Record Nr. UNINA9910807229003321 Autore Lagerkvist Ulf Titolo The periodic table and a missed Nobel prize / / Ulf Lagerkvist; edited by Erling Norrby Hackensack, N. J., : World Scientific Pub Co., Inc., c2012 Pubbl/distr/stampa **ISBN** 1-283-63591-7 981-4295-96-5 Edizione [1st ed.] Descrizione fisica 1 online resource (135 p.) Altri autori (Persone) NorrbyErling Disciplina 546.8 Soggetti Chemistry - History Nobel Prizes - History Periodic law Chemical elements Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Contents; Foreword; Preface; Elements, Atoms and Molecules; Atoms as a Philosophical Concept; The Cardinal and the Heretic Monk; The Dawn of Chemistry; Atoms and Corpuscles; An Unlikely Career; A Chemical Revolution; An Atomic Theory in the Romantic Era; Proportions in Chemistry; A Self-taught Quaker Scientist; Atomic Weights and Chemical Symbols: Gases and the Concept of the Molecule: Important Results of a Congress: Atomic Weights and Their Relation to Chemical Properties of Elements; The Road from Tobolsk to St. Petersburg From the Physiology of Blood Gases to the Mass of Atoms and MoleculesCompeting for Recognition; Unexpected Support for the Periodic Law; Straightening Out Some Irregularities; Life After the Periodic Law; The Elusive Nobel Prize; The Birth of An Academy; The King of Flowers; The Advent of Chemistry in Sweden; Metallurgy and Spas; The First Professor of Chemistry; Two Outstanding Chemists in the Era of Neoclassicism; Berzelius Takes Charge; International Contacts: Of Minerals and Catalysis: An Unexpected Responsibility:

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Prizes

Sommario/riassunto

In a relatively brief but masterful recounting, Professor Ulf Lagerkvist traces the origins and seminal developments in the field of chemistry, highlighting the discoveries and personalities of the individuals who transformed the ancient myths of the Greeks, the musings of the alchemists, the mystique of phlogiston into the realities and the laws governing the properties and behavior of the elements; in short, how chemistry became a true science. A centerpiece of this historical journey was the triumph by Dmitri Mendeleev who conceived the Periodic Law of the Elements, the relation between the