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Titolo	Magmas under pressure : advances in high-pressure experiments on structure and properties of melts / / edited by Yoshio Kono, Chrystele Sanloup
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Livello bibliografico	Monografia
Nota di contenuto	Part I. Magmas in the Earth's interior -- Primary melt compositions in the Earth's mantle -- Carbon-bearing magmas in Earth's deep interior -- The influence of pressure on the properties and origins of hydrous silicate liquids in Earth's interior -- Melting in the Earth's deep interior -- Part II. Advances in experimental studies of melts at high pressures -- X-ray diffraction structure measurements -- X-ray absorption spectroscopy measurements -- Synchroton Mossbauer spectroscopy measurement -- Vibrational properties of glasses and melts -- Density and elasticity measurements for liquid materials -- Viscosity measurement -- Electrical conductivity measurement -- Part III. Current knowledge on structure and properties of magmas under pressure -- Densification mechanisms of oxide glasses and melts -- Silicate glasses under ultrahigh pressure conditions -- Melts under extreme conditions from shock experiments -- Simulation of silicate melts under pressure.
Sommario/riassunto	"Magmas under Pressure: Advances in High-Pressure Experiments on Structure and Properties of Melts summarizes recent advances in experimental technologies for studying magmas at high pressures. In the past decade, new developments in high-pressure experiments,

	particularly with synchrotron X-ray techniques, have advanced the study of magmas under pressure. These new experiments have revealed significant changes of structure and physical properties of magmas under pressure, which significantly improves our understanding of the behavior of magmas in the earth's interior. This book is an important reference, not only in the earth and planetary sciences, but also in other scientific fields, such as physics, chemistry, material sciences, engineering and in industrial applications, such as glass formation and metallurgical processing."--

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Titolo	Nghiên cu lch s
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