

1. Record Nr.	UNINA9910456012703321
Titolo	Evaluating welfare reform in an era of transition [[electronic resource] / / Panel on Data and Methods for Measuring the Effects of Changes in Social Welfare Programs ; Robert A. Moffitt and Michele Ver Ploeg, editors
Pubbl/distr/stampa	Washington, DC, : National Academy Press, c2001
ISBN	1-280-21010-9 9786610210107 0-309-56501-4
Descrizione fisica	xii, 253 p. : ill
Altri autori (Persone)	MoffittRobert Ver PloegMichele
Disciplina	361.973
Soggetti	Public welfare - United States - Evaluation Public welfare administration - United States - Evaluation Social surveys - United States - Evaluation Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Committee on National Statistics, Division of Behavioral and Social Sciences and Education, National Research Council."
Nota di bibliografia	Includes bibliographical references and index.

2. Record Nr.	UNISA996215479203316
Autore	Walesh S. G
Titolo	Urban surface water management / / Stuart G. Walesh [[electronic resource]]
Pubbl/distr/stampa	New York, : Wiley, c1989
ISBN	0-470-17281-9
Descrizione fisica	1 online resource (xvii, 518 p.) : ill. ;
Disciplina	628/.2
Soggetti	Urban hydrology Urban runoff Hydraulic Engineering Mechanical Engineering Engineering & Applied Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographies and index.

3. Record Nr.	UNINA9910784607103321
Titolo	Energy harvesting materials [[electronic resource] /] / edited by David L. Andrews
Pubbl/distr/stampa	Hackensack, NJ, : World Scientific Pub. Co., c2005
ISBN	1-281-88115-5 9786611881153 981-270-095-1 1-60119-268-1
Descrizione fisica	1 online resource (400 p.)
Classificazione	42.42
Altri autori (Persone)	AndrewsDavid L. <1952->
Disciplina	621.47/2
Soggetti	Energy harvesting Solar collectors - Materials Solar energy Photochemistry
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 SEMICONDUCTORS - 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. O-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

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
