

1. Record Nr.	UNINA9910453013303321
Autore	Kadokawa Jun-ichi
Titolo	Engineering of polysaccharide materials : by phosphorylase-catalyzed enzymatic chain-elongation // Jun-ichi Kadokawa, Yoshiro Kaneko
Pubbl/distr/stampa	Singapore : , : Pan Stanford Pub., , 2013
ISBN	0-429-08715-2 981-4364-46-0
Edizione	[First edition.]
Descrizione fisica	1 online resource (140 p.)
Altri autori (Persone)	KanekoYoshiro
Disciplina	547.782
Soggetti	Polysaccharides - Synthesis Polymerization Chemical engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	1. Introduction -- 2. General scope for enzymatic tools in engineering of polysaccharide materials -- 3. Phosphorylase-catalyzed enzymatic glycosylation -- 4. Phosphorylase-catalyzed enzymatic polymerization -- 5. Chemoenzymatic synthesis of amylose-grafted synthetic polymers by utilizing phosphorylase catalysis -- 6. Chemoenzymatic synthesis of amylose-grafted biopolymers by utilizing phosphorylase catalysis -- 7. Preparation of amylose-polymer inclusion complexes in phosphorylase-catalyzed enzymatic polymerization (vine-twining polymerization) -- 8. Extension of vine-twining polymerization by phosphorylase catalysis -- 9. Carbohydrate engineering by phosphorylase catalysis -- 10. Preparation of amylose-based nanomaterials by phosphorylase catalysis.

2. Record Nr.	UNINA9911007482203321
Autore	Krishnan Palani Thanaraj
Titolo	Advanced Image Fusion Techniques for Medical Imaging : Trends, Applications, and Future Directions // by Palani Thanaraj Krishnan, Vijayarajan Rajangam
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9676-02-9
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (139 pages)
Altri autori (Persone)	RajangamVijayarajan
Disciplina	543.028
Soggetti	Imaging systems in biology Image processing Signal processing Artificial intelligence Diagnosis Radiology Biological Imaging Image Processing Signal, Speech and Image Processing Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Chapter 1: Introduction to Image Fusion in Medical Image Analysis -- Chapter 2: Conventional Fusion Strategies for Medical Image Processing -- Chapter 3: Image Fusion using Deep Learning Methods -- Chapter 4: Fusion strategies for Deep learning applications -- Chapter 5: Advanced Applications, Future Trends, and Conclusion.
Sommario/riassunto	"Advanced Image Fusion Techniques for Medical Imaging: Trends, Applications, and Future Directions" is a comprehensive exploration of cutting-edge image fusion methodologies in the realm of medical imaging. This timely work addresses the growing need for advanced techniques to integrate and analyze multi-modal medical images, offering healthcare professionals and researchers a valuable resource for improving diagnostic accuracy and patient outcomes. The book

provides a thorough examination of both conventional and deep learning-based fusion strategies, covering a wide spectrum of applications in medical image processing. From noise reduction and image enhancement to segmentation and classification, the authors present a detailed analysis of how image fusion can be leveraged to overcome the limitations of individual imaging modalities. Real-world case studies and practical examples throughout the text demonstrate the tangible benefits of these techniques in clinical settings. Looking beyond current applications, this forward-thinking volume also explores emerging trends and future directions in medical image fusion. By addressing challenges and potential impacts on healthcare practices, the authors offer readers a glimpse into the future of medical imaging. This book serves as an essential guide for researchers in biomedical engineering, medical professionals specializing in radiology and medical imaging, and graduate students in computer science, electrical engineering, biomedical engineering. This diverse audience reflects the book's comprehensive approach to advanced image fusion techniques in medical imaging, covering both theoretical foundations and practical applications.
