

1. Record Nr.	UNINA9910746083703321
Titolo	Mediterranean Architecture and the Green-Digital Transition : Selected Papers from the World Renewable Energy Congress Med Green Forum 2022 // edited by Ali Sayigh
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-33148-6
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (699 pages)
Collana	Innovative Renewable Energy, , 2522-8935
Disciplina	621.042
Soggetti	Renewable energy sources Sustainable architecture Energy policy Buildings - Design and construction Sustainability Renewable Energy Sustainable Architecture/Green Buildings Energy Policy, Economics and Management Building Construction and Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
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case study review -- Chapter 9. Learning from Small Green Spaces. How Findings on Use and Perception can improve the Designing of Urban Experience -- Chapter 10. New Regeneration Scenarios to Improve the Livability in Villages -- Chapter 11. Agile-Transdisciplinary Conceptual Framework for Retrofitting Mediterranean Built Environments -- Part 2: Buildings: Sustainable, Retrofitted and Renovated Buildings -- Chapter 12. Impact of Process Steps on the Performance of Heterojunction Solar Cells -- Chapter 13. Active and Passive Energy Efficiency Systems Compatible with Traditional Buildings in Palestine -- Chapter 14. Proposal of a multiscale assessment framework to guide renovation actions towards a more resilient built environment -- Chapter 15. Integrating different PV roofs on a heritage building considering aesthetic, technical, energy and environmental aspects: a multi-perspective approach -- Chapter 16. Experimental tests for the adaptation of a curtain wall subjected to extreme events in the Mediterranean Area -- Chapter 17. Seismic Evaluation of a Curtain Wall System for improving the adaptive performance of connecting non-structural components -- Chapter 18. Process Management of Spatial Structures to Address Positive Buildings with the Goals of Sustainable Development -- Chapter 19. Assessing environmental performance and climate change mitigation effects of bio-based materials for building retrofitting -- Chapter 20. Solar Architecture in Rome: The refurbishment of historic buildings with active solar technologies -- Chapter 21. Integration of solar technologies in historical buildings: construction of an evolutionary framework of good practices -- Chapter 22. Blow-up-Sustainable Modular Houses for Slum Dwellers amidst Covid-19 -- Part 3: Technologies: Circular and Ecological Materials, Nature-based Solutions for the Built Habitat -- Chapter 23. Low-cost procedure for evaluating the thermal resistance of building materials -- Chapter 24. Global Catastrophe – Climate Change is happening now, Renewable Energy can reduce its impact -- Chapter 25. Use of vegetable materials for temporary structures and infrastructures: Sustainable design with tensile systems: case study in Guimaraes -- Chapter 26. Green and healthy solutions in post-pandemic housing -- Chapter 27. Integration of Circular and green technologies for the adaptive reuse of public space -- Chapter 28. Transitional spaces as a domain for public-private engagement in urban regeneration -- Chapter 29. Marine Energy Sources for decarbonization of Mediterranean regions through Maritime Spatial Planning -- Part 4: Humans: Environmental Comfort and Well-being, Energy Efficiency and Users' Conscious Behaviour -- Chapter 30. Evaluation of electrical performance for 1.4 kW Photovoltaic system in Oman: a technical and economic study -- Chapter 31. Rethinking the European Green Deal – Accelerating the transformation towards energy independence based on 100% Renewable Energy -- Chapter 32. Prospects for Wind Energy in Southern Morocco and Northern Mauritania -- Chapter 33. Co-design inclusive relations between Humans and environments adopting a citizen science approach -- Chapter 34. The Influence of Individual Comfort in Shaping the Tourism Image of Balige -- Chapter 35. Feasibility of integrating small scale anaerobic digestion in urban areas: Analyzing energy efficiency -- Chapter 36. Dried-fruit shell reuse in green construction and building materials -- Chapter 37. Functional hospitals for humans -- Part 5: Processes: Methods, Policies and Education for Inclusive Co-planning and Co-design -- Chapter 38. Artificial Cellulose Type Catalysts for Depolymerisation of Cellulosic Biomass -- Chapter 39. Learning from collaborative processes to design the urban green transition -- Chapter 40. Influence of optical characteristics of façades on pedestrian thermal

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Sommario/riassunto

This book contains selected papers presented during the World Renewable Energy Network's biannual World Med Green Forum (MGF). The 2022 MGF highlights the role of renewable energy applications in the sustainable building sector with a focus on the Mediterranean region as a foundation for a truly positive energy future. MGF is an open roundtable for an international community of researchers, practitioners, and experts to discuss the most innovative and promising sustainable building technologies. The papers presented explore the intersection between twin transitions in policies, programs, projects, and experimentation, with the digital domain innovating the green building sector towards more reliable and inclusive planning and design practices in order to collectively envision future buildings and cities. Presents leading-edge research in green building, sustainable architecture, and renewable energy; Covers a broad range of renewable energy technologies and applications; Includes case studies and practical examples.
