn$) -- 4.2 ELECTRON DELOCALIZATION IN $Li_3Al_4^-$ AND Li_4Al_4
-- REFERENCES.

Sommario/riassunto

Aromaticity is among the most frequently used concepts in the chemical literature. Nevertheless, it has to be stressed that aromaticity is not an observable that could be directly obtained from molecular wave function. So, it remains as a controversial concept and its physical origin is still being debated.
