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<b>Titolo</b>	The evolution of EU law / edited by Paul Craig and Gràinne de Búrca
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<b>Lingua di pubblicazione</b>	Inglese
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<b>Autore</b>	Maroney Michael J
<b>Titolo</b>	Bioinorganic Chemistry of Nickel
<b>Pubbl/distr/stampa</b>	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
<b>Descrizione fisica</b>	1 online resource (238 p.)
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<b>Sommario/riassunto</b>	The chemistry of nickel in biological systems has been intensely investigated since the discovery of the essential role played by this transition metal in the enzyme urease, ca. 1975. Since then, several nickel-dependent enzymes have been discovered and characterized at the molecular level using structural, spectroscopic, and kinetic methods, and insight into reaction mechanisms has been elaborated

using synthetic and computational models. The dual role of nickel as both an essential nutrient and as a toxin has prompted efforts to understand the molecular mechanisms of nickel toxicology and to uncover the means by which cells select nickel from among a pool of different and more readily available metal ions and thus regulate the intracellular chemistry of nickel. This latter effort highlights the importance of proteins involved in the extra- and intra-cellular sensing of nickel, the roles of nickel-selective proteins for import and export, and nickel-responsive transcription factors, all of which are important for regulating nickel homeostasis. In this Special Issue, the contributing authors have covered recent advances in many of these aspects of nickel biochemistry, including toxicology, bacterial pathogenesis, carcinogenesis, computational and synthetic models, nickel trafficking proteins, and enzymology.

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