

1. Record Nr.	UNINA9910544847903321
Titolo	Industry 4. 0 : fighting climate change in the economy of the future // edited by Elena B. Zavyalova, Elena G. Popkova
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2022] ©2022
ISBN	3-030-79496-2
Descrizione fisica	1 online resource (497 pages)
Disciplina	338.927
Soggetti	Climate change mitigation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- A Systemic Vision for Climate Change Combating in the Future Economy in Industry 4.0: Introduction -- Contents -- Editors and Contributors -- List of Figures -- List of Tables -- Climate Change Combating Regulatory Framework in the Future Economy in Industry 4.0 -- Environmental Legislation of the Russian Federation from Consumers' Ideology to Value-Conscious Approach to Natural Resources -- 1 Introduction -- 2 Methodology -- 3 Results and Discussion -- 4 Conclusions and Recommendations -- References -- Prosecutorial Supervision in the Field of Environmental Protection and Rational Use of Natural Resources: Modern Historiography of the Problem -- 1 Introduction -- 2 Methodology -- 3 Results -- 4 Conclusions -- References -- Digital State-Public Monitoring and Management of Environmental Protection Processes in the Region in Industry 4.0: High-Tech Approach to Security -- 1 Introduction -- 2 Literature Review -- 3 Materials and Method -- 4 Results -- 5 Conclusion -- References -- ICT Governance and ESG Factors: A New Agenda for the Boards of Directors -- 1 Introduction -- 2 Methods -- 3 Results -- 4 Conclusions -- References -- The State Food Policy in the Context of Modern Crises -- 1 Introduction -- 2 Materials and Method -- 3 Results -- 4 Conclusion -- References -- Corporate Fighting Climate Change in the Economy of the Future Based on Capabilities of Industry 4.0 -- Development of Environmental Responsibility and Related Practices Among Russian SMEs (Based

on a Survey) -- 1 Introduction -- 2 Methodology -- 3 Results -- 4  
Conclusions and Recommendations -- References -- Environmental  
Responsibility of Fashion Industry Multinational Corporations (MNCs)  
in the Context of Industry 4.0 -- 1 Introduction -- 2 Methodology -- 3  
Results -- 3.1 Environmental Situation in the Fashion Industry.  
3.2 Environmental Responsibility of Fashion Companies -- 4  
Conclusions/recommendations -- References -- Socially Responsible  
Investing in the Context of a Green Economy -- 1 Introduction -- 2  
Methodology -- 3 Results -- 4 Conclusions -- References --  
Development of Russian Energy Companies and Renewable Energy  
Sector in Russia -- 1 Introduction -- 2 Materials and Methods -- 3  
Results -- 4 Use of Public-Private Partnership Mechanisms for Creating  
Renewable Energy Facilities -- 5 Brief Description of the RES Projects  
of the Leading Companies in Russia -- 5.1 Rosatom Corporation -- 5.2  
RUSNANO Group -- 5.3 Rushydro Group -- 5.4 Hewel Group -- 6  
Conclusion and Recommendations -- References -- On  
the Mechanisms of Pharmaceutical Pollution of the Environment Risk  
Reduction -- 1 Introduction -- 2 Background and Methodology -- 3  
Results -- 4 Conclusion -- References -- Humanization of Production  
Based on Modernization: The Perspectives of Industry 4.0  
for Corporate, Social, and Ecological Responsibility -- 1 Introduction --  
2 Methodology -- 3 Results -- 4 Modernization of Production  
in Ecology -- 5 Climate -- 6 Conclusion -- Literature -- Financial  
Strategy of Energy Crisis-Management of Regional Economy in Industry  
4.0 for Security -- 1 Introduction -- 2 Literature Review -- 3 Materials  
and Method -- 4 Results -- 5 Conclusion -- References -- Prospects  
to Combat Climate Change in the Economy of the Future in the Context  
of Industry 4.0 at the Territorial Level -- Brazil's Green Energy: Today  
and Tomorrow -- 1 Introduction -- 2 Methodology -- 3 Results -- 4  
Conclusion -- References -- Regional Studies Work as a Source  
of Fostering Environmental Culture in Undergraduate Students -- 1  
Introduction -- 2 Methodology -- 3 Results -- 4  
Conclusion/recommendations -- References.  
Competition for Green Projects and Industry 4.0 Projects in Regional  
Investment Markets: A Security Perspective -- 1 Introduction -- 2  
Literature Review -- 3 Materials and Method -- 4 Results -- 5  
Conclusion -- References -- Limited Opportunities for Financing  
Projects in the Field of Industry 4.0 and Combating Climate Change  
in the Regions of Russia in the Face of Budget Shortages -- 1  
Introduction -- 2 Literature Review -- 3 Materials and Method -- 4  
Results -- 5 Conclusion -- References -- Scenario of Balanced  
Development of Industry 4.0 and Green Economy in the Regions  
of Russia: Financing, Sustainability and Security -- 1 Introduction -- 2  
Literature Review -- 3 Materials and Method -- 4 Results -- 5  
Conclusion -- References -- Financial Concept of Limiting the Negative  
Impact of Industry 4.0 on the Environment in the Regions of Russia  
in the Interests of Safety -- 1 Introduction -- 2 Literature Review -- 3  
Materials and Method -- 4 Results -- 5 Conclusion -- References --  
Financing of Responsible Production in Regional Entrepreneurship  
Based on the Capabilities of Industry 4.0: Contribution  
to the Environmental Safety of the Region -- 1 Introduction -- 2  
Literature Review -- 3 Materials and Method -- 4 Results -- 5  
Conclusion -- References -- Financing Climate Change in a "Smart"  
Region for Security: A Fiscal Framework Against Private Investment -- 1  
Introduction -- 2 Literature Review -- 3 Materials and Method -- 4  
Results -- 5 Conclusion -- References -- Industry Specifics  
and Opportunities to Combat Climate Change in the Economy  
of the Future in the Context of Industry 4.0 -- The Creation of "Green"

Investment Banks in the Context of Fourth Industrial Revolution -- 1  
Introduction -- 2 Methodology -- 3 Results -- 4 Recommendations --  
References -- HEIs Network Collaboration on Water Resources  
for Fostering Innovative Educational Methods.  
1 Introduction -- 2 Methodology -- 3 Results and Discussion -- 4  
Conclusions and Recommendations -- References -- Sustainable  
Development of the Oil and Gas Industry and Modern Challenges  
of Decarbonization -- 1 Introduction -- 1.1 What Is Sustainable  
Development? -- 1.2 How Can We Meet Energy Demand in the Near  
Future? -- 2 Materials and Methods -- 2.1 Carbon Capture, Utilization  
and Storage (CCU) -- 3 Results -- 4 Conclusion -- References --  
Ecological Vector of Social Responsibility in Energy Companies -- 1  
Introduction -- 2 Methodology -- 3 Results -- 3.1 The Main Aspects  
of Social and Ethical Marketing -- 3.2 Pollution of the Earth's Ecosystem  
by Energy Companies -- 3.3 Alternative Power Engineering -- 3.3.1  
Renewable Energy in the World -- 3.3.2 Alternative Energy in Russia --  
3.4 Sustainable Development Concept -- 4 Conclusion -- References  
-- Not for "Green": Risks of Inflating a "New-Bubble" by Applying  
Traditional Financial Mechanisms -- 1 Introduction -- 2 Methodology  
-- 2.1 Funding "Green" Economy -- 2.2 New "Green" Look for Old  
Vulnerabilities: Securitization, Sale-and-Repurchase, Derivatives -- 3  
Results -- 4 Conclusion -- References -- Green Bonds in the System  
of International Environmental Financing of Industry 4.0 Projects -- 1  
Introduction -- 2 Materials and Methods -- 3 Results -- 3.1  
International Agreements For the Protection of the Environment  
and the Industry 4.0 Concept -- 3.2 Financial System for Investing  
in Environmental Protection Projects -- 3.3 Green Bonds (GBonds)  
as an Innovative and Promising Means of Financing Environmental  
Projects -- 4 Conclusions -- References -- Greener Transport  
for North America -- 1 Introduction -- 2 Methodology -- 3 Results --  
4 Conclusion -- References -- Digital Technologies in the Oil and Gas  
Sector and Their Contribution to UN Climate Action Goal -- 1  
Introduction -- 2 Methodology.  
3 Results -- 4 Conclusions -- References -- Digital Technologies  
to Combat Climate Change in the Economy of the Future Through  
Industry 4.0 -- The Influence of Digitalization on Chinese Banks: New  
Financial Technologies in a Plan Economy (Including Shadow Banking  
and Green Fintech) -- 1 Introduction -- 2 Methodology -- 2.1 Chinese  
Banks Prospects and Adaptivity -- 2.2 Shadow Banking  
and Digitalization in China -- 3 Results and Discussion -- 4 Conclusion  
-- References -- Transition of Business Information to Electronic  
Exchange: Foreign and Russian Experience -- 1 Introduction -- 2  
Methodology -- 3 Results -- 4 Conclusion -- References -- How Does  
Green Robotics Differ from Conventional Robotics: Comparative  
Analysis -- 1 Introduction -- 2 Methodology -- 3 Results -- 4 Energy  
Consumption -- 5 Manufacturing Materials -- 6 Integration  
into the Ecosystem -- 7 Intended Purpose -- 8 Conclusions --  
References -- Managing Industry 4 Technology and Innovation -- 1  
Introduction -- 2 Methodology -- 3 Results -- 3.1 Industry 4  
Management Issues and Suggestions -- 4 Conclusion -- References --  
Artificial Intelligence-Reducing the Carbon Footprint? -- 1 Introduction  
-- 2 Methodology -- 3 Results -- 4 Conclusions -- References -- On  
the Use of Climatic Information in Automated Business Processes  
of Industry 4.0 Enterprises -- 1 Introduction -- 2 Methodology -- 2.1  
Data Integration -- 2.2 Automatic Detection of Disasters -- 2.3  
Application for the Selection and Transmission of Information About  
Disasters -- 2.4 "Dashboard" and "MeteoMonitor" Applications -- 2.5  
Loading of Information into External Information Systems -- 2.6

Decision Support System -- 2.7 Damage Assessment and Calculation  
of the Cost of Preventive Actions -- 3 Results -- 4 Conclusions --  
References -- Global Hydropower as the Main Driver of Sustainable  
Development in the Context of Industry 4.0.  
1 Introduction.

---