



# Periodic law, chemical elements and scientific discoveries: considerations from Norwood Hanson and Thomas Kuhn

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Accepted: 7 June 2024

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## Abstract

The theme surrounding scientific discoveries is quite neglected in and about the sciences, especially in terms of historical and epistemological understanding. Discoveries are often treated as simple information about dates, places, and people. This work presents discussions centered on historical episodes related to chemical elements and the Periodic Law, based on reflections by Thomas Kuhn and Norwood Hanson, aiming to highlight and contextualize specific scientific discoveries' conceptual and epistemological structure. With that in mind, issues related to the inseparability of the contexts of discovery and justification are recovered, along with the complex intrinsic structures of the genesis of scientific knowledge and distinct types and categories of scientific discoveries.

**Keywords** Scientific discovery · History and philosophy of science · Chemical element

## Introduction

“How do the processes of scientific discoveries happen?” This is one of the many complex questions that science presents to the world; that can be thought and considered by different perspectives. The word “discovery” is not exclusively used by scientists, historians, or philosophers of science. It presents a common and careless use, in general, in textbooks, scientific manuals, teaching materials, and scientific dissemination materials; this fact, notably, leads to an inadequate conception of scientific development and, consequently,

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First published in Brazilian Portuguese in the journal *Ensaio—Pesquisa em Educação em Ciências*, v. 25, e-46058, p. 1-19, 2023. <https://doi.org/10.1590/1983-21172022240157>.

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# Discoveries Considerations

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