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Autore	Spinelli, Franco <1949- >
Titolo	La costruzione delle navi militari / Franco Spinelli
Pubbl/distr/stampa	Napoli : Liguori, 1968
Descrizione fisica	492 p. : ill. ; 23 cm
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Locazione	FINBC DININ
Collocazione	13 E 62 17 05 62 74 05 64 242 05 CN 39 85 05 CN 43 9 05 CN 43 7 05 CN 29 85 05 CN 43 8
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Livello bibliografico	Monografia
Note generali	In testa al front.: Istituto di costruzioni navali della Facoltà di ingegneria dell'Università degli studi di Napoli

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Autore	Gao Yanan
Titolo	Covalent Organic Frameworks / / Yanan Gao, Fei Lu
Pubbl/distr/stampa	London : , : IntechOpen, , 2023
Descrizione fisica	1 online resource (122 pages)
Disciplina	547.70442
Soggetti	Crystalline polymers
Lingua di pubblicazione	Inglese
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Nota di contenuto	Preface -- Chapter 1 Interfacial Synthesis of 2D COF Thin Films by Tao Zhang and Yuxiang Zhao -- Chapter 2 Covalent Organic Frameworks for Ion Conduction by Fei Lu and Yanan Gao -- Chapter 3 Photoredox Catalysis by Covalent Organic Frameworks by Shuai Bi -- Chapter 4 Photocatalysis of Covalent Organic Frameworks by Hui Liu and Yingjie Zhao -- Chapter 5 Applications of Covalent Organic Frameworks (COFs) in Oncotherapy by Guiyang Zhang.
Sommario/riassunto	In recent decades, artificial porous structures have attracted increasing enthusiasm from researchers inspired by the fascinating molecular pores in nature and their unique biological functions. Although substantial achievements in porous materials have been realized, the construction of topologically designed pores is still challenging. Recently, the emergence of covalent organic frameworks (COFs), which are constructed based on organic and polymer chemistry, has made it possible to design artificial pores with controlled pore size, topology and interface properties. COFs are crystalline porous materials constructed by the precise reticulation of organic building blocks via dynamic covalent bonds. Distinct from non-covalent interactions which tend to produce isostructures, covalent bonds enable accurate pore design owing to their predetermined reaction pathways. In addition, the appropriate polycondensation of organic building units enables the formation of extended two-dimensional (2D) and three-dimensional (3D) polymer architectures with periodically ordered skeletons and well-defined pores. With their large surface area, tailorable structures, and tunable chemistry, COFs are regarded as potentially superior

candidates for various applications including catalysis, energy storage and conversion, mass transport and biotechnology. This book examines the historic achievement of COFs, providing clear and comprehensive guidance for researchers on their structural design, synthetic protocols and functional exploration.