

1. Record Nr.	UNICAMPANIAVAN00242775
Autore	Gu, Jiajun
Titolo	Metallic Butterfly Wing Scales : Superstructures with High Surface-Enhancement Properties for Optical Applications / Jiajun Gu, Di Zhang, Yongwen Tan
Pubbl/distr/stampa	Cham, : Springer, 2015
Descrizione fisica	VIII, 94 p. : ill. ; 24 cm
Altri autori (Persone)	Tan, Yongwen Zhang, Di
Disciplina	621.36 535.2 620.5 621.39 620.1 530.4175 621.365
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910130806603321
Titolo	2012 6th IEEE International Conference on Digital Ecosystems and Technologies
Pubbl/distr/stampa	[Place of publication not identified], : IEEE, 2012
ISBN	9781467317030 1467317039 9781467317016 1467317012
Descrizione fisica	1 online resource
Disciplina	621.380413
Soggetti	Business enterprises - Computer networks Computer network architectures Digital communications
Lingua di pubblicazione	Inglese
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3. Record Nr.	UNINA9910373918203321
Titolo	Aptamers : Biotechnological Applications of a Next Generation Tool // edited by Gulab Singh Yadav, Vikas Kumar, Neeraj K. Aggarwal
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-8836-9
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XXI, 186 p. 53 illus., 51 illus. in color.)
Disciplina	611.01816
Soggetti	Molecular biology Nucleic acids Biomedical engineering Genetics Gene therapy Biotecnologia Molecular Medicine Nucleic Acid Chemistry Biomedical Engineering/Biotechnology Genetics and Genomics Gene Therapy Llibres electrònics
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Aptamer: The Science of Synthetic DNA -- Recent updates for isolation of aptamers for various biothreat agents using different strategies and their role in detection applications -- Aptamer: A Futuristic Approach in Diagnosis Rivaling Antibodies -- Aptamer: Apt System for Target-specific Drug Delivery -- Aptamers: Novel therapeutic and diagnostic molecules -- Different approaches for aptamer conjugated drugs preparation -- Nucleic acid guided molecular tool for in-vivo theranostic applications -- Current development and future prospects of aptamer based protein targeting -- Aptasensor- Possible design and strategy for aptamer based sensor -- Aptamer-based biosensors for detection of environmental pollutants -- Role of aptamers in plant

defense mechanism against viral diseases -- Aptamer- a next generation tool for application in agricultural industry for food safety. .

Sommario/riassunto

The book discusses the basics of aptamers and the advent of aptamer-based technology in recent times. The book covers the diverse applications of aptamers, such as in detection of animal and plant pathogens, disease diagnosis and therapeutics, environmental contamination detection etc. Besides these applications, the book also describes the use of these synthetic or modified DNA, as drug delivery vehicles. The different chapters describe how the binding capacity and specificity of aptamers can be exploited in various ways. The book also discusses how these attributes of aptamers can outdo the antibody technology in biomedical and diagnostic solutions. This crisp and concise book gives the readers an insight into the most recent biotechnological applications of aptamers. .
