

1.	Record Nr.	UNIORUON00022704
	Autore	GOODWIN, Janet R.
	Titolo	Alms and Vagabonds : Buddhist Temples and Popular Patronage in Medieval Japan / Janet R. Goodwin
	Pubbl/distr/stampa	Honolulu, : University of Hawaii Press, 1994 viii, 181 p. ; 20 cm
	ISBN	08-248-1547-5
	Classificazione	GIA VII B
	Soggetti	BUDDHISMO - GIAPPONE - PERIODO KAMAKURA (1185-1333)
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910876871203321
	Autore	Zhang Chuanfang
	Titolo	Transition Metal Carbides and Nitrides (MXenes) Handbook : Synthesis, Processing, Properties and Applications
	Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2024
	ISBN	9781119869528 1119869528 9781119869504 1119869501
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (781 pages)
	Altri autori (Persone)	NaguibMichael
	Disciplina	546.6
	Soggetti	MXenes Transition metal compounds
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

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Sommario/riassunto

The book 'Transition Metal Carbides and Nitrides (MXenes) Handbook' provides a comprehensive overview of the emerging class of materials known as MXenes. Edited by Chuanfang Zhang and Michael Naguib, it delves into the synthesis, processing, properties, and diverse applications of MXenes. The handbook is structured in a manner that guides researchers through the intricacies of MXene synthesis, including precursor preparation and etching methods, while also addressing the thermal and chemical stability of these materials. It is aimed at materials scientists and engineers, offering insights into the potential of MXenes in various technological applications. The book also discusses the degradation mechanisms, handling, and storage strategies for MXenes, making it a valuable resource for advancing research in the field.
