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Titolo	Inorganic Constituents in Soil [[electronic resource]] : Basics and Visuals / / by Masami Nanzyo, Hitoshi Kanno
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ISBN	981-13-1214-1
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XI, 181 p. 136 illus., 107 illus. in color.)
Disciplina	631.4
Soggetti	Soil science Soil conservation Agriculture Geobiology Spectroscopy Microscopy Environmental chemistry Inorganic chemistry Soil Science & Conservation Biogeosciences Spectroscopy and Microscopy Environmental Chemistry Inorganic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Purpose and scope -- Primary minerals -- Secondary minerals -- Non-crystalline inorganic constituents of soil -- Soil inorganic constituents sensitive to varying redox conditions. .
Sommario/riassunto	This open access book is a must-read for students of and beginners in soil science. In a well-organized and easy-to-follow manner, it provides basic outlines of soil minerals, new methods and recent developments in the field, with a special focus on visual aids. The chapters on primary minerals, secondary minerals, non-crystalline inorganic constituents and inorganic constituents sensitive to varying

redox conditions will help readers understand the basic components of soils. Further, readers are introduced to new analytical methods with the aid of microscopy and recent developments in the field. Uniquely, the book features case studies on the identification and isolation methods for vivianite crystals from paddy field soils, as well as a identical procedure for identifying noncrystalline constituents such as volcanic glasses and plant opals, which can also be applied to other soils depending on the local conditions. Given its focus and coverage, the book will be useful to all readers who are interested in agronomy, plant production science, agricultural chemistry and environmental science. In addition, it can help biogeochemists further expand their research work on the rhizosphere of wetland plant roots, iron and phosphate dynamics, etc.

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