1. Record Nr. UNIPARTHENOPE000018902

Autore	Adam, John A.
Titolo	Mathematics in nature : modeling patterns in the natural world / John A. Adam
Pubbl/distr/stampa	Princeton : Princeton University press, 2003 Oxford
Titolo uniforme	Mathematics in nature <in italiano>
ISBN	0-691-11429-3
Descrizione fisica	XXII, 360 p. ; 24 cm
Disciplina	511.8
Collocazione	M 511.8/19
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910557623103321

Autore	Kintzios Spyridon E
Titolo	Bioelectric Sensors
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (114 p.)
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Bioelectric sensors are unique diagnostic principles and technologies. Although they share many traits with electrochemical sensors, especially regarding the common features of instrumentation, they are focused on the measurement of the electric properties of biorecognition elements as a reflection of cellular, biological, and biomolecular functions in a rapid, very sensitive, and often non-invasive manner. Bioelectric sensors offer a plethora of options in terms both of assay targets (molecules, cells, organs, and organisms) and methodological approaches (e.g., potentiometry, impedance spectrometry, and patch-clamp electrophysiology). Irrespective of the method of choice, "bioelectric profiling" is being rapidly established as a superior concept for a number of applications, including in vitro toxicity, signal transduction, real-time medical diagnostics, environmental risk assessment, and drug development. This Special Issue is the first that is exclusively dedicated to the advanced and emerging concepts and technologies of bioelectric sensors. Topics include, but are not restricted to, bioelectric sensors for single cell analysis, electrophysiological olfactory and volatile organic compounds sensors, impedimetric biosensors, microbial fuel cell biosensors, and implantable autonomous bioelectric micro- and nano-sensors.