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Titolo	Energy harvesting materials [[electronic resource] /] / edited by David L. Andrews
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Descrizione fisica	1 online resource (400 p.)
Altri autori (Persone)	AndrewsDavid L. <1952->
Disciplina	621.47/2
Soggetti	Energy harvesting Solar collectors - Materials Solar energy Photochemistry Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; Contents; Physical Principles of Efficient Excitation Transfer in Light Harvesting; 1. INTRODUCTION; 2. PRINCIPLES OF EXCITATION TRANSFER; 3. EXCITATION LIFETIME AND QUANTUM YIELD; 4. REPRESENTATIVE PATHWAYS OF EXCITATION TRANSFER BASED ON MEAN FIRST PASSAGE TIMES; 5. SOJOURN EXPANSION: AN EXPANSION FOR EXCITATION MIGRATION IN TERMS OF REPEATED DETRAPPING EVENTS; 6. ROBUSTNESS AND OPTIMALITY OF A LIGHT HARVESTING SYSTEM; 7. PRINCIPLES FOR DESIGNING ARTIFICIAL LIGHT-HARVESTING SYSTEMS; ACKNOWLEDGMENTS; Design and Synthesis of Light Energy Harvesting Proteins 1. ENGINEERING INSIGHTS FROM NATURAL PHOTOSYSTEM DESIGN 2. DESIGNING LHC PROTEIN MAQUETTES; 3. CONCLUSIONS AND PROSPECTS; ACKNOWLEDGMENTS; How Purple Bacteria Harvest Light Energy; 1. INTRODUCTION; 2. GENERAL ASPECTS OF ANTENNA COMPLEX STRUCTURE; 3. THE STRUCTURE OF LH2; 4. THE STRUCTURE OF THE RC-LH1 CORE COMPLEX; 5. ENERGY TRANSFER WITHIN THE PSU;

6. CONCLUSION; ACKNOWLEDGMENTS; Regulation of Light Harvesting in Photosystem II of Plants Green Algae and Cyanobacteria; 1. INTRODUCTION; 2. COMPOSITION STRUCTURE AND FUNCTION OF LIGHT HARVESTING COMPLEXES; 3. EXCITATION PRESSURE AND PHOTOSTASIS  
4. ROLE OF LIGHT HARVESTING IN PHOTOPROTECTION AND PHOTOSTASIS  
5. NUTRIENT LIMITATIONS; 6. SENSING CELLULAR ENERGY IMBALANCE AND REGULATION OF LIGHT HARVESTING;  
ACKNOWLEDGEMENTS; From Biological to Synthetic Light-Harvesting Materials - The Elementary Steps; 1. INTRODUCTION; 2. PHOTOSYNTHETIC LIGHT-HARVESTING - ENERGY TRANSFER AND TRAPPING; 3. ORGANIC CONDUCTING POLYMERS: LIGHT HARVESTING AND GENERATION; 4. DYE-SENSITIZED NANOSTRUCTURED SEMI-CONDUCTORS - ENERGY CONVERSION BY ULTRAFAST ELECTRON TRANSFER; 5. TRANSITION METAL SUPRAMOLECULAR COMPLEXES - ENERGY TRANSFER IN ARTIFICIAL ANTENNAS  
ACKNOWLEDGEMENTS Controlling Excitation Energy and Electron Transfer by Tuning the Electronic Coupling; 1. INTRODUCTION; 2. THEORETICAL BACKGROUND; 3. DONOR-BRIDGE-ACCEPTOR SYSTEMS WITH TT-BRIDGES; 4.  $\sigma$ -BRIDGES AND SUPEREXCHANGE - THE THROUGH-BOND COUPLING MECHANISM.; 5. CONCLUSIONS; Energy Transfer and Trapping in Engineered Macromolecules; 1. INTRODUCTION; 2. EXPERIMENTAL DETAILS; 3. ENGINEERED POLYMER SYSTEMS; 4. CONCLUSIONS; ACKNOWLEDGMENTS; Dendrimer-Based Devices: Antennae and Amplifiers; 1. INTRODUCTION; 2. DENDRIMERS AS LIGHT HARVESTING ANTENNAE; 3. DENDRIMERIC AMPLIFIERS Energy Harvesting in Synthetic Dendritic Materials 1. INTRODUCTION; 2. METAL-CONTAINING DENDRIMERS; 3. PHENYLACETYLENE DENDRIMERS; 4. DENDRIMERS CONTAINING DISTYRYLBENZENE OR STILBENE UNITS; 5. PORPHYRIN-CONTAINING DENDRIMERS; 6. COUMARIN DYE LABELED POLY(ARYLEETHER) DENDRIMERS; 7. TWO-PHOTON LIGHT HARVESTING AND ENERGY TRANSFER; 8. POLYPHENYLENE DENDRIMERS; 9. ENERGY TRANSFER TO ENCAPSULATED GUESTS; 10. CONCLUSION; ACKNOWLEDGEMENTS; Fullerenes in Biomimetic Donor-Acceptor Networks; 1. INTRODUCTION; 2. HYDROGEN BONDING MOTIFS; 3. II-STACK MOTIFS; 4. CROWN ETHER COMPLEXATION MOTIFS  
5. METAL MEDIATED MOTIFS

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### Sommario/riassunto

The science of energy harvesting materials is experiencing phenomenal growth and attracting huge interest. Exploiting recently acquired insights into the fundamental mechanisms and principles of photosynthesis, it is now possible to forge entirely new and distinctive molecular materials and devise artificial photosystems and applications far remote from conventional solar cell technology. In this comprehensive treatment of energy harvesting, a team of internationally acclaimed scientists at the forefront of the subject paint a state-of-the-art picture of modern energy harvesting materials science

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2. Record Nr.	UNISA996472039803316
Autore	Spies Thomas
Titolo	Trauma im Computerspiel : Mediale Repräsentationen mentaler Extremerfahrungen // Thomas Spies
Pubbl/distr/stampa	Bielefeld : , : transcript Verlag, , [2022] ©2022
ISBN	3-8394-6152-9
Descrizione fisica	1 online resource (324 p.)
Collana	Digitale Gesellschaft ; ; 1
Soggetti	SOCIAL SCIENCE / Media Studies
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Über das Medium Computerspiel findet zunehmende eine Auseinandersetzung mit psychologischen Traumata statt. Posttraumatische Belastungsstörung, Krankheit und Tod sowie Depressionen und Phobien sind hierbei vorherrschende Themen und Motive. Thomas Spies zeigt in einem historischen Überblick und vergleichenden Analysen Tendenzen der kulturellen Repräsentation auf. Die Beschäftigung mit Titeln wie »Papers, Please«, »Hellblade: Senua's Sacrifice« und »Disco Elysium« lässt deutlich werden, wie Computerspiele zunehmend medienspezifische Möglichkeiten finden, die Vielfalt und Komplexität traumatischer Erfahrungen zu vermitteln.