1.	Record Nr.	UNINA9910783421203321
	Titolo	Advances in biophotonics [[electronic resource] /] / edited by Brian C. Wilson, Valery V. Tuchin and Stoyan Tanev
	Pubbl/distr/stampa	Amsterdam ; ; Oxford, : IOS Press, 2005
	ISBN	1-280-50492-7 9786610504923 1-4237-9889-9 1-60750-127-9 600-00-0330-7 1-60129-108-6
	Descrizione fisica	1 online resource (296 p.)
	Collana	NATO science series. Series I, Life and behavioural sciences ; ; v. 369
	Altri autori (Persone)	WilsonBrian <1950-> TuchinV. V (Valerii Viktorovich) TanevS
	Disciplina	572.435
	Soggetti	Photobiochemistry Organic photochemistry
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Papers from the NATO Advanced Study Institute on Biophotonics : From Fundamental Principles to Health, Environment, Security and Defence Applications, Ottawa, Canada Sept.-Oct. 2004.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Title page; Preface; Contents; Fibers and Waveguides for Medical Applications; Integrated Optical Sensors for Biophotonics; The Finite-Difference Time-Domain Method in the Biosciences: Modelling of Light Scattering by Biological Cells in Absorptive and Controlled Extra-Cellular Media; Control of Tissue and Blood Optical Properties; Photobiology for Biophotonics; Raman Spectroscopy: Chemical Analysis of Biological Samples; Raman Spectral Analysis: A Case Study; Nanoparticle-Based Surface-Enhanced Raman Spectroscopy; Fluorescence Spectroscopy and Microscopy Single Molecule Fluorescence Microscopy and SpectroscopyChemiluminescence and Bioluminescence: Mechanisms, Fundamental Principles and Applications; Photodynamic Therapy; Overview of Research Activities at the NSF Center for Biophotonics

	Science and Technology; Author Index
Sommario/riassunto	Biophotonics is the convergence of photonics and life sciences. The life sciences have an increasing need for new technologies to which photonics can make significant contributions. This volume presents the developments from a perspective of photonic technologies, and life-sciences applications.